SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY

REGULAR MEETING AGENDA
OCTOBER 22, 2015 8:30 A.M.

Location: City Council Chamber, 15651 East Stafford Street, City of Industry, California

Addressing the Agency:

- ***Agenda Items:*** *Members of the public may address the Successor Agency on any matter listed on the Agenda. In order to conduct a timely meeting, there will be a three-minute time limit per person for any matter listed on the Agenda. Anyone wishing to speak to the Successor Agency is asked to complete a Speaker's Card which can be found at the back of the room and at each podium. The completed card should be submitted to the Secretary prior to the Agenda item being called and prior to the individual being heard by the Successor Agency.*

- ***Public Comments (Non-Agenda Items):*** *Anyone wishing to address the Successor Agency on an item not on the Agenda may do so during the "Public Comments" period. In order to conduct a timely meeting, there will be a three-minute time limit per person for the Public Comments portion of the Agenda. State law prohibits the Successor Agency from taking action on a specific item unless it appears on the posted Agenda. Anyone wishing to speak to the Successor Agency is asked to complete a Speaker's Card which can be found at the back of the room and at each podium. The completed card should be submitted to the Secretary prior to the Agenda item being called by the Secretary and prior to the individual being heard by the Successor Agency..*

Americans with Disabilities Act:

- *In compliance with the ADA, if you need special assistance to participate in any meeting (including assisted listening devices), please contact the Office of the Secretary to the Successor Agency (626) 333-2211. Notification of at least 72 hours prior to the meeting will assist staff in assuring that reasonable arrangements can be made to provide accessibility to the meeting.*

Agendas and other writings:

- *In compliance with Government Code Section 54957.5(b), staff reports and other public records permissible for disclosure related to open session agenda items are available at City Hall, 15625 East Stafford Street, Suite 100, City of Industry, California, at the office of the Secretary of the Successor Agency during regular business hours, Monday through Friday, 9:00 a.m. to 5:00 p.m.*

1. Call to Order

2. Flag Salute

3. Roll Call

4. Public Comment

5. **BOARD MATTERS**

5.1 Approval of Change Order No. 3 to Sukut Construction, in the amount of $2,032,287.43, for slide repair and grading for a new tank location in conjunction with the Industry Business Center Mass Grading, Contract No. IBC-0380, as identified in Line Item No. 271 of the Recognized Obligation Payment Schedule.

RECOMMENDED ACTION: Approve Change Order No. 3.

5.2 Approval of Change Order No. 4 to Sukut Construction, in the amount of $656,740.16, for plan revisions and geotechnical recommendations in conjunction with the Industry Business Center Mass Grading, Contract No. IBC-0380, as identified in Line Item No. 271 of the Recognized Obligation Payment Schedule.

RECOMMENDED ACTION: Approve Change Order No. 4.

5.3 Consideration of rejecting all bids for Contract No. IBC-0381, Industry Business Center Phase 2 Mass Grading West Side due to a discrepancy in the low bid received and authorize rebidding the project as IBC-0381R, as identified in Line Item No. 217 of the Recognized Obligation Payment Schedule.

RECOMMENDED ACTION: Reject all bids and authorize rebidding the project for an estimated cost of $27,400,000.00.

6. Adjournment. Next regular Successor Agency meeting will be on Thursday, November 26, 2015 at 8:30 a.m.

SUCCESSOR AGENCY

ITEM NO. 5.1

SUCCESSOR AGENCY TO THE

INDUSTRY URBAN - DEVELOPMENT AGENCY

MEMORANDUM

To: Honorable Chairman and Members of the Successor Agency to the Industry Urban-Development Agency Board

From: Paul J. Philips, Executive Director Paul J. Philips

Staff: Clement N. Calvillo, CNC Engineering CNC
Gerardo Perez, CNC Engineering GP

Date: October 22, 2015

SUBJECT: Change Order No. 3, Revised – Slide Repair and Grading for New Tank Location (IBC-0380)

On June 25, 2015, the Successor Agency Board, approved Change Order No. 3 in the estimated amount of $1,600,000.00 to repair and remove the slide on a time and material basis. To date the initial portion of the slide remediation to be paid on a time and material basis is $1,422,527.43.

The remaining work to place compacted fill in the new buttress fill slope is not included in the time and materials work. The cost to place this fill including final grading will be paid under existing unit prices and will be reflected in the final measured quantities. The total fill is approximately 300,000 cubic yards. However, since there isn't any material in close proximity to the slide, the material had to be hauled from the southern end of the site. Hauling this material a greater distance is considered a long haul and the Contractor requested a long haul premium per cubic yard. The overall increase in distance is approximately 2500 lineal feet or 25 stations. The lower fill area which is relatively level the premium is $0.05/station or $1.24/cubic yard for 170,000 cubic yards and the upper fill area with unfavorable grade changes the premium is $0.09/station or $1.65/cubic yard for 130,000 cubic yards. The total long haul premium cost is $427,000.00.

As a consequence of the slide, the proposed tank site was relocated to an area south of the original site. Both Leighton Consulting and Kleinfelder have analyzed and studied the new site and have determined that this new location is acceptable for the construction of a 2 million gallon reclaimed water reservoir. PBLA, design engineering consultant, prepared grading plans for the new site location including a new road to the tank and were submitted to the Contractor. The Contractor has submitted a cost of $182,760.00 to perform this additional grading work. The Contractor was directed to proceed with this work since they were in the process of moving their equipment to another project. The original earthwork has essentially been completed. To perform this work at a later date would likely be more costly.

To recap below is a summary of approved costs and additional costs incurred;

a.	Time and Material Cost	$ 1,422,527.43
b.	Long Haul Premium	$ 427,000.00
c.	Plan Revision for New Tank	$ 182,760.00
		$ 2,032,287.43

Staff has reviewed the additional work and the contractor's total cost proposal and find it reasonable and acceptable. Therefore, Staff hereby recommends approval of revised Change Order No. 3 in the amount of $2,032,287.43. Peer review by Kleinfelder of the long haul premium both for merit and cost analysis confirms our recommendation.

PJP/ GP:rg

CITY OF INDUSTRY

15625 E. Stafford St.
City of Industry, CA 91744
(818)333-2211

CHANGE ORDER

Change Order No. 3 Revised

Project Industry Business Center Eastside Mass Grading **Contract No.** IBC-0380 **Date** 10/22/2015

Type Project Grading **Contractor** Sukut Construction

Location City of Industry

Explanation:

Slide Repair and Grading for New Tank Site

Extra Work by: _____ Contract Items | X Negotiated | _____ T & M

The contractor is hereby directed to perform all labor and to provide all materials necessary to carry out the work described below:

ITEM NO.	ITEM	QUANTITY	UNIT PRICE	TOTALS ($) +	TOTALS ($) -
1	Time and material work for slide repair		$1,422,527.43	$1,422,527.43	
2	New Tank Site Grading		$182,760.00	$182,760.00	
3	Long Haul Premium Increase		$427,000.00	$427,000.00	
			TOTAL COST	**$2,032,287.43**	

T & M SUMMARY

*Labor Cost	+ 20%		Total Labor
*Equipment Cost	+ 15%		Total Equipment
*Material Cost	+ 15%		Total Materials
(*Attach breakdown of labor, equipment and materials)			Sub-Total
CHANGE ORDER SUMMARY		% of Contract Amount	Other Additive
Original Contract Amount	$22,693,112.00		Total T & M
Total Previous Change Orders	$1,380,823.21	6.08%	
Total Change Orders	$ 3,413,110.64	15.04%	**Pay This CHANGE ORDER** **$2,032,287.43** 8.96%

Authorized by_____ Additional Working Days 40

I hereby certify that the quantities shown and/or amounts shown for equipment, material and labor costs (if any) are correct to the best of my knowledge and the total cost shown above shall be considered final payment for the work specified by this change order. The total cost includes compensation for any delay in the preparation of this change order and the time to complete the specified work.

Contractor Representative Date

J.D. Ballas, Director of Public Works Date

10·14·15

Gerardo Perez, Project Manager Date

C.O. # 3 Revised

SC COR Number: **13.0**
SC Job Number: **1158**

Date: 10/7/2015

Owner: Successor Agency to the Industry Urban-Development Agency
C/o CNC Engineering
255 N. Hacienda Blvd. Suite 201
City of Industry, CA 91744

Attn: Gerardo Perez

Project: IBC East - 0380

Subject: IBC East Side Mass Grading - Tank Pad Landslide Removal T&M

Mr. Perez,

Please see the following breakdown of change order request number 13.0.

Item:	Description:	Qty:	Unit:	Price:	Total:
1.0	Cut 15 Landslide 6/8/15	1	LS	$ 281.06	$ 281.06
2.0	Cut 15 Landslide 6/9/15	1	LS	$ 3,988.89	$ 3,988.89
3.0	Cut 15 Landslide 6/10/15	1	LS	$ 3,971.88	$ 3,971.88
4.0	Cut 15 Landslide 6/11/15	1	LS	$ 4,841.52	$ 4,841.52
5.0	Cut 15 Landslide 6/15/15	1	LS	$ 35,813.10	$ 35,813.10
6.0	Cut 15 Landslide 6/16/15	1	LS	$ 57,773.42	$ 57,773.42
7.0	Cut 15 Landslide 6/17/15	1	LS	$ 113,311.94	$ 113,311.94
8.0	Cut 15 Landslide 6/18/15	1	LS	$ 91,656.22	$ 91,656.22
9.0	Cut 15 Landslide 6/23/15	1	LS	$ 59,361.03	$ 59,361.03
10.0	Cut 15 Landslide 6/24/15	1	LS	$ 97,871.83	$ 97,871.83
11.0	Cut 15 Landslide 6/25/15	1	LS	$ 83,219.06	$ 83,219.06
12.0	Cut 15 Landslide 6/26/15	1	LS	$ 52,806.87	$ 52,806.87
13.0	Cut 15 Landslide 7/3/15	1	LS	$ 7,317.86	$ 7,317.86
14.0	Cut 15 Landslide 7/7/15	1	LS	$ 1,274.22	$ 1,274.22
15.0	Cut 15 Landslide 7/8/15	1	LS	$ 28,877.89	$ 28,877.89
16.0	Cut 15 Landslide 7/9/15	1	LS	$ 42,861.34	$ 42,861.34
17.0	Cut 15 Landslide 7/10/15	1	LS	$ 43,758.56	$ 43,758.56
18.0	Cut 15 Landslide 7/13/15	1	LS	$ 42,861.34	$ 42,861.34
19.0	Cut 15 Landslide 7/14/15	1	LS	$ 42,861.34	$ 42,861.34
20.0	Cut 15 Landslide 7/15/15	1	LS	$ 49,706.61	$ 49,706.61
21.0	Cut 15 Landslide 7/16/15	1	LS	$ 42,886.60	$ 42,886.60
22.0	Cut 15 Landslide 7/17/15	1	LS	$ 12,934.67	$ 12,934.67
23.0	Cut 15 Landslide 7/21/15	1	LS	$ 41,856.38	$ 41,856.38
24.0	Cut 15 Landslide 7/22/15	1	LS	$ 19,436.03	$ 19,436.03
25.0	Cut 15 Landslide 7/27/15	1	LS	$ 42,861.34	$ 42,861.34
26.0	Cut 15 Landslide 7/28/15	1	LS	$ 42,861.34	$ 42,861.34
27.0	Cut 15 Landslide 7/29/15	1	LS	$ 44,211.10	$ 44,211.10
28.0	Cut 15 Landslide 7/30/15	1	LS	$ 42,861.34	$ 42,861.34

Date: 10/7/2015

Owner: Successor Agency to the Industry Urban-Development Agency
C/o CNC Engineering

29.0	Cut 15 Landslide 7/31/15	1	LS	$	46,487.21	$	46,487.21
30.0	Cut 15 Landslide 8/3/15	1	LS	$	42,861.34	$	42,861.34
31.0	Cut 15 Landslide 8/4/15	1	LS	$	51,095.17	$	51,095.17
36.0	Cut 15 Landslide 8/11/15	1	LS	$	8,342.06	$	8,342.06
37.0	Cut 15 Landslide 8/13/15	1	LS	$	8,768.38	$	8,768.38
38.0	Cut 15 Landslide 8/18/15	1	LS	$	7,809.32	$	7,809.32
39.0	Cut 16 Buttress 8/14/15	1	LS	$	1,261.94	$	1,261.94
40.0	Cut 16 Buttress 8/17/15	1	LS	$	73,075.95	$	73,075.95
41.0	Cut 16 Buttress 8/18/15	1	LS	$	27,841.98	$	27,841.98
42.0	Cut 16 Buttress 8/19/15	1	LS	$	659.29	$	659.29
				Total Amount this Request:		**$**	**1,422,527.43**

This change order request includes all added labor, equipment, and material costs associated with the landslide removal and additional remedial grading required as a result of the landslide that occurred at the tank pad in Cut 15. This change order does not include any fill placement to achieve design grades in the new cut 15 buttress fill slope. This request does not include any additional subdrain installation or concrete slope drain construction as a result of the subsequent design changes.

Thank you,

Bryan Nesthus

Sukut Construction

SUKUT CONSTRUCTION, LLC
4010 W. Chandler Avenue □ Santa Ana, CA 92704-5202
Tel: 714.540.5351 □ Fax: 714.545.2438 □ www.sukut.com
Contractor's License No. 554278

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	6/8/2015

SUKUT COR WORKSHEET NUMBER	1.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT								
MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	0.00	0.00	$ 575.70	$ -	0.0	$ 512.37	$ -	$ -
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	0.00	0.00	$ 287.91	$ -	0.0	$ 256.24	$ -	$ -
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	0.00	0.00	$ 233.21	$ -	0.0	$ 207.56	$ -	$ -
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	1.00	2.00	$ 57.51	$ 115.02	0.0	$ 51.18	$ -	$ 115.02
PICK UP TRUCK	0.00	0.00	$ 21.50	$ -	0.0	$ 19.14	$ -	$ -
TOTAL EQUIPMENT COSTS								$ 115.02

LABOR								
JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	0.00	0.0	$ 110.00	$ -	0.0	$ 28.00	$ -	$ -
GRADE CHECKER	0.00	0.0	$ 105.00	$ -	0.0	$ 28.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	1.00	2.0	$ 73.00	$ 146.00	0.0	$ 20.00	$ -	$ 146.00
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 146.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS					
DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS						
DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP				
DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 115.02	15.00%	$ 17.25	$ 132.27
TOTAL COST FOR LABORERS AND OPERATORS	$ 146.00	0.00%	$ -	$ 146.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 278.27
BOND COST ADD (1% OF Total)				$ 2.78
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 281.06

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	6/9/2015

SUKUT COR WORKSHEET NUMBER	2.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT

MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	0.00	0.00	$ 575.70	$ -	0.0	$ 512.37	$ -	$ -
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	6.00	$ 287.91	$ 1,727.46	0.0	$ 256.24	$ -	$ 1,727.46
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	0.00	0.00	$ 233.21	$ -	0.0	$ 207.56	$ -	$ -
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	1.00	10.00	$ 57.51	$ 460.08	2.0	$ 51.18	$ 102.37	$ 562.45
PICK UP TRUCK	0.00	0.00	$ 21.50	$ -	0.0	$ 19.14	$ -	$ -
TOTAL EQUIPMENT COSTS								$ 2,289.91

LABOR

JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	0.00	0.0	$ 110.00	$ -	0.0	$ 28.00	$ -	$ -
GRADE CHECKER	0.00	0.0	$ 105.00	$ -	0.0	$ 28.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	6.0	$ 91.00	$ 546.00	0.0	$ 28.00	$ -	$ 546.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	1.00	10.0	$ 73.00	$ 730.00	2.0	$ 20.00	$ 40.00	$ 770.00
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 1,316.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS

DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS

DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP

DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 2,289.91	15.00%	$ 343.49	$ 2,633.39
TOTAL COST FOR LABORERS AND OPERATORS	$ 1,316.00	0.00%	$ -	$ 1,316.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 3,949.39
BOND COST ADD (1% OF Total)				$ 39.49
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 3,988.89

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	6/10/2015

SUKUT COR WORKSHEET NUMBER	3.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT								
MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	0.00	0.00	$ 575.70	$ -	0.0	$ 512.37	$ -	$ -
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	6.00	$ 287.91	$ 1,151.64	2.0	$ 256.24	$ 512.48	$ 1,664.12
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	0.00	0.00	$ 233.21	$ -	0.0	$ 207.56	$ -	$ -
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	1.00	10.00	$ 57.51	$ 460.08	2.0	$ 51.18	$ 102.37	$ 562.45
PICK UP TRUCK	0.00	0.00	$ 21.50	$ -	0.0	$ 19.14	$ -	$ -
TOTAL EQUIPMENT COSTS								$ 2,226.57

LABOR								
JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	0.00	0.0	$ 110.00	$ -	0.0	$ 28.00	$ -	$ -
GRADE CHECKER	0.00	0.0	$ 105.00	$ -	0.0	$ 28.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	6.0	$ 91.00	$ 546.00	2.0	$ 28.00	$ 56.00	$ 602.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	1.00	10.0	$ 73.00	$ 730.00	2.0	$ 20.00	$ 40.00	$ 770.00
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 1,372.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS					
DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS						
DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP				
DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 2,226.57	15.00%	$ 333.99	$ 2,560.55
TOTAL COST FOR LABORERS AND OPERATORS	$ 1,372.00	0.00%	$ -	$ 1,372.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 3,932.55
BOND COST ADD (1% OF Total)				$ 39.33
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 3,971.88

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	6/11/2015

SUKUT COR WORKSHEET NUMBER	4.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT

MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	0.00	0.00	$ 575.70	$ -	0.0	$ 512.37	$ -	$ -
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	8.00	$ 287.91	$ 2,303.28	0.0	$ 256.24	$ -	$ 2,303.28
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	0.00	0.00	$ 233.21	$ -	0.0	$ 207.56	$ -	$ -
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	1.00	10.00	$ 57.51	$ 460.08	2.0	$ 51.18	$ 102.37	$ 562.45
PICK UP TRUCK	0.00	0.00	$ 21.50	$ -	0.0	$ 19.14	$ -	$ -
TOTAL EQUIPMENT COSTS								$ 2,865.73

LABOR

JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	0.00	0.0	$ 110.00	$ -	0.0	$ 28.00	$ -	$ -
GRADE CHECKER	0.00	0.0	$ 105.00	$ -	0.0	$ 28.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	8.0	$ 91.00	$ 728.00	0.0	$ 28.00	$ -	$ 728.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	1.00	10.0	$ 73.00	$ 730.00	2.0	$ 20.00	$ 40.00	$ 770.00
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 1,498.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS

DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS

DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP

DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 2,865.73	15.00%	$ 429.86	$ 3,295.59
TOTAL COST FOR LABORERS AND OPERATORS	$ 1,498.00	0.00%	$ -	$ 1,498.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 4,793.59
BOND COST ADD (1% OF Total)				$ 47.94
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 4,841.52

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	6/15/2015

SUKUT COR WORKSHEET NUMBER	5.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT

MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	6.00	6.00	$ 575.70	$ 13,816.80	2.0	$ 512.37	$ 6,148.48	$ 19,965.28
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	10.00	$ 287.91	$ 2,303.28	2.0	$ 256.24	$ 512.48	$ 2,815.76
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	6.00	$ 233.21	$ 932.84	2.0	$ 207.56	$ 415.11	$ 1,347.95
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	1.00	10.00	$ 57.51	$ 460.08	2.0	$ 51.18	$ 102.37	$ 562.45
PICK UP TRUCK - FOREMAN	1.00	5.00	$ 21.50	$ 86.00	1.0	$ 19.14	$ 19.14	$ 105.14
PICK UP TRUCK - GRADE CHECKER	1.00	3.00	$ 21.50	$ 43.00	1.0	$ 19.14	$ 19.14	$ 62.14
TOTAL EQUIPMENT COSTS								$ 24,858.71

LABOR

JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	5.0	$ 110.00	$ 550.00	1.0	$ 28.00	$ 28.00	$ 578.00
GRADE CHECKER	1.00	3.0	$ 105.00	$ 315.00	1.0	$ 28.00	$ 28.00	$ 343.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	6.00	6.0	$ 91.00	$ 3,276.00	2.0	$ 28.00	$ 336.00	$ 3,612.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	6.0	$ 91.00	$ 546.00	2.0	$ 28.00	$ 56.00	$ 602.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	1.00	10.0	$ 73.00	$ 730.00	2.0	$ 20.00	$ 40.00	$ 770.00
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 6,871.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS

DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS

DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP

DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 24,858.71	15.00%	$ 3,728.81	$ 28,587.51
TOTAL COST FOR LABORERS AND OPERATORS	$ 6,871.00	0.00%	$ -	$ 6,871.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 35,458.51
BOND COST ADD (1% OF Total)				$ 354.59
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 35,813.10

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	6/16/2015

SUKUT COR WORKSHEET NUMBER	6.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT								
MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	6.00	10.00	$ 575.70	$ 27,633.60	2.0	$ 512.37	$ 6,148.48	$ 33,782.08
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	10.00	$ 287.91	$ 2,303.28	2.0	$ 256.24	$ 512.48	$ 2,815.76
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	10.00	$ 233.21	$ 1,865.68	2.0	$ 207.56	$ 415.11	$ 2,280.79
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	2.00	10.00	$ 57.51	$ 920.16	2.0	$ 51.18	$ 204.74	$ 1,124.90
4000 GALLON WATER TRUCK	1.00	4.00	$ 57.51	$ 230.04	0.0	$ 51.18	$ -	$ 230.04
PICK UP TRUCK	2.00	5.00	$ 21.50	$ 172.00	1.0	$ 19.14	$ 38.27	$ 210.27
TOTAL EQUIPMENT COSTS								$ 40,443.84

LABOR								
JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	5.0	$ 110.00	$ 550.00	1.0	$ 28.00	$ 28.00	$ 578.00
GRADE CHECKER	1.00	5.0	$ 105.00	$ 525.00	1.0	$ 28.00	$ 28.00	$ 553.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	6.00	10.0	$ 91.00	$ 5,460.00	2.0	$ 28.00	$ 336.00	$ 5,796.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	2.00	10.0	$ 73.00	$ 1,460.00	2.0	$ 20.00	$ 80.00	$ 1,540.00
OPERATOR - WATER TRUCK	1.00	4.0	$ 73.00	$ 292.00	0.0	$ 20.00	$ -	$ 292.00
TOTAL LABOR COSTS								$ 10,691.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS					
DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS						
DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP				
DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 40,443.84	15.00%	$ 6,066.58	$ 46,510.41
TOTAL COST FOR LABORERS AND OPERATORS	$ 10,691.00	0.00%	$ -	$ 10,691.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 57,201.41
BOND COST ADD (1% OF Total)				$ 572.01
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 57,773.42

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0	SUKUT COR WORKSHEET NUMBER	7.0
DATE WORK COMPLETED	6/17/2015	SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT								
MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	12.00	10.00	$ 575.70	$ 55,267.20	2.0	$ 512.37	$ 12,296.95	$ 67,564.15
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	10.00	$ 287.91	$ 2,303.28	2.0	$ 256.24	$ 512.48	$ 2,815.76
CAT D9 DOZER	1.00	6.00	$ 287.91	$ 1,727.46	0.0	$ 256.24	$ -	$ 1,727.46
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	2.00	10.00	$ 233.21	$ 3,731.36	2.0	$ 207.56	$ 830.23	$ 4,561.59
CAT 824 COMPACTOR	1.00	3.50	$ 234.21	$ 702.63	0.5	$ 208.45	$ 104.22	$ 806.85
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	4.00	10.00	$ 57.51	$ 1,840.32	2.0	$ 51.18	$ 409.47	$ 2,249.79
PICK UP TRUCK - FOREMAN	1.00	5.00	$ 20.50	$ 82.00	1.0	$ 18.25	$ 18.25	$ 100.25
PICK UP TRUCK - GRADE CHECKER	1.00	10.00	$ 21.50	$ 172.00	2.0	$ 19.14	$ 38.27	$ 210.27
TOTAL EQUIPMENT COSTS								$ 80,036.12

LABOR								
JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	5.0	$ 110.00	$ 550.00	1.0	$ 28.00	$ 28.00	$ 578.00
GRADE CHECKER	1.00	10.0	$ 105.00	$ 1,050.00	2.0	$ 28.00	$ 56.00	$ 1,106.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	12.00	10.0	$ 91.00	$ 10,920.00	2.0	$ 28.00	$ 672.00	$ 11,592.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	6.0	$ 91.00	$ 546.00	0.0	$ 28.00	$ -	$ 546.00
OPERATOR - D9	1.00	10.0	$ 92.00	$ 920.00	2.0	$ 29.00	$ 58.00	$ 978.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	2.00	10.0	$ 91.00	$ 1,820.00	2.0	$ 28.00	$ 112.00	$ 1,932.00
OPERATOR - 824	1.00	3.5	$ 92.00	$ 322.00	0.5	$ 29.00	$ 14.50	$ 336.50
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	4.00	10.0	$ 73.00	$ 2,920.00	2.0	$ 20.00	$ 160.00	$ 3,080.00
TOTAL LABOR COSTS								$ 20,148.50

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS					
DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS						
DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP				
DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 80,036.12	15.00%	$ 12,005.42	$ 92,041.54
TOTAL COST FOR LABORERS AND OPERATORS	$ 20,148.50	0.00%	$ -	$ 20,148.50
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 112,190.04
BOND COST ADD (1% OF Total)				$ 1,121.90
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 113,311.94

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	6/18/2015

SUKUT COR WORKSHEET NUMBER	8.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT								
MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	12.00	8.00	$ 575.70	$ 55,267.20	0.0	$ 512.37	$ -	$ 55,267.20
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	8.00	$ 287.91	$ 2,303.28	0.0	$ 256.24	$ -	$ 2,303.28
CAT D9 DOZER	1.00	4.00	$ 287.91	$ 1,151.64	0.0	$ 256.24	$ -	$ 1,151.64
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	2.00	8.00	$ 233.21	$ 3,731.36	0.0	$ 207.56	$ -	$ 3,731.36
CAT 824 COMPACTOR	1.00	6.00	$ 234.21	$ 1,405.26	0.0	$ 208.45	$ -	$ 1,405.26
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	1.00	6.00	$ 57.51	$ 345.06	0.0	$ 51.18	$ -	$ 345.06
4000 GALLON WATER TRUCK	3.00	8.00	$ 57.51	$ 1,380.24	0.0	$ 51.18	$ -	$ 1,380.24
PICK UP TRUCK - FOREMAN	1.00	5.00	$ 20.50	$ 82.00	1.0	$ 18.25	$ 18.25	$ 100.25
PICK UP TRUCK - GRADE CHECKER	1.00	8.00	$ 21.50	$ 172.00	0.0	$ 19.14	$ -	$ 172.00
TOTAL EQUIPMENT COSTS								$ 65,856.29

LABOR								
JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	5.0	$ 110.00	$ 550.00	1.0	$ 28.00	$ 28.00	$ 578.00
GRADE CHECKER	1.00	8.0	$ 105.00	$ 840.00	0.0	$ 28.00	$ -	$ 840.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	12.00	8.0	$ 91.00	$ 8,736.00	0.0	$ 28.00	$ -	$ 8,736.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	4.0	$ 91.00	$ 364.00	0.0	$ 28.00	$ -	$ 364.00
OPERATOR - D9	1.00	8.0	$ 92.00	$ 736.00	0.0	$ 29.00	$ -	$ 736.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	2.00	8.0	$ 91.00	$ 1,456.00	0.0	$ 28.00	$ -	$ 1,456.00
OPERATOR - 824	1.00	6.0	$ 92.00	$ 552.00	0.0	$ 29.00	$ -	$ 552.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	3.00	8.0	$ 73.00	$ 1,752.00	0.0	$ 20.00	$ -	$ 1,752.00
OPERATOR - WATER TRUCK	1.00	6.0	$ 73.00	$ 438.00	0.0	$ 20.00	$ -	$ 438.00
TOTAL LABOR COSTS								$ 15,014.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS					
DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS						
DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP				
DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 65,856.29	15.00%	$ 9,878.44	$ 75,734.73
TOTAL COST FOR LABORERS AND OPERATORS	$ 15,014.00	0.00%	$ -	$ 15,014.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 90,748.73
BOND COST ADD (1% OF Total)				$ 907.49
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 91,656.22

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	6/23/2015

SUKUT COR WORKSHEET NUMBER	9.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT

MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	6.00	10.00	$ 575.70	$ 27,633.60	2.0	$ 512.37	$ 6,148.48	$ 33,782.08
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	10.00	$ 287.91	$ 2,303.28	2.0	$ 256.24	$ 512.48	$ 2,815.76
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	10.00	$ 233.21	$ 1,865.68	2.0	$ 207.56	$ 415.11	$ 2,280.79
CAT 824 COMPACTOR	1.00	2.50	$ 233.21	$ 583.03	0.0	$ 207.56		$ 583.03
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	2.00	10.00	$ 57.51	$ 920.16	2.0	$ 51.18	$ 204.74	$ 1,124.90
4000 GALLON WATER TRUCK	1.00	4.00	$ 57.51	$ 230.04	0.0	$ 51.18	$ -	$ 230.04
PICK UP TRUCK - FOREMAN	1.00	5.00	$ 21.50	$ 86.00	1.0	$ 19.14	$ 19.14	$ 105.14
PICK UP TRUCK - GRADE CHECKER	1.00	10.00	$ 21.50	$ 172.00	2.0	$ 19.14	$ 38.27	$ 210.27
TOTAL EQUIPMENT COSTS								$ 41,132.00

LABOR

JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	5.0	$ 110.00	$ 550.00	1.0	$ 28.00	$ 28.00	$ 578.00
GRADE CHECKER	1.00	10.0	$ 105.00	$ 1,050.00	2.0	$ 28.00	$ 56.00	$ 1,106.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	6.00	10.0	$ 91.00	$ 5,460.00	2.0	$ 28.00	$ 336.00	$ 5,796.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	2.5	$ 91.00	$ 227.50	0.0	$ 28.00		$ 227.50
OPERATOR - 824	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	2.00	10.0	$ 73.00	$ 1,460.00	2.0	$ 20.00	$ 80.00	$ 1,540.00
OPERATOR - WATER TRUCK	1.00	4.0	$ 73.00	$ 292.00	0.0	$ 20.00	$ -	$ 292.00
TOTAL LABOR COSTS								$ 11,471.50

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS

DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS

DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP

DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 41,132.00	15.00%	$ 6,169.80	$ 47,301.79
TOTAL COST FOR LABORERS AND OPERATORS	$ 11,471.50	0.00%	$ -	$ 11,471.50
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 58,773.29
BOND COST ADD (1% OF Total)				$ 587.73
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 59,361.03

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	6/24/2015

SUKUT COR WORKSHEET NUMBER	10.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT								
MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	6.00	10.00	$ 575.70	$ 27,633.60	2.0	$ 512.37	$ 6,148.48	$ 33,782.08
CAT 657 SCRAPER	6.00	8.00	$ 575.50	$ 20,718.00	2.0	$ 512.37	$ 6,148.44	$ 26,866.44
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	10.00	$ 287.91	$ 2,303.28	2.0	$ 256.24	$ 512.48	$ 2,815.76
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	10.00	$ 233.21	$ 1,865.68	2.0	$ 207.56	$ 415.11	$ 2,280.79
CAT 824 COMPACTOR	1.00	8.00	$ 233.21	$ 1,399.26	2.0	$ 207.56	$ 415.12	$ 1,814.38
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	2.00	10.00	$ 57.51	$ 920.16	2.0	$ 51.18	$ 204.74	$ 1,124.90
4000 GALLON WATER TRUCK	1.00	8.00	$ 57.51	$ 460.08	0.0	$ 51.18	$ -	$ 460.08
PICK UP TRUCK - FOREMAN	1.00	5.00	$ 21.50	$ 86.00	1.0	$ 19.14	$ 19.14	$ 105.14
PICK UP TRUCK - GRADE CHECKER	1.00	10.00	$ 21.50	$ 172.00	2.0	$ 19.14	$ 38.27	$ 210.27
TOTAL EQUIPMENT COSTS								$ 69,459.83

LABOR								
JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	5.0	$ 110.00	$ 550.00	1.0	$ 28.00	$ 28.00	$ 578.00
GRADE CHECKER	1.00	10.0	$ 105.00	$ 1,050.00	2.0	$ 28.00	$ 56.00	$ 1,106.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	6.00	10.0	$ 91.00	$ 5,460.00	2.0	$ 28.00	$ 336.00	$ 5,796.00
OPERATOR - 657	6.00	8.0	$ 91.00	$ 4,368.00	2.0	$ 28.00	$ 336.00	$ 4,704.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	8.0	$ 91.00	$ 728.00	2.0	$ 28.00	$ 56.00	$ 784.00
OPERATOR - 824	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	2.00	10.0	$ 73.00	$ 1,460.00	2.0	$ 20.00	$ 80.00	$ 1,540.00
OPERATOR - WATER TRUCK	1.00	8.0	$ 73.00	$ 584.00	0.0	$ 20.00	$ -	$ 584.00
TOTAL LABOR COSTS								$ 17,024.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS					
DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS						
DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP				
DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 69,459.83	15.00%	$ 10,418.97	$ 79,878.80
TOTAL COST FOR LABORERS AND OPERATORS	$ 17,024.00	0.00%	$ -	$ 17,024.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 96,902.80
BOND COST ADD (1% OF Total)				$ 969.03
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 97,871.83

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	6/25/2015

SUKUT COR WORKSHEET NUMBER	11.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT								
MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	8.00	10.00	$ 575.70	$ 36,844.80	2.0	$ 512.37	$ 8,197.97	$ 45,042.77
CAT 657 SCRAPER	4.00	3.00	$ 575.50	$ 2,302.00	2.0	$ 512.37	$ 4,098.96	$ 6,400.96
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	10.00	$ 287.91	$ 2,303.28	2.0	$ 256.24	$ 512.48	$ 2,815.76
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	10.00	$ 233.21	$ 1,865.68	2.0	$ 207.56	$ 415.11	$ 2,280.79
CAT 824 COMPACTOR	1.00	3.00	$ 233.21	$ 233.21	2.0	$ 207.56	$ 415.12	$ 648.33
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	2.00	10.00	$ 57.51	$ 920.16	2.0	$ 51.18	$ 204.74	$ 1,124.90
4000 GALLON WATER TRUCK	1.00	3.00	$ 57.51	$ 57.51	2.0	$ 51.18	$ 102.37	$ 159.88
PICK UP TRUCK - FOREMAN	1.00	5.00	$ 21.50	$ 86.00	1.0	$ 19.14	$ 19.14	$ 105.14
PICK UP TRUCK - GRADE CHECKER	1.00	10.00	$ 21.50	$ 172.00	2.0	$ 19.14	$ 38.27	$ 210.27
TOTAL EQUIPMENT COSTS								$ 58,788.79

LABOR								
JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	5.0	$ 110.00	$ 550.00	1.0	$ 28.00	$ 28.00	$ 578.00
GRADE CHECKER	1.00	10.0	$ 105.00	$ 1,050.00	2.0	$ 28.00	$ 56.00	$ 1,106.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	8.00	10.0	$ 91.00	$ 7,280.00	2.0	$ 28.00	$ 448.00	$ 7,728.00
OPERATOR - 657	4.00	3.0	$ 91.00	$ 1,092.00	2.0	$ 28.00	$ 224.00	$ 1,316.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	3.0	$ 91.00	$ 273.00	2.0	$ 28.00	$ 56.00	$ 329.00
OPERATOR - 824	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	2.00	10.0	$ 73.00	$ 1,460.00	2.0	$ 20.00	$ 80.00	$ 1,540.00
OPERATOR - WATER TRUCK	1.00	3.0	$ 73.00	$ 219.00	2.0	$ 20.00	$ 40.00	$ 259.00
TOTAL LABOR COSTS								$ 14,788.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS					
DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS						
DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP				
DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 58,788.79	15.00%	$ 8,818.32	$ 67,607.11
TOTAL COST FOR LABORERS AND OPERATORS	$ 14,788.00	0.00%	$ -	$ 14,788.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 82,395.11
BOND COST ADD (1% OF Total)				$ 823.95
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 83,219.06

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0	SUKUT COR WORKSHEET NUMBER	12.0
DATE WORK COMPLETED	6/26/2015	SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT								
MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	8.00	6.00	$ 575.70	$ 27,633.60	0.0	$ 512.37	$ -	$ 27,633.60
CAT 657 SCRAPER	2.00	5.50	$ 575.50	$ 6,330.50	0.0	$ 512.37	$ -	$ 6,330.50
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	1.00	2.00	$ 79.12	$ 158.24	0.0	$ 70.42	$ -	$ 158.24
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	6.00	$ 287.91	$ 1,727.46	0.0	$ 256.24	$ -	$ 1,727.46
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	6.00	$ 233.21	$ 1,399.26	0.0	$ 207.56	$ -	$ 1,399.26
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	1.00	6.00	$ 57.51	$ 345.06	0.0	$ 51.18	$ -	$ 345.06
4000 GALLON WATER TRUCK	1.00	4.00	$ 57.51	$ 230.04	0.0	$ 51.18	$ -	$ 230.04
PICK UP TRUCK - FOREMAN	1.00	4.00	$ 21.50	$ 86.00	0.0	$ 19.14	$ -	$ 86.00
PICK UP TRUCK - GRADE CHECKER	1.00	6.00	$ 21.50	$ 129.00	0.0	$ 19.14	$ -	$ 129.00
TOTAL EQUIPMENT COSTS								$ 38,039.16

LABOR								
JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	4.0	$ 110.00	$ 440.00	0.0	$ 28.00	$ -	$ 440.00
GRADE CHECKER	1.00	6.0	$ 105.00	$ 630.00	0.0	$ 28.00	$ -	$ 630.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	8.00	6.0	$ 91.00	$ 4,368.00	0.0	$ 28.00	$ -	$ 4,368.00
OPERATOR - 657	2.00	5.5	$ 91.00	$ 1,001.00	0.0	$ 28.00	$ -	$ 1,001.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	1.00	2.0	$ 91.00	$ 182.00	0.0	$ 28.00	$ -	$ 182.00
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	6.0	$ 91.00	$ 546.00	0.0	$ 28.00	$ -	$ 546.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	6.0	$ 91.00	$ 546.00	2.0	$ 28.00	$ 56.00	$ 602.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	1.00	6.0	$ 73.00	$ 438.00	0.0	$ 20.00	$ -	$ 438.00
OPERATOR - WATER TRUCK	1.00	4.0	$ 73.00	$ 292.00	2.0	$ 20.00	$ 40.00	$ 332.00
TOTAL LABOR COSTS								$ 8,539.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS					
DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS						
DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP				
DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 38,039.16	15.00%	$ 5,705.87	$ 43,745.03
TOTAL COST FOR LABORERS AND OPERATORS	$ 8,539.00	0.00%	$ -	$ 8,539.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 52,284.03
BOND COST ADD (1% OF Total)				$ 522.84
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 52,806.87

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	7/3/2015

SUKUT COR WORKSHEET NUMBER	13.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT

MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	4.00	1.50	$ 575.70	$ 3,454.20	0.0	$ 512.37	$ -	$ 3,454.20
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	3.00	$ 287.91	$ 863.73	0.0	$ 256.24	$ -	$ 863.73
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	1.50	$ 233.21	$ 349.82	0.0	$ 207.56	$ -	$ 349.82
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	2.00	1.50	$ 57.51	$ 172.53	0.0	$ 51.18	$ -	$ 172.53
4000 GALLON WATER TRUCK	1.00	1.00	$ 57.51	$ 57.51	0.0	$ 51.18	$ -	$ 57.51
PICK UP TRUCK - FOREMAN	1.00	2.00	$ 21.50	$ 43.00	0.0	$ 19.14		$ 43.00
PICK UP TRUCK - GRADE CHECKER	0.00	0.00	$ 21.50	$ -	0.0	$ 19.14	$ -	$ -
TOTAL EQUIPMENT COSTS								$ 4,940.79

LABOR

JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	2.0	$ 110.00	$ 220.00	0.0	$ 28.00	$ -	$ 220.00
GRADE CHECKER	1.00	0.0	$ 105.00	$ -	0.0	$ 28.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	4.00	1.5	$ 91.00	$ 546.00	0.0	$ 28.00	$ -	$ 546.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	3.0	$ 91.00	$ 273.00	0.0	$ 28.00	$ -	$ 273.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	1.5	$ 91.00	$ 136.50	2.0	$ 28.00	$ 56.00	$ 192.50
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	2.00	1.5	$ 73.00	$ 219.00	0.0	$ 20.00	$ -	$ 219.00
OPERATOR - WATER TRUCK	1.00	1.0	$ 73.00	$ 73.00	2.0	$ 20.00	$ 40.00	$ 113.00
TOTAL LABOR COSTS								$ 1,563.50

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS

DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS

DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP

DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 4,940.79	15.00%	$ 741.12	$ 5,681.90
TOTAL COST FOR LABORERS AND OPERATORS	$ 1,563.50	0.00%	$ -	$ 1,563.50
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 7,245.40
BOND COST ADD (1% OF Total)				$ 72.45
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 7,317.86

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	6/8/2015

SUKUT COR WORKSHEET NUMBER	14.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT								
MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	0.00	0.00	$ 575.70	$ -	0.0	$ 512.37	$ -	$ -
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	2.00	$ 287.91	$ 575.82	0.0	$ 256.24	$ -	$ 575.82
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	0.00	0.00	$ 233.21	$ -	0.0	$ 207.56	$ -	$ -
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	1.00	3.00	$ 57.51	$ 172.53	0.0	$ 51.18	$ -	$ 172.53
PICK UP TRUCK	0.00	0.00	$ 21.50	$ -	0.0	$ 19.14	$ -	$ -
TOTAL EQUIPMENT COSTS								$ 748.35

LABOR								
JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	0.00	0.0	$ 110.00	$ -	0.0	$ 28.00	$ -	$ -
GRADE CHECKER	0.00	0.0	$ 105.00	$ -	0.0	$ 28.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	2.0	$ 91.00	$ 182.00	0.0	$ 28.00	$ -	$ 182.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	1.00	3.0	$ 73.00	$ 219.00	0.0	$ 20.00	$ -	$ 219.00
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 401.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS					
DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS						
DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP				
DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 748.35	15.00%	$ 112.25	$ 860.60
TOTAL COST FOR LABORERS AND OPERATORS	$ 401.00	0.00%	$ -	$ 401.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 1,261.60
BOND COST ADD (1% OF Total)				$ 12.62
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 1,274.22

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	7/8/2015

SUKUT COR WORKSHEET NUMBER	15.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT

MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	2.00	7.00	$ 575.70	$ 5,757.00	2.0	$ 512.37	$ 2,049.49	$ 7,806.49
CAT 657 SCRAPER	2.00	6.00	$ 575.50	$ 5,755.00	1.0	$ 512.37	$ 1,024.74	$ 6,779.74
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	7.00	$ 287.91	$ 1,439.55	2.0	$ 256.24	$ 512.48	$ 1,952.03
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	7.00	$ 233.21	$ 1,166.05	2.0	$ 207.56	$ 415.12	$ 1,581.17
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	2.00	7.00	$ 57.51	$ 805.14	0.0	$ 51.18	$ -	$ 805.14
PICK UP TRUCK - FOREMAN	1.00	4.00	$ 21.50	$ 86.00	0.0	$ 19.14	$ -	$ 86.00
PICK UP TRUCK - GRADE CHECKER	1.00	10.00	$ 21.50	$ 172.00	2.0	$ 19.14	$ 38.27	$ 210.27
TOTAL EQUIPMENT COSTS								$ 19,220.84

LABOR

JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	4.0	$ 110.00	$ 440.00	0.0	$ 28.00	$ -	$ 440.00
GRADE CHECKER	1.00	10.0	$ 105.00	$ 1,050.00	2.0	$ 28.00	$ 56.00	$ 1,106.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	2.00	7.0	$ 91.00	$ 1,274.00	2.0	$ 28.00	$ 112.00	$ 1,386.00
OPERATOR - 657	2.00	6.0	$ 91.00	$ 1,092.00	1.0	$ 28.00	$ 56.00	$ 1,148.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	7.0	$ 91.00	$ 637.00	2.0	$ 28.00	$ 56.00	$ 693.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	7.0	$ 91.00	$ 637.00	2.0	$ 28.00	$ 56.00	$ 693.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	2.00	7.0	$ 73.00	$ 1,022.00	0.0	$ 20.00	$ -	$ 1,022.00
TOTAL LABOR COSTS								$ 6,488.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS

DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS

DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP

DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 19,220.84	15.00%	$ 2,883.13	$ 22,103.97
TOTAL COST FOR LABORERS AND OPERATORS	$ 6,488.00	0.00%	$ -	$ 6,488.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 28,591.97
BOND COST ADD (1% OF Total)				$ 285.92
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 28,877.89

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	7/9/2015

SUKUT COR WORKSHEET NUMBER	16.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT

MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	4.00	10.00	$ 575.70	$ 18,422.40	2.0	$ 512.37	$ 4,098.98	$ 22,521.38
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	10.00	$ 287.91	$ 2,303.28	2.0	$ 256.24	$ 512.48	$ 2,815.76
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	10.00	$ 233.21	$ 1,865.68	2.0	$ 207.56	$ 415.11	$ 2,280.79
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	2.00	10.00	$ 57.51	$ 920.16	2.0	$ 51.18	$ 204.74	$ 1,124.90
PICK UP TRUCK - FOREMAN	1.00	5.00	$ 21.50	$ 86.00	1.0	$ 19.14	$ 19.14	$ 105.14
PICK UP TRUCK - GRADE CHECKER	1.00	10.00	$ 21.50	$ 172.00	2.0	$ 19.14	$ 38.27	$ 210.27
TOTAL EQUIPMENT COSTS								$ 29,058.24

LABOR

JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	5.0	$ 110.00	$ 550.00	1.0	$ 28.00	$ 28.00	$ 578.00
GRADE CHECKER	1.00	10.0	$ 105.00	$ 1,050.00	2.0	$ 28.00	$ 56.00	$ 1,106.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	4.00	10.0	$ 91.00	$ 3,640.00	2.0	$ 28.00	$ 224.00	$ 3,864.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	2.00	10.0	$ 73.00	$ 1,460.00	2.0	$ 20.00	$ 80.00	$ 1,540.00
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 9,020.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS

DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS

DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP

DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 29,058.24	15.00%	$ 4,358.74	$ 33,416.97
TOTAL COST FOR LABORERS AND OPERATORS	$ 9,020.00	0.00%	$ -	$ 9,020.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 42,436.97
BOND COST ADD (1% OF Total)				$ 424.37
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 42,861.34

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	7/10/2015

SUKUT COR WORKSHEET NUMBER	17.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT

MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	2.00	10.00	$ 575.70	$ 9,211.20	2.0	$ 512.37	$ 2,049.49	$ 11,260.69
CAT 657 SCRAPER	2.00	8.00	$ 575.50	$ 9,208.00	0.0	$ 512.37	$ -	$ 9,208.00
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	10.00	$ 287.91	$ 2,303.28	2.0	$ 256.24	$ 512.48	$ 2,815.76
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	2.00	10.00	$ 233.21	$ 3,731.36	2.0	$ 207.56	$ 830.24	$ 4,561.60
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	2.00	10.00	$ 57.51	$ 920.16	2.0	$ 51.18	$ 204.74	$ 1,124.90
PICK UP TRUCK - FOREMAN	1.00	5.50	$ 21.50	$ 86.00	1.5	$ 19.14	$ 28.70	$ 114.70
PICK UP TRUCK - GRADE CHECKER	1.00	10.00	$ 21.50	$ 172.00	2.0	$ 19.14	$ 38.27	$ 210.27
TOTAL EQUIPMENT COSTS								$ 29,295.92

LABOR

JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	5.5	$ 110.00	$ 605.00	1.5	$ 28.00	$ 42.00	$ 647.00
GRADE CHECKER	1.00	10.0	$ 105.00	$ 1,050.00	2.0	$ 28.00	$ 56.00	$ 1,106.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	2.00	10.0	$ 91.00	$ 1,820.00	2.0	$ 28.00	$ 112.00	$ 1,932.00
OPERATOR - 657	2.00	8.0	$ 91.00	$ 1,456.00	1.0	$ 28.00	$ 56.00	$ 1,512.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	2.00	10.0	$ 91.00	$ 1,820.00	2.0	$ 28.00	$ 112.00	$ 1,932.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	2.00	10.0	$ 73.00	$ 1,460.00	2.0	$ 20.00	$ 80.00	$ 1,540.00
TOTAL LABOR COSTS								$ 9,635.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS

DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS

DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP

DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 29,295.92	15.00%	$ 4,394.39	$ 33,690.31
TOTAL COST FOR LABORERS AND OPERATORS	$ 9,635.00	0.00%	$ -	$ 9,635.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 43,325.31
BOND COST ADD (1% OF Total)				$ 433.25
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 43,758.56

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	7/13/2015

SUKUT COR WORKSHEET NUMBER	18.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT

MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	4.00	10.00	$ 575.70	$ 18,422.40	2.0	$ 512.37	$ 4,098.98	$ 22,521.38
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	10.00	$ 287.91	$ 2,303.28	2.0	$ 256.24	$ 512.48	$ 2,815.76
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	10.00	$ 233.21	$ 1,865.68	2.0	$ 207.56	$ 415.11	$ 2,280.79
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	2.00	10.00	$ 57.51	$ 920.16	2.0	$ 51.18	$ 204.74	$ 1,124.90
PICK UP TRUCK - FOREMAN	1.00	5.00	$ 21.50	$ 86.00	1.0	$ 19.14	$ 19.14	$ 105.14
PICK UP TRUCK - GRADE CHECKER	1.00	10.00	$ 21.50	$ 172.00	2.0	$ 19.14	$ 38.27	$ 210.27
TOTAL EQUIPMENT COSTS								$ 29,058.24

LABOR

JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	5.0	$ 110.00	$ 550.00	1.0	$ 28.00	$ 28.00	$ 578.00
GRADE CHECKER	1.00	10.0	$ 105.00	$ 1,050.00	2.0	$ 28.00	$ 56.00	$ 1,106.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	4.00	10.0	$ 91.00	$ 3,640.00	2.0	$ 28.00	$ 224.00	$ 3,864.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	2.00	10.0	$ 73.00	$ 1,460.00	2.0	$ 20.00	$ 80.00	$ 1,540.00
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 9,020.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS

DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS

DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP

DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 29,058.24	15.00%	$ 4,358.74	$ 33,416.97
TOTAL COST FOR LABORERS AND OPERATORS	$ 9,020.00	0.00%	$ -	$ 9,020.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 42,436.97
BOND COST ADD (1% OF Total)				$ 424.37
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 42,861.34

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	7/14/2015

SUKUT COR WORKSHEET NUMBER	19.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT

MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	4.00	10.00	$ 575.70	$ 18,422.40	2.0	$ 512.37	$ 4,098.98	$ 22,521.38
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	10.00	$ 287.91	$ 2,303.28	2.0	$ 256.24	$ 512.48	$ 2,815.76
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	10.00	$ 233.21	$ 1,865.68	2.0	$ 207.56	$ 415.11	$ 2,280.79
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	2.00	10.00	$ 57.51	$ 920.16	2.0	$ 51.18	$ 204.74	$ 1,124.90
PICK UP TRUCK - FOREMAN	1.00	5.00	$ 21.50	$ 86.00	1.0	$ 19.14	$ 19.14	$ 105.14
PICK UP TRUCK - GRADE CHECKER	1.00	10.00	$ 21.50	$ 172.00	2.0	$ 19.14	$ 38.27	$ 210.27
TOTAL EQUIPMENT COSTS								$ 29,058.24

LABOR

JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	5.0	$ 110.00	$ 550.00	1.0	$ 28.00	$ 28.00	$ 578.00
GRADE CHECKER	1.00	10.0	$ 105.00	$ 1,050.00	2.0	$ 28.00	$ 56.00	$ 1,106.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	4.00	10.0	$ 91.00	$ 3,640.00	2.0	$ 28.00	$ 224.00	$ 3,864.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	2.00	10.0	$ 73.00	$ 1,460.00	2.0	$ 20.00	$ 80.00	$ 1,540.00
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 9,020.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS

DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS

DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP

DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 29,058.24	15.00%	$ 4,358.74	$ 33,416.97
TOTAL COST FOR LABORERS AND OPERATORS	$ 9,020.00	0.00%	$ -	$ 9,020.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 42,436.97
BOND COST ADD (1% OF Total)				$ 424.37
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 42,861.34

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	7/15/2015

SUKUT COR WORKSHEET NUMBER	20.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT

MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	4.00	10.00	$ 575.70	$ 18,422.40	2.0	$ 512.37	$ 4,098.98	$ 22,521.38
CAT 657 SCRAPER	2.00	4.50	$ 575.70	$ 5,181.30	0.0	$ 512.37	$ -	$ 5,181.30
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	10.00	$ 287.91	$ 2,303.28	2.0	$ 256.24	$ 512.48	$ 2,815.76
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	10.00	$ 233.21	$ 1,865.68	2.0	$ 207.56	$ 415.11	$ 2,280.79
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	2.00	10.00	$ 57.51	$ 920.16	2.0	$ 51.18	$ 204.74	$ 1,124.90
PICK UP TRUCK - FOREMAN	1.00	5.00	$ 21.50	$ 86.00	1.0	$ 19.14	$ 19.14	$ 105.14
PICK UP TRUCK - GRADE CHECKER	1.00	10.00	$ 21.50	$ 172.00	2.0	$ 19.14	$ 38.27	$ 210.27
TOTAL EQUIPMENT COSTS								$ 34,239.54

LABOR

JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	5.0	$ 110.00	$ 550.00	1.0	$ 28.00	$ 28.00	$ 578.00
GRADE CHECKER	1.00	10.0	$ 105.00	$ 1,050.00	2.0	$ 28.00	$ 56.00	$ 1,106.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	4.00	10.0	$ 91.00	$ 3,640.00	2.0	$ 28.00	$ 224.00	$ 3,864.00
OPERATOR - 657	2.00	4.5	$ 91.00	$ 819.00	0.0	$ 29.00	$ -	$ 819.00
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	2.00	10.0	$ 73.00	$ 1,460.00	2.0	$ 20.00	$ 80.00	$ 1,540.00
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 9,839.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS

DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS

DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP

DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 34,239.54	15.00%	$ 5,135.93	$ 39,375.47
TOTAL COST FOR LABORERS AND OPERATORS	$ 9,839.00	0.00%	$ -	$ 9,839.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 49,214.47
BOND COST ADD (1% OF Total)				$ 492.14
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 49,706.61

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	7/16/2015

SUKUT COR WORKSHEET NUMBER	21.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT								
MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	4.00	10.00	$ 575.70	$ 18,422.40	2.0	$ 512.37	$ 4,098.98	$ 22,521.38
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	10.00	$ 287.91	$ 2,303.28	2.0	$ 256.24	$ 512.48	$ 2,815.76
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	10.00	$ 233.21	$ 1,865.68	2.0	$ 207.56	$ 415.11	$ 2,280.79
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	2.00	10.00	$ 57.51	$ 920.16	2.0	$ 51.18	$ 204.74	$ 1,124.90
PICK UP TRUCK - FOREMAN	1.00	5.50	$ 21.50	$ 86.00	1.5	$ 19.14	$ 28.70	$ 114.70
PICK UP TRUCK - GRADE CHECKER	1.00	10.00	$ 21.50	$ 172.00	2.0	$ 19.14	$ 38.27	$ 210.27
TOTAL EQUIPMENT COSTS								$ 29,067.81

LABOR								
JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	5.0	$ 110.00	$ 550.00	1.5	$ 28.00	$ 42.00	$ 592.00
GRADE CHECKER	1.00	10.0	$ 105.00	$ 1,050.00	2.0	$ 28.00	$ 56.00	$ 1,106.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	4.00	10.0	$ 91.00	$ 3,640.00	2.0	$ 28.00	$ 224.00	$ 3,864.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	2.00	10.0	$ 73.00	$ 1,460.00	2.0	$ 20.00	$ 80.00	$ 1,540.00
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 9,034.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS					
DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS						
DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP				
DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 29,067.81	15.00%	$ 4,360.17	$ 33,427.98
TOTAL COST FOR LABORERS AND OPERATORS	$ 9,034.00	0.00%	$ -	$ 9,034.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 42,461.98
BOND COST ADD (1% OF Total)				$ 424.62
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 42,886.60

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	7/17/2015

SUKUT COR WORKSHEET NUMBER	22.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT								
MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	4.00	3.00	$ 575.70	$ 6,908.40	0.0	$ 512.37	$ -	$ 6,908.40
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	3.00	$ 287.91	$ 863.73	0.0	$ 256.24	$ -	$ 863.73
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	3.00	$ 233.21	$ 699.63	0.0	$ 207.56	$ -	$ 699.63
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	2.00	3.00	$ 57.51	$ 345.06	0.0	$ 51.18	$ -	$ 345.06
PICK UP TRUCK - FOREMAN	1.00	1.50	$ 21.50	$ 32.25	0.0	$ 19.14	$ -	$ 32.25
PICK UP TRUCK - GRADE CHECKER	1.00	3.00	$ 21.50	$ 64.50	0.0	$ 19.14	$ -	$ 64.50
TOTAL EQUIPMENT COSTS								$ 8,913.57

LABOR								
JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	1.5	$ 110.00	$ 165.00	0.0	$ 28.00	$ -	$ 165.00
GRADE CHECKER	1.00	3.0	$ 105.00	$ 315.00	0.0	$ 28.00	$ -	$ 315.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	4.00	3.0	$ 91.00	$ 1,092.00	0.0	$ 28.00	$ -	$ 1,092.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	3.0	$ 91.00	$ 273.00	0.0	$ 28.00	$ -	$ 273.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	3.0	$ 91.00	$ 273.00	0.0	$ 28.00	$ -	$ 273.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	2.00	3.0	$ 73.00	$ 438.00	0.0	$ 20.00	$ -	$ 438.00
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 2,556.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS					
DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS						
DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP				
DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 8,913.57	15.00%	$ 1,337.04	$ 10,250.61
TOTAL COST FOR LABORERS AND OPERATORS	$ 2,556.00	0.00%	$ -	$ 2,556.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 12,806.61
BOND COST ADD (1% OF Total)				$ 128.07
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 12,934.67

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	7/21/2015

SUKUT COR WORKSHEET NUMBER	23.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT

MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	4.00	10.00	$ 575.70	$ 18,422.40	2.0	$ 512.37	$ 4,098.98	$ 22,521.38
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	10.00	$ 287.91	$ 2,303.28	2.0	$ 256.24	$ 512.48	$ 2,815.76
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	10.00	$ 233.21	$ 1,865.68	2.0	$ 207.56	$ 415.11	$ 2,280.79
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	2.00	10.00	$ 57.51	$ 920.16	2.0	$ 51.18	$ 204.74	$ 1,124.90
PICK UP TRUCK - FOREMAN	1.00	4.00	$ 21.50	$ 86.00	0.0	$ 19.14	$ -	$ 86.00
PICK UP TRUCK - GRADE CHECKER	1.00	3.00	$ 21.50	$ 172.00	0.0	$ 19.14	$ -	$ 172.00
TOTAL EQUIPMENT COSTS								$ 29,000.83

LABOR

JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	4.0	$ 110.00	$ 440.00	0.0	$ 28.00	$ -	$ 440.00
GRADE CHECKER	1.00	3.0	$ 105.00	$ 315.00	0.0	$ 28.00	$ -	$ 315.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	4.00	10.0	$ 91.00	$ 3,640.00	2.0	$ 28.00	$ 224.00	$ 3,864.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	2.00	10.0	$ 73.00	$ 1,460.00	2.0	$ 20.00	$ 80.00	$ 1,540.00
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 8,091.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS

DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS

DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP

DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 29,000.83	15.00%	$ 4,350.12	$ 33,350.96
TOTAL COST FOR LABORERS AND OPERATORS	$ 8,091.00	0.00%	$ -	$ 8,091.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 41,441.96
BOND COST ADD (1% OF Total)				$ 414.42
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 41,856.38

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	7/22/2015

SUKUT COR WORKSHEET NUMBER	24.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT

MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	4.00	4.50	$ 575.70	$ 10,362.60	0.0	$ 512.37	$ -	$ 10,362.60
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	4.50	$ 287.91	$ 1,295.60	0.0	$ 256.24	$ -	$ 1,295.60
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	4.50	$ 233.21	$ 1,049.45	0.0	$ 207.56	$ -	$ 1,049.45
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	2.00	4.50	$ 57.51	$ 517.59	0.0	$ 51.18	$ -	$ 517.59
PICK UP TRUCK - FOREMAN	1.00	2.50	$ 21.50	$ 53.75	0.0	$ 19.14	$ -	$ 53.75
PICK UP TRUCK - GRADE CHECKER	1.00	4.50	$ 21.50	$ 96.75	0.0	$ 19.14	$ -	$ 96.75
TOTAL EQUIPMENT COSTS								$ 13,375.73

LABOR

JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	2.5	$ 110.00	$ 275.00	0.0	$ 28.00	$ -	$ 275.00
GRADE CHECKER	1.00	4.5	$ 105.00	$ 472.50	0.0	$ 28.00	$ -	$ 472.50
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	4.00	4.5	$ 91.00	$ 1,638.00	0.0	$ 28.00	$ -	$ 1,638.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	4.5	$ 91.00	$ 409.50	0.0	$ 28.00	$ -	$ 409.50
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	4.5	$ 91.00	$ 409.50	0.0	$ 28.00	$ -	$ 409.50
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	2.00	4.5	$ 73.00	$ 657.00	0.0	$ 20.00	$ -	$ 657.00
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 3,861.50

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS

DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS

DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP

DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 13,375.73	15.00%	$ 2,006.36	$ 15,382.09
TOTAL COST FOR LABORERS AND OPERATORS	$ 3,861.50	0.00%	$ -	$ 3,861.50
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 19,243.59
BOND COST ADD (1% OF Total)				$ 192.44
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 19,436.03

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	7/27/2015

SUKUT COR WORKSHEET NUMBER	25.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT

MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	4.00	10.00	$ 575.70	$ 18,422.40	2.0	$ 512.37	$ 4,098.98	$ 22,521.38
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	10.00	$ 287.91	$ 2,303.28	2.0	$ 256.24	$ 512.48	$ 2,815.76
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	10.00	$ 233.21	$ 1,865.68	2.0	$ 207.56	$ 415.11	$ 2,280.79
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	2.00	10.00	$ 57.51	$ 920.16	2.0	$ 51.18	$ 204.74	$ 1,124.90
PICK UP TRUCK - FOREMAN	1.00	5.00	$ 21.50	$ 86.00	1.0	$ 19.14	$ 19.14	$ 105.14
PICK UP TRUCK - GRADE CHECKER	1.00	10.00	$ 21.50	$ 172.00	2.0	$ 19.14	$ 38.27	$ 210.27
TOTAL EQUIPMENT COSTS								$ 29,058.24

LABOR

JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	5.0	$ 110.00	$ 550.00	1.0	$ 28.00	$ 28.00	$ 578.00
GRADE CHECKER	1.00	10.0	$ 105.00	$ 1,050.00	2.0	$ 28.00	$ 56.00	$ 1,106.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	4.00	10.0	$ 91.00	$ 3,640.00	2.0	$ 28.00	$ 224.00	$ 3,864.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	2.00	10.0	$ 73.00	$ 1,460.00	2.0	$ 20.00	$ 80.00	$ 1,540.00
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 9,020.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS

DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS

DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP

DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 29,058.24	15.00%	$ 4,358.74	$ 33,416.97
TOTAL COST FOR LABORERS AND OPERATORS	$ 9,020.00	0.00%	$ -	$ 9,020.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 42,436.97
BOND COST ADD (1% OF Total)				$ 424.37
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 42,861.34

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0	SUKUT COR WORKSHEET NUMBER	26.0
DATE WORK COMPLETED	7/28/2015	SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT

MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	4.00	10.00	$ 575.70	$ 18,422.40	2.0	$ 512.37	$ 4,098.98	$ 22,521.38
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	10.00	$ 287.91	$ 2,303.28	2.0	$ 256.24	$ 512.48	$ 2,815.76
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	10.00	$ 233.21	$ 1,865.68	2.0	$ 207.56	$ 415.11	$ 2,280.79
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	2.00	10.00	$ 57.51	$ 920.16	2.0	$ 51.18	$ 204.74	$ 1,124.90
PICK UP TRUCK - FOREMAN	1.00	5.00	$ 21.50	$ 86.00	1.0	$ 19.14	$ 19.14	$ 105.14
PICK UP TRUCK - GRADE CHECKER	1.00	10.00	$ 21.50	$ 172.00	2.0	$ 19.14	$ 38.27	$ 210.27
TOTAL EQUIPMENT COSTS								$ 29,058.24

LABOR

JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	5.0	$ 110.00	$ 550.00	1.0	$ 28.00	$ 28.00	$ 578.00
GRADE CHECKER	1.00	10.0	$ 105.00	$ 1,050.00	2.0	$ 28.00	$ 56.00	$ 1,106.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	4.00	10.0	$ 91.00	$ 3,640.00	2.0	$ 28.00	$ 224.00	$ 3,864.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	2.00	10.0	$ 73.00	$ 1,460.00	2.0	$ 20.00	$ 80.00	$ 1,540.00
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 9,020.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS

DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS

DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP

DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 29,058.24	15.00%	$ 4,358.74	$ 33,416.97
TOTAL COST FOR LABORERS AND OPERATORS	$ 9,020.00	0.00%	$ -	$ 9,020.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 42,436.97
BOND COST ADD (1% OF Total)				$ 424.37
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 42,861.34

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0	SUKUT COR WORKSHEET NUMBER	27.0
DATE WORK COMPLETED	7/29/2015	SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT

MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	4.00	10.00	$ 575.70	$ 18,422.40	2.0	$ 512.37	$ 4,098.98	$ 22,521.38
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	1.00	4.00	$ 211.39	$ 845.56	0.0	$ 188.14	$ -	$ 845.56
CAT D9 DOZER	1.00	10.00	$ 287.91	$ 2,303.28	2.0	$ 256.24	$ 512.48	$ 2,815.76
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	10.00	$ 233.21	$ 1,865.68	2.0	$ 207.56	$ 415.11	$ 2,280.79
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	2.00	10.00	$ 57.51	$ 920.16	2.0	$ 51.18	$ 204.74	$ 1,124.90
PICK UP TRUCK - FOREMAN	1.00	5.00	$ 21.50	$ 86.00	1.0	$ 19.14	$ 19.14	$ 105.14
PICK UP TRUCK - GRADE CHECKER	1.00	10.00	$ 21.50	$ 172.00	2.0	$ 19.14	$ 38.27	$ 210.27
TOTAL EQUIPMENT COSTS								$ 29,903.80

LABOR

JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	5.0	$ 110.00	$ 550.00	1.0	$ 28.00	$ 28.00	$ 578.00
GRADE CHECKER	1.00	10.0	$ 105.00	$ 1,050.00	2.0	$ 28.00	$ 56.00	$ 1,106.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	4.00	10.0	$ 91.00	$ 3,640.00	2.0	$ 28.00	$ 224.00	$ 3,864.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	1.00	4.0	$ 91.00	$ 364.00	0.0	$ 28.00	$ -	$ 364.00
OPERATOR - D9	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	2.00	10.0	$ 73.00	$ 1,460.00	2.0	$ 20.00	$ 80.00	$ 1,540.00
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 9,384.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS

DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS

DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP

DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 29,903.80	15.00%	$ 4,485.57	$ 34,389.37
TOTAL COST FOR LABORERS AND OPERATORS	$ 9,384.00	0.00%	$ -	$ 9,384.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 43,773.37
BOND COST ADD (1% OF Total)				$ 437.73
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 44,211.10

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	7/30/2015

SUKUT COR WORKSHEET NUMBER	28.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT								
MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	4.00	10.00	$ 575.70	$ 18,422.40	2.0	$ 512.37	$ 4,098.98	$ 22,521.38
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	10.00	$ 287.91	$ 2,303.28	2.0	$ 256.24	$ 512.48	$ 2,815.76
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	10.00	$ 233.21	$ 1,865.68	2.0	$ 207.56	$ 415.11	$ 2,280.79
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	2.00	10.00	$ 57.51	$ 920.16	2.0	$ 51.18	$ 204.74	$ 1,124.90
PICK UP TRUCK - FOREMAN	1.00	5.00	$ 21.50	$ 86.00	1.0	$ 19.14	$ 19.14	$ 105.14
PICK UP TRUCK - GRADE CHECKER	1.00	10.00	$ 21.50	$ 172.00	2.0	$ 19.14	$ 38.27	$ 210.27
TOTAL EQUIPMENT COSTS								$ 29,058.24

LABOR								
JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	5.0	$ 110.00	$ 550.00	1.0	$ 28.00	$ 28.00	$ 578.00
GRADE CHECKER	1.00	10.0	$ 105.00	$ 1,050.00	2.0	$ 28.00	$ 56.00	$ 1,106.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	4.00	10.0	$ 91.00	$ 3,640.00	2.0	$ 28.00	$ 224.00	$ 3,864.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	2.00	10.0	$ 73.00	$ 1,460.00	2.0	$ 20.00	$ 80.00	$ 1,540.00
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 9,020.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS					
DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS						
DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP				
DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 29,058.24	15.00%	$ 4,358.74	$ 33,416.97
TOTAL COST FOR LABORERS AND OPERATORS	$ 9,020.00	0.00%	$ -	$ 9,020.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 42,436.97
BOND COST ADD (1% OF Total)				$ 424.37
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 42,861.34

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	7/31/2015

SUKUT COR WORKSHEET NUMBER	29.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT

MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	4.00	10.00	$ 575.70	$ 18,422.40	2.0	$ 512.37	$ 4,098.98	$ 22,521.38
CAT 657 SCRAPER	2.00	2.50	$ 575.70	$ 575.70	2.0	$ 512.37	$ 2,049.49	$ 2,625.19
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	10.00	$ 287.91	$ 2,303.28	2.0	$ 256.24	$ 512.48	$ 2,815.76
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	10.00	$ 233.21	$ 1,865.68	2.0	$ 207.56	$ 415.11	$ 2,280.79
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	2.00	10.00	$ 57.51	$ 920.16	2.0	$ 51.18	$ 204.74	$ 1,124.90
PICK UP TRUCK - FOREMAN	1.00	5.00	$ 21.50	$ 86.00	1.0	$ 19.14	$ 19.14	$ 105.14
PICK UP TRUCK - GRADE CHECKER	1.00	10.00	$ 21.50	$ 172.00	2.0	$ 19.14	$ 38.27	$ 210.27
TOTAL EQUIPMENT COSTS								$ 31,683.43

LABOR

JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	5.0	$ 110.00	$ 550.00	1.0	$ 28.00	$ 28.00	$ 578.00
GRADE CHECKER	1.00	10.0	$ 105.00	$ 1,050.00	2.0	$ 28.00	$ 56.00	$ 1,106.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	4.00	10.0	$ 91.00	$ 3,640.00	2.0	$ 28.00	$ 224.00	$ 3,864.00
OPERATOR - 657	2.00	2.5	$ 91.00	$ 455.00	2.0	$ 29.00	$ 116.00	$ 571.00
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	2.00	10.0	$ 73.00	$ 1,460.00	2.0	$ 20.00	$ 80.00	$ 1,540.00
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 9,591.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS

DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS

DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP

DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 31,683.43	15.00%	$ 4,752.51	$ 36,435.94
TOTAL COST FOR LABORERS AND OPERATORS	$ 9,591.00	0.00%	$ -	$ 9,591.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 46,026.94
BOND COST ADD (1% OF Total)				$ 460.27
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 46,487.21

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0	SUKUT COR WORKSHEET NUMBER	30.0
DATE WORK COMPLETED	8/3/2015	SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT

MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	4.00	10.00	$ 575.70	$ 18,422.40	2.0	$ 512.37	$ 4,098.98	$ 22,521.38
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	10.00	$ 287.91	$ 2,303.28	2.0	$ 256.24	$ 512.48	$ 2,815.76
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	10.00	$ 233.21	$ 1,865.68	2.0	$ 207.56	$ 415.11	$ 2,280.79
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	2.00	10.00	$ 57.51	$ 920.16	2.0	$ 51.18	$ 204.74	$ 1,124.90
PICK UP TRUCK - FOREMAN	1.00	5.00	$ 21.50	$ 86.00	1.0	$ 19.14	$ 19.14	$ 105.14
PICK UP TRUCK - GRADE CHECKER	1.00	10.00	$ 21.50	$ 172.00	2.0	$ 19.14	$ 38.27	$ 210.27
TOTAL EQUIPMENT COSTS								$ 29,058.24

LABOR

JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	5.0	$ 110.00	$ 550.00	1.0	$ 28.00	$ 28.00	$ 578.00
GRADE CHECKER	1.00	10.0	$ 105.00	$ 1,050.00	2.0	$ 28.00	$ 56.00	$ 1,106.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	4.00	10.0	$ 91.00	$ 3,640.00	2.0	$ 28.00	$ 224.00	$ 3,864.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	2.00	10.0	$ 73.00	$ 1,460.00	2.0	$ 20.00	$ 80.00	$ 1,540.00
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 9,020.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS

DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS

DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP

DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 29,058.24	15.00%	$ 4,358.74	$ 33,416.97
TOTAL COST FOR LABORERS AND OPERATORS	$ 9,020.00	0.00%	$ -	$ 9,020.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 42,436.97
BOND COST ADD (1% OF Total)				$ 424.37
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 42,861.34

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	8/4/2015

SUKUT COR WORKSHEET NUMBER	31.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT								
MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	4.00	10.00	$ 575.70	$ 18,422.40	2.0	$ 512.37	$ 4,098.98	$ 22,521.38
CAT 349 EXCAVATOR	1.00	10.00	$ 210.22	$ 1,681.76	2.0	$ 187.10	$ 374.19	$ 2,055.95
CAT 950 LOADER	1.00	7.00	$ 146.42	$ 732.10	2.0	$ 130.31	$ 260.63	$ 992.73
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	10.00	$ 287.91	$ 2,303.28	2.0	$ 256.24	$ 512.48	$ 2,815.76
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	10.00	$ 233.21	$ 1,865.68	2.0	$ 207.56	$ 415.11	$ 2,280.79
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	2.00	10.00	$ 57.51	$ 920.16	2.0	$ 51.18	$ 204.74	$ 1,124.90
PICK UP TRUCK - FOREMAN	1.00	5.00	$ 21.50	$ 86.00	1.0	$ 19.14	$ 19.14	$ 105.14
PICK UP TRUCK - GRADE CHECKER	1.00	10.00	$ 21.50	$ 172.00	2.0	$ 19.14	$ 38.27	$ 210.27
TOTAL EQUIPMENT COSTS								$ 32,106.92

LABOR								
JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	5.0	$ 110.00	$ 550.00	1.0	$ 28.00	$ 28.00	$ 578.00
GRADE CHECKER	1.00	10.0	$ 105.00	$ 1,050.00	2.0	$ 28.00	$ 56.00	$ 1,106.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	4.00	10.0	$ 91.00	$ 3,640.00	2.0	$ 28.00	$ 224.00	$ 3,864.00
OPERATOR - 349	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 29.00	$ 58.00	$ 968.00
OPERATOR - 950	1.00	7.0	$ 91.00	$ 637.00	2.0	$ 28.00	$ 56.00	$ 693.00
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	2.00	10.0	$ 73.00	$ 1,460.00	2.0	$ 20.00	$ 80.00	$ 1,540.00
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 10,681.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS					
DESCRIPTION			QTY	UNIT COST	TOTAL
CLASS II PERMEABLE		TON	100	$ 23.16	$ 2,316.00
					$ -
TOTAL MATERIAL COSTS					$ 2,316.00

SUKUT SUBCONTRACTOR COSTS						
DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP				
DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 32,106.92	15.00%	$ 4,816.04	$ 36,922.96
TOTAL COST FOR LABORERS AND OPERATORS	$ 10,681.00	0.00%	$ -	$ 10,681.00
TOTAL TAX ON MATERIALS	$ 2,316.00	9.00%	$ 208.44	$ 208.44
TOTAL COST FOR MATERIALS	$ 2,524.44	10.00%	$ 252.44	$ 2,776.88
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 50,589.28
BOND COST ADD (1% OF Total)				$ 505.89
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 51,095.17

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	8/5/2015

SUKUT COR WORKSHEET NUMBER	32.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT								
MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	4.00	10.00	$ 575.70	$ 18,422.40	2.0	$ 512.37	$ 4,098.98	$ 22,521.38
CAT 657 SCRAPER	4.00	7.50	$ 575.50	$ 12,661.00	2.0	$ 512.37	$ 4,098.96	$ 16,759.96
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	10.00	$ 287.91	$ 2,303.28	2.0	$ 256.24	$ 512.48	$ 2,815.76
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	10.00	$ 233.21	$ 1,865.68	2.0	$ 207.56	$ 415.11	$ 2,280.79
CAT 824 COMPACTOR	0.00	0.00	$ 233.21	$ -	0.0	$ 207.56	$ -	$ -
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	2.00	10.00	$ 57.51	$ 920.16	2.0	$ 51.18	$ 204.74	$ 1,124.90
4000 GALLON WATER TRUCK	1.00	3.00	$ 57.51	$ 172.53	0.0	$ 51.18	$ -	$ 172.53
PICK UP TRUCK - FOREMAN	1.00	5.00	$ 21.50	$ 86.00	1.0	$ 19.14	$ 19.14	$ 105.14
PICK UP TRUCK - GRADE CHECKER	1.00	10.00	$ 21.50	$ 172.00	2.0	$ 19.14	$ 38.27	$ 210.27
TOTAL EQUIPMENT COSTS								$ 45,990.73

LABOR								
JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	5.0	$ 110.00	$ 550.00	1.0	$ 28.00	$ 28.00	$ 578.00
GRADE CHECKER	1.00	10.0	$ 105.00	$ 1,050.00	2.0	$ 28.00	$ 56.00	$ 1,106.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	4.00	10.0	$ 91.00	$ 3,640.00	2.0	$ 28.00	$ 224.00	$ 3,864.00
OPERATOR - 657	4.00	7.5	$ 91.00	$ 2,730.00	2.0	$ 28.00	$ 224.00	$ 2,954.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	2.00	10.0	$ 73.00	$ 1,460.00	2.0	$ 20.00	$ 80.00	$ 1,540.00
OPERATOR - WATER TRUCK	1.00	3.0	$ 73.00	$ 219.00	0.0	$ 20.00	$ -	$ 219.00
TOTAL LABOR COSTS								$ 12,193.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS					
DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS						
DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP				
DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 45,990.73	15.00%	$ 6,898.61	$ 52,889.34
TOTAL COST FOR LABORERS AND OPERATORS	$ 12,193.00	0.00%	$ -	$ 12,193.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 65,082.34
BOND COST ADD (1% OF Total)				$ 650.82
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 65,733.16

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0	SUKUT COR WORKSHEET NUMBER	33.0
DATE WORK COMPLETED	8/6/2015	SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT								
MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	8.00	10.00	$ 575.70	$ 36,844.80	2.0	$ 512.37	$ 8,197.97	$ 45,042.77
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	10.00	$ 287.91	$ 2,303.28	2.0	$ 256.24	$ 512.48	$ 2,815.76
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	10.00	$ 233.21	$ 1,865.68	2.0	$ 207.56	$ 415.11	$ 2,280.79
CAT 824 COMPACTOR BEE-GEE	1.00	4.00	$ 233.21	$ 932.84	0.0	$ 207.56	$ -	$ 932.84
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	2.00	10.00	$ 57.51	$ 920.16	2.0	$ 51.18	$ 204.74	$ 1,124.90
4000 GALLON WATER TRUCK	1.00	3.00	$ 57.51	$ 172.53	0.0	$ 51.18	$ -	$ 172.53
PICK UP TRUCK - FOREMAN	1.00	5.00	$ 21.50	$ 86.00	1.0	$ 19.14	$ 19.14	$ 105.14
PICK UP TRUCK - GRADE CHECKER	1.00	10.00	$ 21.50	$ 172.00	2.0	$ 19.14	$ 38.27	$ 210.27
TOTAL EQUIPMENT COSTS								$ 52,684.99

LABOR								
JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	5.0	$ 110.00	$ 550.00	1.0	$ 28.00	$ 28.00	$ 578.00
GRADE CHECKER	1.00	10.0	$ 105.00	$ 1,050.00	2.0	$ 28.00	$ 56.00	$ 1,106.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	8.00	10.0	$ 91.00	$ 7,280.00	2.0	$ 28.00	$ 448.00	$ 7,728.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824 BEE-GEE	1.00	4.0	$ 91.00	$ 364.00	0.0	$ 28.00	$ -	$ 364.00
OPERATOR - 824	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	2.00	10.0	$ 73.00	$ 1,460.00	2.0	$ 20.00	$ 80.00	$ 1,540.00
OPERATOR - WATER TRUCK	1.00	3.0	$ 73.00	$ 219.00	0.0	$ 20.00	$ -	$ 219.00
TOTAL LABOR COSTS								$ 13,467.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS					
DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS						
DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP				
DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 52,684.99	15.00%	$ 7,902.75	$ 60,587.74
TOTAL COST FOR LABORERS AND OPERATORS	$ 13,467.00	0.00%	$ -	$ 13,467.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 74,054.74
BOND COST ADD (1% OF Total)				$ 740.55
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 74,795.29

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	8/7/2015

SUKUT COR WORKSHEET NUMBER	34.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT

MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	6.00	10.00	$ 575.70	$ 27,633.60	2.0	$ 512.37	$ 6,148.48	$ 33,782.08
CAT 657 SCRAPER	2.00	9.50	$ 575.50	$ 8,632.50	2.0	$ 512.37	$ 2,049.48	$ 10,681.98
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	10.00	$ 287.91	$ 2,303.28	2.0	$ 256.24	$ 512.48	$ 2,815.76
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	10.00	$ 233.21	$ 1,865.68	2.0	$ 207.56	$ 415.11	$ 2,280.79
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	2.00	10.00	$ 57.51	$ 920.16	2.0	$ 51.18	$ 204.74	$ 1,124.90
PICK UP TRUCK - FOREMAN	1.00	5.50	$ 21.50	$ 86.00	1.5	$ 19.14	$ 28.70	$ 114.70
PICK UP TRUCK - GRADE CHECKER	1.00	10.00	$ 21.50	$ 172.00	2.0	$ 19.14	$ 38.27	$ 210.27
TOTAL EQUIPMENT COSTS								$ 51,010.48

LABOR

JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	5.5	$ 110.00	$ 605.00	1.5	$ 28.00	$ 42.00	$ 647.00
GRADE CHECKER	1.00	10.0	$ 105.00	$ 1,050.00	2.0	$ 28.00	$ 56.00	$ 1,106.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	6.00	10.0	$ 91.00	$ 5,460.00	2.0	$ 28.00	$ 336.00	$ 5,796.00
OPERATOR - 657	2.00	9.5	$ 91.00	$ 1,729.00	2.0	$ 28.00	$ 112.00	$ 1,841.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	2.00	10.0	$ 73.00	$ 1,460.00	2.0	$ 20.00	$ 80.00	$ 1,540.00
TOTAL LABOR COSTS								$ 12,862.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS

DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS

DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP

DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 51,010.48	15.00%	$ 7,651.57	$ 58,662.05
TOTAL COST FOR LABORERS AND OPERATORS	$ 12,862.00	0.00%	$ -	$ 12,862.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 71,524.05
BOND COST ADD (1% OF Total)				$ 715.24
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 72,239.29

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	8/10/2015

SUKUT COR WORKSHEET NUMBER	35.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT								
MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	8.00	10.00	$ 575.70	$ 36,844.80	2.0	$ 512.37	$ 8,197.97	$ 45,042.77
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	10.00	$ 287.91	$ 2,303.28	2.0	$ 256.24	$ 512.48	$ 2,815.76
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	10.00	$ 233.21	$ 1,865.68	2.0	$ 207.56	$ 415.11	$ 2,280.79
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	2.00	10.00	$ 57.51	$ 920.16	2.0	$ 51.18	$ 204.74	$ 1,124.90
PICK UP TRUCK - FOREMAN	1.00	5.00	$ 21.50	$ 86.00	1.0	$ 19.14	$ 19.14	$ 105.14
PICK UP TRUCK - GRADE CHECKER	1.00	10.00	$ 21.50	$ 172.00	2.0	$ 19.14	$ 38.27	$ 210.27
TOTAL EQUIPMENT COSTS								$ 51,579.62

LABOR								
JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	5.0	$ 110.00	$ 550.00	1.0	$ 28.00	$ 28.00	$ 578.00
GRADE CHECKER	1.00	10.0	$ 105.00	$ 1,050.00	2.0	$ 28.00	$ 56.00	$ 1,106.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	8.00	10.0	$ 91.00	$ 7,280.00	2.0	$ 28.00	$ 448.00	$ 7,728.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	2.00	10.0	$ 73.00	$ 1,460.00	2.0	$ 20.00	$ 80.00	$ 1,540.00
TOTAL LABOR COSTS								$ 12,884.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS					
DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS						
DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP				
DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 51,579.62	15.00%	$ 7,736.94	$ 59,316.57
TOTAL COST FOR LABORERS AND OPERATORS	$ 12,884.00	0.00%	$ -	$ 12,884.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 72,200.57
BOND COST ADD (1% OF Total)				$ 722.01
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 72,922.57

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	8/11/2015

SUKUT COR WORKSHEET NUMBER	36.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT

MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	4.00	2.00	$ 575.70	$ 4,605.60	0.0	$ 512.37	$ -	$ 4,605.60
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	2.00	$ 287.91	$ 575.82	0.0	$ 256.24	$ -	$ 575.82
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	2.00	$ 233.21	$ 466.42	0.0	$ 207.56	$ -	$ 466.42
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	1.00	2.00	$ 57.51	$ 115.02	0.0	$ 51.18	$ -	$ 115.02
PICK UP TRUCK - FOREMAN	1.00	1.00	$ 21.50	$ 21.50	0.0	$ 19.14	$ -	$ 21.50
PICK UP TRUCK - GRADE CHECKER	1.00	2.00	$ 21.50	$ 43.00	0.0	$ 19.14	$ -	$ 43.00
TOTAL EQUIPMENT COSTS								$ 5,827.36

LABOR

JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	1.0	$ 110.00	$ 110.00	0.0	$ 28.00	$ -	$ 110.00
GRADE CHECKER	1.00	2.0	$ 105.00	$ 210.00	0.0	$ 28.00	$ -	$ 210.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	4.00	2.0	$ 91.00	$ 728.00	0.0	$ 28.00	$ -	$ 728.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	2.0	$ 91.00	$ 182.00	0.0	$ 28.00	$ -	$ 182.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	2.0	$ 91.00	$ 182.00	0.0	$ 28.00	$ -	$ 182.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	1.00	2.0	$ 73.00	$ 146.00	0.0	$ 20.00	$ -	$ 146.00
TOTAL LABOR COSTS								$ 1,558.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS

DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS

DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP

DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 5,827.36	15.00%	$ 874.10	$ 6,701.46
TOTAL COST FOR LABORERS AND OPERATORS	$ 1,558.00	0.00%	$ -	$ 1,558.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 8,259.46
BOND COST ADD (1% OF Total)				$ 82.59
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 8,342.06

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	8/13/2015

SUKUT COR WORKSHEET NUMBER	37.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT

MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	4.00	2.00	$ 575.70	$ 4,605.60	0.0	$ 512.37	$ -	$ 4,605.60
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	3.00	$ 287.91	$ 863.73	0.0	$ 256.24	$ -	$ 863.73
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	2.00	$ 233.21	$ 466.42	0.0	$ 207.56	$ -	$ 466.42
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	1.00	2.00	$ 57.51	$ 115.02	0.0	$ 51.18	$ -	$ 115.02
PICK UP TRUCK - FOREMAN	1.00	1.00	$ 21.50	$ 21.50	0.0	$ 19.14	$ -	$ 21.50
PICK UP TRUCK - GRADE CHECKER	1.00	2.00	$ 21.50	$ 43.00	0.0	$ 19.14	$ -	$ 43.00
TOTAL EQUIPMENT COSTS								$ 6,115.27

LABOR

JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	1.0	$ 110.00	$ 110.00	0.0	$ 28.00	$ -	$ 110.00
GRADE CHECKER	1.00	2.0	$ 105.00	$ 210.00	0.0	$ 28.00	$ -	$ 210.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	4.00	2.0	$ 91.00	$ 728.00	0.0	$ 28.00	$ -	$ 728.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	3.0	$ 91.00	$ 273.00	0.0	$ 28.00	$ -	$ 273.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	2.0	$ 91.00	$ 182.00	0.0	$ 28.00	$ -	$ 182.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	1.00	2.0	$ 73.00	$ 146.00	0.0	$ 20.00	$ -	$ 146.00
TOTAL LABOR COSTS								$ 1,649.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS

DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS

DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP

DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 6,115.27	15.00%	$ 917.29	$ 7,032.56
TOTAL COST FOR LABORERS AND OPERATORS	$ 1,649.00	0.00%	$ -	$ 1,649.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				**$ 8,681.56**
BOND COST ADD (1% OF Total)				**$ 86.82**
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				**$ 8,768.38**

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	13.0
DATE WORK COMPLETED	8/18/2015

SUKUT COR WORKSHEET NUMBER	38.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT

MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	4.00	1.50	$ 575.70	$ 3,454.20	0.0	$ 512.37	$ -	$ 3,454.20
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	3.00	$ 287.91	$ 863.73	0.0	$ 256.24	$ -	$ 863.73
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	2.00	$ 233.21	$ 466.42	0.0	$ 207.56	$ -	$ 466.42
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	3.00	2.00	$ 57.51	$ 345.06	0.0	$ 51.18	$ -	$ 345.06
PICK UP TRUCK - FOREMAN	1.00	1.00	$ 21.50	$ 21.50	0.0	$ 19.14	$ -	$ 21.50
PICK UP TRUCK - GRADE CHECKER	1.00	2.00	$ 21.50	$ 43.00	0.0	$ 19.14	$ -	$ 43.00
TOTAL EQUIPMENT COSTS								$ 5,193.91

LABOR

JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	1.0	$ 110.00	$ 110.00	0.0	$ 28.00	$ -	$ 110.00
GRADE CHECKER	1.00	2.0	$ 105.00	$ 210.00	0.0	$ 28.00	$ -	$ 210.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	4.00	1.5	$ 91.00	$ 546.00	0.0	$ 28.00	$ -	$ 546.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	3.0	$ 91.00	$ 273.00	0.0	$ 28.00	$ -	$ 273.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	2.0	$ 91.00	$ 182.00	0.0	$ 28.00	$ -	$ 182.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	3.00	2.0	$ 73.00	$ 438.00	0.0	$ 20.00	$ -	$ 438.00
TOTAL LABOR COSTS								$ 1,759.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS

DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS

DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP

DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 5,193.91	15.00%	$ 779.09	$ 5,973.00
TOTAL COST FOR LABORERS AND OPERATORS	$ 1,759.00	0.00%	$ -	$ 1,759.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 7,732.00
BOND COST ADD (1% OF Total)				$ 77.32
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 7,809.32

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	21.0
DATE WORK COMPLETED	8/14/2015

SUKUT COR WORKSHEET NUMBER	1.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT

MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	0.00	0.00	$ 575.70	$ -	0.0	$ 512.37	$ -	$ -
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	3.00	$ 287.91	$ 287.91	2.0	$ 256.24	$ 512.48	$ 800.39
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	0.00	0.00	$ 233.21	$ -	0.0	$ 207.56	$ -	$ -
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	0.00	0.00	$ 57.51	$ -	0.0	$ 51.18	$ -	$ -
PICK UP TRUCK - FOREMAN	0.00	0.00	$ 21.50	$ -	1.0	$ 19.14	$ -	$ -
PICK UP TRUCK - GRADE CHECKER	0.00	0.00	$ 21.50	$ -	0.0	$ 19.14	$ -	$ -
TOTAL EQUIPMENT COSTS								$ 800.39

LABOR

JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	0.00	0.0	$ 110.00	$ -	1.0	$ 28.00	$ -	$ -
GRADE CHECKER	0.00	0.0	$ 105.00	$ -	0.0	$ 28.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	3.0	$ 91.00	$ 273.00	2.0	$ 28.00	$ 56.00	$ 329.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	0.00	0.0	$ 73.00	$ -	0.0	$ 20.00	$ -	$ -
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 329.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS

DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS

DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP

DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 800.39	15.00%	$ 120.06	$ 920.45
TOTAL COST FOR LABORERS AND OPERATORS	$ 329.00	0.00%	$ -	$ 329.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 1,249.45
BOND COST ADD (1% OF Total)				$ 12.49
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 1,261.94

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	21.0
DATE WORK COMPLETED	8/17/2015

SUKUT COR WORKSHEET NUMBER	2.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT

MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	8.00	10.00	$ 575.70	$ 36,844.80	2.0	$ 512.37	$ 8,197.97	$ 45,042.77
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	10.00	$ 287.91	$ 2,303.28	2.0	$ 256.24	$ 512.48	$ 2,815.76
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	10.00	$ 233.21	$ 1,865.68	2.0	$ 207.56	$ 415.11	$ 2,280.79
CAT 834 COMPACTOR	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	2.00	10.50	$ 57.51	$ 920.16	2.5	$ 51.18	$ 255.92	$ 1,176.08
PICK UP TRUCK - FOREMAN	1.00	5.00	$ 21.50	$ 86.00	1.0	$ 19.14	$ 19.14	$ 105.14
PICK UP TRUCK - GRADE CHECKER	1.00	10.00	$ 21.50	$ 172.00	2.0	$ 19.14	$ 38.27	$ 210.27
TOTAL EQUIPMENT COSTS								$ 51,630.81

LABOR

JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	5.0	$ 110.00	$ 550.00	1.0	$ 28.00	$ 28.00	$ 578.00
GRADE CHECKER	1.00	10.0	$ 105.00	$ 1,050.00	2.0	$ 28.00	$ 56.00	$ 1,106.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	8.00	10.0	$ 91.00	$ 7,280.00	2.0	$ 28.00	$ 448.00	$ 7,728.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - 834	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	2.00	10.5	$ 73.00	$ 1,533.00	2.5	$ 20.00	$ 100.00	$ 1,633.00
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 12,977.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS

DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS

DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP

DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 51,630.81	15.00%	$ 7,744.62	$ 59,375.43
TOTAL COST FOR LABORERS AND OPERATORS	$ 12,977.00	0.00%	$ -	$ 12,977.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 72,352.43
BOND COST ADD (1% OF Total)				$ 723.52
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 73,075.95

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	21.0
DATE WORK COMPLETED	8/18/2015

SUKUT COR WORKSHEET NUMBER	3.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT								
MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	8.00	3.50	$ 575.70	$ 16,119.60	0.0	$ 512.37	$ -	$ 16,119.60
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	0.00	0.00	$ 146.42	$ -	0.0	$ 130.31	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	1.00	4.00	$ 287.91	$ 1,151.64	0.0	$ 256.24	$ -	$ 1,151.64
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	1.00	4.00	$ 233.21	$ 932.84	0.0	$ 207.56	$ -	$ 932.84
CAT 14M GRADER	1.00	3.50	$ 141.40	$ 494.90	0.0	$ 125.85	$ -	$ 494.90
4000 GALLON WATER TRUCK	3.00	4.00	$ 57.51	$ 690.12	0.0	$ 51.18	$ -	$ 690.12
PICK UP TRUCK - FOREMAN	1.00	4.00	$ 21.50	$ 86.00	0.0	$ 19.14	$ -	$ 86.00
PICK UP TRUCK - GRADE CHECKER	1.00	2.00	$ 21.50	$ 43.00	0.0	$ 19.14	$ -	$ 43.00
TOTAL EQUIPMENT COSTS								$ 19,518.10

LABOR								
JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	4.0	$ 110.00	$ 440.00	0.0	$ 28.00	$ -	$ 440.00
GRADE CHECKER	1.00	2.0	$ 105.00	$ 210.00	0.0	$ 28.00	$ -	$ 210.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	8.00	3.5	$ 91.00	$ 2,548.00	0.0	$ 28.00	$ -	$ 2,548.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	4.0	$ 91.00	$ 364.00	0.0	$ 28.00	$ -	$ 364.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	4.0	$ 91.00	$ 364.00	0.0	$ 28.00	$ -	$ 364.00
OPERATOR - 14M	1.00	3.5	$ 91.00	$ 318.50	0.0	$ 29.00	$ -	$ 318.50
OPERATOR - WATER TRUCK	3.00	4.0	$ 73.00	$ 876.00	0.0	$ 20.00	$ -	$ 876.00
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 5,120.50

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS					
DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS						
DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP				
DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 19,518.10	15.00%	$ 2,927.72	$ 22,445.82
TOTAL COST FOR LABORERS AND OPERATORS	$ 5,120.50	0.00%	$ -	$ 5,120.50
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 27,566.32
BOND COST ADD (1% OF Total)				$ 275.66
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 27,841.98

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	21.0
DATE WORK COMPLETED	8/19/2015

SUKUT COR WORKSHEET NUMBER	4.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Cut 15 Landslide

EQUIPMENT								
MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 657 SCRAPER	0.00	0.00	$ 575.70	$ -	0.0	$ 512.37	$ -	$ -
CAT 651 SCRAPER	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	1.00	2.00	$ 146.42	$ 292.84	0.0	$ 130.31	$ -	$ 292.84
CAT D5 DOZER	0.00	0.00	$ 79.12	$ -	0.0	$ 70.42	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT D9 DOZER	0.00	0.00	$ 287.91	$ -	0.0	$ 256.24	$ -	$ -
CAT D10 DOZER	0.00	0.00	$ 435.58	$ -	0.0	$ 387.67	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 353.56	$ -	0.0	$ 314.67	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 551.49	$ -	0.0	$ 490.83	$ -	$ -
CAT 824 COMPACTOR	0.00	0.00	$ 233.21	$ -	0.0	$ 207.56	$ -	$ -
CAT 14M GRADER	0.00	0.00	$ 351.12	$ -	0.0	$ 312.50	$ -	$ -
4000 GALLON WATER TRUCK	0.00	0.00	$ 57.51	$ -	0.0	$ 51.18	$ -	$ -
PICK UP TRUCK - FOREMAN	0.00	0.00	$ 21.50	$ -	0.0	$ 19.14	$ -	$ -
PICK UP TRUCK - GRADE CHECKER	0.00	0.00	$ 21.50	$ -	0.0	$ 19.14	$ -	$ -
TOTAL EQUIPMENT COSTS								$ 292.84

LABOR								
JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	0.00	0.0	$ 110.00	$ -	0.0	$ 28.00	$ -	$ -
GRADE CHECKER	0.00	0.0	$ 105.00	$ -	0.0	$ 28.00	$ -	$ -
LABORER	1.00	2.0	$ 67.00	$ 134.00	0.0	$ 20.00	$ -	$ 134.00
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	1.00	2.0	$ 91.00	$ 182.00	0.0	$ 28.00	$ -	$ 182.00
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 14M	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	0.00	0.0	$ 73.00	$ -	0.0	$ 20.00	$ -	$ -
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 316.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS					
DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS						
DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP				
DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 292.84	15.00%	$ 43.93	$ 336.77
TOTAL COST FOR LABORERS AND OPERATORS	$ 316.00	0.00%	$ -	$ 316.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 652.77
BOND COST ADD (1% OF Total)				$ 6.53
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 659.29

SC COR Number: **21.0**
SC Job Number: **1158**

Date: 10/1/2015

Owner: Successor Agency to the Industry Urban-Development Agency
C/o CNC Engineering
255 N. Hacienda Blvd. Suite 201
City of Industry, CA 91744

Attn: Gerardo Perez

Project: IBC East - 0380

Subject: COR 21.0 - New Tank Site Grading per Plan Revision 14

Mr. Perez,

Please see the following breakdown of change order request number 21.0.

Item:	Description:	Qty:	Unit:		Price:		Total:
1.0	Mass Excavation for New Tank Site	19,000	CY	$	2.50	$	47,500.00
2.0	Export Excess Material to Surcharge Pile	13,600	CY	$	3.00	$	40,800.00
3.0	Overexcavation & Buttress	14,800	CY	$	2.50	$	37,000.00
4.0	Site Finish	338,000	SF	$	0.17	$	57,460.00

Total Amount This Request: $ 182,760.00

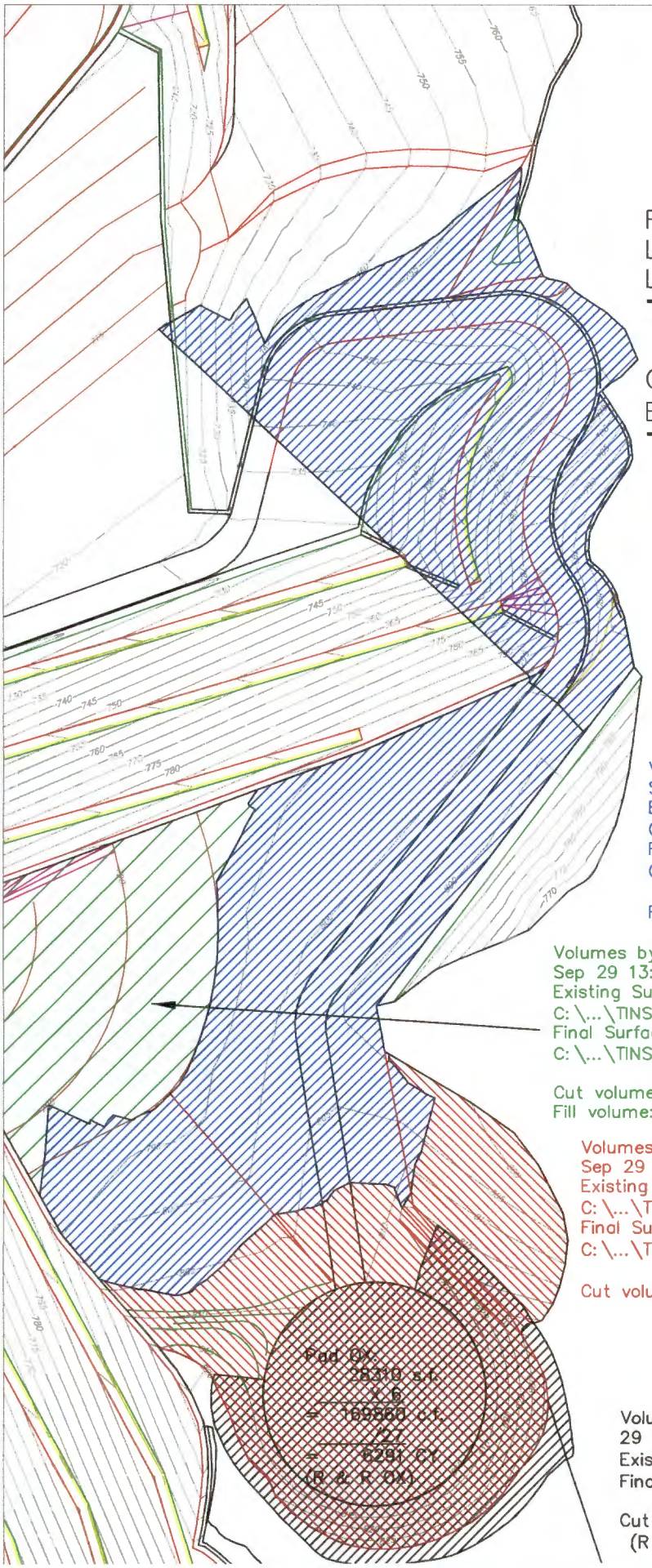
This change order request includes all added labor, equipment, and material costs for the grading of the new tank site per plan revision 14. Plan revision 14 has created a new tank site that generates significant quantities of mass excavation, overexcavation, buttress, and export of excess material to the surcharge stockpile. The changes per revision 14 have also added approximately 338,000 SF of finish area as the final grades per the previous grading plan had already been achieved. This change order does not include any demolition of concrete slope drainage, or construction of new concrete slope drainage. This change order does not include any erosion control installation or maintenance. Please review and provide direction if Sukut is to proceed with this added scope of work.

Thank you,

Bryan Nesthus

Sukut Construction

SUKUT CONSTRUCTION, INC.
4010 W. Chandler Avenue □ Santa Ana, CA 92704-5202
Tel: 714.540.5351 □ Fax: 714.545.2438 □ www.sukut.com
Contractor's License No. 554278



Raw Cut:		32,698 C.Y.
Less Close fill:	–	11,316 C.Y.
Less Road fill:	–	7,768 C.Y.
Total Export:		**13,614 C.Y.**

OX (R&R):	6,291 C.Y.
Buttress (R&R):	8,464 C.Y.
Total R&R:	**14,755 C.Y.**

Volumes by Triangulation (Prisms)
Tue Sep 29 11:35:40 2015
Existing Surface:
C:\...\TINS\RG-Rev13-In-OG.tin
Final Surface:
C:\...\TINS\RG-Rev21b.tin

Fill volume: 7,768.13 C.Y. (Fill)

Volumes by Triangulation (Prisms) Tue
Sep 29 11:26:05 2015
Existing Surface:
C:\...\TINS\RG-Rev13-In-OG.tin
Final Surface:
C:\...\TINS\RG-Rev21b.tin

Fill volume: 11,316.09 C.Y. (Fill)

Volumes by Triangulation (Prisms) Tue
Sep 29 13:11:53 2015
Existing Surface:
C:\...\TINS\RG-Rev13-In-OG.tin
Final Surface:
C:\...\TINS\RG-Rev21b.tin

Cut volume: 498.60 C.Y.
Fill volume: 419.30 C.Y.

Volumes by Triangulation (Prisms) Tue
Sep 29 11:25:02 2015
Existing Surface:
C:\...\TINS\RG-Rev13-In-OG.tin
Final Surface:
C:\...\TINS\RG-Rev21b.tin

Cut volume: 32,697.68 C.Y. (Raw Cut)

Volumes by Triangulation (Prisms) Tue Sep
29 12:31:56 2015
Existing Surface: C:\...\TINS\RG-Rev21b.tin
Final Surface: C:\...\Tank Key Backcut.tin

Cut volume: 8,464.46 C.Y.
(R & R Buttress Excavation)

LIMITED GEOTECHNICAL REVIEW OF THE PROPOSED WATER RESERVOIR TANK SITE, INDUSTRY BUSINESS CENTER EAST SIDE MASS GRADING, CONTRACT NO. IBC-0380, CITY OF INDUSTRY, CALIFORNIA

Prepared for:

SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY
15625 East Stafford Street, #100
Industry, California 91744

Project No. 10291.005

September 16, 2015

Leighton Consulting, Inc.
A LEIGHTON GROUP COMPANY

Leighton Consulting, Inc.
A LEIGHTON GROUP COMPANY

September 16, 2015

Project No. 10291.005

To: Successor Agency to the Industry Urban-Development Agency
15625 East Stafford Street, #100
Industry, California 91744

Attention: Mr. John D. Ballas, Agency Engineer

Subject: Limited Geotechnical Review of the Proposed Water Reservoir Tank Site, Industry Business Center East Side Mass Grading, Contract No. IBC-0380, City of Industry, California

In response to your request, Leighton Consulting, Inc. (Leighton) has reviewed the geotechnical conditions in the area of the new location of the proposed water tank within the Industry Business Center (IBC) East Side project (Contract No. IBC-0380) in the City of Industry, California. The new location for the water tank is near the eastern boundary in the central portion of the site. The water tank was previously planned further to the north along the eastern property line, but is being relocated due to potential settlement at the previous location where debris from a recent slope failure is being left in place. Rough grading of the IBC East project is ongoing and is being conducted in accordance with Revision #14 of the "Industry Business Center East Side Mass Grading" plan dated July 29, 2015 as well as Leighton's geotechnical reports regarding grading of the IBC East (Leighton, 2008 and 2014).

The City of Industry contracted Kleinfelder, Inc. to peer review our documents relating to the proposed rough grading plan for the reservoir tank site. As a part of their review, Kleinfelder had several questions which were outlined by Eric Noel in an email message dated August 11, 2015. This letter is intended to addresses those questions.

10532 Acacia Street, Suite B-6 ▪ Rancho Cucamonga, CA 91730-5455
909.484.2205 ▪ 909.484.2170 Fax

Proposed Grading Design

The new water tank site is located in the east central portion of the IBC East site. Design cut slopes, stabilized during the recent grading operations, are present to the north and west. An existing slope (offsite), excavated during development of the adjacent residential tract descends to the residences on the east.

The rough grading design of the water tank was prepared by PBLA Engineering and includes creation of a level pad for the new water tank at an elevation of 810 feet above mean sea level (msl). Cut slopes designed at inclinations of 2:1 (horizontal to vertical) or flatter and a maximum height of about 25 feet will ascend around the majority of the pad. The deepest planned cut is about 25 feet in depth. The majority if the tank pad and surrounding slopes are planned to be cut to design grade. The grading plan for the new water tank and surrounding area serves as the base for our Geotechnical Map (Plate 1).

Geotechnical Conditions

Leighton conducted several geotechnical studies in the area of the IBC East development and in the area of the new water tank (Leighton, 2007, 2008, 2010 and 2014). We also are providing geologic mapping and geotechnical observation and testing during grading of the IBC East. The geologic conditions in the area, based on our current mapping and previous work are illustrated on the Geotechnical Map (Plate 1).

We anticipate the tank site will be underlain by interbedded sandstone and siltstone of the Puente Formation overlain in some areas by recently placed compacted fill. The Puente Formation is generally composed of thinly bedded siltstone with sandstone interbeds that is moderately fractured, but is otherwise dense to very dense. Bedrock bedding planes in the area generally dip to north and northeast at 10 to 15 degrees, but the bedrock is locally folded and the bedding orientation is variable.

As recommend in our geotechnical reports for the IBC East (Leighton 2008, 2014), the design cut slope west of the new tank site (referred to in our previous reports as Slope 2) was stabilized during rough grading. As designed, the slope was expected to expose interbedded sandstone and siltstone with bedrock bedding planes dipping obliquely out of slope at 5 to 9 degrees. The slope was stabilized with construction of a 75-foot-wide stability buttress founded in a 20-foot-deep key. The key dimensions vary along the slope, but generally increase to the south. The geologic conditions exposed

during grading were generally more favorable than anticipated in our preliminary geotechnical reports. During grading, we mapped continuous bedding planes across the majority of the backcut. The geologic conditions as mapped during grading are shown on the Geotechnical Map (Plate 1) and Cross-section H-H' (Plate 3).

An ancient landslide (Qls-3) was previously mapped north of the tank site in the area of the current north facing slope. As designed, this north facing slope would have been a fill over cut slope. However, complete removal of landslide Qls-3 was accomplished during the recent rough grading and the slope has been completely converted to compacted fill. Elevations along the removal bottom and the geologic conditions are shown the Geotechnical Map and illustrated on Cross-section KK-KK'.

Following removal and excavation of the recommended remedial measures, compacted fill was placed to the then proposed design grade (design grade before the proposed water tank location was moved here). Compacted fill within 30 feet of design grade was placed using a minimum standard of 90 percent relative compaction at a minimum of 2 percent over optimum moisture content. Compacted fill deeper than 30 feet below design grade was placed to a minimum standard of 95 percent relative compaction at a minimum of 2 percent over optimum moisture content. The approximate limits of compacted fill and bedrock are shown on the Geotechnical Map.

When cut to design grade, we anticipate the water tank foundation will be underlain completely by bedrock; however, portions of the pad may be underlain by compacted fill.

"Slide 2" Fault Projection

The original location of the water tank was approximately 1500 feet north of the proposed site. During rough grading of the original water tank site, a slope failure informally called "Slide 2" occurred while the backcut for a replacement fill slope was being excavated. "Slide 2" was a bi-planar failure whose upper surface appeared to be controlled by a roughly north-south trending fault. Mapped exposures and orientations of the fault surface recorded during rough grading in relation to "Slide 2" are depicted in the Fault Projection Map (Figure 1).

This feature was considered to be a fault because it appeared to extend beyond the limits of the slope failure and because it included a thick gouge zone and slickenside features that extend to the surface. We would not expect such features to be associated with a new failure at the surface due to the low confining pressures. This

suggests the feature is an ancient fault. The pregrading topography of the area is not suggestive of the area being underlain by an ancient landslide, and evidence of such was not observed in the many borings drilled in the area.

The fault that controlled the upper surface of the "Slide 2" failure strikes in a direction roughly towards the new tank site. However, geologic mapping of removals in the canyon south of the new tank site and in the area of the Landslide Qls-3 removal did not identify the presence of the fault. Likewise, grading of the key and backcut for Slope 2 west of the new tank location did not identify this fault. Mapping on the backcut included broadly folded shale with bedding attitudes dipping towards the north and northwest. Continuous marker beds on the backcut were mapped without evidence of fault offset.

To further look for this feature, an approximately 150-foot-long trench was excavated in the ungraded area above the stabilized slope No. 2. This trench exposed relatively fresh bedrock from the ground surface to the bottom depth of about 10 feet (Plate 2).

The trench exposed shale with interspersed beds of very fine sandstone. Bedding generally dips towards the north (in the northeastern portion of the trench), the west (in the central portion of the trench), and the northeast (in the southwestern portion of the trench). Localized areas are more tightly folded with zones of abundant fractures. Relatively minor faulting was identified with some ruptures that extend from the bottom of the trench to the surface (a previously cut surface associated with offsite grading to the east) at the top of the trench. These faults slightly truncate bedding with vertical offsets less than 6 inches and with either no gouge or gouge thicknesses approximately 0.5 inch or less. Based on the relatively small thicknesses of gouge and the relatively minor amounts of bedrock displacement, these faults do not appear to be an extension of the "Slide 2" fault. The character of the fault with thick gouge and slickensided shear surfaces was not observed anywhere in this trench.

We did not see evidence of a fault with similar orientation in the excavations around the new tank pad. It may be that the fault extends offsite to the east or that the character and orientation of the fault changes between the old and new planned tank locations.

Slope Stability Analysis

Cross-section H-H' and KK-KK' illustrate the geologic conditions in areas considered critical to the stability of the water tank site. These sections were used to check the stability of the slopes below the proposed tank site.

Stability analysis for Section H-H' was previously conducted (Leighton, 2014). The recommended stability buttress was constructed as recommended and in our opinion, the geologic conditions exposed during grading were more favorable than anticipated and previously analyzed. Thus, it is our opinion that this slope is grossly and surficially stable as graded.

A roughly north-south trending cross section was drafted through the tank site and the design slope to the north. Cross-section, KK-KK', is located in an area where remedial removals of Landslide Qls-3 occurred. As a result of landslide removal and remedial grading, this slope was converted completely to fill.

Slope stability analysis of Cross-section KK-KK' was conducted using strength parameters used during our previous studies of the site. This slope was found to be stable with the minimum required factors of safety (1.5 for static condition; pseudostatic analysis was not conduced for slopes with an average bedding inclination of less than 12 degrees). The geotechnical cross-sections are provided on Plate 3. Slope stability analysis is provided in Appendix B.

Conclusions and Recommendations

Based on our review of past subsurface investigations, mapping during rough grading in the vicinity of the proposed reservoir tank site, as well as observations in Trench T-1, it is our opinion the proposed new water reservoir site is suitable for the tank construction from a geotechnical standpoint.

Grading for the tank pad should be conducted in accordance with the recommendations contained in our previous reports for the development except where modified in this report.

When cut to design grade, we anticipate the water tank foundation will be underlain completely by bedrock; however, portions of the pad may be underlain by compacted fill. We recommend that the proposed water reservoir tank pad be overexcavated to a minimum of 6 feet below design pad grade and replaced with compacted fill.

We also recommend that the design cut slopes around the pad be stabilized with construction of a minimum 20-foot-wide stability buttress founded in a 3-foot-deep key. Typical sub drains should be provided behind the stability buttress.

Geotechnical observation and testing should be conducted during excavation and subsequent phases of earthwork operations. The tank pad and design slopes should be mapped in detail to look for any evidence of slope instability or faults.

Our preliminary conclusions and recommendations presented in this letter should be reviewed and verified by Leighton Consulting during site grading and revised accordingly if exposed geotechnical conditions vary from our preliminary findings and interpretations.

Closure

This letter presents a summary of our review of the rough grading design in the area of the proposed water reservoir tank site. Our previous reports (Leighton Consulting, 2008 and 2014) should be reviewed for more detail regarding the geologic conditions in this area and the remainder of the Industry Business Center development.

We appreciate the opportunity to provide our services to the City of Industry on this project. If you have any questions, please call us at your convenience.

Respectfully submitted,

LEIGHTON CONSULTING, INC.

Philip A. Buchiarelli, CEG 1715
Principal Geologist

REGISTERED PROFESSIONAL ENGINEER
JASON D. HERTZBERG
No. 2711
GEOTECHNICAL
STATE OF CALIFORNIA

Jason D. Hertzberg, GE 2711
Principal Geologist

SGO/PB/JDH/rsm

Attachments: References
Figure 1 - Fault Projection Map
Appendix A - Boring Log
Appendix B - Slope Stability Analysis
Plate 1 - Geotechnical Map (In Pocket)
Plate 2 - Trench Log T-1 (In Pocket)
Plate 3 - Cross Sections (In Pocket)

Distribution: (1) Addressee

REFERENCES

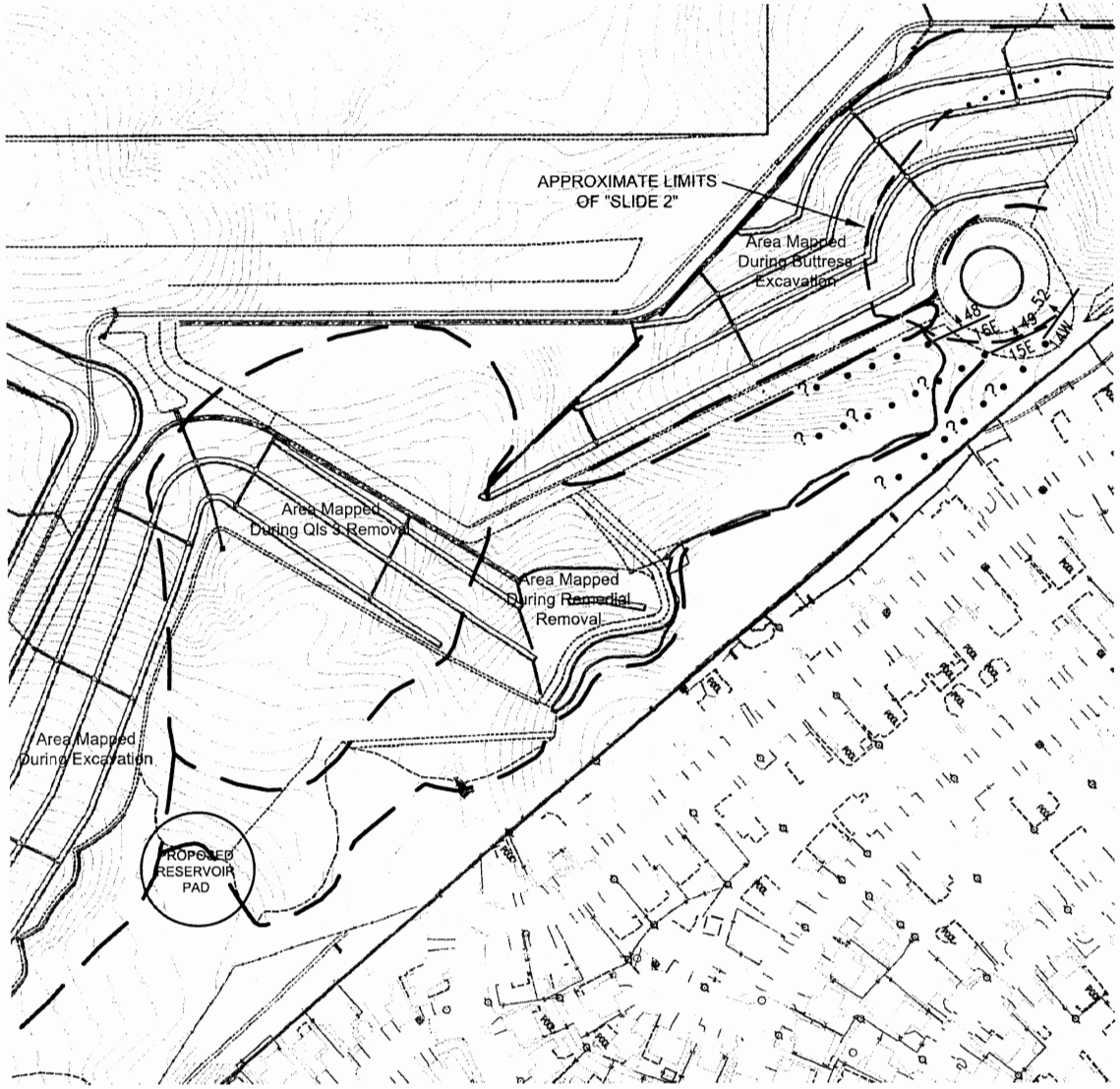
Leighton Consulting, Inc., 2007, Report of Geotechnical Conditions for Use in Development Planning, Eastern Portion of the Proposed Industry Business Center, East of Grand Avenue, North of State Route 60/57, City of Industry, California, Project No. 601180-002, dated October, 31, 2007.

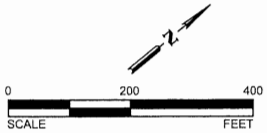
_____, 2008, Preliminary Design-Level Geotechnical Report, Proposed Los Angeles/Ridgeline Stadium Eastside Parking Area, East of Grand Avenue, North of State Routes 60/57, City of Industry, California, Project No. 602121-003, dated August 28, 2008.

_____, 2010, Limited Geotechnical Review of the Conceptual Grading Plans, Industry Business Center, East and West of Grand Avenue, North of State Routes 57/60, City of Industry, California, Project No. 602121-005, dated September 21, 2010.

_____, 2011, Limited Geotechnical Review of the Conceptual Grading Plans, Outlet Retail Option, Industry Business Center, East Side of Grand Avenue, North of State Routes 57/60, City of Industry, California, Project No. 602121-005, dated December 13, 2011.

_____, 2014, Geotechnical Review of Rough Grading Plans, Industry Business Center East Side, Improvement Project No. 380, East of Grand Avenue, North of State Routes 57/60, City of Industry, California, Project No. 10291-005, dated October 28, 2014.





FAULT PROJECTION MAP

Proposed Water Reservoir Tank Site
Industry Business Center East
City ofIndustry, California

FIGURE 1

Proj: 10291.005	Eng/Geol: JDH/PB
Scale: 1"=200'	Date: 09/2015

Drafted By: BGT | Checked By: BGT

Leighton

APPENDIX A

BORING LOG

GEOTECHNICAL BORING LOG BA-47

Date	9-28-06	Sheet	1 of 4
Project	IUDA-Industry Business Center-East	Project No.	601180-001
Drilling Co.	Roy Brothers Drilling	Type of Rig	Track-Mounted Auger
Hole Diameter	24"	Drive Weight	Not Sampled
Drop	"		
Elevation Top of Hole	833'	Location	East of Grand Avenue

Logged By: Kay St. Peters

Sampled By:

Elevation Feet	Depth Feet	Graphic Log (N–S)	Attitudes	Sample No.	Blows Per Six Inches	Dry Density pcf	Moisture Content, %	Soil Class. (U.S.C.S.)	DESCRIPTION	Type of Tests
	0								@ 0' Borrow area, no topsoil. @ 0' to total depth **PUENTE FORMATION BEDROCK (Tp):** interbedded medium to dark gray SILTSTONE and light brown to orange brown, fine SANDSTONE.	
830										
	5		@ 5' GB: N63°E, 38°NW						@ 5' SILTSTONE, highly fractured, crushed and mashed with SILTSTONE fragments zone~6" wide, not well defined, otherwise thinly bedded to laminated, bedding is non-continuous around the boring, general bedding attitude taken from south side of crushed zone.	
			@ 7' B: N-S, 17°W						@ 5.5' to 7' cemented layer, below crushed zone is interbedded medium to dark gray SILTSTONE and light brown to orange-brown fine-grained SANDSTONE, thinly bedded to laminated, bedding is continuous around the boring, very tight, fractured.	
825										
	10									
820			@ 13' GB: N15-20°E, 14°NW						@ 12' to 14' interbedded medium-to dark-gray SILTSTONE and light brown to orange-brown, fine-grained SANDSTONE, thinly bedded to laminated, bedding is continuous around the boring, very tight, highly fractured.	
	15									
815			@ 17' CS: N20°E, 10°-12°NW						@ 17' CLAY bed, white altered tuff~¼" to ½" thick, mashed appearance (not sheared) parallel to bedding, some polished CLAY laminations within SILTSTONE.	
	20		@ 20' B: N10°W, 18°SW						@ 20' to 20.5' highly folded and fractured zone, abundant polished surfaces on west side, not faulted, bedrock below is continuous SILTSTONE and SANDSTONE.	
810			@ 22' B: N10°W, 48°SW							
	25		@ 24.5' B: N20°W, 20°SW						@ 24.5 SILTSTONE and polished CLAY laminations.	
									@ 26' to 27.5' crushed and mashed zone with polished clay surfaces on west side, non-continuous bedding on northeast side, bedrock below is well-bedded medium-to dark-gray SILTSTONE and light brown to orange-brown, fine-grained SANDSTONE.	
805			@ 28' GB: N80°E, 13°NW						@ 28' general bedding attitude.	
	30									

SAMPLE TYPES:
- SPLIT SPOON
- R RING SAMPLE
- B BULK SAMPLE
- T TUBE SAMPLE

TYPE OF TESTS:

-200	200 SIEVE WASH	CR	CORROSION
DS	DIRECT SHEAR	SA	SIEVE ANALYSIS
MD	MAXIMUM DENSITY	AL	ATTERBERG LIMITS
CN	CONSOLIDATION	SE	SAND EQUIVALENT
Col	COLLAPSE	EI	EXPANSION INDEX
		RV	R-VALUE

LEIGHTON

GEOTECHNICAL BORING LOG BA-47

Date 9-28-06 | Sheet 2 of 4
Project IUDA-Industry Business Center-East | Project No. 601180-001
illing Co. Roy Brothers Drilling | Type of Rig Track-Mounted Auger
Hole Diameter 24" | Drive Weight Not Sampled | Drop "
Elevation Top of Hole 833' | Location East of Grand Avenue

Elevation Feet	Depth Feet	Graphic Log (N S)	Attitudes	Sample No.	Blows Per Six Inches	Dry Density pcf	Moisture Content, %	Soil Class. (U.S.C.S.)	DESCRIPTION (Logged By Kay St. Peters; Sampled By)	Type of Tests
	30									
800			@ 32' B: N85°W, 12°NE						@ 33.5' tuff layer along bedding.	
	35		@ 35' B: N83°W, 12°NE							
795										
	40									
790			@ 42' B: N84°E, 7°NE							
	45								@ 44.5' to 46.5' cemented layer.	
785										
	50		@ 49' B: N60°E, 14°NW						@ 49' gradual change in bedding orientation due to folding.	
780			@ 52' B: N68°E, 16°NW						@ 51' to 53' abundant altered tuff seams interbedded with SILTSTONE~ ¼" to ½" thick, altered to pale orange brown CLAY, crushed and sheared, polished clay surfaces, softer than siltstone, bedding is continuous around the boring, no offset.	
	55									
775			@ 59' B: N80°E, 14°NW						@ 59' gradual change in bedding orientation due to folding.	
	60									

'PLE TYPES:
- SPLIT SPOON
R RING SAMPLE
B BULK SAMPLE
T TUBE SAMPLE

TYPE OF TESTS:
-200 200 SIEVE WASH
DS DIRECT SHEAR
MD MAXIMUM DENSITY
CN CONSOLIDATION
Col COLLAPSE
CR CORROSION
SA SIEVE ANALYSIS
AL ATTERBERG LIMITS
SE SAND EQUIVALENT
EI EXPANSION INDEX
RV R-VALUE

LEIGHTON

GEOTECHNICAL BORING LOG BA-47

Date 9-28-06 | Sheet 3 of 4
Project IUDA-Industry Business Center-East | Project No. 601180-001
Drilling Co. Roy Brothers Drilling | Type of Rig Track-Mounted Auger
Hole Diameter 24" | Drive Weight Not Sampled | Drop "
Elevation Top of Hole 833' | Location East of Grand Avenue

Logged By Kay St. Peters
Sampled By

Elevation Feet	Depth Feet	Graphic Log (N S)	Attitudes	Sample No.	Blows Per Six Inches	Dry Density pcf	Moisture Content, %	Soil Class. (U.S.C.S.)	DESCRIPTION	Type of Tests
	60								@ 61' to 62' crushed zone, bedrock below has a change in bedding orientation due to folding.	
770			@ 62' B: N38°E, 10°NW							
	65		@ 64' B: N75°E, 17°NW						@ 64' to 66' sharp fold.	
			@ 66' B: N72°W, 25°NE							
765			@ 68' B: N75°W, 33°NE							
	70									
			@ 71' B: N75°W, 42°NE							
760										
	75		@ 74' B: N80°W, 20°NE							
755										
	80		@ 80' B: N80°W, 16°NE							
750										
	85		@ 85' B: N84°W, 14°N						@ 85.5' to 86.5' cemented layer.	
745			@ 89' B: N78°W, 12°NE							
	90									

SAMPLE TYPES:
S SPLIT SPOON
R RING SAMPLE
B BULK SAMPLE
T TUBE SAMPLE

TYPE OF TESTS:
-200 200 SIEVE WASH
DS DIRECT SHEAR
MD MAXIMUM DENSITY
CN CONSOLIDATION
Col COLLAPSE
CR CORROSION
SA SIEVE ANALYSIS
AL ATTERBERG LIMITS
SE SAND EQUIVALENT
EI EXPANSION INDEX
RV R-VALUE

LEIGHTON

GEOTECHNICAL BORING LOG BA-47

Date 9-28-06 | Sheet 4 of 4
Project IUDA-Industry Business Center-East | Project No. 601180-001
Drilling Co. Roy Brothers Drilling | Type of Rig Track-Mounted Auger
Hole Diameter 24" | Drive Weight Not Sampled | Drop "
Elevation Top of Hole 833' | Location East of Grand Avenue

Logged By Kay St. Peters
Sampled By

Elevation Feet	Depth Feet	Graphic Log (N S)	Attitudes	Sample No.	Blows Per Six Inches	Dry Density pcf	Moisture Content, %	Soil Class. (U.S.C.S.)	DESCRIPTION	Type of Tests
	90		@ 91' B: N75°W, 15°NE							
740										
	95									
735									Total depth drilled = 96' Downhole logged to 94' No ground water was encountered. Backfilled with soil cuttings on 9/28/2006	
	100									
730										
	105									
725										
	110									
720										
	115									
715										
	120									

SAMPLE TYPES:
- SPLIT SPOON
- R RING SAMPLE
- B BULK SAMPLE
- T TUBE SAMPLE

TYPE OF TESTS:
- -200 200 SIEVE WASH
- DS DIRECT SHEAR
- MD MAXIMUM DENSITY
- CN CONSOLIDATION
- Col COLLAPSE
- CR CORROSION
- SA SIEVE ANALYSIS
- AL ATTERBERG LIMITS
- SE SAND EQUIVALENT
- EI EXPANSION INDEX
- RV R-VALUE

LEIGHTON

APPENDIX B

SLOPE STABILITY ANALYSIS

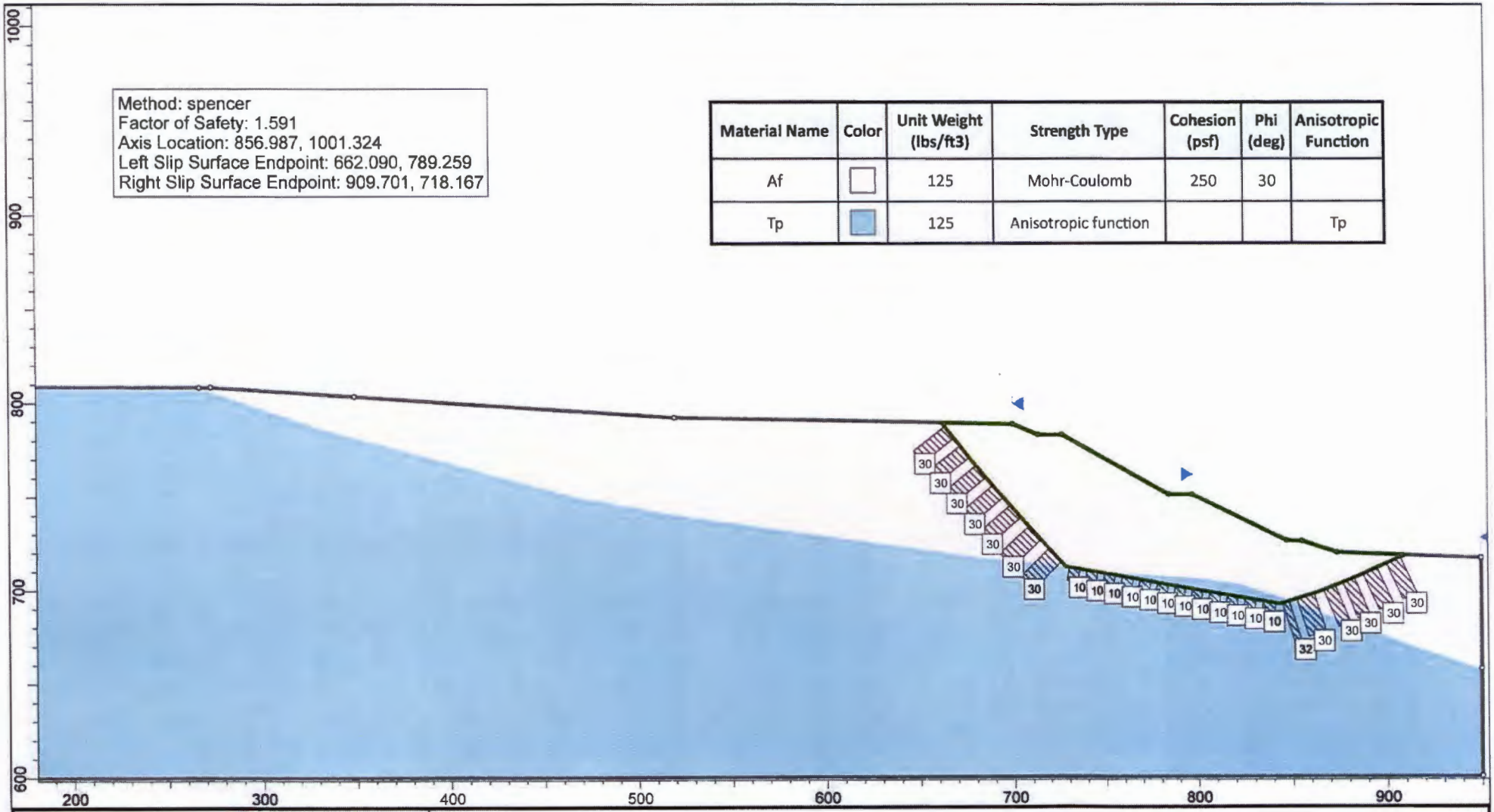
Section KK-KK'

Path Search for Failure Surface

P:\INFOCUS PROJECTS\10001-10499\10291 IUDA Diamond Bar Creek\005 East Side Grading\Analyses\SLIDE\Section KK-KK'\KK - KK' Cross Section 8-2015 - Fill Failure 4.slim

Method: spencer
Factor of Safety: 1.591
Axis Location: 856.987, 1001.324
Left Slip Surface Endpoint: 662.090, 789.259
Right Slip Surface Endpoint: 909.701, 718.167

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Anisotropic Function
Af		125	Mohr-Coulomb	250	30	
Tp		125	Anisotropic function			Tp



Project: IUDA Slope Stability			
Analyzed By: J. Dupre	Units: feet	Scale: 1:900	10291.005
Date: September 2015	Condition: Static		

SLIDEINTERPRET 6.036

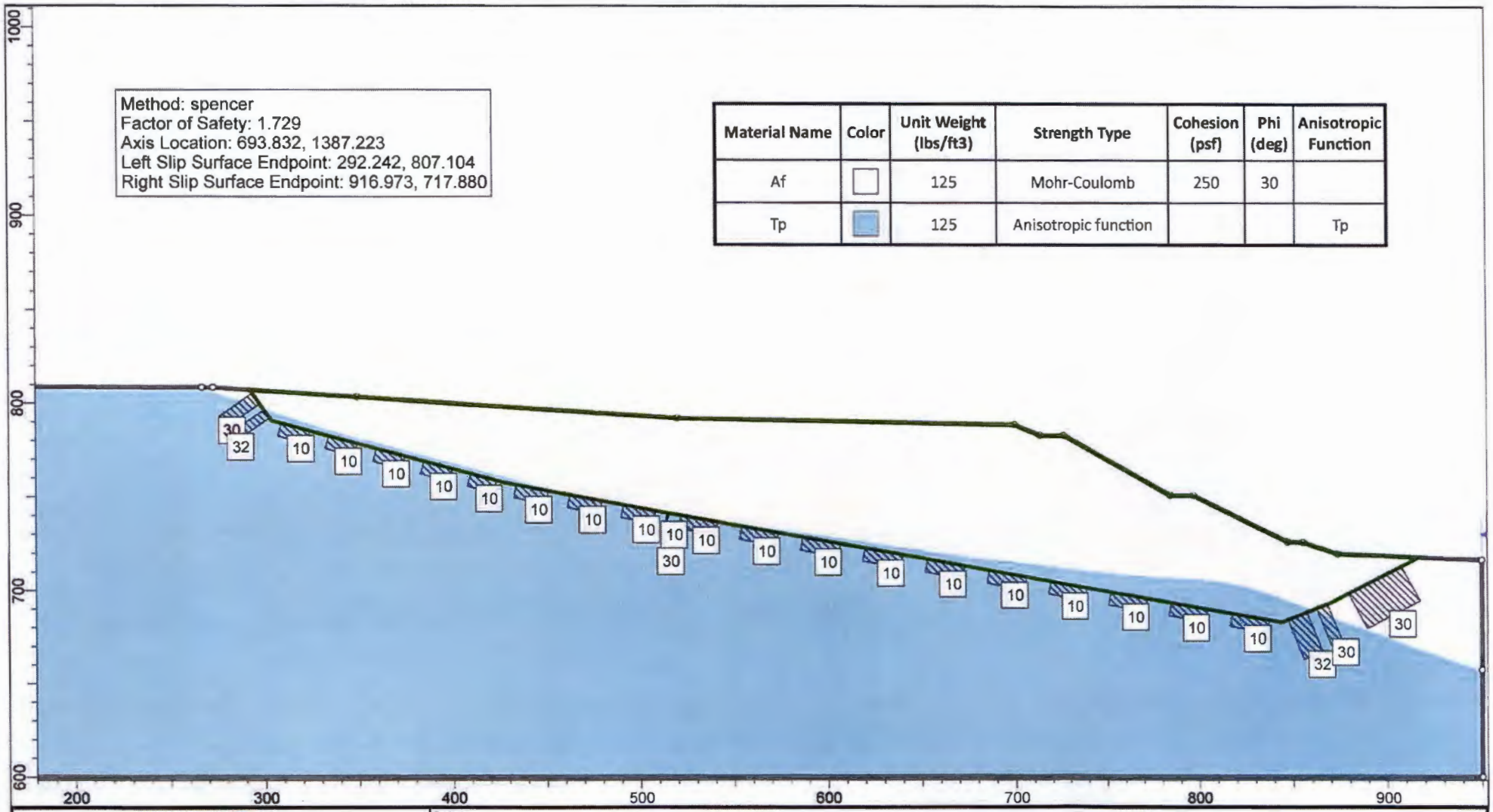
Section KK-KK'

Block Search for Failure Surface

P:\INFOCUS PROJECTS\10001-10499\10291 IUDA Diamond Bar Creek\005 East Side Grading\Analyses\SLIDE\Section KK-KK'\KK - KK' Cross Section 8-2015 - Deep Failure 5.slim

Method: spencer
Factor of Safety: 1.729
Axis Location: 693.832, 1387.223
Left Slip Surface Endpoint: 292.242, 807.104
Right Slip Surface Endpoint: 916.973, 717.880

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Anisotropic Function
Af		125	Mohr-Coulomb	250	30	
Tp		125	Anisotropic function			Tp



Project: IUDA Slope Stability			
Analyzed By: J. Dupre	Units: feet	Scale: 1:900	10291.005
Date: September 2015	Condition: Static		

SLIDEINTERPRET 6.036

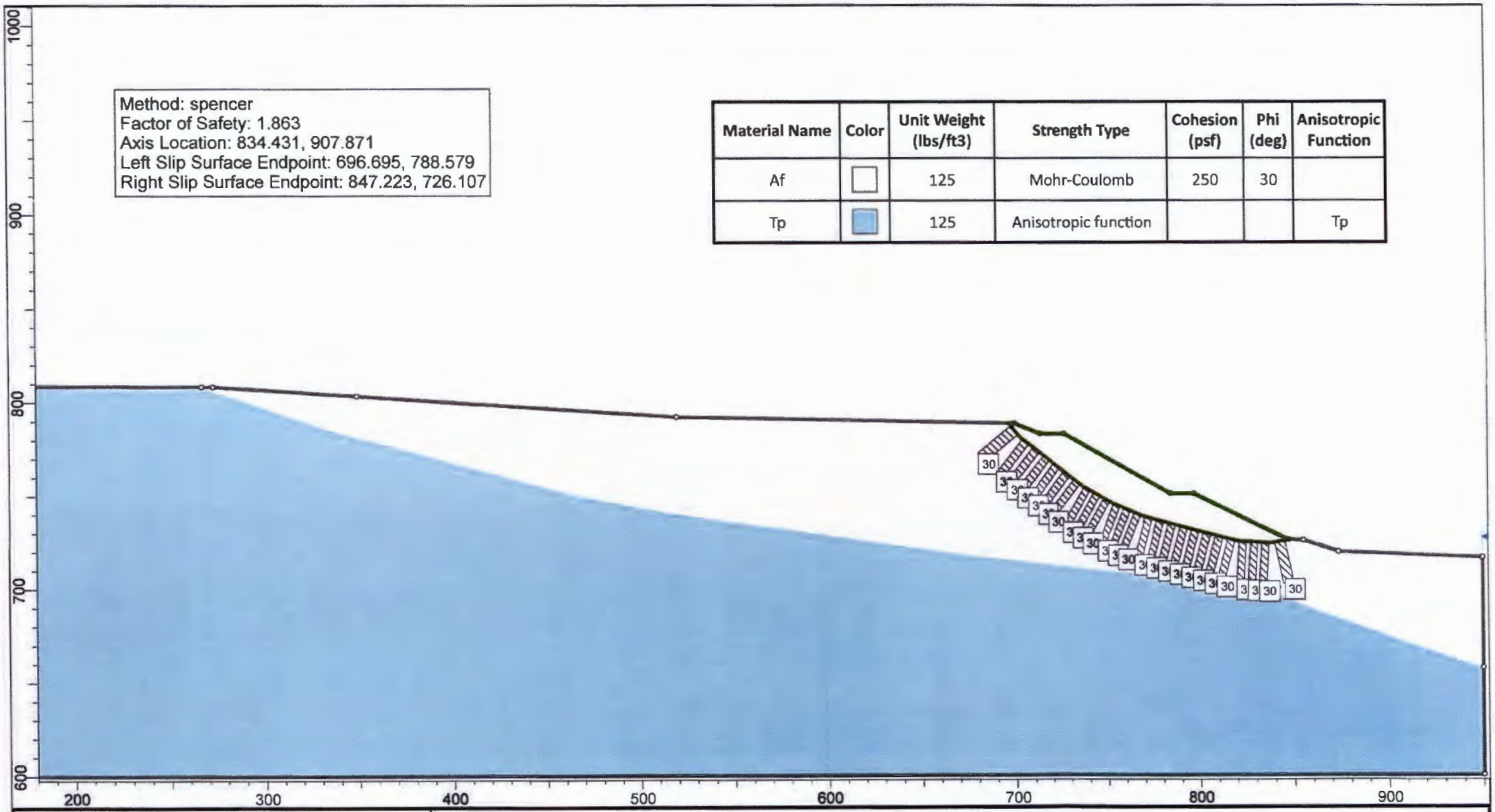
Section KK-KK'

Path Search for Failure Surface

P:\INFOCUS PROJECTS\10001-10499\10291 IUDA Diamond Bar Creek\005 East Side Grading\Analyses\SLIDE\Section KK-KK'\KK - KK' Cross Section 8-2015 - Fill Failure 2.slim

Method: spencer
Factor of Safety: 1.863
Axis Location: 834.431, 907.871
Left Slip Surface Endpoint: 696.695, 788.579
Right Slip Surface Endpoint: 847.223, 726.107

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Anisotropic Function
Af		125	Mohr-Coulomb	250	30	
Tp		125	Anisotropic function			Tp



Project	IUDA Slope Stability		
Analyzed By: J. Dupre	Units: feet	Scale: 1:900	10291.005
Date: September 2015	Condition: Static		

SLIDEINTERPRET 6.036

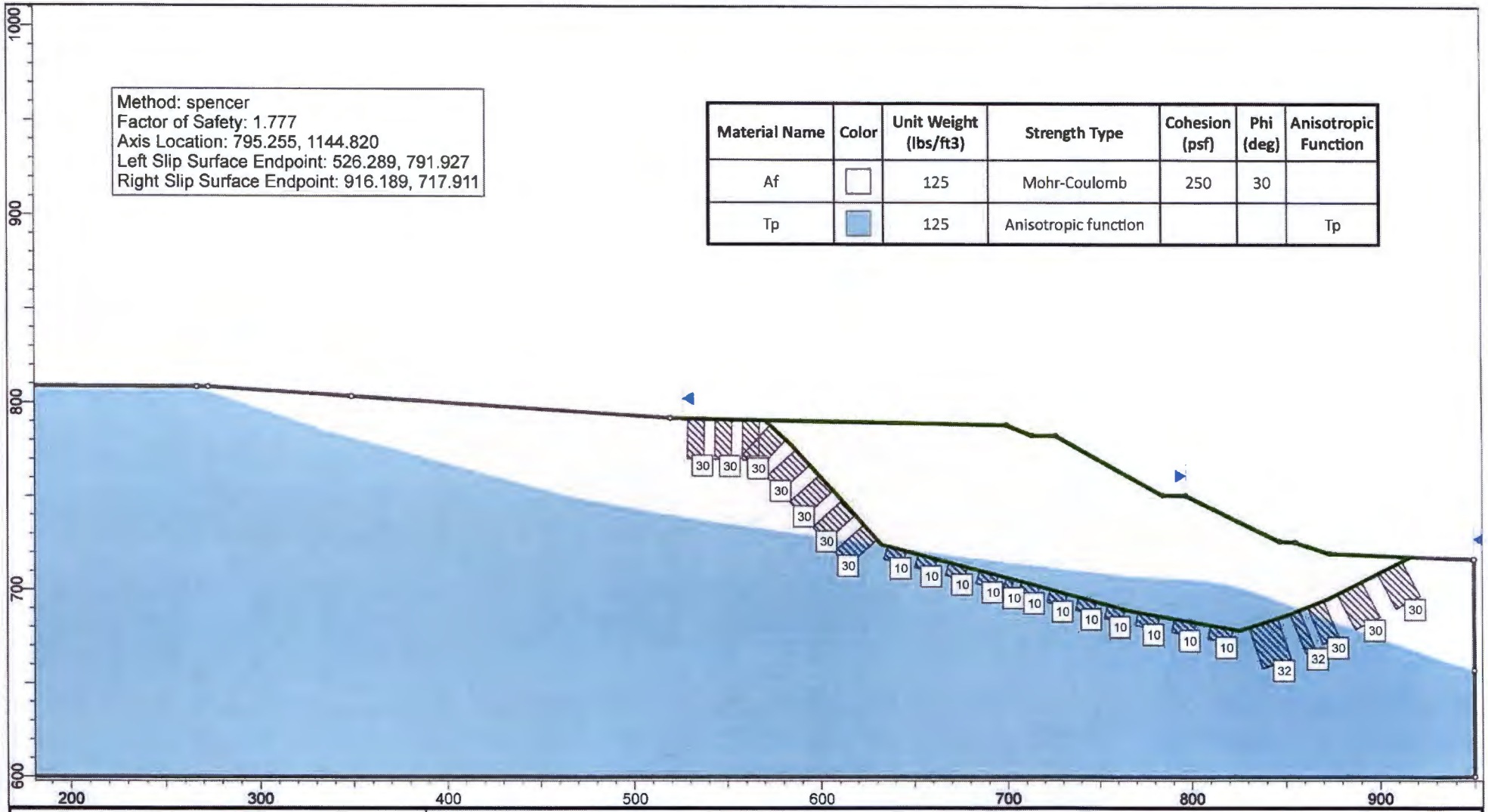
Section KK-KK'

Path Search for Failure Surface

P:\INFOCUS PROJECTS\10001-10499\10291 IUDA Diamond Bar Creek\005 East Side Grading\Analyses\SLIDE\Section KK-KK'\KK - KK' Cross Section 8-2015 - Fill Failure 3.slim

Method: spencer
Factor of Safety: 1.777
Axis Location: 795.255, 1144.820
Left Slip Surface Endpoint: 526.289, 791.927
Right Slip Surface Endpoint: 916.189, 717.911

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Anisotropic Function
Af		125	Mohr-Coulomb	250	30	
Tp		125	Anisotropic function			Tp



Project: IUDA Slope Stability			
Analyzed By: J. Dupre	Units: feet	Scale: 1:900	10291.005
Date: September 2015	Condition: Static		

SLIDEINTERPRET 6.036

SUCCESSOR AGENCY

ITEM NO. 5.2

SUCCESSOR AGENCY TO THE

INDUSTRY URBAN - DEVELOPMENT AGENCY

MEMORANDUM

To: Honorable Chairman and Members of the Successor Agency to the Industry Urban-Development Agency Board

From: Paul J. Philips, Executive Director Paul J. Philips

Staff: Clement N. Calvillo, CNC Engineering CNC
Gerardo Perez, CNC Engineering GP

Date: October 22, 2015

SUBJECT: Change Order No. 4 – Plan Revisions and Geotechnical Recommendations (IBC-0380)

During the course of construction, the following additional work was necessary due to revisions to the plans and/or geotechnical recommendations received after the project was awarded.

Extra Costs Due to Revisions to the Rough Grade Plans

The original contract requires moving 9.6 million cubic yard of earthwork and states that the earthwork on-site will balance which means neither import nor export of material will be required. Prior to the start of construction the contractor stated that based on their calculations and the cut/fill plan (see attached) created for this project, the site would not balance. Instead it would generate an additional 800,000 cubic yards of material based on a shrinkage factor of 17.5%.

In an effort to minimize this excess material, PBLA, the Agency's engineering consultant, revised the plans by reducing the cut material of the hill just westerly of the detention basin at the northeasterly corner, which is Cut 16 on the cut/fill plan. This reduction in material created two things 1) Reduced the available material of approximately 472,000 cubic yards next to the fill area and 2) Affected the original production rate from a wide open excavation to a buttress cut with buttressed fill slopes working in close quarters. The Contractor has submitted additional costs totaling $180,569.56 that include reduced production due to working in tight quarters, buttress premium for cutting the buttress, long haul premium to replace the 472,000 cubic yards, additional slope finish and added erosion control devises.

Geotechnical Recommendations - Surcharge

In an updated geotechnical report dated October 28, 2014, Leighton Consulting recommended that a surcharge stockpile be place over the fill area on the northerly end of the project. The proposed building sits on top of a cut/fill transition with a fill of approximately 120 feet thick which has a potential for large differential settlement. The surcharge stockpile should accelerate the fill settlement. This surcharge is to remain in place for a period of one year and will be monitored on a regular basis. The quantity of this surcharge totals approximately 700,000 cubic yards. As stated previously the site does not balance and although the rough grade plan revision attempted to mitigate some of this imbalance, it was not enough. So therefore, the site does have an extra 700,000 cubic yards but are not close to the fill area. The Contractor again has requested a long haul premium to move the material from the southerly end to the northerly end of the project. The Contractor has requested a long haul premium in the amount of $0.60/cubic yard for moving 660,000 cubic yards of material to the surcharge area. Approximately 40,000 cubic yards were moved from the slide area to the surcharge area so the long haul premium is only applicable for 660,000 cubic yards and the total cost amounts to $396,000.00. Fill placement shall be paid under existing unit prices bid for unclassified excavation.

Geotechnical Recommendations – Wet Excavation

During the wet excavation located just south of the existing landfill the geotechnical consultant requested installation of additional subdrains and placement of rock material at the bottom of the wet excavation area. The Contractor was directed to proceed on a time and material basis since it was difficult to quantify the exact quantities of materials needed and direction was based on geotechnical observations. The total cost for this extra work amounts to $43,470.60.

After the wet excavation and fill material was placed in this area, the geotechnical consultant recommended that the Contractor continue to pump the groundwater for a period of one year. In lieu of obtaining a groundwater discharge permit from the Regional Quality Control Board, it was decided to build a lined pond with fencing along its perimeter and pump water in to it. This water is currently being used for dust control. The cost to construct this pond and install the pumps is $36,700.00.

The total additional cost for all of the above extra work totals $656,740.16. Staff has reviewed the additional work and the contractor's total cost proposal and find it reasonable and acceptable. Therefore, Staff hereby recommends approval of Change Order No. 4 in the amount of $656,740.16. Peer review by Kleinfelder of the long haul premiums both for merit and cost analysis confirms our recommendation.

PJP/ GP:rg

CITY OF INDUSTRY

15625 E. Stafford St.
City of Industry, CA 91744
(818)333-2211

CHANGE ORDER

Change Order No. 4

Project Industry Business Center Eastside Mass Grading **Contract No.** IBC-0380 **Date** 10/22/2015

Type Project Grading **Contractor** Sukut Construction, LLC

Location City of Industry

Explanation:

Plan Revisions and Geotechnical Recommendations

Extra Work by: X Contract Items | X Negotiated | T & M

The contractor is hereby directed to perform all labor and to provide all materials necessary to carry out the work described below:

ITEM NO.	ITEM	QUANTITY	UNIT PRICE	TOTALS ($) +	-
1	Revision to Rough Grading Plans	Lump Sum	$180,569.56	$180,569.56	
2	Long Haul Premium for Surcharge	660,000 C.Y.	$0.60	$396,000.00	
3	Additional subdrains and placement of rock	Lump Sum	$43,470.60	$43,470.60	
4	Construction of Pond and Installation of pumps	Lump Sum	$36,700.00	$36,700.00	
			TOTAL COST	**$656,740.16**	

T & M SUMMARY

*Labor Cost	+ 20%	Total Labor
*Equipment Cost	+ 15%	Total Equipment
*Material Cost	+ 15%	Total Materials
(*Attach breakdown of labor, equipment and materials)		Sub-Total

CHANGE ORDER SUMMARY

		% of Contract Amount
Original Contract Amount	$22,693,112.00	
Total Previous Change Orders	$3,413,110.64	15.04%
Total Change Orders	$ 4,069,850.80	17.93%

Other Additive		
Total T & M		
Pay This CHANGE ORDER	**$ 656,740.16**	2.89%

Authorized by_____ Additional Working Days 20

I hereby certify that the quantities shown and/or amounts shown for equipment, material and labor costs (if any) are correct to the best of my knowledge and the total cost shown above shall be considered final payment for the work specified by this change order. The total cost includes compensation for any delay in the preparation of this change order and the time to complete the specified work.

Contractor Representative Date

J.D. Bellas, Director of Public Works Date

Gerardo Perez, Project Manager Date OCT. 13. 2015

C.O. # 4

SC COR Number: 11.0
SC Job Number: 1158

Date: 6/9/2015

Owner: City of Industry
C/o CNC Engineering
255 N. Hacienda Blvd. Suite 201
City of Industry, CA 91744

Attn: Gerardo Perez

Project: IBC East - 0380

Subject: COR 11.0 - Plan Revision 9 Grading Changes

Mr. Perez,

Please see the following breakdown of change order request number 11.0.

Item:	Description:	Qty:	Unit:		Price:		Total:
1.0	Reduced Production Premium	163,082	CY	$	0.30	$	48,924.60
2.0	Buttress Premium	51,026	CY	$	0.76	$	38,779.76
3.0	Station Haul Increase	472,000	CY	$	0.25	$	~~118,000.00~~ 59,000 GP
4.0	Fill Slope Finish	78,520	SF	$	0.21	$	16,489.20
5.0	Added Erosion Control	1	LS	$	17,375.00	$	17,375.00
						Total Amount this Request:	**$** ~~239,568.56~~ $180,568.56 GP

This change order request includes all added labor, equipment, and material costs associated with the changes to the project from Plan Revision 9. The attached narrative describes each change in detail.

Thank you,

Bryan Nesthus

Sukut Construction

SUKUT CONSTRUCTION, INC.
4010 W. Chandler Avenue □ Santa Ana, CA 92704-5202
Tel: 714.540.5351 □ Fax: 714.545.2438 □ www.sukut.com
Contractor's License No. 554278

Sukut COR 11.0

Scope Clarification:

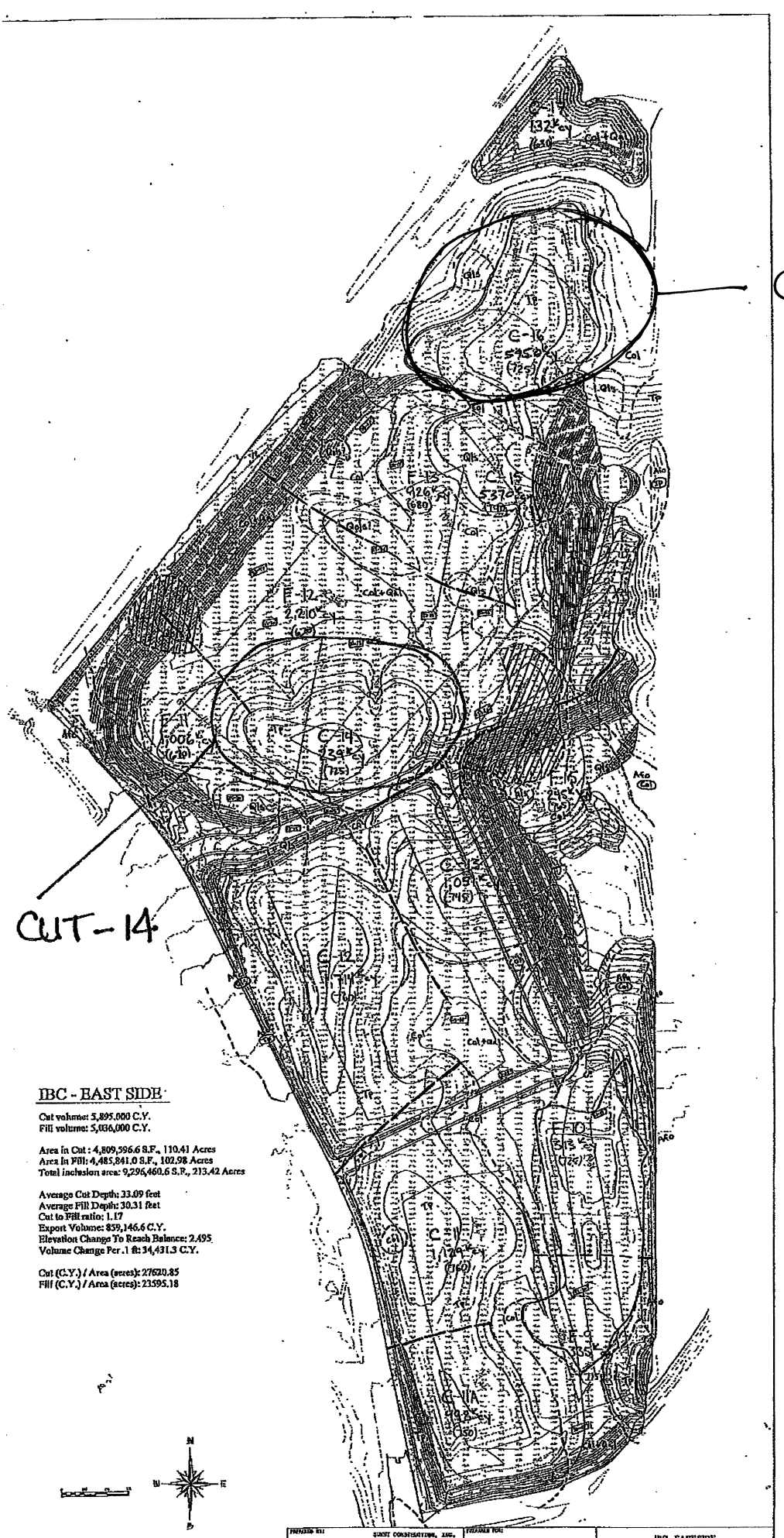
1.0 – Plan revision 9 removed the majority of the design cut from "Cut 16," the original design cut was roughly 584,000 cubic yards of material. Revision 9 reduced the cut volume to 112,000 CY plus 51,000 CY of buttress backcut. Due to the reduction in volume and restriction in size of excavation, the cut was less productive and was performed with 657 scrapers instead of 651 scrapers (See comparison cost sheets 1 and 2). As a result of this lost production and change in equipment being utilized, the unit cost for this excavation has increased.

2.0 – As a result of the design changes to Cut 16, there are now buttressed fill slopes adjacent to the parking lot perimeter and the storm drain easement. This buttress is new to the design and the unit cost premium to place fill material within the buttress is due to the low production nature of the work. Comparison spreadsheets 3 and 4 compare a normal 4 scraper excavation operation to a 4 scraper buttress fill operation.

3.0 – The design change to reduce the excavation from cut 16 eliminated 472,000 CY of close cut available from the original design. With this close excavation no longer available, 472,000 CY of material will need to be hauled from cut that is further from the fill. This added cut material will be hauled from the border of cut 12 and cut 11. The average haul length has increased by 500 feet or 5 stations. At the unit price station haul increase of $0.05 per station, that increases the cost per unit by $0.25 per cubic yard.

4.0 – The added buttress fill slopes added 78,520 SF of slope that requires over-building, compacting, and trimming to the new design grades and terrace drain bench grades per plan revision 9. The unit cost for slope finish includes all the added costs for over-building, compacting, and fine grading to design bench and finish grades.

5.0 – Plan revision 9 added permanent fill slopes that will require erosion control. The lump sum addition for erosion control includes approximately 8,000 feet of linear sediment control installation along the slope surface. The Agency may require this slope to be further stabilized with hydroseed or with wood mulch. If this is the case, the additional quantity will be paid at the contract unit rates. Concrete slope drains were also added to the slope as part of this revision. This additional slope drainage will be charged at the contract unit rates.



IBC - EAST SIDE

Cut volume: 5,895,000 C.Y.
Fill volume: 5,036,000 C.Y.

Area in Cut : 4,809,596.6 S.F., 110.41 Acres
Area in Fill: 4,485,841.0 S.F., 102.98 Acres
Total inclusion area: 9,296,460.6 S.F., 213.42 Acres

Average Cut Depth: 33.09 feet
Average Fill Depth: 30.31 feet
Cut to Fill ratio: 1.17
Export Volume: 859,146.6 C.Y.
Elevation Change To Reach Balance: 2.495
Volume Change Per .1 ft: 34,431.3 C.Y.

Cut (C.Y.) / Area (acres): 27620.85
Fill (C.Y.) / Area (acres): 23595.18

PREPARED BY: BROWKUP SURVEYING & DIRECTION

SUNCIT CONSTRUCTION, INC.
4760 W. CHANDLER
SANTA ANA, CA. 92704
PHONE(714)543-2551
FAX(714)543-2552

PREPARED FOR:

IBC - EAST SIDE
REMEDIAL GRADING MAP

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	**11.0**	**SUKUT COR WORKSHEET NUMBER**	**1.00**
DATE WORK COMPLETED		**SUKUT JOB NUMBER**	**1158**

DESCRIPTION OF WORK	High production 651 equipment spread with a daily production of 40,000 CY.	$ 1.72

EQUIPMENT								
MODEL	**QTY**	**HRS ST**	**RATE**	**AMOUNT ST**	**HRS OT**	**RATE**	**AMOUNT OT**	**TOTAL AMOUNT**
CAT 657 SCRAPER	0.00	0.00	$ 581.93	$ -	0.0	$ 517.92	$ -	$ -
CAT 651 SCRAPER	9.00	10.00	$ 305.39	$ 21,988.08	2.0	$ 271.80	$ 4,892.35	$ 26,880.43
CAT 637 SCRAPER	0.00	0.00	$ 403.88	$ -	0.0	$ 359.45	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.96	$ -	0.0	$ 71.16	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 213.47	$ -	0.0	$ 189.99	$ -	$ -
CAT D9 DOZER	1.00	10.00	$ 291.14	$ 2,329.12	2.0	$ 259.11	$ 518.23	$ 2,847.35
CAT D10 DOZER	0.00	0.00	$ 440.64	$ -	0.0	$ 392.17	$ -	$ -
CAT D10N PUSH DOZER	2.00	10.00	$ 357.09	$ 5,713.44	2.0	$ 317.81	$ 1,271.24	$ 6,984.68
CAT D11 DOZER	0.00	0.00	$ 556.51	$ -	0.0	$ 495.29	$ -	$ -
CAT 824 COMPACTOR	2.00	10.00	$ 235.80	$ 3,772.80	2.0	$ 209.86	$ 839.45	$ 4,612.25
CAT 834 COMPACTOR	0.00	10.00	$ 354.85	$ -	2.0	$ 315.82	$ -	$ -
4000 GALLON WATER TRUCK	4.00	10.00	$ 57.54	$ 1,841.28	2.0	$ 51.21	$ 409.68	$ 2,250.96
PICK UP TRUCK	1.00	10.00	$ 21.78	$ 174.24	2.0	$ 19.38	$ 38.77	$ 213.01
TOTAL EQUIPMENT COSTS								$ 43,788.68

LABOR								
JOB CLASSIFICATION	**QTY**	**HRS ST**	**RATE**	**AMOUNT ST**	**HRS OT**	**OT RATE**	**AMOUNT OT**	**TOTAL AMOUNT**
FOREMAN	1.00	10.0	$ 110.00	$ 1,100.00	2.0	$ 28.00	$ 56.00	$ 1,156.00
GRADE CHECKER	0.00	0.0	$ 105.00	$ -	0.0	$ 28.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 651	9.00	10.0	$ 91.00	$ 8,190.00	2.0	$ 29.00	$ 522.00	$ 8,712.00
OPERATOR - 637	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	2.00	10.0	$ 91.00	$ 1,820.00	2.0	$ 29.00	$ 116.00	$ 1,936.00
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	2.00	10.0	$ 91.00	$ 1,820.00	2.0	$ 28.00	$ 112.00	$ 1,932.00
OPERATOR - 834	0.00	10.0	$ 91.00	$ -	2.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	4.00	10.0	$ 73.00	$ 2,920.00	2.0	$ 20.00	$ 160.00	$ 3,080.00
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 17,782.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS					
DESCRIPTION			**QTY**	**UNIT COST**	**TOTAL**
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS						
DESCRIPTION	**INVOICE NO.**	**DATE**	**VENDOR**	**UNITS**	**UNIT COST**	**TOTAL**
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP				
DESCRIPTION	**TOTAL COST**	**% MARK UP**	**AMOUNT MARK UP**	**TOTAL**
TOTAL COST FOR EQUIPMENT	$ 43,788.68	15.00%	$ 6,568.30	$ 50,356.98
TOTAL COST FOR LABORERS AND OPERATORS	$ 17,782.00	0.00%	$ -	$ 17,782.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				**$ 68,138.98**
BOND COST ADD (1% OF Total)				**$ 681.39**
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				**$ 68,820.37**

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	**11.0**	**SUKUT COR WORKSHEET NUMBER**	**2.00**
DATE WORK COMPLETED		**SUKUT JOB NUMBER**	**1158**

DESCRIPTION OF WORK	Grading operation with 657 scrapers due to restrictions is size of excavation with a production of 33,000 CY per day.	$ 2.02

EQUIPMENT								
MODEL	**QTY**	**HRS ST**	**RATE**	**AMOUNT ST**	**HRS OT**	**RATE**	**AMOUNT OT**	**TOTAL AMOUNT**
CAT 657 SCRAPER	8.00	10.00	$ 581.93	$ 37,243.52	2.0	$ 517.92	$ 8,286.68	$ 45,530.20
CAT 651 SCRAPER	0.00	0.00	$ 305.39	$ -	0.0	$ 271.80	$ -	$ -
CAT 637 SCRAPER	0.00	0.00	$ 403.88	$ -	0.0	$ 359.45	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.96	$ -	0.0	$ 71.16	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 213.47	$ -	0.0	$ 189.99	$ -	$ -
CAT D9 DOZER	1.00	10.00	$ 291.14	$ 2,329.12	2.0	$ 259.11	$ 518.23	$ 2,847.35
CAT D10 DOZER	0.00	0.00	$ 440.64	$ -	0.0	$ 392.17	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 357.09	$ -	0.0	$ 317.81	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 556.51	$ -	0.0	$ 495.29	$ -	$ -
CAT 824 COMPACTOR	1.00	10.00	$ 235.80	$ 1,886.40	2.0	$ 209.86	$ 419.72	$ 2,306.12
CAT 834 COMPACTOR	0.00	10.00	$ 354.85	$ -	2.0	$ 315.82	$ -	$ -
4000 GALLON WATER TRUCK	2.00	10.00	$ 57.54	$ 920.64	2.0	$ 51.21	$ 204.84	$ 1,125.48
PICK UP TRUCK	1.00	10.00	$ 21.78	$ 174.24	2.0	$ 19.38	$ 38.77	$ 213.01
TOTAL EQUIPMENT COSTS								$ 52,022.17

LABOR								
JOB CLASSIFICATION	**QTY**	**HRS ST**	**RATE**	**AMOUNT ST**	**HRS OT**	**OT RATE**	**AMOUNT OT**	**TOTAL AMOUNT**
FOREMAN	1.00	10.0	$ 110.00	$ 1,100.00	2.0	$ 28.00	$ 56.00	$ 1,156.00
GRADE CHECKER	0.00	0.0	$ 105.00	$ -	0.0	$ 28.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	8.00	10.0	$ 91.00	$ 7,280.00	2.0	$ 28.00	$ 56.00	$ 7,336.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 637	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D10	0.00	2.0	$ 91.00	$ -	2.0	$ 28.00	$ 56.00	$ 56.00
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - 834	0.00	10.0	$ 91.00	$ -	2.0	$ 29.00	$ 58.00	$ 58.00
OPERATOR - WATER TRUCK	2.00	10.0	$ 73.00	$ 1,460.00	2.0	$ 20.00	$ 40.00	$ 1,500.00
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 12,038.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS					
DESCRIPTION			**QTY**	**UNIT COST**	**TOTAL**
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS						
DESCRIPTION	**INVOICE NO.**	**DATE**	**VENDOR**	**UNITS**	**UNIT COST**	**TOTAL**
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP				
DESCRIPTION	**TOTAL COST**	**% MARK UP**	**AMOUNT MARK UP**	**TOTAL**
TOTAL COST FOR EQUIPMENT	$ 52,022.17	15.00%	$ 7,803.33	$ 59,825.49
TOTAL COST FOR LABORERS AND OPERATORS	$ 12,038.00	0.00%	$ -	$ 12,038.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				**$ 71,863.49**
BOND COST ADD (1% OF Total)				**$ 718.63**
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				**$ 72,582.13**

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	11.0	**SUKUT COR WORKSHEET NUMBER**	3.00
DATE WORK COMPLETED		**SUKUT JOB NUMBER**	1158

DESCRIPTION OF WORK	Normal 657 spread hauling material to normal fill with a production of 21,600 CY per day.	$ 1.97

EQUIPMENT								
MODEL	**QTY**	**HRS ST**	**RATE**	**AMOUNT ST**	**HRS OT**	**RATE**	**AMOUNT OT**	**TOTAL AMOUNT**
CAT 657 SCRAPER	4.00	10.00	$ 581.93	$ 18,621.76	2.0	$ 517.92	$ 4,143.34	$ 22,765.10
CAT 651 SCRAPER	0.00	0.00	$ 305.39	$ -	0.0	$ 271.80	$ -	$ -
CAT 637 SCRAPER	0.00	0.00	$ 403.88	$ -	0.0	$ 359.45	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.96	$ -	0.0	$ 71.16	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 213.47	$ -	0.0	$ 189.99	$ -	$ -
CAT D9 DOZER	1.00	10.00	$ 291.14	$ 2,329.12	2.0	$ 259.11	$ 518.23	$ 2,847.35
CAT D10 DOZER	0.00	0.00	$ 440.64	$ -	0.0	$ 392.17	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 357.09	$ -	0.0	$ 317.81	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 556.51	$ -	0.0	$ 495.29	$ -	$ -
CAT 824 COMPACTOR	1.00	10.00	$ 235.80	$ 1,886.40	2.0	$ 209.86	$ 419.72	$ 2,306.12
CAT 834 COMPACTOR	0.00	10.00	$ 354.85	$ -	2.0	$ 315.82	$ -	$ -
4000 GALLON WATER TRUCK	2.00	10.00	$ 57.54	$ 920.64	2.0	$ 51.21	$ 204.84	$ 1,125.48
PICK UP TRUCK	1.00	10.00	$ 21.78	$ 174.24	2.0	$ 19.38	$ 38.77	$ 213.01
TOTAL EQUIPMENT COSTS								$ 29,257.07

LABOR								
JOB CLASSIFICATION	**QTY**	**HRS ST**	**RATE**	**AMOUNT ST**	**HRS OT**	**OT RATE**	**AMOUNT OT**	**TOTAL AMOUNT**
FOREMAN	1.00	10.0	$ 110.00	$ 1,100.00	2.0	$ 28.00	$ 56.00	$ 1,156.00
GRADE CHECKER	0.00	0.0	$ 105.00	$ -	0.0	$ 28.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	4.00	10.0	$ 91.00	$ 3,640.00	2.0	$ 28.00	$ 224.00	$ 3,864.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 637	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - 834	0.00	10.0	$ 91.00	$ -	2.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	2.00	10.0	$ 73.00	$ 1,460.00	2.0	$ 20.00	$ 80.00	$ 1,540.00
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 8,492.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS					
DESCRIPTION			**QTY**	**UNIT COST**	**TOTAL**
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS						
DESCRIPTION	**INVOICE NO.**	**DATE**	**VENDOR**	**UNITS**	**UNIT COST**	**TOTAL**
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP				
DESCRIPTION	**TOTAL COST**	**% MARK UP**	**AMOUNT MARK UP**	**TOTAL**
TOTAL COST FOR EQUIPMENT	$ 29,257.07	15.00%	$ 4,388.56	$ 33,645.63
TOTAL COST FOR LABORERS AND OPERATORS	$ 8,492.00	0.00%	$ -	$ 8,492.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 42,137.63
BOND COST ADD (1% OF Total)				$ 421.38
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 42,559.00

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	**11.0**	**SUKUT COR WORKSHEET NUMBER**	**4.00**
DATE WORK COMPLETED		**SUKUT JOB NUMBER**	**1158**

DESCRIPTION OF WORK	657 spread hauling material to buttress fill with a production of 15,600 CY per day.	$ 2.73

EQUIPMENT								
MODEL	**QTY**	**HRS ST**	**RATE**	**AMOUNT ST**	**HRS OT**	**RATE**	**AMOUNT OT**	**TOTAL AMOUNT**
CAT 657 SCRAPER	4.00	10.00	$ 581.93	$ 18,621.76	2.0	$ 517.92	$ 4,143.34	$ 22,765.10
CAT 651 SCRAPER	0.00	0.00	$ 305.39	$ -	0.0	$ 271.80	$ -	$ -
CAT 637 SCRAPER	0.00	0.00	$ 403.88	$ -	0.0	$ 359.45	$ -	$ -
CAT D5 DOZER	0.00	0.00	$ 79.96	$ -	0.0	$ 71.16	$ -	$ -
CAT D8 DOZER	0.00	0.00	$ 213.47	$ -	0.0	$ 189.99	$ -	$ -
CAT D9 DOZER	1.00	10.00	$ 291.14	$ 2,329.12	2.0	$ 259.11	$ 518.23	$ 2,847.35
CAT D10 DOZER	0.00	0.00	$ 440.64	$ -	0.0	$ 392.17	$ -	$ -
CAT D10N PUSH DOZER	0.00	0.00	$ 357.09	$ -	0.0	$ 317.81	$ -	$ -
CAT D11 DOZER	0.00	0.00	$ 556.51	$ -	0.0	$ 495.29	$ -	$ -
CAT 824 COMPACTOR	1.00	10.00	$ 235.80	$ 1,886.40	2.0	$ 209.86	$ 419.72	$ 2,306.12
CAT 834 COMPACTOR	0.00	10.00	$ 354.85	$ -	2.0	$ 315.82	$ -	$ -
4000 GALLON WATER TRUCK	2.00	10.00	$ 57.54	$ 920.64	2.0	$ 51.21	$ 204.84	$ 1,125.48
PICK UP TRUCK	1.00	10.00	$ 21.78	$ 174.24	2.0	$ 19.38	$ 38.77	$ 213.01
TOTAL EQUIPMENT COSTS								$ 29,257.07

LABOR								
JOB CLASSIFICATION	**QTY**	**HRS ST**	**RATE**	**AMOUNT ST**	**HRS OT**	**OT RATE**	**AMOUNT OT**	**TOTAL AMOUNT**
FOREMAN	1.00	10.0	$ 110.00	$ 1,100.00	2.0	$ 28.00	$ 56.00	$ 1,156.00
GRADE CHECKER	0.00	0.0	$ 105.00	$ -	0.0	$ 28.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
LABORER	0.00	0.0	$ 67.00	$ -	0.0	$ 20.00	$ -	$ -
OPERATOR - 657	4.00	10.0	$ 91.00	$ 3,640.00	2.0	$ 28.00	$ 224.00	$ 3,864.00
OPERATOR - 651	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 637	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D5	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D9	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D10	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - D10N PUSH DOZER	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - D11	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - 834	0.00	10.0	$ 91.00	$ -	2.0	$ 29.00	$ -	$ -
OPERATOR - WATER TRUCK	2.00	10.0	$ 73.00	$ 1,460.00	2.0	$ 20.00	$ 80.00	$ 1,540.00
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 8,492.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS					
DESCRIPTION			**QTY**	**UNIT COST**	**TOTAL**
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS						
DESCRIPTION	**INVOICE NO.**	**DATE**	**VENDOR**	**UNITS**	**UNIT COST**	**TOTAL**
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP				
DESCRIPTION	**TOTAL COST**	**% MARK UP**	**AMOUNT MARK UP**	**TOTAL**
TOTAL COST FOR EQUIPMENT	$ 29,257.07	15.00%	$ 4,388.56	$ 33,645.63
TOTAL COST FOR LABORERS AND OPERATORS	$ 8,492.00	0.00%	$ -	$ 8,492.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				**$ 42,137.63**
BOND COST ADD (1% OF Total)				**$ 421.38**
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				**$ 42,559.00**

SC COR Number: **15.0**
SC Job Number: **1158**

Date: 7/6/2015

Owner: Successor Agency to the Industry Urban-Development Agency
C/o CNC Engineering
255 N. Hacienda Blvd. Suite 201
City of Industry, CA 91744

Attn: Gerardo Perez

Project: IBC East - 0380

Subject: COR 15.0 - Surcharge Long-Haul Premium

Mr. Perez,

Please see the following breakdown of change order request number 15.0.

Item:	Description:	Qty:	Unit:	Price:	Total:
1.0	Station Haul Increase	660,000	CY	$ 0.60	$ 396,000.00
				Total Amount this Request:	**$ 396,000.00**

This change order request includes all added labor, equipment, and material costs associated with the addition of the surcharge stockpile over the building pad across fills 11, 12, and 13. Cut material from Cut 11 will be used to create the surcharge stockpile. The station haul increase from cut 11 to fill 12 is 1200 lineal feet or 12 stations. The total volume of the surcharge stockpile is 700,000 CY per the plan revision. The quantity of 660,000 CY represents the total volume less the quantity of material placed in the surcharge stockpile from the landslide removal work on T&M. Material from the landslide was placed in the surcharge stockpile on 6/17, 6/18, and 6/26.

Thank you,

Bryan Nesthus

Sukut Construction

SUKUT CONSTRUCTION, INC.
4010 W. Chandler Avenue □ Santa Ana, CA 92704-5202
Tel: 714.540.5351 □ Fax: 714.545.2438 □ www.sukut.com
Contractor's License No. 554278

Leighton Consulting, Inc.
A LEIGHTON GROUP COMPANY

October 28, 2014

Project No 10291.005

To: Successor Agency to the Industry Urban-Development Agency
c/o CNC Engineering
255 North Hacienda Boulevard, Suite 222
City of Industry, California 91744

Attention: Mr. Josh Nelson

Subject: Geotechnical Review of Rough Grading Plans, Industry Business Center East Side, Improvement Project No. 380, East of Grand Avenue, North of State Routes 57/60, City of Industry, California

In response to your request, Leighton Consulting, Inc. (Leighton) has conducted a limited geotechnical review of the rough grading plans for the portion of the proposed Industry Business Center East Side project, located east of Grand Avenue and north of State Route 57/60. The purpose of this study was to review the most recent version of the development plans for the site and to provide any new or revised geotechnical recommendations for remedial grading. Leighton previously investigated the site for possible development and prepared geotechnical reports for the site (references). This report supplements our previous report, the *Preliminary Design-Level Geotechnical Report, Proposed Los Angeles/Ridgeline Stadium Eastside Parking Area, East of Grand Avenue, North of State Routes 60/57, City of Industry, California* (Leighton, 2008), which should be referenced for detailed discussion of the site conditions and grading recommendations. Reviews of previous versions of the grading design have also been provided (Leighton, 2010, 2011, and 2013).

The rough grading plans for the project were prepared by PBLA Engineering, Inc., and electronic versions of the plans were provided to us on August 5, 2014. These plans were used for our review and serve as the base for the Remedial Map (Plates 1 and 1a) included with this report. Geotechnical cross-sections are also included with this report

10532 Acacia Street, Suite B-6 ▪ Rancho Cucamonga, CA 91730-5455
909.484.2205 ▪ 909.484.2170 Fax

(Plates 2 through 4), and the locations of the cross-section lines along with those from the previous report (Leighton Consulting, 2008) are shown on the Remedial Map for reference. The cross-sections have not been renumbered for this report.

Proposed Development

The east and west sides of the currently proposed Industry Business Center were previously being considered for construction of the Los Angeles Stadium Project. The area east of Grand Avenue, previously slated for parking areas and commercial sites, is currently proposed as the Industry Business Center East Side development. Leighton Consulting prepared a geotechnical report addressing the proposed Stadium development east of Grand Avenue (Leighton Consulting, 2008).

The conceptual grading plans for the Industry Business Center East Side development show construction of three large building pads. We understand the northern and central building pads are planned for large warehouse structures. However, the southern pad (closest to State Route 60) is being considered for several smaller outlet store structures. The rough grading design generally involves placement of fill in canyon areas and excavation of ridges to create the relatively large building pads and associated parking and other improvements. The maximum depth of planned fill approaches 120 feet, and the maximum depth of cut is about 100 feet. Manufactured fill and cut slopes are planned along the perimeter of the site.

In many respects, the proposed grading (perimeter slopes, fill depths and depth of cut) is similar to the previously proposed East Side Stadium project. Design grades across much of the site are similar, although elevation changes on the order of 20 feet were identified.

Significant Design Revisions and Remedial Grading

Based on our review, there are several significant differences in the design, or additional design information is available that have implications to the remedial grading of the site. Specifically, there are changes to some of the slopes that will require additional remedial grading. Also, the new design includes changes to the elevations of the three building pads. Remedial grading recommendations for these specific conditions are discussed below. Additional information is provided on the Remedial Map and cross-sections (Plates 1a through 4).

Slope Stability

The grading design of Slope 2 in the vicinity of cross-sections E-E″, F-F″, G-G″, and H-H″ has been modified to lower the grade at the toe of this replacement fill slope by as much as 20 feet, and resulted in an adjustment to the slope stability. As originally designed, the slope was stable with the minimum required factors of safety (1.5 for static and 1.1 for psuedostatic). With redesign of the slope by lowering the grade at the toe, analysis shows the slope's stability falls below the minimum required factors of safety. To provide adequate stability for the slope, the replacement fill dimensions and associated keyway dimensions have been modified. The keyway has been changed to have a maximum width of approximately 95 feet and a maximum depth of approximately 20 feet. Typical subdrainage should be provided in the key bottom and along the back cut. A more detailed configuration of this keyway can be seen in the Remedial Map (Plate 1a) and the cross-sections (Plate 2). Detailed results of the slope stability analyses of the revised design slopes are presented at the rear of the text.

Although no detailed analysis of slope stability was performed for the remaining slopes, the general configuration of the majority of the slopes is not significantly different than previously analyzed (Leighton Consulting, 2008). As such, the remedial measures previously provided for these slopes are expected to provide adequate stability for the slopes based on the new design (see Remedial Map, Plate 1a and 1b).

An approximately 30-foot-high, 2:1 (horizontal to vertical) cut slope is designed in the southeastern corner of the site (see Plate 1a). We excavated several backhoe test pits in this area exposing folded and fractured Puente Formation bedrock. Considering these conditions, we anticipate this cut slope to be at least surficially unstable. With the existing residential structures above, stabilization of this slope could be difficult. If possible, we recommend the design of this slope be adjusted to remove it from the proximity of the property boundary, or the slope inclination be reduced to 3:1 or flatter. Additional geotechnical exploration of this area may be necessary if alternative designs are not acceptable.

Differential Settlement

The design includes two relatively large proposed building pads to accommodate large warehouse/industrial buildings in the central and northern portion of the site, and pads for the planned outlet store structures in the southern portion of the site. Due to the size of any potential buildings as well as the variable conditions of the site, there is a significant potential for differential settlement of the buildings. These building pads are located in

areas planned for deep cuts (up to 100 feet) and deep fills (approaching 120 feet). These conditions result in a significant potential for differential settlement under the buildings as the fill placed in canyon areas settles and as the bedrock in cut areas rebound from the removed load.

The amount of differential settlement and the ensuing duration of settlement are based on several key factors unique to any given case, such as the maximum fill depth, the nature of the depth differential of the fill, and the size and orientation of the building pad. Mitigation of differential settlement due to these conditions is expected to include delay of construction until remaining settlement is within tolerable limits, placement of compacted fill at higher levels of compaction (95 percent relative compaction), surcharging deeper fill areas with temporary stockpiles to increase the rate of settlement and shorten the delay, deep overexcavation of shallow cut and fill areas during grading, and/or very stiff or deep foundation designs.

Differential seismic response of buildings may also be an issue for buildings underlain by a severe fill depth differential. Site-specific seismic response analysis may be required based on the final design of the project.

The southernmost proposed building pad (outlet stores) has been lowered in elevation by approximately 19 feet. This has resulted in this pad being situated on top of a cut/fill transition with a maximum fill thickness of approximately 70 feet (following removal of compressible soil). Because of this condition, a minimum overexcavation of 15 feet below design grade should be implemented in cut and shallow fill areas beneath the proposed building footprint. The area of this overexcavation should extend to also encompass a 1.5:1 projection from the edge of the building footprint to the overexcavation bottom. Approximate limits of this overexcavation are illustrated in the Remedial Map (Plate 1a). Depending on the actual conditions encountered and the final layout of the buildings, alternative recommendations for overexcavation of these building may be warranted.

As currently designed, the southernmost building pad (outlet stores) is also located over soft, wet, alluvial soils and over landfill material placed in this area in the 1960s. To provide adequate support for the building as shown, complete removal of soft wet alluvial soil and the landfill material will be required. However, relatively shallow groundwater is present in this area, and dewatering will be required to facilitate removals of compressible materials. In addition, based on our current understanding of the site conditions, dewatering and compressible soil removals in the onsite area could destabilize offsite properties to the east. For this reason, a building setback zone was previously recommended for this area (Leighton Consulting, 2007 and 2008). To accommodate this

setback recommendation in light of the current design of this proposed pad, dewatering and compressible soil removals should extend to a 1.5:1 (horizontal: vertical) projection from the edge of the proposed building pad to the anticipated removal bottom. Removal operations in this area should be limited to those required to support the proposed building. The condition of alluvium and landfill left in place and the slopes descending into the removal should be monitored to confirm that adequate slope stability is maintained. Adequate stability is likely achievable assuming the alluvial soil has been dewatered. Water draining from the slope will result in an unstable condition. The backcut for the compressible soils removal should be no steeper than an inclination of 1.5:1. Approximate limits of remedial removals for the building setback are illustrated on the Remedial Map (Plate 1a). Dewatering in this area should continue through the duration of construction and during the settlement monitoring phase for this area. The installation of trench drains in the bottom of the removal with a riser pipe and submersible pump can aid in maintaining a dewatered condition.

On the opposite side of the site, the northernmost proposed building pad is also proposed to be situated on top of a cut/ fill transition. However, the maximum fill thickness here is anticipated to reach nearly 120 feet. Because of the large differential of fill thicknesses, cut and shallow fill portions underlying this building pad should be overexcavated a minimum of 30 feet below design grade, and extend to also encompass a 1:1 projection from the edge of the building footprint to the overexcavation bottom. Approximate limits of this overexcavation are illustrated in the Remedial Map (Plate 1b). In addition to the overexcavation, surcharging the thickest fills with a 20 to 30 thick of stockpile should be implemented in areas with the thickest fills, as well as a settlement monitoring program. The recommended areas for stockpile surcharging as well as the stockpile thicknesses are illustrated on the Remedial Map (Plate 1b). SURCHARGE

Closure

This study is based on a limited geotechnical review of the rough grading plans provided to us on August 5, 2014 and a limited additional analysis of the site. The previous report for development in this area (Leighton Consulting, 2008) should be referenced for more detailed information.

We appreciate the opportunity to provide our services to Successor Agency to the Industry Urban-Development Agency on this project. If you have any questions, please contact us at your convenience.

Respectfully submitted,

LEIGHTON CONSULTING, INC.

Philip A. Buchiarelli CEG 1715
Principal Geologist

REGISTERED PROFESSIONAL ENGINEER
JASON D. HERTZBERG
No. 2711
Exp. 6-30-15
GEOTECHNICAL
STATE OF CALIFORNIA

Jason D. Hertzberg, GE 2711
Associate Engineer

PB/JDH/SGO/rsm

Attachments: References
Slope Stability Analyses
Plates 1a and 1b - Remedial Map
Plates 2 through 4 - Cross-Sections

Distribution: (2) Addressee

Leighton

SC COR Number: **14.0**
SC Job Number: **1158**

Date: 7/31/2015

Owner: City of Industry
C/o CNC Engineering
255 N. Hacienda Blvd. Suite 201
City of Industry, CA 91744

Attn: Gerardo Perez

Project: IBC East - 0380

Subject: IBC East Side Mass Grading - COR 14.0 - Subdrain and Rock Placement in F9

Mr. Perez,

Please see the following breakdown of change order request number 14.0.

Item:	Description:	Qty:	Unit:	Price:	Total:
1.0	Fill 9 Sub Drain 6/17/15	1	LS	$ 19,205.84	$ 19,205.84
2.0	Fill 9 Sub Drain 6/18/15	1	LS	$ 13,027.81	$ 13,027.81
3.0	Fill 9 Sub Drain 6/19/15	1	LS	$ 7,464.70	$ 7,464.70
4.0	Fill 9 Sub Drain 6/22/15	1	LS	$ 3,772.25	$ 3,772.25
				Total Amount this Request:	**$ 43,470.60**

This change order request includes all added labor, equipment, and material costs associated with the installation of subdrain and rock placement at the bottom of the Fill 9 wet removal area.

Thank you,

Bryan Nesthus

Sukut Construction

SUKUT CONSTRUCTION, LLC
4010 W. Chandler Avenue ▯ Santa Ana, CA 92704-5202
Tel: 714.540.5351 ▯ Fax: 714.545.2438 ▯ www.sukut.com
Contractor's License No. 554278

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	14.0	SUKUT COR WORKSHEET NUMBER	1.0
DATE WORK COMPLETED	6/17/2015	SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Sub Drain In Fill 9

EQUIPMENT								
MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 345 EXCAVATOR	1.00	10.00	$ 209.57	$ 1,676.56	2.0	$ 186.52	$ 373.03	$ 2,049.59
CAT 740 ARTICULATED TRUCK	1.00	10.00	$ 301.68	$ 2,413.44	2.0	$ 268.50	$ 536.99	$ 2,950.43
CAT 950 LOADER	1.00	10.00	$ 146.42	$ 1,171.36	2.0	$ 130.31	$ 260.63	$ 1,431.99
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT 824 COMPACTOR	0.00	0.00	$ 233.21	$ -	0.0	$ 207.56	$ -	$ -
PICK UP TRUCK	1.00	10.00	$ 21.50	$ 172.00	2.0	$ 19.14	$ 38.27	$ 210.27
TOTAL EQUIPMENT COSTS								$ 6,642.28

LABOR								
JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	10.0	$ 110.00	$ 1,100.00	2.0	$ 28.00	$ 56.00	$ 1,156.00
LABORER	1.00	10.0	$ 67.00	$ 670.00	2.0	$ 20.00	$ 40.00	$ 710.00
LABORER	1.00	8.0	$ 67.00	$ 536.00	0.0	$ 20.00	$ -	$ 536.00
OPERATOR - 345	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - 740	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 29.00	$ 58.00	$ 968.00
OPERATOR - 950	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 5,302.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS					
DESCRIPTION			QTY	UNIT COST	TOTAL
SUB DRAIN ROCK		TONS	200	$ 17.28	$ 3,456.00
4" PERFORATED PIPE		FT	300	$ 2.15	$ 645.00
SUB DRAIN FABRIC		FT	600	$ 1.02	$ 612.00
TOTAL MATERIAL COSTS					$ 4,713.00

SUKUT SUBCONTRACTOR COSTS						
DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP				
DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 6,642.28	15.00%	$ 996.34	$ 7,638.62
TOTAL COST FOR LABORERS AND OPERATORS	$ 5,302.00	0.00%	$ -	$ 5,302.00
TOTAL TAX ON MATERIALS	$ 4,713.00	9.00%	$ 424.17	$ 424.17
TOTAL COST FOR MATERIALS	$ 5,137.17	10.00%	$ 513.72	$ 5,650.89
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 19,015.68
BOND COST ADD (1% OF Total)				$ 190.16
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 19,205.84

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	14.0
DATE WORK COMPLETED	6/18/2015

SUKUT COR WORKSHEET NUMBER	2.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Sub Drain In Fill 9

EQUIPMENT

MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 345 EXCAVATOR	1.00	10.00	$ 209.57	$ 1,676.56	2.0	$ 186.52	$ 373.03	$ 2,049.59
CAT 740 ARTICULATED TRUCK	1.00	10.00	$ 301.68	$ 2,413.44	2.0	$ 268.50	$ 536.99	$ 2,950.43
CAT 950 LOADER	1.00	10.00	$ 146.42	$ 1,171.36	2.0	$ 130.31	$ 260.63	$ 1,431.99
CAT D8 DOZER	1.00	2.00	$ 211.39	$ 422.78	0.0	$ 188.14	$ -	$ 422.78
CAT 824 COMPACTOR	0.00	0.00	$ 233.21	$ -	0.0	$ 207.56	$ -	$ -
PICK UP TRUCK	1.00	10.00	$ 21.50	$ 172.00	2.0	$ 19.14	$ 38.27	$ 210.27
TOTAL EQUIPMENT COSTS								$ 7,065.06

LABOR

JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	10.0	$ 110.00	$ 1,100.00	2.0	$ 28.00	$ 56.00	$ 1,156.00
LABORER	1.00	8.0	$ 67.00	$ 536.00	0.0	$ 20.00	$ -	$ 536.00
OPERATOR - 345	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - 740	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 29.00	$ 58.00	$ 968.00
OPERATOR - 950	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - D8	1.00	2.0	$ 91.00	$ 182.00	0.0	$ 28.00	$ -	$ 182.00
OPERATOR - 824	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 4,774.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS

DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS

DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP

DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 7,065.06	15.00%	$ 1,059.76	$ 8,124.82
TOTAL COST FOR LABORERS AND OPERATORS	$ 4,774.00	0.00%	$ -	$ 4,774.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 12,898.82
BOND COST ADD (1% OF Total)				$ 128.99
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 13,027.81

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	14.0
DATE WORK COMPLETED	6/19/2015

SUKUT COR WORKSHEET NUMBER	3.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Sub Drain In Fill 9

EQUIPMENT

MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 345 EXCAVATOR	1.00	10.00	$ 209.57	$ 1,676.56	2.0	$ 186.52	$ 373.03	$ 2,049.59
CAT 740 ARTICULATED TRUCK	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	1.00	5.00	$ 146.42	$ 585.68	1.0	$ 130.31	$ 130.31	$ 715.99
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT 824 COMPACTOR	1.00	5.00	$ 233.21	$ 932.84	1.0	$ 207.56	$ 207.56	$ 1,140.40
PICK UP TRUCK	1.00	5.00	$ 21.50	$ 86.00	1.0	$ 19.14	$ 19.14	$ 105.14
TOTAL EQUIPMENT COSTS								$ 4,011.12

LABOR

JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	5.0	$ 110.00	$ 550.00	1.0	$ 28.00	$ 28.00	$ 578.00
LABORER	1.00	4.0	$ 67.00	$ 268.00	0.0	$ 20.00	$ -	$ 268.00
OPERATOR - 345	1.00	10.0	$ 91.00	$ 910.00	2.0	$ 28.00	$ 56.00	$ 966.00
OPERATOR - 740	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	1.00	5.0	$ 91.00	$ 455.00	1.0	$ 28.00	$ 28.00	$ 483.00
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	1.00	5.0	$ 91.00	$ 455.00	1.0	$ 28.00	$ 28.00	$ 483.00
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 2,778.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS

DESCRIPTION			QTY	UNIT COST	TOTAL
					$ -
					$ -
TOTAL MATERIAL COSTS					$ -

SUKUT SUBCONTRACTOR COSTS

DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP

DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 4,011.12	15.00%	$ 601.67	$ 4,612.79
TOTAL COST FOR LABORERS AND OPERATORS	$ 2,778.00	0.00%	$ -	$ 2,778.00
TOTAL TAX ON MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR MATERIALS	$ -	0.00%	$ -	$ -
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 7,390.79
BOND COST ADD (1% OF Total)				$ 73.91
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 7,464.70

Change Order Request

Industry Business Center East Side Mass Grading

CHANGE ORDER REQUEST NUMBER:	14.0
DATE WORK COMPLETED	6/22/2015

SUKUT COR WORKSHEET NUMBER	4.0
SUKUT JOB NUMBER	1158

DESCRIPTION OF WORK
Sub Drain In Fill 9

EQUIPMENT

MODEL	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	RATE	AMOUNT OT	TOTAL AMOUNT
CAT 345 EXCAVATOR	1.00	4.00	$ 209.57	$ 838.28	0.0	$ 186.52	$ -	$ 838.28
CAT 740 ARTICULATED TRUCK	0.00	0.00	$ 301.68	$ -	0.0	$ 268.50	$ -	$ -
CAT 950 LOADER	1.00	2.00	$ 146.42	$ 292.84	0.0	$ 130.31	$ -	$ 292.84
CAT D8 DOZER	0.00	0.00	$ 211.39	$ -	0.0	$ 188.14	$ -	$ -
CAT 824 COMPACTOR	0.00	0.00	$ 233.21	$ -	0.0	$ 207.56	$ -	$ -
PICK UP TRUCK	1.00	4.00	$ 21.50	$ 86.00	0.0	$ 19.14	$ -	$ 86.00
TOTAL EQUIPMENT COSTS								$ 1,217.12

LABOR

JOB CLASSIFICATION	QTY	HRS ST	RATE	AMOUNT ST	HRS OT	OT RATE	AMOUNT OT	TOTAL AMOUNT
FOREMAN	1.00	4.0	$ 110.00	$ 440.00	0.0	$ 28.00	$ -	$ 440.00
LABORER	1.00	4.0	$ 67.00	$ 268.00	0.0	$ 20.00	$ -	$ 268.00
OPERATOR - 345	1.00	4.0	$ 91.00	$ 364.00	0.0	$ 28.00	$ -	$ 364.00
OPERATOR - 740	0.00	0.0	$ 91.00	$ -	0.0	$ 29.00	$ -	$ -
OPERATOR - 950	1.00	2.0	$ 91.00	$ 182.00	0.0	$ 28.00	$ -	$ 182.00
OPERATOR - D8	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
OPERATOR - 824	0.00	0.0	$ 91.00	$ -	0.0	$ 28.00	$ -	$ -
				$ -			$ -	$ -
TOTAL LABOR COSTS								$ 1,254.00

MATERIAL LUMP SUM OR UNIT PRICE PAYMENTS

DESCRIPTION			QTY	UNIT COST	TOTAL
SUB DRAIN ROCK		TONS	45	$ 17.28	$ 777.60
SUB DRAIN FABRIC		FT	60	$ 1.02	$ 61.20
TOTAL MATERIAL COSTS					$ 838.80

SUKUT SUBCONTRACTOR COSTS

DESCRIPTION	INVOICE NO.	DATE	VENDOR	UNITS	UNIT COST	TOTAL
						$ -
TOTAL COSTS						$ -

TOTAL COST SUMMARY, STANDARD MARK-UPS AND SUBCONTRACTOR MARK-UP

DESCRIPTION	TOTAL COST	% MARK UP	AMOUNT MARK UP	TOTAL
TOTAL COST FOR EQUIPMENT	$ 1,217.12	15.00%	$ 182.57	$ 1,399.69
TOTAL COST FOR LABORERS AND OPERATORS	$ 1,254.00	0.00%	$ -	$ 1,254.00
TOTAL TAX ON MATERIALS	$ 838.80	9.00%	$ 75.49	$ 75.49
TOTAL COST FOR MATERIALS	$ 914.29	10.00%	$ 91.43	$ 1,005.72
TOTAL COST FOR SUBCONTRACTOR	$ -	0.00%	$ -	$ -
TOTAL FOR THIS CHANGE ORDER				$ 3,734.90
BOND COST ADD (1% OF Total)				$ 37.35
GRAND TOTAL OF THIS CHANGE ORDER REQUEST				$ 3,772.25

SUKUT CONSTRUCTION
GENERAL ENGINEERING CONTRACTORS
4010 Chandler Ave., Santa Ana, CA 92704
(714) 540-5351

70778

DAILY RECORD OF EXTRA WORK

Work performed for SUBDRAIN IN FILL 9

Description of work INSTALLATION OF SUBDRAIN IN FILL 9

Job No. 1158

Cost Code 88.0105

Date 6/17/15

Report No. 1 of 1

EQUIP. NO. LABOR-TYPE	LABOR OR EQUIPMENT (Note all accessories)	HOURS TOTAL / O.T.	RATE REG / O.T.	EXTENDED AMOUNTS
1	CAT 345	10 / 2		
1	CAT 740	10 / 2		
1	CAT 950	10 / 2		
1	LABORER	10 / 2		
1	LABORER	8 / 0		
1	FOREMAN	10 / 2		
		SUB TOTAL		

MATERIALS & OTHER ITEMS	NO. UNITS	UNIT COST	
SUBDRAIN ROCK	200 TONS		
4" PERFORATE PIPE	300 FT		
SUBDRAIN FABRIC	600 FT		

Comment:		
	Total this report	
	Total previous report	
	Total to date	

The above record is complete and correct.

By _____ FOR CONTRACTOR

Work completed and accepted for payment.

By _____ 6/15/15 CLIENT OR AUTHORIZED REPRESENTATIVE

CUSTOMER—WHITE OFFICE COPY—CANARY JOB FILE—PINK COPY—GOLDENROD

SUKUT CONSTRUCTION
GENERAL ENGINEERING CONTRACTORS
4010 Chandler Ave., Santa Ana, CA 92704
(714) 540-5351

70780

DAILY RECORD OF EXTRA WORK

Work performed for SUBDRAIN IN FILL 9

Description of work PLACING ROCK AND FIXING FABRIC FOR SUBDRAIN

Job No. 1158

Cost Code 88.0105

Date 6/18/15

Report No. 1 of 1

EQUIP. NO. LABOR-TYPE	LABOR OR EQUIPMENT (Note all accessories)	HOURS TOTAL	HOURS O.T.	RATE REG	RATE O.T.	EXTENDED AMOUNTS
1	CAT 345	10	2			
1	CAT 740	10	2			
1	CAT 950	10	2			
1	D8 DOZER	2	0			
1	LABORER	8	0			
1	FOREMAN	10	2			
					SUB TOTAL	

MATERIALS & OTHER ITEMS	NO. UNITS	UNIT COST	

Comment:	Total this report	
	Total previous report	
	Total to date	

The above record is complete and correct.

By _____ FOR CONTRACTOR

Work completed and accepted for payment.

By _____ 6/19/15 CLIENT OR AUTHORIZED REPRESENTATIVE

CUSTOMER—WHITE OFFICE COPY—CANARY JOB FILE—PINK COPY—GOLDENROD

SUKUT CONSTRUCTION
GENERAL ENGINEERING CONTRACTORS
4010 Chandler Ave., Santa Ana, CA 92704
(714) 540-5351

70781

DAILY RECORD OF EXTRA WORK

Work performed for SUBDRAIN IN FILL 9

Description of work FIX FABRIC AND LAY ROCK

Job No. 1158

Cost Code

Date 6/19/15

Report No. 1 of 1

EQUIP. NO. LABOR-TYPE	LABOR OR EQUIPMENT (Note all accessories)	HOURS TOTAL	HOURS O.T.	RATE REG	RATE O.T.	EXTENDED AMOUNTS
1	CAT 345	10	2			
1	CAT 950	5	1			
1	CAT 824	5	1			
1	LABORER	4	0			
1	FOREMAN	5	1			
					SUB TOTAL	

MATERIALS & OTHER ITEMS	NO. UNITS	UNIT COST	

Comment:		
	Total this report	
	Total previous report	
	Total to date	

The above record is complete and correct.

By _____ FOR CONTRACTOR

Work completed and accepted for payment.

By _____ CLIENT OR AUTHORIZED REPRESENTATIVE

CUSTOMER—WHITE OFFICE COPY—CANARY JOB FILE—PINK COPY—GOLDENROD

SUKUT CONSTRUCTION
GENERAL ENGINEERING CONTRACTORS
4010 Chandler Ave., Santa Ana, CA 92704
(714) 540-5351

70782

DAILY RECORD OF EXTRA WORK

Work performed for: SUBDRAIN IN FILL 9

Description of work: LAY FABRIC AND ROCK

Job No. 1158

Cost Code

Date 6/22/15

Report No. 1 of 1

EQUIP. NO. LABOR-TYPE	LABOR OR EQUIPMENT (Note all accessories)	HOURS TOTAL / O.T.	RATE REG / O.T.	EXTENDED AMOUNTS
1	CAT 345	4 / 0		
1	CAT 950	2 / 0		
1	LABORER	4 / 0		
1	FOREMAN	4 / 0		
			SUB TOTAL	

MATERIALS & OTHER ITEMS	NO. UNITS	UNIT COST	
SUBDRAIN ROCK	45 TON		
SUBDRAIN FABRIC	60 FT		

Comment:		
	Total this report	
	Total previous report	
	Total to date	

The above record is complete and correct.

By _____ FOR CONTRACTOR

Work completed and accepted for payment.

By _____ 6/23/15 CLIENT OR AUTHORIZED REPRESENTATIVE

CUSTOMER—WHITE OFFICE COPY—CANARY JOB FILE—PINK COPY—GOLDENROD

SC COR Number: 18.0
SC Job Number: 1158

Date: 7/31/2015

Owner: Successor Agency to the Industry Urban-Development Agency
C/o CNC Engineering
255 N. Hacienda Blvd. Suite 201
City of Industry, CA 91744

Attn: Gerardo Perez

Project: IBC East - 0380

Subject: COR 18.0 - Temporary Water Storage Pond

Mr. Perez,

Please see the following breakdown of change order request number 18.0.

Item:	Description:	Qty:	Unit:		Price:		Total:
1.0	Construct Temporary Lined Pond	1	LS	$	28,500.00	$	28,500.00
2.0	Move Pumps to New pond	1	LS	$	5,200.00	$	5,200.00
3.0	Temporary Fence Around Pond	1	LS	$	3,000.00	$	3,000.00
				Total Amount this Request:		**$**	**36,700.00**
ALT 1	Install Mirafi Filter Fabric Padding	1	LS	$	8,600.00	$	~~8,600.00~~

OL
GP

This change order request includes all added labor, equipment, and material costs associated with the construction of a temporary water storage pond in Fill 9 to facilitate the continued dewatering of the wet removal area of Fill 9. The temporary pond will be approximately 75'x100' and will be lined with 20 mil PVC. This change order does not include any rental of pumps, generators, or other equipment to maintain the dewatering effort. This change order does not include any maintenance or removal of the temporary pond. Alternate item 1 includes the placement of two layers of mirafi 140N filter fabric to protect the 20 mil PVC liner from puncture damage.

Thank you,

Bryan Nesthus

Sukut Construction

SUKUT CONSTRUCTION, INC.
4010 W. Chandler Avenue □ Santa Ana, CA 92704-5202
Tel: 714.540.5351 □ Fax: 714.545.2438 □ www.sukut.com
Contractor's License No. 554278

AccuGeo

SPECIFICATION SHEET
Toll Free (800) 955-4637 www.AccuGeo.com
Ph. (661) 321-0447 Fax (661) 321-0449
321 Industrial St. Bakersfield, CA 93307

Polyvinyl Chloride (PVC)

Property	Test Method	Values				
CERTIFIED PROPERTIES						
Thickness (mils nominal)	ASTM 5199	10	20	30	40	60
Thickness, min.	ASTM D792	.0095"	.019"	.0285"	.038"	.057"
Min. Tensile Properties						
1. Strength at Break	ASTM D882, Min (MD & TD)	24 lbs/in.	48 lbs/in.	73 lbs/in.	97 lbs/in.	137 lbs/in.
2. Elongation at Break (%)	ASTM D882	250%	360%	380%	430%	450%
3. Modulus @ 100% Elongation	ASTM D882	10 lbs/in.	21 lbs/in.	32 lbs/in.	40 lbs/in.	60 lbs/in.
Tear Strength (min. average lbs)	ASTM D 1004	2.5	6	8	10	15
Dimensional Stability	ASTM D1204, Max Chg (MD & TD)	4%	4%	3%	3%	3%
Low Temperature Impact	ASTM D1790, Pass	-10° F	-15° F	-20° F	-20° F	-20° F
INDEX PROPERTIES						
Specific Gravity	ASTM D792, Typical	1.2	1.2	1.2	1.2	1.2
Water Extraction (Max. % wt loss)	ASTM D1239	0.15%	0.15%	0.15%	0.20%	0.20%
Average Plasticizer Molecular Weight	ASTM D2124	400	400	400	400	400
Volatile Loss (Max % wt loss)	ASTM D1203	1.5%	0.9%	0.7%	0.5%	0.5%
Resistance to Soil Burial (%Δ max in original value)						
1. Breaking Factor	ASTM G160	5%	5%	5%	5%	5%
2. Elongation at Break (%)	ASTM G160	20%	20%	20%	20%	20%
3. Modulus (Force) @ 100% Elongation	ASTM G160	20%	20%	20%	20%	20%
Hydrostatic Resistance (lbs/sq.in. min)	ASTM D751	42 psi	68 psi	100 psi	120 psi	180 psi
SEAM REQUIREMENTS						
Factory Seaming Method		Dielectric Fusion Weld				
Shear Strength (lbs/in min)	ASTM D3083	20 lbs/in	38.4 lbs/in	58.4 lbs/in	77.6 lbs/in	116 lbs/in
Peel Adhesion (lbs/in min)	ASTM D413	10 lbs/in	12.5 lbs/in	15 lbs/in	15 lbs/in	15 lbs/in

All information, recommendations and suggestions appearing in this literature concerning the use of our products are based upon test and data believed to be reliable; however, it is the user's responsibility to determine the suitability for their own use of the products described herein. Since the actual use by others is beyond our control, no guarantee or warranty of any kind, expressed or implied, is made by AccuGeo Liner, Inc. as to the effects of such use or the results to be obtained, nor does AccuGeo Liner, Inc. assume any liability in connection herewith. Any Statement made herein may not be absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations. Nothing herein contained is to be construed as permission or as a recommendation to infringe any patent.

SUCCESSOR AGENCY

ITEM NO. 5.3

SUCCESSOR AGENCY TO THE

INDUSTRY URBAN - DEVELOPMENT AGENCY

MEMORANDUM

To: Honorable Chairman and Members of the Successor Agency to the Industry Urban-Development Agency Board

From: Paul J. Philips, Executive Director Paul J. Philips

Staff: Clement N. Calvillo, CNC Engineering CNC
Joshua Nelson, CNC Engineering JN

Date: October 14, 2015

SUBJECT: Industry Business Center Phase 2 Mass Grading, West Side – IBC-0381

At the direction of the Successor Agency staff, CNC Engineering prepared plans, specifications and cost estimates for the above project. The project was advertised on July 23, 2015 as Contract No. IBC-0381, per the prior approval of the Successor Agency Board. On September 10, 2015, five (5) bids were received with the low apparent low bid by C.A. Rasmussen in the amount of $27,394,476.00. The bids were reviewed and a bid discrepancy was found in the apparent low bid.

During the Successor Agency meeting on September 24, 2015, David Cruce, Area Manager for Papich Construction spoke regarding staff's recommendation to reject all bids and authorize the solicitation of re-bids. The board requested that this matter be continued to the next scheduled Successor Agency meeting.

Background: This project is one of several independent contracts that together comprise Line Item No. 217, entitled "Mass Grading, Infrastructure and Landscaping" on the Recognized Obligation Payment Schedule for the Industry Business Center ("IBC") Project. The Total Outstanding Debt or Obligation for Line Item No. 217 on ROPS 15-16B is $5,7433,319.00. This contract has been assigned a new Line Item No. 289 with the payee listed as "Contractor - by public bidding".

Staff's original goal was to have this project bid and awarded in time for the Contractor to be listed in ROPS 15-16B. However, due to a bid discrepancy staff recommends that the board reject all bids and authorize rebidding of the Contract No. IBC-0384.

This phase of construction will finish the remedial grading that needs to be performed at the southwesterly area of the development, on the property located westerly of Grand Avenue. This contract will remove deep sections of unstable native soil (existing and potential landslide areas) and then place and compact the soil material within the same area, creating an "engineered fill". This type of engineered fill is called a buttress. This buttress was first started in 2005 with the Area C Slope Stabilization project and was

continued with the Far West Grading project that is under construction currently. The final piece that is included with this project had to wait until Southern California Edison removed their large towers which we expect to be complete by early next year. The volume of material that will be removed to reach the bottom of the buttress is roughly 350,000 cubic yards.

This project also includes the rest of the grading along the west side of Grand Avenue. The grading will also create the final slopes going up to the development pad. In these areas we will be constructing bench drains, down drains and the final storm drains. The project also includes improvements such as a small amount of paving, fencing, access gates and the installation of erosion control measures to deal with sediment in runoff during storm events. The total amount of dirt to move for the final pads is approximately 8,000,000 cubic yards.

Recommendation: Upon review of the bids received, it is staff's recommendation that the Successor Agency Board reject all bids and authorize rebidding the project as IBC-0381R with the revised engineer's estimate of $27,400,000.00.

PP/CC/JN/:af

ESTIMATE FOR:

SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY

PROJECT NO. 381

INDUSTRY BUSINESS CENTER, PHASE 2 MASS GRADING, MIDDLE WEST SIDE

CONTRACT NO. IBC-0381R

ENGINEER'S ESTIMATE
$27,400,000.00

CNC ENGINEERING COST ESTIMATE SHEET 255 N. Hacienda Blvd., Suite 222 Industry, CA 91744 Tel: (626) 333-0336 Fax: (626) 369-4306	DATE PREPARED: 7/15/2015	JOB NO.: IBC-0381R	
	ENGINEER/ DESIGNER: J. Nelson	ESTIMATOR: J. Nelson	CHECKED BY: J. Nelson

PROJECT NAME: **Industry Business Center Phase 2 Mass Grading, West Side**

SCOPE OF WORK/PROJECT DESCRIPTION: **Removal of unstable soild and replace it with engineered compacted fill; mass grading consisting of unclassified excavation and unclassified fill; slope drainage systems consisting of bench drains, down drains and inlet structures; construction of curbs, gutters, pavement and construction of storm drain systems.**

ITEM NO.	DESCRIPTION OF ITEM	QUANTITY NO. UNITS	QUANTITY UNIT MEAS.	UNIT PRICE	TOTAL COST
SCHEDULE A - GENERAL CIVIL WORK AND EARTHWORK					
1.	Mobilization	1	LS	$2,380,000.00	$2,380,000.00
2.	Clearing & grubbing	110	ACRES	$1,360.00	$149,600.00
3.	Remove asphalt pavement by cold milling and place along access roads	32,900	SF	$0.20	$6,580.00
4.	Remove chain link fence and salvage for owner	720	LF	$4.00	$2,880.00
5.	Remove concrete curb and gutter	890	LF	$2.50	$2,225.00
6.	Remove storm drains				
A.	18" CMP	2,000	LF	$5.50	$11,000.00
B.	24" CMP	3,700	LF	$6.00	$22,200.00
C.	36" CMP	260	LF	$11.00	$2,860.00
D.	18" HDPE	160	LF	$18.00	$2,880.00
E.	36" RCP	50	LF	$42.00	$2,100.00
7.	Remove splash wall	3	EA	790.00	$2,370.00
8.	Remove debris basin structure	2.0	EA	$900.00	$1,800.00
9.	Remove concrete slope protection from debris basin	2,160	SF	$1.25	$2,700.00
10.	Remove flared inlet/outlet	9	EA	$620.00	$5,580.00
11.	Remove outlet/inlet structure	14	EA	$540.00	$7,560.00
12.	Remove CMP riser inlet	11	EA	$430.00	$4,730.00
13.	Remove concrete down drain	150	LF	$61.00	$9,150.00
14.	Unclassified excavation for buttress including placement of this material as unclassified compacted fill	346,500	CY	$1.50	$519,750.00
15.	Remove concrete gutter	3,510	LF	$3.00	$10,530.00
16.	Over excavation and recompaction for general areas and building areas – outside of buttress grading limits	2,400,000	CY	$1.41	$3,384,000.00
17.	Unclassified excavation including placement as unclassified compacted fill (payment for this item will be based on field survey of the excavation areas. This bid item excludes the buttress excavation and over excavation and recompaction areas)	5,814,000	CY	$1.50	$8,721,000.00
18.	Geogrid material, Tensar BX1100	1	LS	$10,000.00	$10,000.00
19.	6" solid pipe subdrain	2,542	LF	$11.00	$27,962.00
20.	Bore 6" solid pipe subdrain	973	LF	$35.00	$34,055.00

CNC ENGINEERING

COST ESTIMATE SHEET

255 N. Hacienda Blvd., Suite 222
Industry, CA 91744
Tel: (626) 333-0336
Fax: (626) 369-4306

DATE PREPARED:	JOB NO.:	
7/15/2015	IBC-0381R	
ENGINEER/ DESIGNER:	ESTIMATOR:	CHECKED BY:
J. Nelson	J. Nelson	J. Nelson

PROJECT NAME: **Industry Business Center Phase 2 Mass Grading, West Side**

SCOPE OF WORK/PROJECT DESCRIPTION: **Removal of unstable soild and replace it with engineered compacted fill; mass grading consisting of unclassified excavation and unclassified fill; slope drainage systems consisting of bench drains, down drains and inlet structures; construction of curbs, gutters, pavement and construction of storm drain systems.**

ITEM NO.	DESCRIPTION OF ITEM	QUANTITY NO. UNITS	QUANTITY UNIT MEAS.	UNIT PRICE	TOTAL COST
21.	4" perforated pipe subdrain	2,255	LF	$15.00	$33,825.00
22.	Finish grading				
A.	Permanent terraced slopes	47	ACRES	$5,400.00	$253,800.00
B.	Site, roadways, pads, less the permanent terraced slopes	158	ACRES	$4,500.00	$711,000.00
23.	Construct terrace drain - 23' wide per Detail "8" on Details Sheet D1 including AC, PCC pavement & CAB	5,067	LF	$85.00	$430,695.00
24.	Break unforeseen 36" or larger rock using CAT-350 excavator with breaker or equivalent	15	DAY	$3,600.00	$54,000.00
25.	Construct downdrain per detail "2" of Details Sheet D1	3,174	LF	$42.00	$133,308.00
26.	Construct terrace drain - 10' wide per Detail "3" on Details Sheet D1	24,742	LF	$35.00	$865,970.00
27.	Construct splash wall	60	LF	$26.00	$1,560.00
28.	Construct concrete V-gutter Type A	790	LF	$21.00	$16,590.00
29.	Construct concrete V-gutter Type B	2,680	LF	$25.00	$67,000.00
30.	Construct area drain inlet	28	EA	$3,200.00	$89,600.00
31.	Construct 12 gauge, 18" corrugated metal pipe (CMP) including anchors, joints and fittings	2,293	LF	$80.00	$183,440.00
32.	Construct 12 gauge, 24" corrugated metal pipe (CMP) including anchors, joints and fittings	859	LF	$90.00	$77,310.00
33.	Construct 12 gauge, 36" corrugated metal pipe (CMP) including anchors, joints and fittings	1,968	LF	$110.00	$216,480.00
34.	Construct 24" RCP (2000d)	335	LF	$120.00	$40,200.00
35.	Construct 54" RCP (D-load per plan)	198	LF	$530.00	$104,940.00
36.	Construct 54" x 42" velocity control rings	7	EA	$3,800.00	$26,600.00
37.	Construct pipe anchors for 54" RCP per APWA Standard Plan 221-2	9	EA	$1,700.00	$15,300.00
38.	Junction Structure – per APWA Standard Plan 332-2 (18"x24")	4	EA	$2,400.00	$9,600.00
39.	Junction Structure – per APWA Standard Plan 332-2 (18"x48")	6	EA	$2,400.00	$14,400.00
40.	Junction Structure – per APWA Standard Plan 332-2 (24"x36")	1	EA	$2,400.00	$2,400.00
41.	Junction Structure – per APWA Standard Plan 332-2 (18"x36")	2	EA	$2,400.00	$4,800.00
42.	Junction Structure – per APWA Standard Plan 332-2 (18"x18")	2	EA	$2,400.00	$4,800.00
43.	Junction Structure – per APWA Standard Plan 332-2 (36"x48")	1	EA	$2,400.00	$2,400.00

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ITEM NO.	DESCRIPTION OF ITEM	QUANTITY NO. UNITS	QUANTITY UNIT MEAS.	UNIT PRICE	TOTAL COST
44.	Junction Structure – per APWA Standard Plan 332-2 (24"x24")	1	EA	$2,400.00	$2,400.00
45.	Junction Structure – per APWA Standard Plan 332-2 (18"x60")	5	EA	$2,400.00	$12,000.00
46.	Junction Structure – per APWA Standard Plan 332-2 (18"x72")	1	EA	$2,400.00	$2,400.00
47.	Junction Structure – per APWA Standard Plan 331-3 (36"x36")	1	EA	$4,100.00	$4,100.00
48.	Junction Structure – per APWA Standard Plan 331-3 (36"x72")	1	EA	$4,100.00	$4,100.00
49.	Junction Structure – per APWA Standard Plan 331-3 (24"x72")	2	EA	$4,100.00	$8,200.00
50.	Junction Structure – per APWA Standard Plan 331-3 (36"x48")	2	EA	$4,100.00	$8,200.00
51.	Junction Structure – per APWA Standard Plan 331-3 (36"x60")	3	EA	$4,100.00	$12,300.00
52.	Junction Structure – per APWA Standard Plan 331-3 (18"x18")	1	EA	$4,100.00	$4,100.00
53.	Construct driveway per City of Industry Standard Plan 114 including base material	224	SF	$14.00	$3,136.00
54.	Construct chain link fence per APWA Standard Plan 600-3 including gates	1,796	LF	$35.00	$62,860.00
55.	Construct 24" concrete collar per APWA Standard Plan 380-4	6	EA	$2,400.00	$14,400.00
56.	Construct 54" concrete collar per APWA Standard Plan 380-4	2	EA	$2,700.00	$5,400.00
57.	Construct downdrain connection to 10' terrace drain per Detail "1" on Details Sheet D1 including splash wall	66	EA	$580.00	$38,280.00
58.	Construct downdrain connection to 10' Terrace drain per Detail "11" on Details Sheet D2	7	EA	$7,700.00	$53,900.00
59.	Construct downdrain connection to 23' Terrace Drain per Detail "12" on Details Sheet D2 including spillway structure, 24" RCP 2000-D, grate assembly, splash wall and inlet structure	8	EA	$7,800.00	$62,400.00
60.	Construct downdrain inlet per Detail "13" on Details Sheet D2	6	EA	$9,000.00	$54,000.00
61.	Construct asphalt concrete pavement	1,312	TONS	$75.00	$98,400.00
62.	Construct crushed aggregate base material (or Caltrans Class II aggregate base per special provisions)	2,937	TONS	$20.00	$58,740.00
63.	Connection downdrain connection to v-gutter connection per Detail "10" on Details Sheet D2, including splash wall	4	EA	$330.00	$1,320.00

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PROJECT NAME: **Industry Business Center Phase 2 Mass Grading, West Side**

SCOPE OF WORK/PROJECT DESCRIPTION: **Removal of unstable soild and replace it with engineered compacted fill; mass grading consisting of unclassified excavation and unclassified fill; slope drainage systems consisting of bench drains, down drains and inlet structures; construction of curbs, gutters, pavement and construction of storm drain systems.**

ITEM NO.	DESCRIPTION OF ITEM	QUANTITY NO. UNITS	QUANTITY UNIT MEAS.	UNIT PRICE	TOTAL COST
64.	Construct curb per City of Industry Standard Plan 112, Type A1, 6" or 0" CF where shown including base material	2,660	LF	$11.00	$29,260.00
65.	60" CMP inlet per Detail 9	14	EA	$9,800.00	$137,200.00
66.	Construct transition structure per APWA Standard Plan 340-2	2	EA	$4,200.00	$8,400.00
67.	Brick mortar water tight plug	5	EA	$1,600.00	$8,000.00
68.	Headwall per FHWA Standard Plan 601-4	1	EA	$8,100.00	$8,100.00
69.	Construct 18" CSP flared inlet per APWA Standard Plan 351-2	2	EA	$1,100.00	$2,200.00
70.	Load, haul, spread and compact AC grindings onto the equipment/access roads from on-site stockpile	7,500	CY	$4.00	$30,000.00
71.	Construct 24" CSP flared inlet per APWA Standard Plan 351-2	1	EA	$1,200.00	$1,200.00
72.	Storm Water Pollution Prevention Plan, including but not limited to implementation, sampling/testing, and BMPs not included in other bid items	1	LS	$400,000.00	$400,000.00
73.	Hydroseeding for post construction, per CASQA BMP Fact Sheet EC-4 (excluding permanent terraced slopes)	150	ACRE	$1,830.00	$274,500.00
74.	Remove, salvage and stockpile AC grindings from existing equipment road	7,500	CY	$3.50	$26,250.00
75.	Settlement monuments per soils reports	10	EA	$550.00	$5,500.00
76.	Construct concrete flared end section per Caltrans Standard Plan D94B	1	EA	$15,200.00	$15,200.00
				Schedule A - Subtotal	$20,139,976.00
SCHEDULE B - STORM DRAIN (PBLA DRAWINGS)					
1.	18" RCP, 2000-D	1,983	LF	$70.00	$138,810.00
2.	24" RCP, 1250-D	182	LF	$80.00	$14,560.00
3.	36" RCP, 2750-D	1,457	LF	$130.00	$189,410.00
4.	48" RCP, 1400-D	2,856	LF	$190.00	$542,640.00
5.	60" RCP, 1900-D	2,509	LF	$300.00	$752,700.00
6.	72" RCP, 2350-D	1,779	LF	$420.00	$747,180.00
7.	Manhole per APWA Standard Plan 321-2	2	EA	$4,900.00	$9,800.00
8.	Manhole per APWA Standard Plan 320-2	21	EA	$8,200.00	$172,200.00
9.	Manhole per APWA Standard Plan 322-2	1	EA	$8,900.00	$8,900.00

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PROJECT NAME: **Industry Business Center Phase 2 Mass Grading, West Side**

SCOPE OF WORK/PROJECT DESCRIPTION: **Removal of unstable soild and replace it with engineered compacted fill; mass grading consisting of unclassified excavation and unclassified fill; slope drainage systems consisting of bench drains, down drains and inlet structures; construction of curbs, gutters, pavement and construction of storm drain systems.**

ITEM NO.	DESCRIPTION OF ITEM	QUANTITY NO. UNITS	QUANTITY UNIT MEAS.	UNIT PRICE	TOTAL COST
10.	Junction structure – per APWA Standard Plan 332-2 (60"X18")	4	EA	$3,000.00	$12,000.00
11.	Junction structure – per APWA Standard Plan 332-2 (48"X18")	4	EA	$3,000.00	$12,000.00
12.	Junction structure – per APWA Standard Plan 332-2 (36"X18")	2	EA	$6,000.00	$12,000.00
13.	Concrete collar (18") per APWA Standard Plan 380-4	7	EA	$2,100.00	$14,700.00
14.	Concrete brick and mortar plug	1	LS	$2,000.00	$2,000.00
15.	Flared end section (18" Pipe) Type B per Caltrans Standard Plan D94A	1	EA	$1,000.00	$1,000.00
16.	Concrete pipe slope anchor (18" Pipe) per APWA Standard Plan 221-2	6	EA	$1,600.00	$9,600.00
17.	Energy dissipator per APWA Standard Plan 384-3 on Sheet 3, L=27, W=22	1	EA	$124,000.00	$124,000.00
18.	Energy dissipator per APWA Standard Plan 384-3 on Sheet 12, L=20, W=12	1	EA	$61,000.00	$61,000.00
				Schedule B - Subtotal	$2,824,500.00
SCHEDULE C - COST TO DEFER THE START OF CONSTRUCTION					
1.	Monthly cost to defer the start of construction beyond January 4, 2016	6	MO	$5,000.00	$30,000.00
				Schedule C - Subtotal	$30,000.00
	TOTAL				$22,994,476.00
	ENGINEER'S ESTIMATE				$23,000,000.00
	CONTINGENCY FOR UNFORSEEN CONDITONS				$4,400,000.00
	GRAND TOTAL				**$27,400,000.00**

FOR PUBLICATION

NOTICE INVITING SEALED BIDS FOR:

SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY PROJECT NO. 381

INDUSTRY BUSINESS CENTER, PHASE 2 MASS GRADING, MIDDLE WEST SIDE

CONTRACT NO. IBC-0381R

The **SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY**, hereinafter referred to as the **AGENCY**, will receive sealed bids for the construction of the above project until **10:00 A.M.** on **November 17, 2015**, in the City Administrative Office, located at 15625 East Stafford Street in the City of Industry, California 91744. All bids will be opened and read in public immediately thereafter.

If a sealed bid is to be mailed, it must be mailed to the City Administrative Office, Post Office Box 3366, City of Industry, California 91744.

It is the responsibility of the bidder to be sure the sealed bid is in the possession of the City Clerk, City of Industry, prior to the date and time indicated.

At the time of submission of the bid and thereafter, each bidder must be licensed as a **Class A or Class C-21 with appropriate subcontractors** as defined in Sections 7055-7058 of the Business and Professions Code. Each bidder shall set forth on the Bidder's Information Sheet and the Contractor's License Affidavit the classification and number of the requisite license which that bidder holds.

The **AGENCY** reserves the right to award the contract to the contractor with another license class if the **AGENCY** determines that the license class is proper for the proposed work.

A contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in this chapter, unless currently registered and qualified to perform public work pursuant to Section 1725.5. ***Please note:*** *It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded.* Any bids submitted without proof that bidder and any listed subcontractor(s) are currently registered and qualified to perform public work, pursuant to Labor Code Section 1725.5, may not be accepted by the City.

(Continued)

The Scope of Work is as follows: Mass grading of 250 acres of hillside area, east of soil and placing it as engineering fill. The project also includes storm drains, bench drains, down drains and asphalt pavement.

Plans and Specifications are available for inspection at the City Administrative Offices, and may be obtained with bid forms at the City Engineering Offices located at 255 North Hacienda Blvd., Suite 222, City of Industry, California 91744.

Two pre-bid job walks will be conducted by the Engineer at the job site on **Wednesday, October 28, 2015** and **Wednesday, November 4, 2015**, both at **11:00 am**. Attendees will meet at an undeveloped pad at the southwesterly corner of Grand Avenue and Baker Parkway. Please be advised that the job walk will involve driving your vehicle along access roads that are unpaved and sometimes have an uneven surface. All bidders are urged to attend, however if you are unable to attend, the bidder may make other arrangements by contacting CNC Engineering, (626) 333-0336, to see the site. It is not mandatory to attend the job walk, however the Contractor needs to see the site and is required to certify that someone from their firm examined the site, per the statement at the end of the Bid Schedule, in Section C.

There is a non-refundable fee of **$60.00** for each set of plans and specifications. No cash will be accepted. Checks should be made payable to the **SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY**.

(Continued)

SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY
PROJECT NO. 381

INDUSTRY BUSINESS CENTER, PHASE 2 MASS GRADING, MIDDLE WEST SIDE

CONTRACT NO. IBC-0381R

Each bid shall be accompanied by a bid guarantee in the form of a Certified or Cashier's Check or Bidder's Bond for not less than ten percent (10%) of the total amount of the bid, made payable to the **SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY**.

The contractor may, at his own expense, substitute securities for monies to be withheld to ensure performance under the contract.

By the order of the **SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY** dated **October 22, 2015**

_____
Mark D. Radecki, Chairman

SECTION A

SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY
PROJECT NO. 381

INDUSTRY BUSINESS CENTER, PHASE 2 MASS GRADING, MIDDLE WEST SIDE

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Two pre-bid job walks will be conducted by the Engineer at the job site on **Wednesday, October 28, 2015** and **Wednesday, November 4, 2015**, both at **11:00 am**. Attendees will meet at an undeveloped pad at the southwesterly corner of Grand Avenue and Baker Parkway. Please be advised that the job walk will involve driving your vehicle along access roads that are unpaved and sometimes have an uneven surface. All bidders are urged to attend, however if you are unable to attend, the bidder may make other arrangements by contacting CNC Engineering, (626) 333-0336, to see the site. It is not mandatory to attend the job walk, however the Contractor needs to see the site and is required to certify that someone from their firm examined the site, per the statement at the end of the Bid Schedule, in Section C.

There is a non-refundable fee of **$60.00** for each set of plans and specifications. No cash will be accepted. Checks should be made payable to the **SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY**.

The bid shall be accompanied by a bid guarantee in the form of a Certified or Cashier's Check or Bidder's Bond for not less than ten percent (10%) of the total amount of the bid, payable to the **SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY**. The bid guarantee is to insure that the bidder, if awarded the work, will enter into a contract with the AGENCY. Failure of a contractor to enter into a contract within ten (10) days following award will cause the bid guarantee to be forfeited.

The SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY may, upon refusal or failure of a successful responsible bidder to accept the contract, award it to the next lowest bidder. If the SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY awards the contract to the second lowest bidder, the amount of the lowest bidder's bid guarantee shall be applied by the SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY to the difference between the low bid and the second lowest bid; the surplus, if any, shall be returned to the lowest bidder if cash is used, or to the surety company if a bond is used.

The successful bidder will be required to furnish a labor and materials bond in an amount equal to one hundred percent (100%) of the contract price and a faithful performance bond in an amount equal to one hundred percent (100%) of the contract price. A maintenance bond equal to ten percent (10%) of the total bid price amount is to remain in force for one (1) year after the date of completion of work, shall be submitted prior to execution of contract. The above bonds shall be secured by a surety company satisfactory to the SUCCESSOR AGENCY TO THE INDUSTRY URBAN-

DEVELOPMENT AGENCY, and licensed as a Surety Insurer in the State of California and rated at least B+:V in the latest "Best's Insurance Guide." The attached bond forms shall be used without exception.

CONTRACTOR

LIABILITY INSURANCE

Contractor shall obtain and maintain at all times during the term of this agreement Comprehensive General Liability insurance protecting Contractor in amounts not less than $1,000,000.00 and Automobile Liability Insurance protecting Contractor in amounts not less than $1,000,000.00. If an umbrella or excess coverage is in effect, it must follow the form of the underlying coverage. Such insurance shall name CNC Engineering; City of Industry; Successor Agency to the Industry Urban-Development Agency; Civic-Recreational-Industrial Authority DBA Industry Hills Recreation and Conference Center; Majestic Industry Hills, LLC; Parking Authority of the City of Industry; City of Industry Waterworks System; Industry Hills Recreation and Conference Center; and their Officers, Employees, Elected Officials and Members of Boards or Commissions as additional insured parties. Coverage shall be in accordance with the sample certificates and endorsements attached hereto and <u>must include</u> the coverage and provisions indicated.

Contractors using the new I.S.O. form of coverage shall include Endorsement #CG25031185, which provides limits for each separate project that is being undertaken by said contractor.

Contractor shall file and maintain the required certificate(s) of insurance with the Lessor to this agreement at all times during the term of this agreement. The certificate(s) is to be filed prior to the commencement of the work or event and should state clearly:

(1) The additional insured requested.

(2) A minimum of ten (10) days prior written notice of cancellation for non-payment of premium and a minimum of thirty (30) days notice of cancellation for any other reason.

(3) That the insurance is primary to that of the Additional insured.

(4) Included coverage.

(5) Cross-Liability Clause.

WORKER'S COMPENSATION INSURANCE

Contractor shall obtain and maintain at all times during the term of this agreement Worker's Compensation and Employer's Liability insurance and furnish the Additional Insured with a certificate showing proof of such coverage. Insurance company must

waive subrogation rights against the above-named additional insureds. An endorsement to that effect must accompany the certificate of coverage.

INSURANCE COMPANIES

Insurance companies must be admitted in California and rated at least B+:XIII in *Best's Insurance Guide*. Non-admitted insurance companies will be considered if they are rated at least A:XIII or better and have a ratio of 3:1 for premium to policy holder surplus or lower in the latest *Best's Insurance Guide*.

Furnish additional insured with an endorsement waiving subrogation against them by the insurance carrier.

All liability insurance policies shall bear an endorsement or shall have attached a rider whereby it is provided that, in the event of expiration or proposed cancellation of such policies for any reason whatsoever, the SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY shall be notified by registered mail, return receipt requested, giving a sufficient time before the date thereof to comply with any applicable law or statute, but in no event less than 10 days in advance of the effective date of cancellation due to non-payment of premium and not less than 30 days in advance of the effective date of cancellation for any other reason or for a policy change.

Notification for all above insurance items shall be submitted to: City of Industry Engineering Offices, 255 North Hacienda Blvd., Suite 222, City of Industry, CA 91744, Attention: Rachel Gonzalez. Failure to provide the SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY with written notice of cancellation or any change in required insurance may constitute a material breach of the Contract, in the sole discretion of the SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY, upon which the SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY may suspend or terminate the Contract.

EXPERIENCE AND SAFETY

The successful bidder may be required to submit a statement attesting to its financial responsibility, technical ability, experience and safety record.

PREVAILING WAGES

Pursuant to the provisions of Section 1773 of the Labor Code of the State of California, the contractor is required to pay not less than the general prevailing rate of wages for each craft, classification, or type of workman needed in the execution of the public work under the jurisdiction of the SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY. The general prevailing wages shall be these determined by the Director of the Department of Industrial Relations of the State of California. Copies of the applicable determination by the SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY are on file in the office of the

SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY and are hereby incorporated and made a part hereof the same as though fully set forth herein. Copies of the applicable determination may be obtained at the office of the SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY.

CONTRACTOR REGISTRATION PROGRAM

A contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in this chapter, unless currently registered and qualified to perform public work pursuant to Section 1725.5. ***Please note:*** *It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded.* Any bids submitted without proof that bidder and any listed subcontractor(s) are currently registered and qualified to perform public work, pursuant to Labor Code Section 1725.5, may not be accepted by the City.

LABOR COMPLIANCE MONITORING AND ENFORCEMENT

The project is subject to compliance monitoring and enforcement by the Department of Industrial Relations (California Labor Code Section 1771.4).

AGREEMENT

When the award of a contract is made to a corporation, the Agreement must be signed by the Secretary/Treasurer of the corporation in addition to the signature of the President/Vice President, or the public agency needs to receive a copy of a resolution adopted by the Board of Directors of the corporation indicating that the party executing the contract has the authority to bind the corporation.

SURETY BONDS

All surety bonds issued in connection with projects for public works must be accompanied by a power of attorney from the surety company authorizing the person executing the bond to sign on behalf of the company. The bonds must also be acknowledged by a Notary Public to the effect that the signature by the surety's representative is that of the person designated in the Power of Attorney.

By the order of the **SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY** dated **October 22, 2015**.

_____

Mark D. Radecki, Chairman

SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY
IMPROVEMENT PROJECT NO. 381R

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE
CONTRACT NO. IBC-0381R

GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION WITH ALL CURRENT SUPPLEMENTS PUBLISHED BY THE BUILDING NEWS INC., AND APPROPRIATE STANDARD DRAWINGS, EXCEPT AS OTHERWISE NOTED ON THE PLAN OR IN THE PROJECT SPECIFICATIONS.
3. ALL WORK COVERED BY THIS PLAN SHALL BE INSPECTED BY THE CITY ENGINEER. REQUEST FOR INSPECTION SERVICE SHALL BE MADE 24 HOURS IN ADVANCE AT (626) 333-0336.
4. THE SOILS ENGINEER SHALL OBSERVE, INSPECT AND TEST ALL EARTHWORK OPERATIONS INCLUDING, BUT NOT LIMITED TO, CLEARING AND GRUBBING, SUBGRADE PREPARATION, TRENCH EXCAVATION AND BACKFILL, UNCLASSIFIED EXCAVATION AND UNCLASSIFIED FILL.
5. EXISTING CONCRETE AND ASPHALT CONCRETE TO BE REMOVED SHALL BE DONE BY SAW CUTTING, FULL DEPTH TO A TRUE LINE.
6. 48 HOURS PRIOR TO EXCAVATION, THE CONTRACTOR SHALL CALL THE UNDERGROUND SERVICE ALERT AT 1 (800) 422-4133 AND OBTAIN AN INQUIRY IDENTIFICATION NUMBER.
7. THE CONTRACTOR SHALL PROTECT AND RESTORE EXISTING UTILITIES AND IMPROVEMENTS AS PER SECTION 5-1, 5-2, AND 7-9 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
8. ACTUAL LOCATION AND EXISTENCE OF UTILITY STRUCTURES, SUCH AS VALVES, MANHOLES, AND LINES SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
9. PERMANENT CUT AND FILL SLOPES SHALL NOT EXCEED A SLOPE OF TWO HORIZONTAL TO ONE VERTICAL.
10. THE CONTRACTOR SHALL PROVIDE PROTECTIVE MEASURES AND TEMPORARY DRAINAGE AND DESILTING FACILITIES TO PROTECT ADJOINING PROPERTIES FROM STORM WATERS ORIGINATING ON OR DIVERTED FROM THE CONSTRUCTION SITE.
11. A COPY OF ALL GRADE SHEETS SHALL BE MAINTAINED AT THE JOB SITE FOR THE CITY ENGINEER'S REVIEW.
14. THE CONTRACTOR SHALL KEEP ALL ADJACENT STREETS AND HAUL ROUTES CLEAR OF DIRT AND DEBRIS ORIGINATING FROM THE CONSTRUCTION SITE OR RESULTING FROM THE PROJECT.
15. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING LOW LEVELS OF NOISE AND DUST. THE CONTRACTOR SHALL SUBMIT A "RULE 403.- LARGE GRADING OPERATION NOTIFICATION" TO AQMD FOR FUGITIVE DUST CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL AQMD REQUIREMENTS INCLUDING THE INSTALLATION OF THE APPROPRIATE CONSTRUCTION SITE SIGNAGE.
16. THE CONTRACTOR SHALL SECURE ALL NECESSARY EXCAVATION AND CONSTRUCTION PERMITS FROM THE CITY OF INDUSTRY FOR ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY AND ASSOCIATED EASEMENTS.
17. SEPARATE PLANS FOR TEMPORARY DRAINAGE AND EROSION CONTROL MEASURES TO BE USED DURING THE RAINY SEASON MUST BE SUBMITTED TO AND ACCEPTED BY THE CITY OF INDUSTRY. THE EROSION CONTROL DEVICES SHOWN ON SAID PLANS MUST BE MAINTAINED IN OPERABLE CONDITION.
18. ANY MODIFICATIONS OR OR CHANGES TO THIS PLAN MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO THE INSTITUTION OF SAID MODIFICATIONS OR CHANGES.

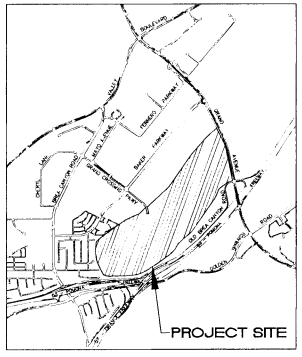
2004 EIR MITIGATION 5.2-1

THE CONSTRUCTION CONTRACTOR SHALL IMPLEMENT THE FOLLOWING MEASURES DURING GRADING AND CONSTRUCTION:

- USE LOW EMISSION MOBILE CONSTRUCTION EQUIPMENT.
- MAINTAIN CONSTRUCTION EQUIPMENT ENGINES BY KEEPING THEM TUNED.
- USE LOW SULFUR FUEL FOR STATIONARY CONSTRUCTION EQUIPMENT.
- UTILIZE EXISTING POWER SOURCES (I.E., POWER POLES) WHEN FEASIBLE.
- CONFIGURE CONSTRUCTION PARKING TO MINIMIZE TRAFFIC INTERFERENCE.
- MINIMIZE OBSTRUCTION OF THROUGH-TRAFFIC LANES. WHEN FEASIBLE, CONSTRUCTION SHOULD BE PLANNED SO THAT LANE CLOSURES ON EXISTING STREETS ARE KEPT TO MINIMUM.
- SCHEDULE CONSTRUCTION OPERATIONS AFFECTING TRAFFIC FOR OFF-PEAK HOURS.
- DEVELOP A TRAFFIC PLAN TO MINIMIZE TRAFFIC FLOW INTERFERENCE FROM CONSTRUCTION ACTIVITIES (THE PLAN MAY INCLUDE ADVANCE PUBLIC NOTICE OF ROUTING, USE OF PUBLIC TRANSPORTATION AND SATELLITE PARKING AREAS WITH A SHUTTLE SERVICE).
- USE LOW VOC COATING AND SOLVENTS OR ATTAIN SIMILAR EMISSIONS REDUCTIONS BY LIMITING THE NUMBER OF GALLONS APPLIED PER DAY.

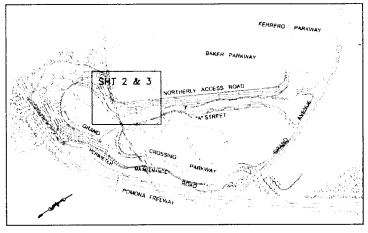
NOTICE TO CONTRACTOR

APPROVAL OF THIS PLAN BY THE CITY ENGINEER DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OF OR THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS.



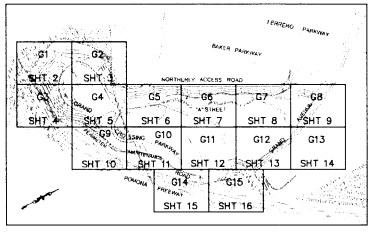
VICINITY MAP

NOT TO SCALE
THOMAS GUIDE 639-J7
THOMAS GUIDE 679-H1, H2, J1 & J2
THOMAS GUIDE 680-A1



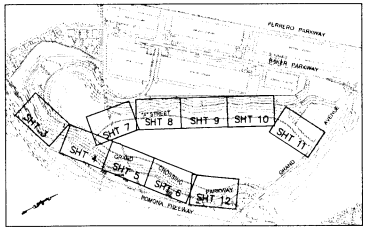
REMEDIAL GRADING INDEX MAP

NOT TO SCALE



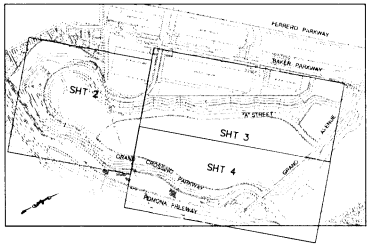
GRADING PLAN INDEX MAP

NOT TO SCALE



STORM DRAIN INDEX MAP

NOT TO SCALE



WATER POLLUTION CONTROL PLANS

NOT TO SCALE

TABLE OF DRAWINGS

CONTRACT DWG. NO.	SHEET NO.	DESCRIPTION
		GENERAL INFORMATION
1 OF 41	1 OF 2	PROJECT TITLE SHEET, VICINITY MAP, DRAWING INDEX MAPS, GENERAL NOTES, TABLE OF DRAWINGS, NOTICE TO CONTRACTOR
2 OF 41	2 OF 2	EXISTING SITE CONDITIONS AND FEATURES
		REMEDIAL GRADING
3 OF 41	1 OF 4	TITLE SHEET
4 OF 41	2 OF 4	BUTTRESS EXCAVATION PLAN
5 OF 41	3 OF 4	BUTTRESS SUBDRAIN PLAN
6 OF 41	4 OF 4	SUBDRAIN CROSS SECTIONS
		ROUGH GRADING PLANS
7 OF 41	1 OF 19	GRADING TITLE SHEET
8 OF 41	2 OF 19	GRADING PLAN G1
9 OF 41	3 OF 19	GRADING PLAN G2
10 OF 41	4 OF 19	GRADING PLAN G3
11 OF 41	5 OF 19	GRADING PLAN G4
12 OF 41	6 OF 19	GRADING PLAN G5
13 OF 41	7 OF 19	GRADING PLAN G6
14 OF 41	8 OF 19	GRADING PLAN G7
15 OF 41	9 OF 19	GRADING PLAN G8
16 OF 41	10 OF 19	GRADING PLAN G9
17 OF 41	11 OF 19	GRADING PLAN G10
18 OF 41	12 OF 19	GRADING PLAN G11
19 OF 41	13 OF 19	GRADING PLAN G12
20 OF 41	14 OF 19	GRADING PLAN G13
21 OF 41	15 OF 19	GRADING PLAN G14
22 OF 41	16 OF 19	GRADING PLAN G15
23 OF 41	17 OF 19	DETAIL SHEET D1
24 OF 41	18 OF 19	DETAIL SHEET D2
25 OF 41	19 OF 19	DETAIL SHEET D3
		STORM DRAIN PLANS
26 OF 41	1 OF 12	STORM DRAIN TITLE SHEET
27 OF 41	2 OF 12	INDEX OF SHEETS
28 OF 41	3 OF 12	STORM DRAIN PLAN LINE "W-1"
29 OF 41	4 OF 12	STORM DRAIN PLAN LINE "W-1"
30 OF 41	5 OF 12	STORM DRAIN PLAN LINE "W-1"
31 OF 41	6 OF 12	STORM DRAIN PLAN LINE "W-1"
32 OF 41	7 OF 12	STORM DRAIN PLAN LINE "W-2"
33 OF 41	8 OF 12	STORM DRAIN PLAN LINE "W-2"
34 OF 41	9 OF 12	STORM DRAIN PLAN LINE "W-2"
35 OF 41	10 OF 12	STORM DRAIN PLAN LINE "W-2"
36 OF 41	11 OF 12	STORM DRAIN PLAN LINE "W-3"
37 OF 41	12 OF 12	STORM DRAIN PLAN LINE "W-4"
		WATER POLLUTION CONTROL PLANS
38 OF 41	1 OF 4	WATER POLLUTION CONTROL TITLE SHEET
39 OF 41	2 OF 4	WATER POLLUTION CONTROL PLAN SHEET 1
40 OF 41	3 OF 4	WATER POLLUTION CONTROL PLAN SHEET 2
41 OF 41	4 OF 4	WATER POLLUTION CONTROL PLAN SHEET 3
		SUPPLEMENTAL STORM DRAIN PLAN
41B OF 41	1 OF 1	54" NORTHERLY STORM DRAIN PROFILE

CONTRACT NO.: IBC-0381R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

REGISTERED PROFESSIONAL ENGINEER JOSHUA L. NELSON No. C66959 Exp 09/30/16 CIVIL STATE OF CALIFORNIA

NO.	DATE	REVISIONS	CK. BY
			JLN

CITY OF INDUSTRY
INCORPORATED JUNE 18, 1957
P.O. Box 3366, City of Industry, California 91744
Administrative Offices: 15651 E. Stafford Street
(626) 333-2211

Prepared by:
CNC ENGINEERING
255 N. Hacienda Blvd., Ste. 222
City of Industry, Ca. 91744
Phone (626) 333-0336
Fax (626) 336-7076
Consulting Civil Engineers Surveyors

JOSHUA L. NELSON, R.C.E. C66959 DATE

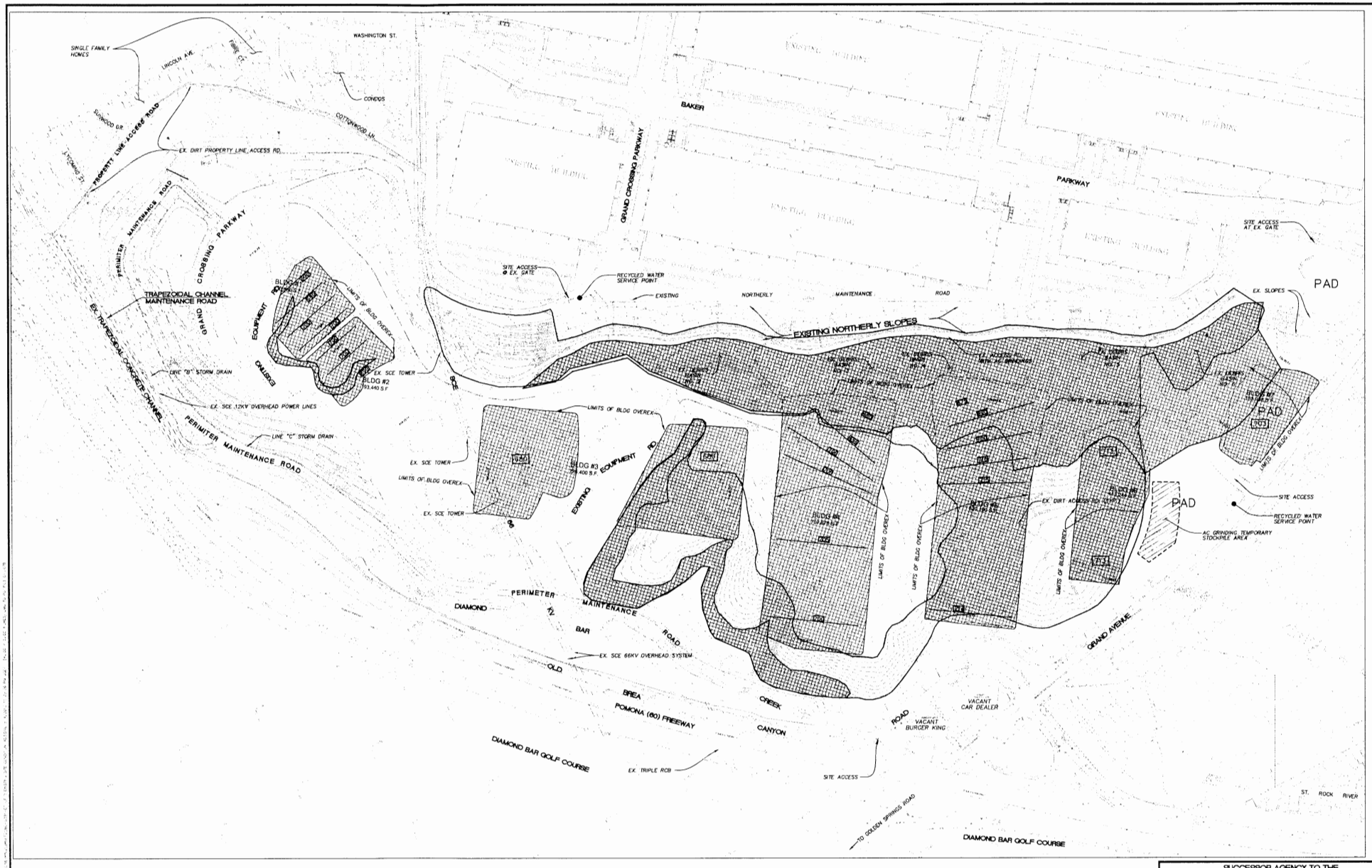
SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY
APPROVED BY:
JOHN D. BALLAS, R.C.E. 34311, AGENCY ENGINEER DATE

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

PROJECT TITLE SHEET
VICINITY MAP, DRAWING INDEX MAPS, GENERAL NOTES, TABLE OF DRAWINGS, NOTICE TO CONTRACTOR

DESIGNED BY: D.T.M. CHECKED BY: J.L.N.
DRAWN BY: L.A.S. DATE: JUNE 2015

JOB NO. IBC-0381R | SHT. 1 OF 2
CONTRACT DRAWING NO. 1 OF 41



LEGEND:

- CLEARING AND GRUBBING AREA
- OVEREXCAVATION AND RECOMPACTION AREA
- 700 BUILDING AREA OVEREX/RECOMPACT GRADE

SCALE: 1"=200'

B.M. IBC LIC 1/BC ELEV. 804.964

LADR & CB @ IHR Cor Bridge Over San Jose Creek
PUBL S/O C/L Haley Blvd & 45th R/O C/L Grand Ave.

Adjustment 1990 (Bowerre) Control Update

NO.	DATE	REVISIONS	CK. BY
1	9/4/15	ADDED OVEREX/RECOMPACT AREA	JLN

REGISTERED PROFESSIONAL ENGINEER JOSHUA L. NEFF No. C66959 Exp. 09/30/16 CIVIL STATE OF CALIFORNIA

PREPARED BY
CNC ENGINEERING
Consulting Civil Engineers Surveyors
255 N. Hacienda Blvd., Ste. 222
City of Industry, Ca. 91744
Phone (626) 333-0336
Fax (626) 336-7076

DESIGN BY: P.L. DRAWN: J.D.P.

SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY

APPROVED BY:

JOHN D. BALLAS, R.C.E. 24311, AGENCY ENGINEER DATE

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

EXISTING SITE CONDITIONS, FEATURES AND OVEREX/RECOMPACT AREAS

CHECKED: JLN
DATE: JUNE 2015

JOB NO.: IBC-0381R SHT. 2 OF 2

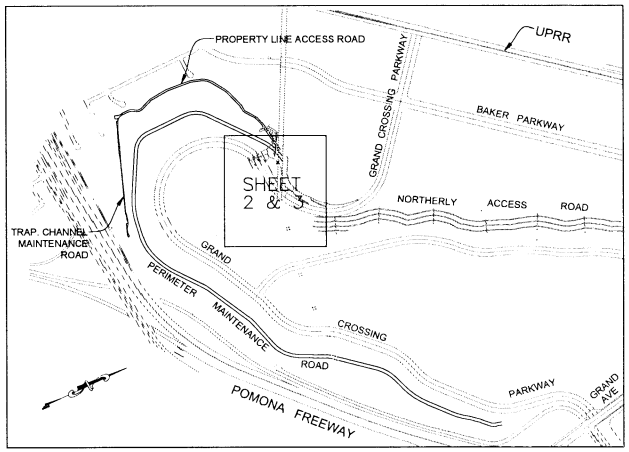
CONTRACT DRAWING NO. 2 OF 41

CONTRACT NO.: IBC-0381R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

ADDENDUM NO. 3

SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOMENT AGENCY IMPROVEMENT PROJECT NO. 381R

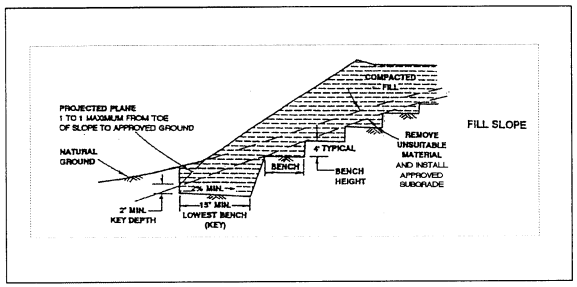
INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE
CONTRACT NO. IBC-0381R
REMEDIAL GRADING TITLE SHEET



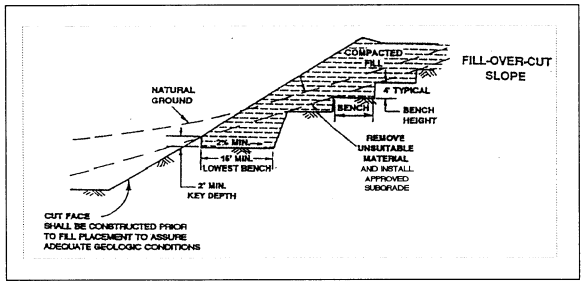
INDEX MAP
NOT TO SCALE

TABLE OF DRAWINGS

CONTRACT DWG. NO.	SHEET NO.	DESCRIPTION
3 OF 41	1 OF 4	TITLE SHEET, INDEX MAP, TABLE OF DRAWINGS, LEGEND, SECTIONS
4 OF 41	2 OF 4	BUTTRESS EXCAVATION PLAN
5 OF 41	3 OF 4	BUTTRESS SUBDRAIN PLAN
6 OF 41	4 OF 4	CROSS-SECTIONS OF SUBDRAINS



KEYING AND BENCHING - FILL SLOPE DETAIL
NOT TO SCALE



KEYING AND BENCHING-FILL OVER CUT SLOPE
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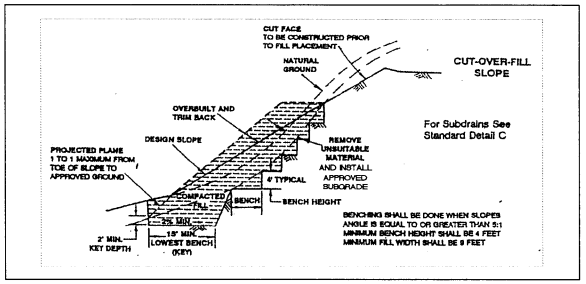


KEYING AND BENCHING-CUT OVER FILL SLOPE
NOT TO SCALE

CONTRACT NO.: IBC-0381R
INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

REGISTERED PROFESSIONAL ENGINEER JOSHUA L. NELSON No. C66959 Exp. 09/30/15 CIVIL STATE OF CALIFORNIA

NO.	DATE	REVISIONS	CK. BY
1			

CITY OF INDUSTRY
INCORPORATED JUNE 16, 1957
P.O. Box 3366, City of Industry, California 91744
Administrative Offices: 15651 E. Stafford Street
(626) 333-2211

Prepared by:
CNC ENGINEERING
255 N. Hacienda Blvd., Ste. 222
City of Industry, Ca. 91744
Phone (626) 333-0336
Fax (626) 336-7076
Consulting Civil Engineers - Surveyors

JOSHUA L. NELSON, R.C.E. C66959 DATE

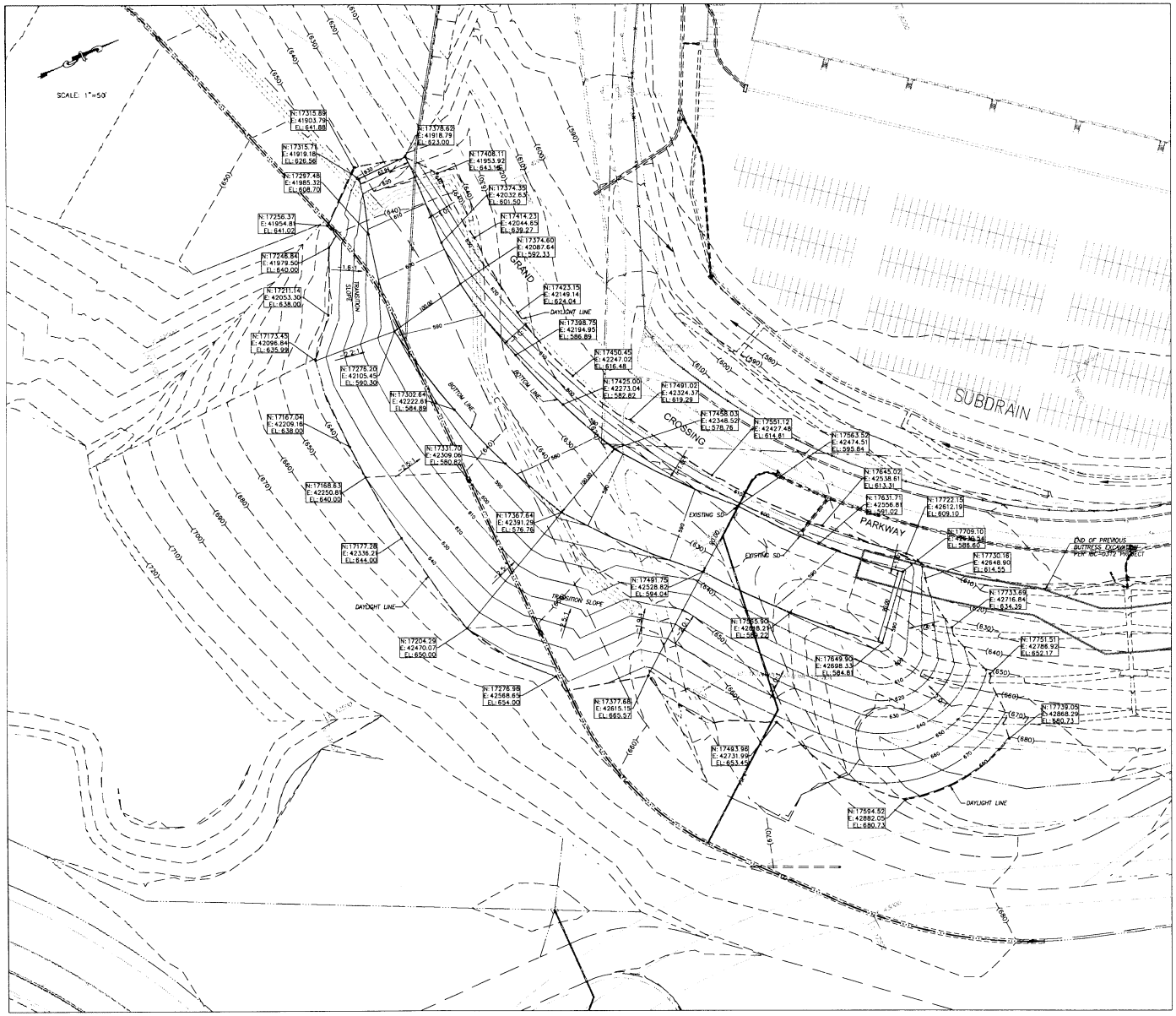
SUCCESSOR AGENCY TO THE INDUSTRY BUSINESS-DEVELOPMENT AGENCY
APPROVED BY:
JOHN D. BALLAS, R.C.E. 34311, AGENCY ENGINEER DATE

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

REMEDIAL GRADING
TITLE SHEET, INDEX MAP, TABLE OF DRAWINGS, LEGEND

DESIGNED BY: D.M. | CHECKED BY: J.L.N.
DRAWN BY: M.H. | DATE: DECEMBER 2013

JOB NO. IBC-0381R | SHT. 1 OF 4
CONTRACT DRAWING NO. 3 OF 41



CONTRACT NO.: IBC-0381R
INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

B.M. NO. DG 4782 ELEV. 604.964

ABBE W CB @ NW Cor Bridge Over San Jose Creek
1481 S/O C/L Valley Blvd & 45ft W/O C/L Grand Ave

Adjusted : 1990 (Baseline)
Grand Quad

NO.	DATE	REVISIONS	CK. BY

Prepared by:
CNC ENGINEERING
Consulting Civil Engineers - Surveyors
255 N. Hacienda Blvd., Ste. 222
City of Industry, Ca. 91744
Phone (626) 333-0334
Fax (626) 336-7078

JOSHUA L. NELSON, R.C.E. C86959 DATE
DESIGN BY: W.J. DRAWN: J.B.P./E.C.

REGISTERED PROFESSIONAL ENGINEER JOSHUA L. NELSON No. C86959 Exp 06/30/15 CIVIL STATE OF CALIFORNIA

SUCCESSOR AGENCY TO THE
INDUSTRY URBAN-DEVELOPMENT AGENCY

APPROVED BY:
JOHN D. BALLAS, R.C.E. 34311, AGENCY ENGINEER DATE

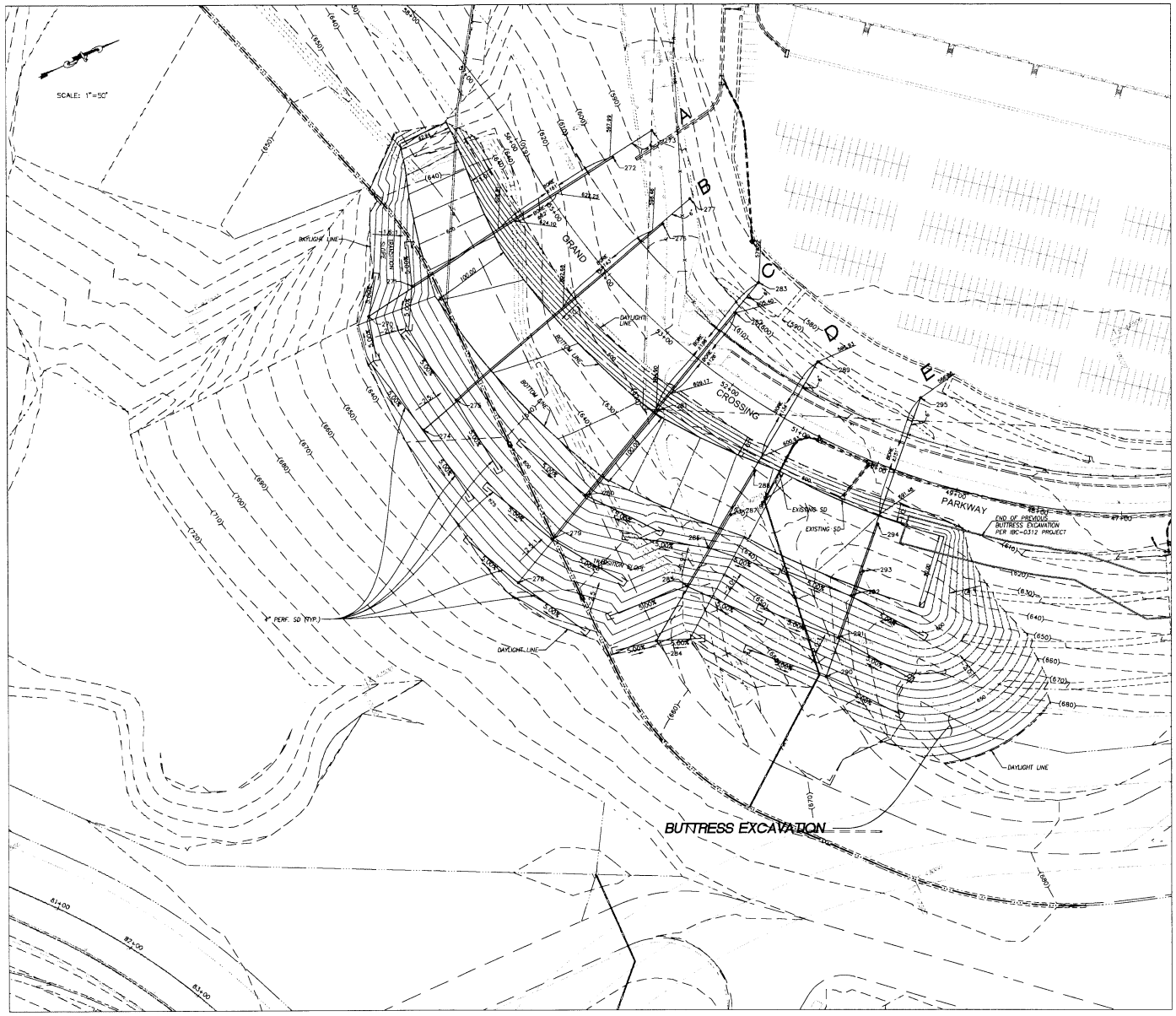
INDUSTRY BUSINESS CENTER
PHASE 1 MASS GRADING, WEST SIDE

BUTTRESS EXCAVATION PLAN

CHECKED: J.L.N.
DATE: JUNE 2013

JOB NO.: IBC-0381R SHT. 2 OF 4

CONTRACT DRAWING NO. 4 OF 41



POINT TABLE			
POINT #	NORTHING	EASTING	ELEVATION
270	17191.64	42093.10	630.48
271	17255.58	42082.24	606.61
272	17543.87	42044.40	619.81
273	17600.20	42034.59	598.18
274	17194.34	42248.41	629.53
275	17245.83	42229.98	607.91
276	17563.78	42143.46	618.03
277	17606.43	42129.50	596.68
278	17220.76	42463.99	643.00
279	17280.06	42432.92	615.99
280	17339.34	42401.86	588.98
281	17463.88	42345.72	634.89
282	17597.40	42278.55	605.40
283	17637.92	42256.62	579.02
284	17341.56	42598.77	656.97
285	17403.08	42553.98	631.36
286	17446.09	42521.93	604.75
287	17487.84	42498.03	851.64
288	17536.33	42462.22	626.51
289	17661.03	42373.91	596.93
290	17507.99	42724.77	645.76
291	17541.06	42687.97	621.22
292	17576.76	42648.48	594.62
293	17602.91	42627.37	641.68
294	17643.20	42583.17	616.83
295	17755.00	42465.58	588.98

CONTRACT NO.: IBC-0381R
INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

B.M. NO DC 4760 ELEV. 604.964

(.68ft W CB @ NW Cor Bridge Over San Jose Creek
74ft S/O C/L Valley Blvd & 45ft W/O C/L Grand Ave.

Adjusted: 1990 (Baseline)
Centro Quad

NO.	DATE	REVISIONS	CK. BY

REGISTERED PROFESSIONAL ENGINEER JOSHUA L. NELSON No. C66959 Exp. 06/30/16 CIVIL STATE OF CALIFORNIA

Prepared by:
CNC ENGINEERING
255 N. Hacienda Blvd., Ste. 222
City of Industry, Ca. 91744
Phone (626) 333-0336
Fax (626) 336-7076
Consulting Civil Engineers - Surveyors

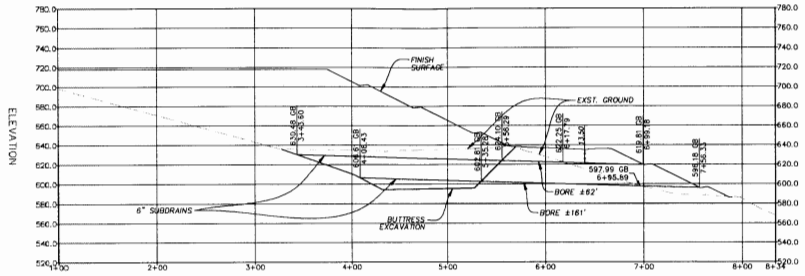
JOSHUA L. NELSON, R.C.E. C66959 DATE
DESIGN BY: U.J. DRAWN: L.S.

SUCCESSOR AGENCY TO THE
INDUSTRY URBAN-DEVELOPMENT AGENCY
APPROVED BY:
JOHN D. BALLAS, R.C.E. 34311, AGENCY ENGINEER DATE

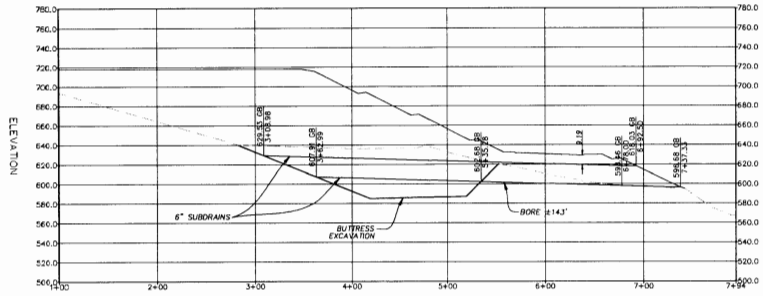
INDUSTRY BUSINESS CENTER
PHASE 1 MASS GRADING, WEST SIDE

BUTTRESS SUBDRAIN PLAN

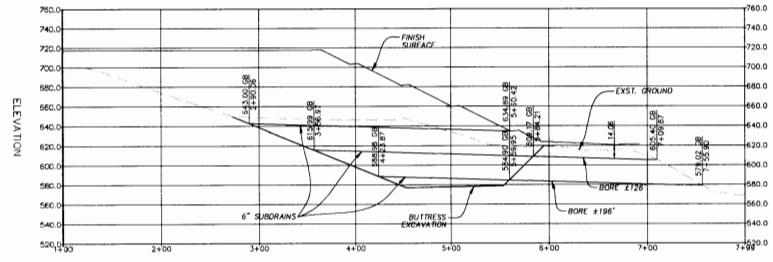
CHECKED: J.L.N.
DATE: JUNE 2015
JOB NO.: IBC-0381R
SHT. 3 OF 4
CONTRACT DRAWING NO. 5 OF 41



SECTION A



SECTION B



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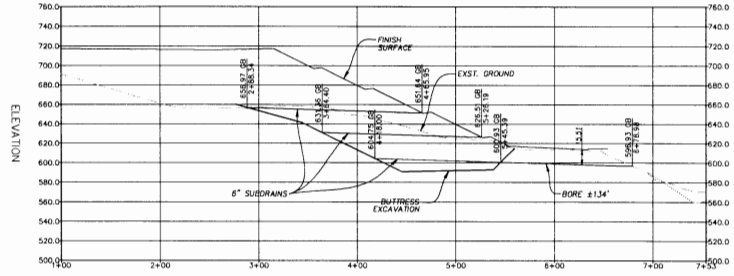
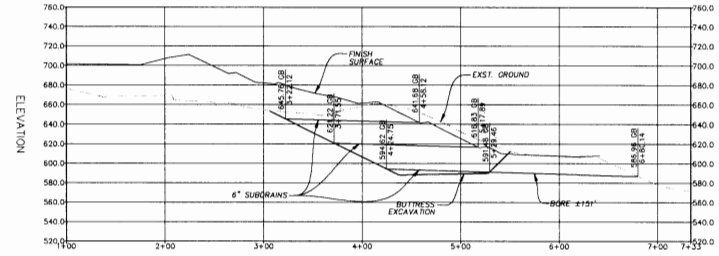


SECTION D



SECTION E

CONTRACT NO.: IBC-0381R
INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

B.M. NO. DC 4760 ELEV. 604.964

LABR. N CB @ NW Cor Bridge Over San Jose Creek
74871 S/O C.L. Valley Blvd & 4311 W/O C/L Grand Ave.

Adjusted - 1995 (Baseline)
Cedric Guest

NO.	DATE	REVISIONS	CK. BY

REGISTERED PROFESSIONAL ENGINEER JOSHUA L. NELSON No C66959 Exp 06/30/16 CIVIL STATE OF CALIFORNIA

Prepared by:
CNC ENGINEERING
Consulting Civil Engineers - Surveyors
255 N. Hacienda Blvd., Ste. 222
City of Industry, Ca. 91744
Phone (626) 333-0336
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JOSHUA L. NELSON, R.C.E. C66959 DATE
DESIGN BY: U.J. DRAWN: L.S.

SUCCESSOR AGENCY TO THE
INDUSTRY URBAN-DEVELOPMENT AGENCY
APPROVED BY:
JOHN D. BALLAS, R.C.E. 34311, AGENCY ENGINEER DATE

INDUSTRY BUSINESS CENTER
PHASE 1 MASS GRADING, WEST SIDE

CROSS-SECTIONS OF SUBDRAINS

CHECKED: J.L.N.
DATE: JUNE 2015

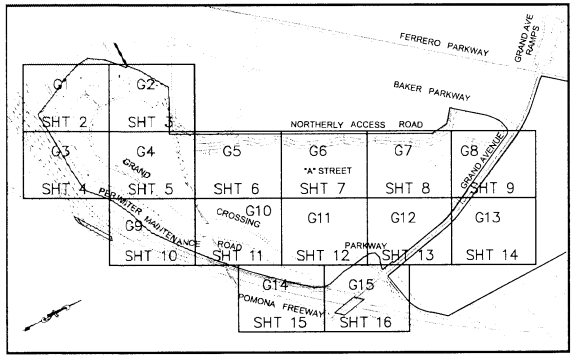
JOB NO.: IBC-0381R SHT. 4 OF 4

CONTRACT DRAWING NO. 6 OF 41

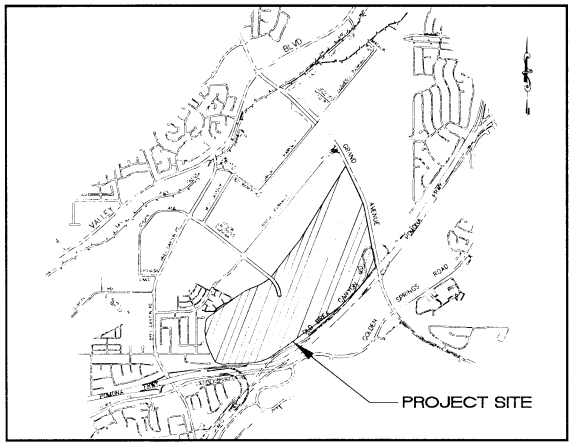
SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY
IMPROVEMENT PROJECT NO. 381R

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE
CONTRACT NO. IBC-0381R

GRADING TITLE SHEET



GRADING PLAN INDEX MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE
THOMAS GUIDE 639-J7
THOMAS GUIDE 679-H1, H2, J1 & J2
THOMAS GUIDE 683-A1

CONSTRUCTION NOTES:

1. SAW CUT (1' MIN.) AND REMOVE EXISTING AC.
2. (R DESCRIPTION) REMOVE EXIST. STORM DRAIN APPURTENANCES INCLUDING INLET STEEL GRATE, CONCRETE WINGWALL, CONCRETE GUTTER, RCP, COLLARS, INLET STRUCTURE, CMP, ETC.
3. REMOVE CHAIN LINK FENCE
4. REMOVE CONCRETE CURB AND GUTTER.
5. CONSTRUCT CONCRETE V-GUTTER TYPE A PER DETAIL "5" ON DETAIL SHEET D1
6. CONSTRUCT AREA DRAIN PER DETAIL "7" ON DETAIL SHEET D1
7. (SIZE) CONSTRUCT CMP (12 GAUGE) INCLUDING BENDS, FITTING, REDUCERS, COUPLERS AND ANCHORS (20' MAX SPACING) FOR ABOVE GRADE INSTALLATION.
8. CONSTRUCT CONCRETE V GUTTER TYPE B PER DETAIL "6" ON DETAIL SHEET D1.
9. CONSTRUCT JUNCTION STRUCTURE – PIPE TO PIPE PER SSPWC STANDARD PLAN 332-2 CASE 1, FOR PIPES 24" DIAMETER OR SMALLER.
10. CONSTRUCT DOWNDRAIN TO V-GUTTER CONNECTION PER DETAIL "10" ON DETAIL SHEET D2
11. CONSTRUCT DOWNDRAIN PER DETAIL "2" ON DETAIL SHEET D1
12. CONSTRUCT 10' CONCRETE TERRACE DRAIN PER DETAIL "3" ON DETAIL SHEET D1
13. CONSTRUCT 23' CONCRETE TERRACE DRAIN PER DETAIL "8" ON DETAIL SHEET D1
14. CONSTRUCT DOWNDRAIN/23' TERRACE DRAIN CONNECTION PER DETAIL "12" ON DETAIL SHEET D2.
15. CONSTRUCT DOWNDRAIN INLET PER DETAIL "13" ON DETAIL SHEET D2
16. (W=X') CONSTRUCT DRIVEWAY PER CITY OF INDUSTRY STANDARD PLAN 114 (a=14', W=AS INDICATED), INCLUDING AGGREGATE BASE MATERIAL.
17. CONSTRUCT 4" AC (1.5" C2-PG 64-10 OVER 2.5" B-PG 64-10) OVER 8" CAB.
18. CONSTRUCT DOWNDRAIN/10' TERRACE DRAIN CONNECTION PER DETAIL "11" ON DETAIL SHEET D2.
19. CONSTRUCT CONCRETE CURB PER CITY OF INDUSTRY STANDARD PLAN 112, TYPE A1, 6" (3" OR 0" OF WHERE INDICATED), INCLUDING AGGREGATE BASE.
20. CONSTRUCT 3" AC (B-PG 64-10) OVER 8" CAB.
21. CONSTRUCT JUNCTION STRUCTURE – PIPE TO PIPE PER SSPWC STANDARD PLAN 321-2, FOR PIPES 24" DIAMETER OR LARGER.
22. CONSTRUCT DOWNDRAIN/TERRACE DRAIN INTERSECTION PER DETAIL "1" ON DETAIL SHEET D1, INCLUDING SPLASH WALLS.
23. CONSTRUCT CSP FLARED INLET PER SSPWC STANDARD PLAN 357-2
24. CONSTRUCT CHAIN LINK FENCE AND GATE PER SPPWC STANDARD PLAN 600-3
25. CONSTRUCT SPLASH WALL PER DETAIL "4" ON DETAIL SHEET D1.
26. CONSTRUCT 60" CMP INLET PER DETAIL "9" ON DETAIL SHEET D1.
27. CONSTRUCT CONCRETE COLLAR PER SPPWC STANDARD PLAN 380-4.
28. CONSTRUCT TRANSITION STRUCTURE PER SPPWC STANDARD PLAN 340-2.
29. CONSTRUCT RCP STORM DRAIN.
30. PLUG END TO MAKE WATER TIGHT SEAL WITH BRICK & MORTAR 8" THICK MINIMUM.
31. CONSTRUCT DOWNDRAIN OUTLET TO SURFACE PER DETAIL "11" ON SHEET D3.
32. CONSTRUCT HEADWALL OUTLET PER CWM STANDARD PLAN 601-4.
33. CONSTRUCT CONCRETE FLARED END SECTION PER CALTRANS STD PLAN D94B

LEGEND:

HP – HIGH POINT
LP – LOW POINT
GB – GRADE BREAK
CF – CURB FACE
FL – FLOW LINE
EP – EDGE OF PAVEMENT
DL – DAYLIGHT LINE
FG – FINISH GRADE
CMP – CORRUGATED METAL PIPE
R/W – RIGHT OF WAY
(P) – PROJECT IN PLACE
(R) – CONSTRUCTION NOTE INDICATING REMOVAL ITEMS

TABLE OF DRAWINGS

ROUGH GRADING		
CONTRACT DWG. NO.	SHEET NO.	DESCRIPTION
7 OF 41	1 OF 19	GRADING TITLE SHEET
8 OF 41	2 OF 19	GRADING PLAN G1
9 OF 41	3 OF 19	GRADING PLAN G2
10 OF 41	4 OF 19	GRADING PLAN G3
11 OF 41	5 OF 19	GRADING PLAN G4
12 OF 41	6 OF 19	GRADING PLAN G5
13 OF 41	7 OF 19	GRADING PLAN G6
14 OF 41	8 OF 19	GRADING PLAN G7
15 OF 41	9 OF 19	GRADING PLAN G8
16 OF 41	10 OF 19	GRADING PLAN G9
17 OF 41	11 OF 19	GRADING PLAN G10
18 OF 41	12 OF 19	GRADING PLAN G11
19 OF 41	13 OF 19	GRADING PLAN G12
20 OF 41	14 OF 19	GRADING PLAN G13
21 OF 41	15 OF 19	GRADING PLAN G14
22 OF 41	16 OF 19	GRADING PLAN G15
23 OF 41	17 OF 19	DETAILS 1 – DETAILS
24 OF 41	18 OF 19	DETAILS 2 – DETAILS & SECTIONS
25 OF 41	19 OF 19	DETAILS 3 – CROSS SECTIONS

B.M. NO. DG 4760 ELEV. 604.964
ABBR W CB @ NW Cor Bridge over San Jose Creek
74±E S/O C/L Valley Blvd & 43ft W/O C/L Grand Ave.
Adjusted 1990 (Revised) Covina Quad

NO.	DATE	REVISIONS	CK. BY
1	9/4/15	ADDED CONSTRUCTION NOTE	JLN

CITY OF INDUSTRY
INCORPORATED JUNE 18, 1957
P.O. Box 3366, City of Industry, California 91744
Administrative Offices 15651 E. Stafford Street
(626) 333-2211

Prepared by:
CNC ENGINEERING
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Civil Engineers • Land Surveyors

JOSHUA L. NELSON, R.C.E. C66959 DATE

SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY
APPROVED BY:
JOHN D. BALLAS, R.C.E. 54311, AGENCY ENGINEER DATE

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE
GRADING TITLE SHEET
VICINITY MAP, INDEX MAPS, GENERAL NOTES FOR GRADING, TABLE OF DRAWINGS, CONSTRUCTION NOTES

DESIGNED BY: R.L. | CHECKED BY: J.L.N.
DRAWN BY: T.A. | DATE: JUNE 2015
JOB NO. IBC-0381R | SHT. 1 OF 19
CONTRACT DRAWING NO. 7 OF 41

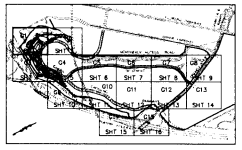
CONTRACT NO.: IBC-0381R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

ADDENDUM NO. 3

MATCH LINE SEE G2 (SHEET 3 OF 19)

MATCH LINE SEE G3 (SHEET 4 OF 19)

Point Table			
Point #	Northing	Easting	Elevation
2000	16725.09	41531.83	718.07
2001	16684.26	41541.23	718.07
2002	16644.39	41554.64	718.07
2003	16605.90	41571.91	718.07
2004	16569.21	41592.90	718.07
2005	16534.52	41617.15	718.07
2006	16501.93	41644.24	718.07
2007	16471.67	41673.98	718.07
2008	16443.96	41706.18	718.07
2009	16419.00	41740.61	718.07
2010	16758.20	41477.37	693.16
2011	16713.61	41486.78	694.82
2012	16669.96	41499.84	696.17
2013	16627.54	41516.50	697.22
2014	16586.66	41536.64	697.98
2015	16547.60	41560.11	698.43
2016	16510.83	41586.74	698.73
2017	16476.00	41616.37	699.03
2018	16443.96	41648.77	699.34
2019	16414.72	41683.73	699.64
2020	16388.50	41721.00	699.94



INDEX MAP
N.T.S.

CONSTRUCTION NOTES:

(6) CONSTRUCT AREA DRAIN PER DETAIL "7" ON DETAIL SHEET D1.

SIZE (7) CONSTRUCT CMP (12 GAUGE) INCLUDING BENDS, FITTING, REDUCERS, COUPLERS AND ANCHORS (20' MAX SPACING) FOR ABOVE GRADE INSTALLATION.

(9) CONSTRUCT JUNCTION STRUCTURE – PIPE TO PIPE PER SSPWC STANDARD PLAN 332-2 CASE 1, FOR PIPES 24" DIAMETER OR SMALLER.

(21) CONSTRUCT JUNCTION STRUCTURE – PIPE TO PIPE PER SSPWC STANDARD PLAN 331-3, FOR PIPES 24" DIAMETER OR LARGER.

LEGEND:

HP – HIGH POINT
LP – LOW POINT
GB – GRADE BREAK
GF – CURB FACE
FL – FLOWLINE
EP – EDGE OF PAVEMENT
DL – DAYLIGHT LINE
FG – FINISH GRADE
CMP – CORRUGATED METAL PIPE
R/W – RIGHT OF WAY
(P) – PROTECT IN PLACE
R (○) – CONSTRUCTION NOTE INDICATING REMOVAL ITEMS

B.M. NO DG 4760 ELEV. 524.964

LABR W CB @ NW Cor Bridge Over San Jose Creek
7481 S/O C/L Valley Blvd & 4341 W/O C/L Grand Ave.

Adjusted : 1990 (Baseline)
Control Quad

NO.	DATE	REVISIONS	CK. BY

Prepared by:

CNC ENGINEERING
Consulting Civil Engineers - Surveyors
255 N. Hacienda Blvd., Ste. 222
City of Industry, Ca. 91744
Phone (626) 333-0336
Fax (626) 330-7076

JOSHUA L. NELSON, R.C.E. C66959 DATE

DESIGN BY: RI DRAWN: JP

No. C66959
Exp 06/30/15
CIVIL
STATE OF CALIFORNIA

SUCCESSOR AGENCY TO THE
INDUSTRY URBAN-DEVELOPMENT AGENCY

APPROVED BY:

JOHN D. BALLAS, R.C.E. 34311, CITY ENGINEER DATE

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

GRADING PLAN G1

CHECKED: JN
DATE: JUNE 2015

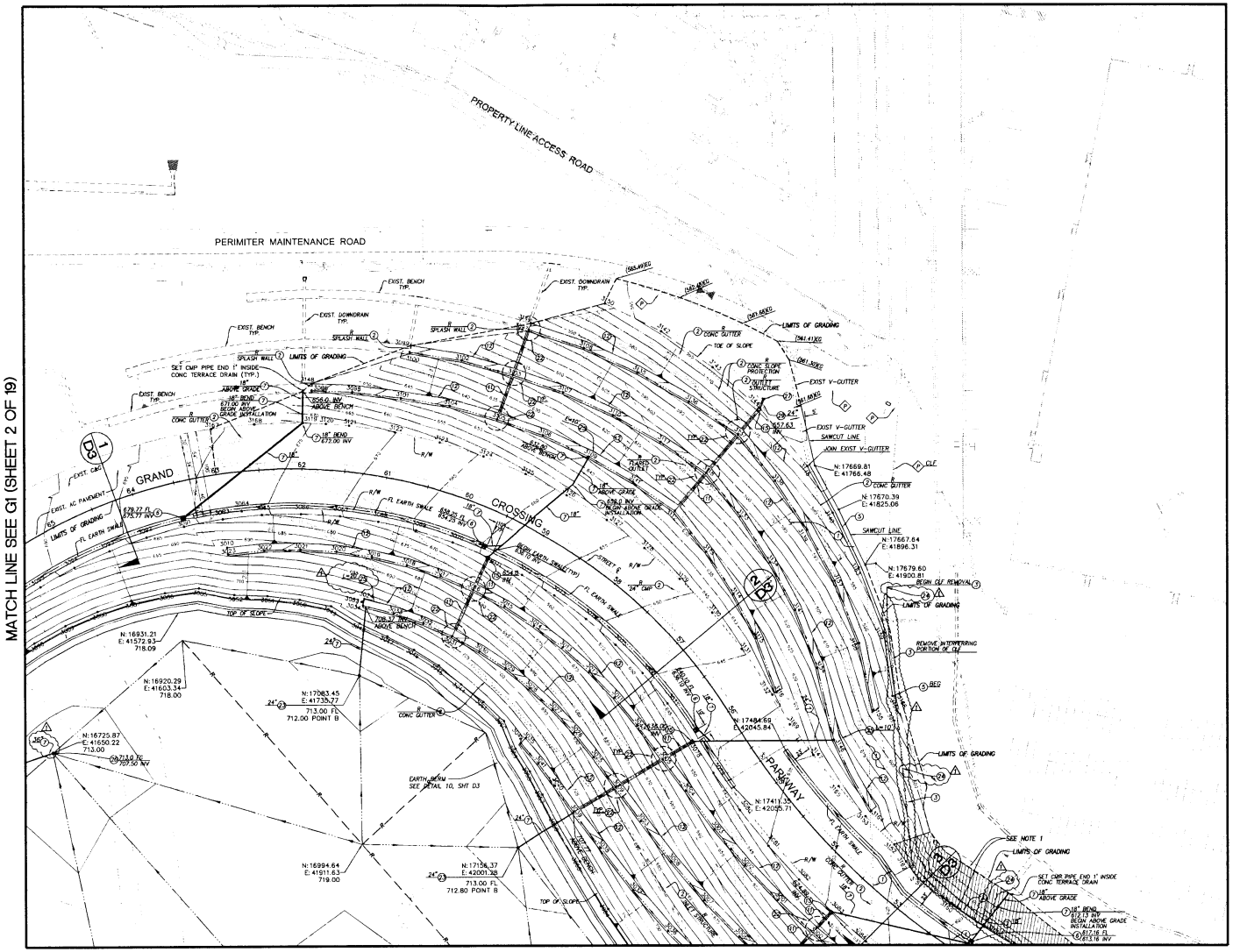
JOB NO.: IBC-03B1R SHT. 2 OF 19

CONTRACT DRAWING NO. 8 OF 41

CONTRACT NO.: IBC-03B1R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

A:\JOBS\IBC-03B1 MASS GRADING WEST SIDE PHASE 2\CONTRACT\GRADING\IBC03B1-G2.DP 19 @ 24HX 7/27/2015 10:16:17 AM AROA EXPAND 1:1 (30.00 X 42.00 INCHES) DWG TO PDF.PC3 DAC-CTB

MATCH LINE SEE G1 (SHEET 2 OF 19)



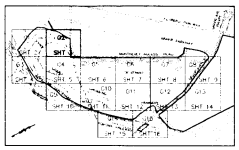
MATCH LINE SEE G4 (SHEET 5 OF 19)

SCALE: 1"=50'

Point Table			
Point #	Northing	Easting	Elevation
3000	17420.31	42245.59	640.80
3001	17395.79	42195.81	644.17
3002	17380.95	42142.68	647.47
3003	17369.25	42088.70	650.77
3004	17360.73	42034.05	654.07
3005	17353.61	41988.84	656.77
3006	17338.41	42212.91	670.07
3007	17320.27	42156.35	673.57
3008	17307.47	42098.84	677.07
3009	17290.31	41992.35	683.47
3010	17016.96	41531.63	694.97
3011	17338.16	41898.70	652.47
3012	17326.83	41858.39	655.07
3013	17312.17	41816.55	657.67
3014	17294.28	41760.95	670.27
3015	17273.28	41744.56	672.87
3016	17249.31	41710.02	675.47
3017	17222.54	41677.59	678.07
3018	17192.15	41647.48	680.67
3019	17161.28	41619.99	683.32
3020	17127.22	41595.25	685.97
3021	17091.22	41573.42	688.62
3022	17053.51	41554.66	691.27
3023	17014.34	41539.19	693.97
3024	17130.27	41659.35	708.37
3025	17284.22	41949.47	686.17
3026	17277.89	41913.25	688.47
3027	17266.16	41877.68	690.87
3028	17255.88	41842.98	693.27
3029	17240.72	41809.30	695.57
3030	17222.60	41777.05	697.97
3031	17201.99	41746.26	700.27
3032	17178.69	41717.37	702.67
3033	17153.18	41690.33	704.97
3034	17125.32	41665.63	707.37
3035	17223.94	41892.41	714.27
3036	17266.23	42168.52	696.27
3037	17252.61	42107.84	699.87
3038	17242.17	42046.41	703.67
3039	17233.79	41985.48	706.77
3040	17228.87	41958.03	709.17
3041	17224.03	41926.24	711.17
3042	17216.34	41894.93	713.27
3043	17346.08	41939.90	659.67
3044	17185.39	41800.91	720.07
3045	17172.13	41769.12	719.07
3046	17154.92	41739.41	719.07
3047	17133.94	41710.90	719.07
3048	17112.08	41682.44	718.07
3049	17091.83	41648.81	718.07
3050	17062.95	41625.09	718.07
3051	17031.79	41603.65	718.07
3052	16998.54	41584.72	718.07
3053	17298.07	42040.58	680.57
3054	17216.69	42113.74	718.07
3055	17213.53	42049.40	718.07
3056	17211.23	41996.74	718.07

Point Table			
Point #	Northing	Easting	Elevation
3057	17211.28	41960.75	718.07
3058	17210.62	41923.48	718.07
3059	17207.23	41897.95	718.07
3060	17210.27	41862.46	718.07
3061	17199.18	41831.29	719.07
3062	17125.73	41660.94	708.87
3063	17027.91	41500.08	678.27
3064	17051.85	41501.48	676.85
3065	17070.30	41516.80	675.56
3066	17111.15	41535.99	672.86
3067	17150.18	41560.51	670.15
3068	17187.12	41587.19	667.44
3069	17221.71	41616.86	664.73
3070	17253.31	41649.31	662.03
3071	17283.42	41683.90	659.24
3072	17309.07	41721.61	656.61
3073	17332.05	41760.98	653.90
3074	17351.67	41802.09	651.20
3075	17367.80	41844.71	648.49
3076	17380.32	41888.53	645.78
3077	17389.16	41933.23	643.07
3078	17394.75	41986.56	641.09
3079	17398.23	42030.15	640.22
3080	17405.28	42082.78	637.51
3081	17415.42	42134.92	634.80
3082	17428.61	42186.37	632.10
3083	17444.80	42236.95	629.39
3084	17463.03	42286.48	626.68
3085	16965.87	41558.81	718.07
3086	16928.24	41545.30	718.07
3087	16889.17	41534.91	718.07
3088	16848.91	41528.09	718.07
3089	16807.86	41525.26	718.07
3090	16766.43	41526.50	718.07
3091	16984.27	41486.94	680.98
3092	16939.69	41477.49	683.69
3093	16894.48	41471.78	686.39
3094	16848.95	41469.85	688.95
3095	16803.42	41471.72	691.21
3096	17189.50	41414.53	696.00
3097	17450.21	41471.04	594.50
3098	17230.99	41438.24	652.00
3099	17317.18	41422.13	626.50
3100	17312.23	41428.42	625.50
3101	17278.56	41471.14	647.70
3102	17362.45	41465.99	621.70
3103	17406.29	41509.07	617.80
3104	17375.21	41515.91	644.00
3105	17367.41	41546.16	640.40
3106	17407.82	41588.65	636.80
3107	17452.12	41554.73	613.90
3108	17497.38	41520.08	590.40
3109	17443.02	41635.73	633.20
3110	17490.80	41605.28	613.00
3111	17474.26	41685.69	629.80
3112	17501.30	41738.22	626.00
3113	17511.39	41797.11	629.00

Point Table			
Point #	Northing	Easting	Elevation
3114	17516.28	41855.72	632.00
3115	17515.80	41913.64	635.00
3116	17507.09	41980.32	638.50
3117	17524.64	41659.03	606.10
3118	17554.27	41715.60	602.20
3119	17162.53	41443.12	675.51
3120	17186.14	41456.69	674.15
3121	17209.18	41471.24	672.80
3122	17253.34	41503.15	670.09
3123	17284.70	41538.62	667.38
3124	17332.96	41577.41	664.68
3125	17367.85	41619.26	661.97
3126	17399.15	4165.186	659.26
3127	17426.62	41710.91	656.55
3128	17450.08	41760.08	653.85
3129	17469.36	41811.04	651.14
3130	17484.34	41863.43	648.43
3131	17494.90	41916.88	645.72
3132	17501.59	41980.63	641.26
3133	17565.49	41779.17	605.50
3134	17571.21	41842.48	606.75
3135	17538.82	41574.30	586.30
3136	17575.73	41631.99	582.20
3137	17607.98	41692.68	578.00
3138	17620.55	41760.92	581.50
3139	17627.10	41828.97	585.00
3140	17662.39	41824.95	572.20
3141	17571.14	41905.08	612.00
3142	17585.59	41544.40	563.54
3143	17618.49	41609.29	562.99
3144	17644.83	41676.92	562.96
3145	17661.77	41763.24	567.30
3146	17640.06	42060.67	620.25
3147	17510.87	42065.46	635.54
3148	17163.36	41407.52	657.00
3149	17456.13	41465.67	595.50
3150	17543.04	41485.20	566.67
3151	17551.53	42249.68	623.97
3152	17545.70	42201.35	626.92
3153	17531.43	42156.76	629.63
3154	17562.51	41977.25	615.75
3155	17596.80	42051.35	596.50
3156	17624.52	42046.81	587.45
3157	17627.47	41896.37	588.50
3158	17618.92	41974.12	592.50
3159	17649.79	41976.20	581.99
3160	17573.20	42292.93	621.26
3161	17593.40	42334.94	618.56
3162	17548.60	42225.52	625.44
3163	17659.66	41895.67	577.40
3164	17539.94	42154.70	625.25
3165	17519.81	42111.41	632.33
3166	17627.33	42047.86	587.45
3167	17065.45	41399.85	679.41
3168	17112.20	41416.33	669.23
3169	17503.20	42021.03	634.00



INDEX MAP
N.T.S

CONSTRUCTION NOTES:

1. SAW CUT (1' MIN.) AND REMOVE EXISTING AC.
2. REMOVE EXIST. STORM DRAIN APPURTENANCES INCLUDING INLET STEEL GRATE, CONCRETE WINGWALL, CONCRETE GUTTER, RCP, COLLARS, INLET STRUCTURE, CMP, ETC. (DESCRIPTION)
3. REMOVE CHAIN LINK FENCE.
5. CONSTRUCT CONCRETE V-GUTTER TYPE A PER DETAIL "5" ON DETAIL SHEET D1.
6. CONSTRUCT AREA DRAIN PER DETAIL "7" ON DETAIL SHEET D1.
7. CONSTRUCT CMP (12 GAUGE) INCLUDING BENDS, FITTING, REDUCERS, COUPLERS AND ANCHORS (20' MAX SPACING) FOR ABOVE GRADE INSTALLATION. (SIZE)
11. CONSTRUCT DOWNDRAIN PER DETAIL "7" ON DETAIL SHEET D1.
12. CONSTRUCT 10' CONCRETE TERRACE DRAIN PER DETAIL "3" ON DETAIL SHEET D1.
13. CONSTRUCT DOWNDRAIN INLET PER DETAIL "13" ON DETAIL SHEET D2.
16. CONSTRUCT DRIVWAY PER CITY OF INDUSTRY STANDARD PLAN 114. (a=14', W=AS INDICATED), INCLUDING AGGREGATE BASE MATERIAL. (W=X'-X')
22. CONSTRUCT DOWNDRAIN/TERRACE DRAIN INTERSECTION PER DETAIL "1" ON DETAIL SHEET D1, INCLUDING SPLASH WALLS.
23. CONSTRUCT CSP FLARED INLET PER SSPWC STANDARD PLAN 351-2.
24. CONSTRUCT CHAIN LINK FENCE AND GATE PER SPPWC STANDARD PLAN 600-3.
25. CONSTRUCT SPLASH WALL PER DETAIL "4" ON DETAIL SHEET D1.
26. CONSTRUCT 60" CMP INLET PER DETAIL "9" ON DETAIL SHEET D1.
27. CONSTRUCT CONCRETE COLLAR PER SPPWC STANDARD PLAN 380-4.
28. CONSTRUCT RCP STORM DRAIN.

NOTE 1. SLOPE IN THIS AREA SHALL BE BUILT BETWEEN 1.6:1 TO 1.9:1. THESE SLOPES SHALL BE BUILT BY INSTALLING GEOGRID MATERIAL IN NEAR HORIZONTAL LAYERS OVER 24" VERTICALLY ALONG THE SLOPE PER GEOTECH RECOMMENDATION.

LEGEND:

HP – HIGH POINT
LP – LOW POINT
GB – GRADE BREAK
CB – CURB FACE
FL – FLOWLINE
EP – EDGE OF PAVEMENT
DL – DAYLIGHT LINE
(P) – PROTECT IN PLACE
R – CONSTRUCTION NOTE INDICATING REMOVAL ITEMS

B.M. NO. DO 4760 ELEV. 604.964
LADW W CB @ NW Cor Bridge Over San Jose Creek
74th S/O C/L Valley Blvd & 45th W/O C/L Grand Ave.
Adjusted - 1990 (Baseline) Covina Quad

NO.	DATE	REVISIONS	CK BY
1	9/4/15	ADDED CONSTRUCTION NOTES, CHAIN LINK FENCE AND SPLASH WALLS	JLN

Prepared by:
CNC ENGINEERING
255 N. Hacienda Blvd., Ste. 222
City of Industry, Ca. 91744
Phone (626) 333-0336
Fax (626) 336-7076
Consulting Civil Engineers Surveyors
JOSHUA L. NELSON, R.C.E. C66959 DATE
DESIGN BY: RI DRAWN: JP

REGISTERED PROFESSIONAL ENGINEER JOSHUA L. NELSON No. C66959 Exp. 12/31/15 CIVIL STATE OF CALIFORNIA

SUCCESSOR AGENCY TO THE
INDUSTRY URBAN-DEVELOPMENT AGENCY
APPROVED BY:
JOHN D. BALLAS, R.C.E. 34311, CITY ENGINEER DATE

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

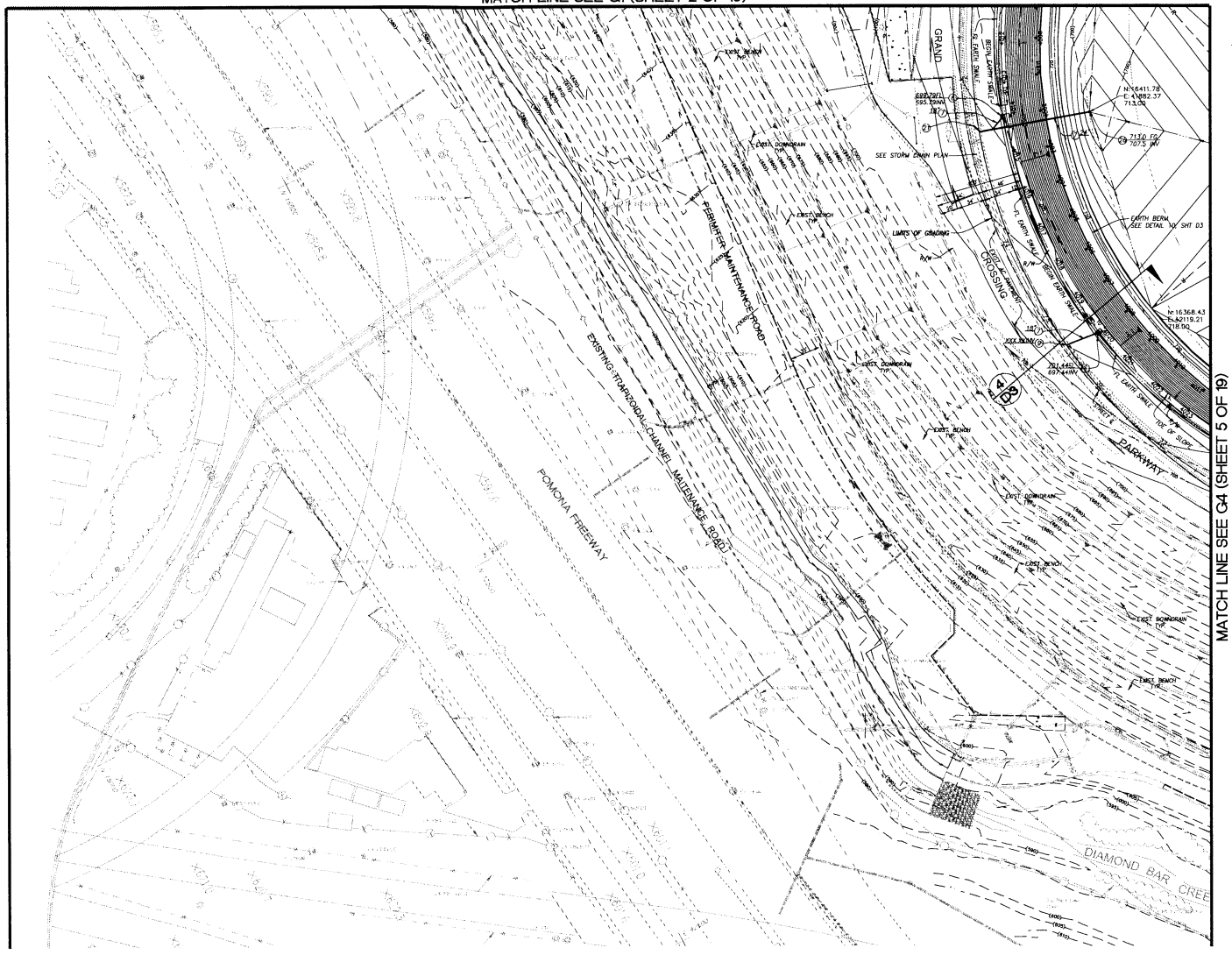
GRADING PLAN G2

CHECKED: JK
DATE: JUNE 2015
JOB NO.: IBC-0381R
SHT. 3 OF 19
CONTRACT DRAWING NO. 9 OF 41

CONTRACT NO.: IBC-0381R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

ADDENDUM NO. 3

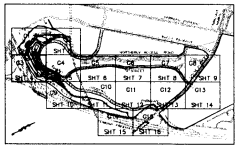
MATCH LINE SEE G1 (SHEET 2 OF 19)



MATCH LINE SEE G4 (SHEET 5 OF 19)

SCALE: 1"=50'

Point Table			
Point #	Northing	Easting	Elevation
4000	16396.96	41777.04	718.07
4001	16378.02	41815.23	718.07
4002	16362.29	41854.91	718.07
4003	16349.92	41895.81	718.07
4004	16340.97	41937.84	718.07
4005	16335.54	41980.12	718.07
4006	16333.66	42022.96	718.07
4007	16335.36	42065.88	718.07
4008	16340.62	42108.52	718.07
4009	16349.43	42150.64	718.14
4010	16361.73	42191.93	718.07
4011	16377.45	42232.09	718.07
4012	16365.47	41760.32	700.24
4013	16345.80	41801.42	700.54
4014	16329.61	41844.02	700.84
4015	16317.02	41887.82	701.15
4016	16308.13	41932.52	701.45
4017	16302.98	41977.79	701.75
4018	16301.63	42023.34	702.05
4019	16304.07	42068.85	702.35
4020	16310.28	42113.99	702.66
4021	16320.24	42158.46	703.03
4022	16333.86	42201.95	703.26
4023	16351.05	42244.15	703.56



INDEX MAP
N.T.S

CONSTRUCTION NOTES:

(6) CONSTRUCT AREA DRAIN PER DETAIL "7" ON DETAIL SHEET D1.

SIZE (7) CONSTRUCT CMP (12 GAUGE) INCLUDING BENDS, FITTING, REDUCERS, COUPLERS AND ANCHORS (20' MAX. SPACING) FOR ABOVE GRADE INSTALLATION.

(9) CONSTRUCT JUNCTION STRUCTURE – PIPE TO PIPE PER SSPWC STANDARD PLAN 332-2 CASE 1.

(21) CONSTRUCT JUNCTION STRUCTURE – PIPE TO PIPE PER SSPWC STANDARD PLAN 331-3, FOR PIPES 24" DIAMETER OR LARGER.

(26) CONSTRUCT CMP INLET PER DETAIL "9" ON DETAIL SHEET D1 (36"Ø U.N.O.)

LEGEND:

HP – HIGH POINT
LP – LOW POINT
GB – GRADE BREAK
CF – CURB FACE
FL – FLOWLINE
EP – EDGE OF PAVEMENT
DL – DAYLIGHT LINE
FG – FINISH GRADE
CMP – CORRUGATED METAL PIPE
R/W – RIGHT OF WAY

(P) – PROTECT IN PLACE

R (○) – CONSTRUCTION NOTE INDICATING REMOVAL ITEMS

B.M. NO. DC 4760 ELEV. 604.064

LADPW W QB @ NW Cor Bridge Over San Jose Creek
74th S/O C/L Valley Blvd & 45th W/O C/L Grand Ave.

Adjusted 1980 (Baseline)
Covina Quad

NO.	DATE	REVISIONS	CK. BY

Prepared by:
CNC ENGINEERING
Consulting Civil Engineers - Surveyors
255 N. Hacienda Blvd., Ste. 222
City of Industry, Ca. 91744
Phone (626) 333-0336
Fax (626) 336-7078

JOSHUA L. NELSON, R.C.E. C56959 DATE
DESIGN BY: RI DRAWN: JP

No. C56959 Registered Professional Engineer JOSHUA L. NELSON CIVIL STATE OF CALIFORNIA

SUCCESSOR AGENCY TO THE
INDUSTRY URBAN-DEVELOPMENT AGENCY
APPROVED BY:
JOHN D. BALLAS, R.C.E. 34311, CITY ENGINEER DATE

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

GRADING PLAN G3

CHECKED: JN
DATE: JUNE 2015

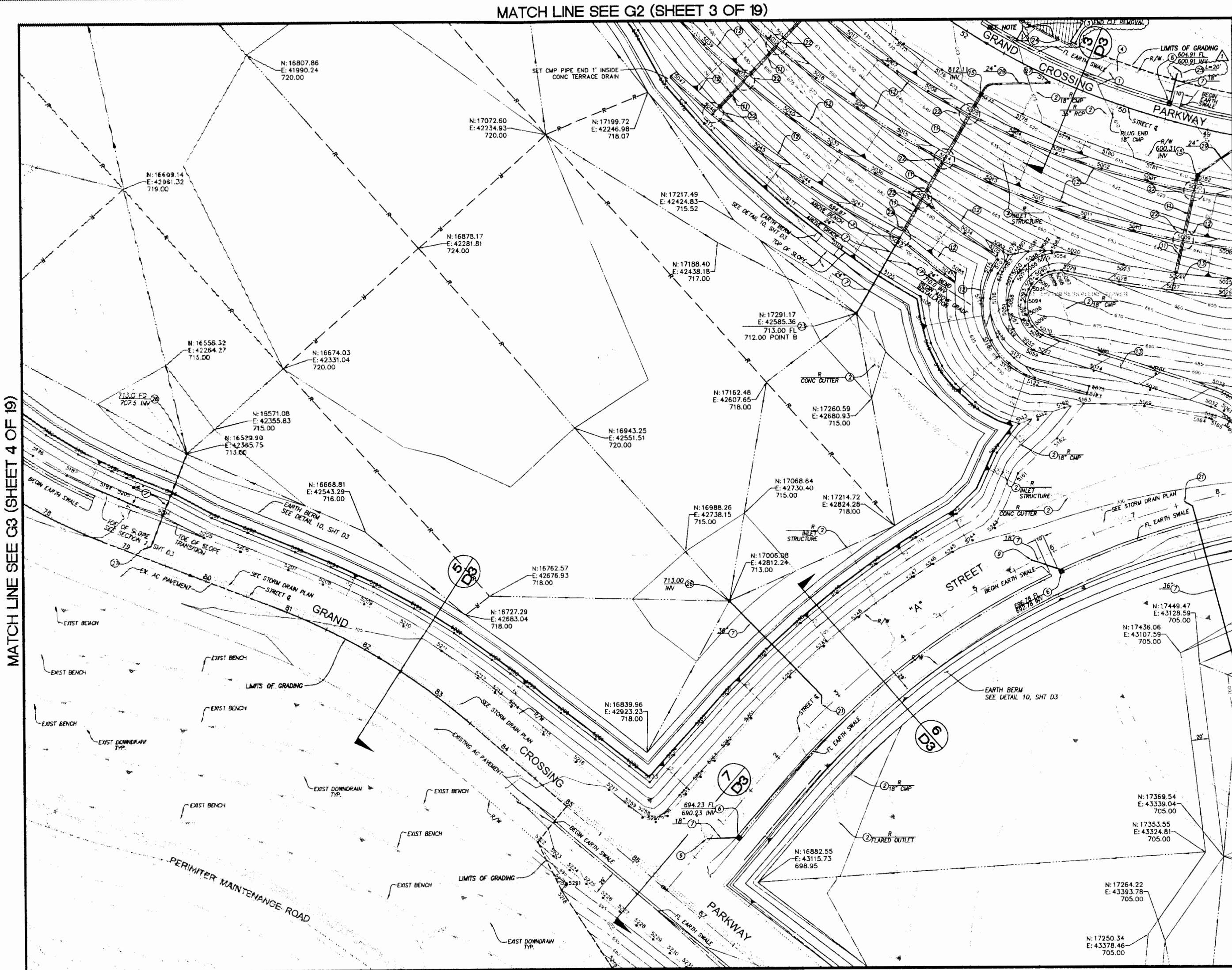
JOB NO.: IBC-0381R SHT. 4 OF 19

CONTRACT DRAWING NO. 10 OF 41

CONTRACT NO.: IBC-0381R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

MATCH LINE SEE G2 (SHEET 3 OF 19)

MATCH LINE SEE G3 (SHEET 4 OF 19)



MATCH LINE SEE G5 (SHEET 6 OF 19)

MATCH LINE SEE G9 (SHEET 10 OF 19)

NOTE 1. SLOPE IN THIS AREA SHALL BE BUILT BETWEEN 1.6:1 TO 1.9:1. THESE SLOPES SHALL BE BUILT BY INSTALLING GEOGRID MATERIAL IN NEAR HORIZONTAL LAYERS EVER 24" VERTICALLY ALONG THE SLOPE PER GEOTECH RECOMMENDATION.

Point Table

Point #	Northing	Easting	Elevation
5000	17700.56	42640.69	611.51
5001	17658.74	42605.97	614.72
5002	17619.06	42568.66	617.96
5003	17581.69	42528.89	621.21
5004	17546.83	42486.79	624.46
5005	17514.60	42442.53	627.72
5006	17485.16	42396.29	630.98
5007	17458.47	42348.33	634.28
5008	17708.64	42720.30	633.02
5009	17662.12	42686.12	636.26
5010	17617.61	42649.15	639.54
5011	17575.18	42609.62	642.97
5012	17535.48	42567.19	646.22
5013	17498.29	42522.42	649.57
5014	17463.98	42475.30	652.87
5015	17432.45	42426.16	656.27
5016	17404.10	42375.05	659.57
5017	17434.63	42298.81	637.57
5018	17378.40	42322.45	663.07
5019	17355.33	42268.51	666.82
5020	17541.99	42640.59	665.67
5021	17468.00	42636.95	672.07
5022	17459.02	42727.08	680.27
5023	17588.89	42679.31	660.37
5024	17637.36	42715.38	655.47
5025	17687.27	42748.80	650.87
5026	17675.27	42764.79	649.37
5027	17624.44	42730.65	653.97
5028	17575.10	42693.79	658.87
5029	17528.88	42655.70	664.17
5030	17468.85	42707.41	677.87
5031	17479.50	42653.31	670.57
5032	17600.67	42871.11	697.17
5033	17616.45	42854.64	695.60
5034	17445.08	42561.48	677.57
5035	17420.32	42503.55	673.87

Point Table

Point #	Northing	Easting	Elevation
5036	17386.69	42452.10	677.57
5037	17356.17	42398.60	681.27
5038	17304.03	42286.61	689.02
5039	17283.74	42228.07	692.47
5040	17328.62	42343.37	685.07
5041	17402.68	42592.61	698.87
5042	17376.67	42531.81	694.87
5043	17348.06	42473.99	699.77
5044	17308.79	42421.89	702.67
5045	17279.76	42363.91	706.57
5046	17253.67	42304.37	710.72
5047	17232.04	42242.96	714.37
5048	17499.92	42625.98	669.37
5049	17442.67	42685.66	676.62
5050	17481.13	42629.91	670.95
5051	17447.05	42663.41	674.77
5052	17446.86	42707.95	678.47
5053	17477.87	42631.28	671.17
5054	17522.36	42629.24	667.47
5055	17511.29	42626.54	668.47
5056	17488.64	42627.58	670.47
5057	17443.80	42674.33	675.67
5058	17452.30	42653.31	673.87
5059	17452.03	42718.09	679.37
5060	17617.07	42897.69	699.89
5061	17611.54	42881.96	698.49
5062	17474.03	42601.48	681.55
5063	17470.95	42612.78	680.97
5074	17501.00	42771.58	685.38
5075	17488.23	42784.94	694.67
5076	17547.84	42821.19	691.09
5077	17358.58	42803.81	718.07
5078	17232.54	42277.98	718.07
5079	17477.08	42607.59	681.96
5080	17484.50	42609.98	679.50
5081	17499.41	42614.78	674.98

Point Table

Point #	Northing	Easting	Elevation
5082	17512.18	42620.43	671.56
5083	17523.31	42626.50	668.92
5085	17414.15	42597.44	700.47
5087	17522.71	42651.30	665.07
5088	17515.83	42648.14	665.97
5089	17508.43	42646.24	666.97
5090	17500.76	42645.96	667.87
5091	17493.36	42647.01	668.97
5092	17486.23	42649.45	669.67
5093	17473.80	42658.22	671.47
5094	17469.15	42664.08	672.37
5095	17465.54	42670.90	673.27
5096	17463.38	42678.18	674.17
5097	17462.70	42685.75	675.12
5098	17463.35	42693.31	676.07
5099	17465.48	42700.64	676.97
5100	17515.64	42757.95	683.87
5101	17562.48	42807.56	689.59
5102	17465.58	42602.05	680.25
5103	17464.15	42607.28	680.27
5104	17307.64	42496.90	718.07
5105	17365.78	42602.70	718.07
5107	17364.02	42740.65	718.07
5108	17354.00	42711.37	718.07
5109	17349.91	42685.27	718.07
5110	17350.92	42656.06	718.07
5111	17357.64	42627.25	718.07
5112	17418.32	42791.78	716.26
5113	17396.85	42785.72	718.07
5114	17456.55	42620.79	681.97
5115	17451.93	42614.26	680.97
5116	17435.34	42642.33	683.97
5117	17428.63	42637.99	682.97
5118	17413.97	42685.54	685.97
5119	17421.97	42685.58	686.97
5120	17419.89	42718.59	687.97

Point Table

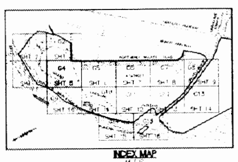
Point #	Northing	Easting	Elevation
5121	17427.33	42715.66	688.97
5122	17437.63	42747.26	689.97
5123	17482.66	42790.70	693.67
5125	17337.79	42556.18	718.07
5160	17629.44	42873.03	697.35
5161	17368.58	42836.58	700.87
5162	17427.40	42821.53	700.69
5163	17473.39	42800.09	700.27
5164	17589.51	42879.09	701.78
5165	17592.71	42881.91	701.84
5166	17594.64	42884.20	701.88
5167	17611.33	42896.12	702.14
5168	17451.59	42793.58	707.36
5169	17533.47	42834.75	700.97
5171	17281.14	42435.47	718.07
5172	17239.81	42309.26	718.00
5173	17224.93	42245.00	718.07
5174	17223.69	42178.09	718.07
5175	17485.94	42334.83	623.97
5176	17510.76	42381.78	621.27
5177	17538.29	42427.20	618.61
5178	17568.45	42470.91	616.05
5179	17601.12	42512.78	613.59
5180	17636.20	42552.66	611.23
5181	17673.57	42590.41	608.97
5182	17713.08	42625.89	606.81
5183	16396.47	42270.86	718.07
5184	16418.68	42307.95	718.07
5185	16443.77	42343.23	718.07
5186	16371.70	42284.78	703.86
5187	16395.65	42323.54	704.16
5188	16422.75	42360.18	704.57
5189	16455.46	42358.61	718.07
5190	16489.30	42399.10	718.07
5191	16519.96	42445.48	718.00
5192	16548.47	42480.16	718.00

Point Table

Point #	Northing	Easting	Elevation
5193	16586.22	42525.47	718.00
5194	16614.36	42559.98	718.00
5195	16647.29	42603.14	718.00
5196	16677.72	42648.17	718.00
5197	16730.20	42743.65	718.00
5198	16741.92	42767.93	718.00
5199	16752.70	42790.91	718.00
5200	16773.98	42836.24	718.00
5201	16794.68	42881.80	718.00
5202	16814.63	42927.67	718.00
5203	16435.77	42375.72	705.03
5204	16470.38	42415.54	705.54
5205	16501.27	42461.73	705.61
5206	16530.71	42495.60	706.23
5207	16569.39	42540.10	706.85
5208	16597.01	42573.57	706.98
5209	16628.29	42616.19	706.48
5210	16656.84	42660.68	705.83
5211	16682.56	42706.87	705.16
5212	16705.34	42754.58	704.43
5213	16715.47	42778.60	703.74
5214	16724.95	42802.11	703.04
5215	16743.66	42848.47	701.65
5216	16762.37	42894.84	700.58
5217	16781.08	42941.21	699.91
5218	16678.27	43018.14	689.75
5219	16687.49	43125.28	671.75
5220	16685.43	43014.57	688.75
5221	16687.22	43013.68	689.75
5222	16678.99	42955.44	700.40
5223	16688.34	42978.63	700.07
5224	16697.70	43001.81	699.74
5225	16707.05	43024.99	699.41
5226	16716.40	43048.18	699.07
5227	16725.76	43071.36	698.74
5228	16735.11	43094.55	698.41

Point Table

Point #	Northing	Easting	Elevation
5229	16744.47	43117.73	698.07
5230	16753.82	43140.91	697.74
5231	16763.17	43164.10	697.41
5232	16705.37	42695.09	718.00
5233	16826.57	42955.14	718.00
5234	16865.90	42940.29	718.07
5235	16912.66	42922.52	718.07
5236	16954.05	42906.82	718.07
5237	17012.71	42887.59	718.07
5238	17066.11	42873.35	718.07
5239	17120.11	42861.98	718.07
5240	17175.76	42853.33	718.07
5241	17230.25	42847.85	718.07
5242	17284.35	42845.26	718.07
5243	17315.47	42880.62	700.21
5244	17285.99	42881.07	700.08
5245	17259.60	42882.20	699.96
5246	17233.24	42884.03	699.85
5247	17206.94	42886.55	699.73
5248	17128.57	42898.26	699.38
5249	17076.94	42909.48	699.15
5250	17025.97	42923.40	698.91
5251	16964.55	42944.11	698.63
5252	16927.27	42958.79	698.45



INDEX MAP
N.T.S.

B.M. NO. DG 4760 ELEV. 604.954

CONSTRUCTION NOTES:

R / DESCRIPTION — SIZE

1. SAW CUT (1' MIN.) AND REMOVE EXISTING AC.
2. REMOVE EXIST. STORM DRAIN APPURTENANCES INCLUDING INLET STEEL GRATE, CONCRETE WINGWALL, CONCRETE GUTTER, RCP, COLLARS, INLET STRUCTURE, CMP, ETC.
4. REMOVE CONCRETE CURB AND GUTTER.
6. CONSTRUCT AREA DRAIN PER DETAIL "7" ON DETAIL SHEET D1.
7. CONSTRUCT CMP (12 GAUGE) INCLUDING BENDS, FITTING, REDUCERS, COUPLERS AND ANCHORS (20' MAX SPACING) FOR ABOVE GRADE INSTALLATION.
9. CONSTRUCT JUNCTION STRUCTURE – PIPE TO PIPE PER SSPWC STANDARD PLAN 332-2 CASE 1, FOR PIPES 24" DIAMETER OR SMALLER.
11. CONSTRUCT DOWNDRAIN PER DETAIL "2" ON DETAIL SHEET D1.
12. CONSTRUCT 10' CONCRETE TERRACE DRAIN PER DETAIL "3" ON DETAIL SHEET D1.
13. CONSTRUCT 23' CONCRETE TERRACE DRAIN PER DETAIL "8" ON DETAIL SHEET D1.
15. CONSTRUCT DOWNDRAIN INLET PER DETAIL "13" ON DETAIL SHEET D2.
21. CONSTRUCT JUNCTION STRUCTURE – PIPE TO PIPE PER SSPWC STANDARD PLAN 331-3, FOR PIPES 24" DIAMETER OR LARGER. ⚠1
22. CONSTRUCT DOWNDRAIN/TERRACE DRAIN INTERSECTION PER DETAIL "1" ON DETAIL SHEET D1, INCLUDING SPLASH WALLS.
23. CONSTRUCT CSP FLARED INLET PER SSPWC STANDARD PLAN 351-2.
25. CONSTRUCT SPLASH WALL PER DETAIL "4" ON DETAIL SHEET D1. ⚠1
26. CONSTRUCT 60" CMP INLET PER DETAIL "9" ON DETAIL SHEET D1.
27. CONSTRUCT CONCRETE COLLAR PER SPPWC STANDARD PLAN 380-4.
29. CONSTRUCT RCP STORM DRAIN.

LEGEND:

HP – HIGH POINT
LP – LOW POINT
GB – GRADE BREAK
CF – CURB FACE
FL – FLOWLINE
EP – EDGE OF PAVEMENT
DL – DAYLIGHT LINE
FG – FINISH GRADE
CMP – CORRUGATED METAL PIPE
R/W – RIGHT OF WAY
(P) – PROTECT IN PLACE
R( ) – CONSTRUCTION NOTE INDICATING REMOVAL ITEMS

SCALE: 1"=50'

NO.	DATE	REVISIONS	CK BY
1	9/4/15	ADDED CONSTRUCTION NOTES, CHAIN LINK FENCE AND SPLASH WALL.	JLN

Prepared by: CNC ENGINEERING, Consulting Civil Engineers Surveyors
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REGISTERED PROFESSIONAL ENGINEER JOSHUA L. NELSON No. C66959 CIVIL STATE OF CALIFORNIA

JOSHUA L. NELSON, R.C.E. C66959 DATE
DESIGN BY: RI DRAWN: JP

SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY
APPROVED BY:
JOHN D. BALLAS, R.C.E. 34311, CITY ENGINEER DATE

INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

GRADING PLAN G4

CHECKED: JN
DATE: JUNE 2015

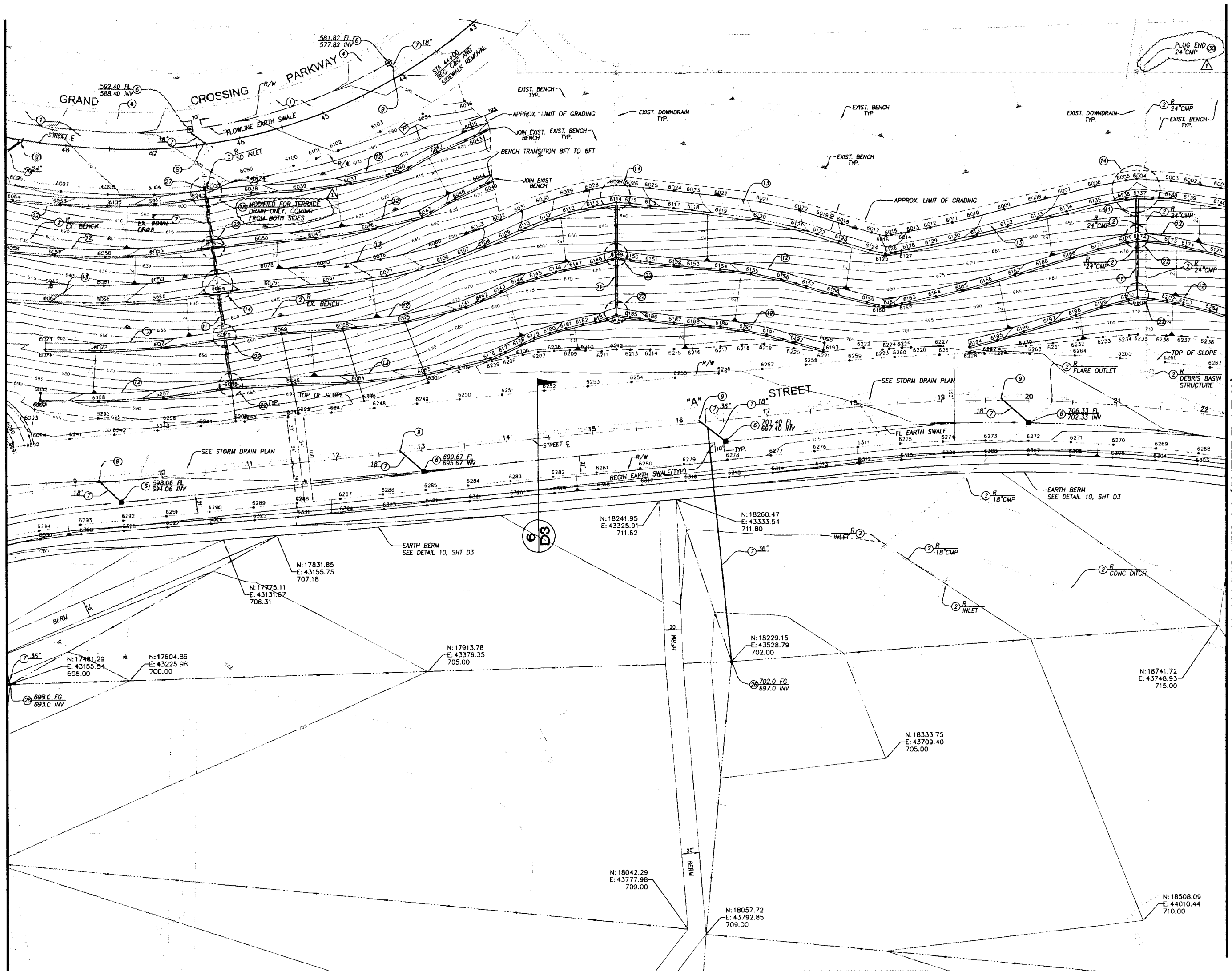
JOB NO.: IBC-0381R | SHT. 5 OF 19

CONTRACT DRAWING NO. 11 OF 41

CONTRACT NO.: IBC-0381R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

ADDENDUM NO. 3

MATCH LINE SEE G4 (SHEET 5 OF 19)



MATCH LINE SEE G6 (SHEET 7 OF 19)

MATCH LINE SEE G10 (SHEET 11 OF 19)

SCALE: 1"=50'

Point #	Northing	Easting	Elevation
6000	17944.66	42765.27	596.13
6001	18977.85	43302.70	649.64
6002	18948.73	43281.61	647.35
6003	18931.32	43269.14	645.99
6004	18898.14	43249.23	645.16
6005	18886.68	43245.27	645.58
6006	18851.77	43235.10	647.60
6007	18817.46	43226.96	649.57
6008	18783.49	43219.01	651.52
6009	18747.89	43210.86	653.57
6010	18712.51	43202.89	760.52
6011	18688.02	43196.76	657.01
6012	18663.37	43190.25	658.44
6013	18638.67	43182.94	659.88
6014	18630.91	43180.61	660.34
6015	18619.70	43177.23	660.67
6016	18613.61	43175.25	660.57
6017	18600.92	43164.20	659.38
6018	18575.72	43139.50	655.45
6019	18557.87	43121.30	652.62
6020	18540.18	43103.39	649.90
6021	18504.97	43073.82	646.27
6022	18467.29	43046.72	642.51
6023	18440.90	43028.53	639.18
6024	18423.24	43016.60	637.60
6025	18400.62	43001.31	635.58
6026	18381.51	42988.51	634.06
6027	18368.03	42980.34	633.72
6028	18341.87	42971.97	634.74
6029	18313.57	42964.64	637.96
6030	18285.95	42959.67	641.57
6031	18258.29	42956.58	645.15
6032	18230.95	42954.10	648.67
6033	18203.95	42951.70	650.59
6034	18207.40	42803.53	586.17
6035	18251.22	42845.24	601.20
6036	18257.63	42812.61	584.47
6037	18096.18	42834.84	604.94
6038	17990.07	42791.77	598.13
6039	18041.79	42815.36	601.50
6040	18152.92	42850.10	608.50

Point Table

Point #	Northing	Easting	Elevation
6042	18202.23	42849.72	604.41
6043	18249.68	42853.09	600.20
6044	18240.16	42901.55	624.90
6045	18030.70	42872.29	625.50
6046	18089.87	42892.49	628.94
6047	18151.43	42908.09	632.50
6048	18195.76	42907.36	628.41
6049	18238.62	42909.40	623.90
6050	17974.27	42847.58	622.13
6051	17921.60	42827.18	619.13
6052	17886.87	42752.27	598.56
6053	17789.74	42702.11	605.10
6054	17744.29	42672.76	608.31
6055	17861.74	42805.32	622.91
6056	17807.00	42779.90	626.51
6057	17757.03	42751.54	629.74
6058	17708.64	42720.30	633.02
6059	17847.73	42834.89	639.27
6060	18150.33	42946.17	653.68
6061	17790.47	42808.38	642.97
6062	17738.51	42779.53	646.52
6064	17903.82	42875.84	633.57
6065	17839.17	42852.96	637.77
6066	17780.44	42825.67	641.47
6067	17727.47	42796.20	645.02
6068	18009.82	42979.41	663.55
6069	17945.00	42951.03	659.40
6070	17885.12	42926.50	655.57
6071	17815.92	42902.03	659.92
6072	17752.73	42873.41	664.07
6073	17701.15	42835.98	668.87
6074	17696.73	42842.65	667.87
6075	18077.47	43005.74	669.40
6076	18085.81	42929.59	647.60
6077	18083.63	42949.47	646.10
6078	17965.30	42879.28	638.60
6079	17959.86	42898.52	637.10
6080	18024.08	42906.25	642.80
6081	18020.25	42925.88	641.30
6082	17669.03	42884.52	692.97
6083	18070.42	43070.15	696.80

Point Table

Point #	Northing	Easting	Elevation
6084	17997.56	43042.33	690.60
6085	17928.61	43008.95	684.50
6086	17865.44	42979.78	678.97
6087	17791.38	42953.81	683.57
6088	17723.72	42923.40	687.97
6089	17664.61	42891.19	691.97
6090	17615.25	42902.93	699.96
6091	17614.40	42920.05	701.35
6092	17624.39	42929.19	701.59
6093	17635.01	42899.57	699.17
6094	17634.40	42921.91	700.89
6095	18494.31	43251.75	708.14
6096	17754.62	42658.99	604.70
6097	17798.03	42689.59	602.59
6098	17843.16	42717.58	600.48
6099	17994.99	42774.36	594.08
6100	18047.34	42786.84	591.97
6101	18073.86	42791.44	590.92
6102	18100.55	42794.92	589.86
6103	18154.25	42798.55	587.71
6104	17891.31	42742.90	598.37
6105	17836.76	42728.61	601.86
6106	18149.72	42966.22	652.18
6107	18175.44	42969.19	650.99
6108	18201.15	42971.53	649.09
6109	18227.02	42973.83	647.17
6110	18253.21	42976.16	643.65
6111	18279.78	42978.91	640.07
6112	18306.34	42983.44	636.46
6113	18333.54	42990.33	633.24
6114	18358.75	42998.10	632.22
6115	18372.23	43006.27	632.56
6116	18391.30	43019.16	634.08
6117	18413.93	43034.44	636.10
6118	18431.59	43046.38	637.68
6119	18457.96	43064.59	641.01
6120	18493.50	43090.20	644.77
6121	18526.69	43118.17	648.40
6122	18545.16	43136.90	651.12
6123	18563.81	43155.92	653.95
6124	18590.18	43181.67	657.88

Point Table

Point #	Northing	Easting	Elevation
6125	18603.59	43192.96	659.07
6126	18609.87	43195.15	659.17
6127	18621.59	43198.69	658.84
6128	18629.69	43201.12	658.38
6129	18655.46	43208.84	656.94
6130	18681.20	43215.66	655.51
6131	18706.78	43222.10	654.10
6132	18741.46	43229.91	652.07
6133	18776.36	43237.88	650.02
6134	18809.66	43245.68	648.07
6135	18843.37	43253.50	646.10
6136	18877.64	43263.36	644.08
6137	18888.97	43267.06	643.66
6138	18921.52	43286.58	644.49
6139	18938.53	43298.92	645.85
6140	18967.09	43319.60	648.14
6141	18148.20	43023.75	675.95
6142	18170.73	43025.59	674.29
6143	18193.31	43027.13	672.16
6144	18216.12	43028.45	670.02
6145	18238.54	43032.71	667.86
6146	18261.08	43037.16	665.66
6147	18283.36	43043.13	663.44
6148	18306.33	43050.22	661.13
6149	18329.37	43054.37	658.96
6150	18342.04	43064.09	660.17
6151	18360.89	43077.40	661.93
6152	18383.45	43092.82	664.03
6153	18401.06	43104.85	665.66
6154	18428.26	43121.47	668.09
6155	18457.44	43141.74	671.22
6156	18485.01	43163.83	674.31
6157	18506.56	43184.27	676.68
6158	18528.36	43204.80	679.14
6159	18559.09	43232.26	682.57
6160	18573.92	43245.40	684.19
6161	18580.42	43248.91	684.82
6162	18593.98	43252.21	683.95
6163	18603.15	43254.87	683.35
6164	18632.35	43263.15	681.45
6165	18661.48	43270.33	679.57

Point Table

Point #	Northing	Easting	Elevation
6166	18690.42	43276.93	677.71
6167	18723.58	43282.90	675.03
6168	18757.06	43288.99	672.34
6169	18789.12	43294.97	669.77
6170	18821.70	43300.92	667.17
6171	18854.94	43308.81	664.49
6172	18866.18	43311.40	663.59
6173	18896.13	43331.76	665.40
6174	18911.49	43344.79	667.48
6175	18937.19	43366.53	670.96
6176	18146.46	43089.73	703.95
6177	18165.25	43091.37	702.29
6178	18184.10	43092.49	700.16
6179	18203.21	43093.17	698.02
6180	18221.97	43096.59	695.86
6181	18240.91	43100.00	693.66
6182	18259.64	43104.72	691.44
6183	18279.04	43110.31	689.13
6184	18298.83	43112.87	686.96
6185	18311.50	43122.60	688.17
6186	18330.34	43135.91	689.93
6187	18352.90	43151.32	692.03
6188	18370.51	43163.35	693.66
6189	18397.71	43179.98	696.09
6190	18419.60	43195.81	699.22
6191	18440.51	43212.57	702.31
6192	18464.87	43235.43	704.68
6193	18489.61	43258.23	707.14
6194	18639.09	43332.42	707.57
6195	18671.56	43340.18	705.71
6196	18702.47	43345.43	703.03
6197	18733.74	43350.73	700.34
6198	18763.74	43355.89	697.77
6199	18794.27	43360.95	695.17
6200	18825.45	43367.86	692.49
6201	18836.01	43370.10	691.59
6202	18863.79	43389.30	693.40
6203	18877.98	43401.65	695.48
6204	18901.73	43422.19	698.96
6205	18164.63	43098.81	706.03
6206	18182.42	43104.36	706.16

Point Table

Point #	Northing	Easting	Elevation
6207	18199.97	43109.40	706.29
6208	18216.67	43117.04	706.41
6209	18233.03	43124.53	706.54
6210	18248.71	43133.11	706.65
6211	18264.45	43142.43	706.76
6212	18280.38	43148.20	706.88
6213	18294.09	43155.94	706.98
6214	18314.42	43166.40	707.13
6215	18338.75	43178.43	707.32
6216	18357.73	43187.82	707.46
6217	18386.98	43200.53	707.68
6218	18409.72	43209.94	707.84
6219	18432.82	43220.98	708.01
6220	18460.37	43240.96	708.24
6221	18488.06	43260.38	708.47
6222	18531.39	43277.34	709.02
6223	18549.17	43289.12	709.31
6224	18556.77	43292.08	709.43
6225	18570.44	43297.86	709.63
6226	18579.74	43302.28	709.79
6227	18609.79	43316.14	710.25
6228	18636.95	43338.34	710.71
6229	18668.42	43350.69	711.19
6230	18696.98	43361.70	711.62
6231	18725.48	43372.62	712.04
6232	18752.46	43382.94	712.42
6233	18779.63	43393.01	712.79
6234	18806.97	43404.85	713.16
6235	18816.18	43408.68	713.28
6236	18843.92	43424.67	713.68
6237	18859.26	43433.41	713.91
6238	18885.28	43448.02	714.27
6239	18146.36	43093.62	705.89
6240	17941.89	42772.77	595.81

CONSTRUCTION NOTES:

(1) SAW CUT (1' MIN.) AND REMOVE EXISTING AC.

(2) REMOVE EXIST. STORM DRAIN APPURTENANCES INCLUDING INLET STEEL GRATE, CONCRETE WINGWALL, CONCRETE GUTTER, RCP, COLLARS, INLET STRUCTURE, CMP, ETC.

(4) REMOVE CONCRETE CURB AND GUTTER.

(6) CONSTRUCT AREA DRAIN PER DETAIL "7" ON DETAIL SHEET D1.

(7) CONSTRUCT CMP (12 GAUGE) INCLUDING BENDS, FITTING, REDUCERS, COUPLERS AND ANCHORS (20' MAX SPACING) FOR ABOVE GRADE INSTALLATION.

(9) CONSTRUCT JUNCTION STRUCTURE – PIPE TO PIPE $\leq$ 24" PER SSPWC STANDARD PLAN 332-2 CASE 1, FOR PIPES 24" DIAMETER OR SMALLER

(11) CONSTRUCT DOWNDRAIN PER DETAIL "2" ON DETAIL SHEET D1

(12) CONSTRUCT 10' CONCRETE TERRACE DRAIN PER DETAIL "3" ON DETAIL SHEET D1.

(13) CONSTRUCT 23' CONCRETE TERRACE DRAIN PER DETAIL "8" ON DETAIL SHEET D1.

(14) CONSTRUCT DOWNDRAIN/23' TERRACE DRAIN CONNECTION PER DETAIL "12" ON DETAIL SHEET D2.

(18) CONSTRUCT DOWNDRAIN/10' TERRACE DRAIN CONNECTION PER DETAIL "11" ON DETAIL SHEET D2.

(22) CONSTRUCT DOWNDRAIN/TERRACE DRAIN INTERSECTION PER DETAIL "1" ON DETAIL SHEET D1, INCLUDING SPLASH WALLS.

(26) CONSTRUCT 60" CMP INLET PER DETAIL "9" ON DETAIL SHEET D1.

(27) CONSTRUCT CONCRETE COLLAR PER SPPWC STANDARD PLAN 380-4.

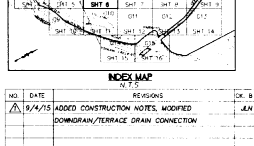
(29) CONSTRUCT RCP STORM DRAIN.

(30) PLUG END TO MAKE WATER TIGHT SEAL WITH BRICK & MORTAR 8" THICK MINIMUM.

LEGEND:

HP – HIGH POINT
LP – LOW POINT
GB – GRADE BREAK
CF – CURB FACE
FL – FLOWLINE
EP – EDGE OF PAVEMENT
DL – DAYLIGHT LINE
FG – FINISH GRADE
CMP – CORRUGATED METAL PIPE
R/W – RIGHT OF WAY
(P) – PROTECT IN PLACE
R( ) – CONSTRUCTION NOTE INDICATING REMOVAL ITEMS

B.M. NO. DC 4750 ELEV. 504.954
L&BR M CB @ NW Cor Bridge Over San Jose Creek 748ft S/O C/L Valley Blvd & 45ft W/O C/L Grand Ave
Adjusted: 1990 (Baseline) Covina Quad



INDEX MAP
N.T.S

NO.	DATE	REVISIONS	CK. BY
1	9/4/15	ADDED CONSTRUCTION NOTES, MODIFIED DOWNDRAIN/TERRACE DRAIN CONNECTION	JLN

Prepared by:
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JOSHUA L. NELSON, R.C.E. C66959 DATE
DESIGN BY: JN DRAWN: JP

REGISTERED PROFESSIONAL ENGINEER JOSHUA L. NELSON No. C66959 CIVIL STATE OF CALIFORNIA

SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY
APPROVED BY:
JOHN D. BALLAS, R.C.E. 34311, CITY ENGINEER DATE

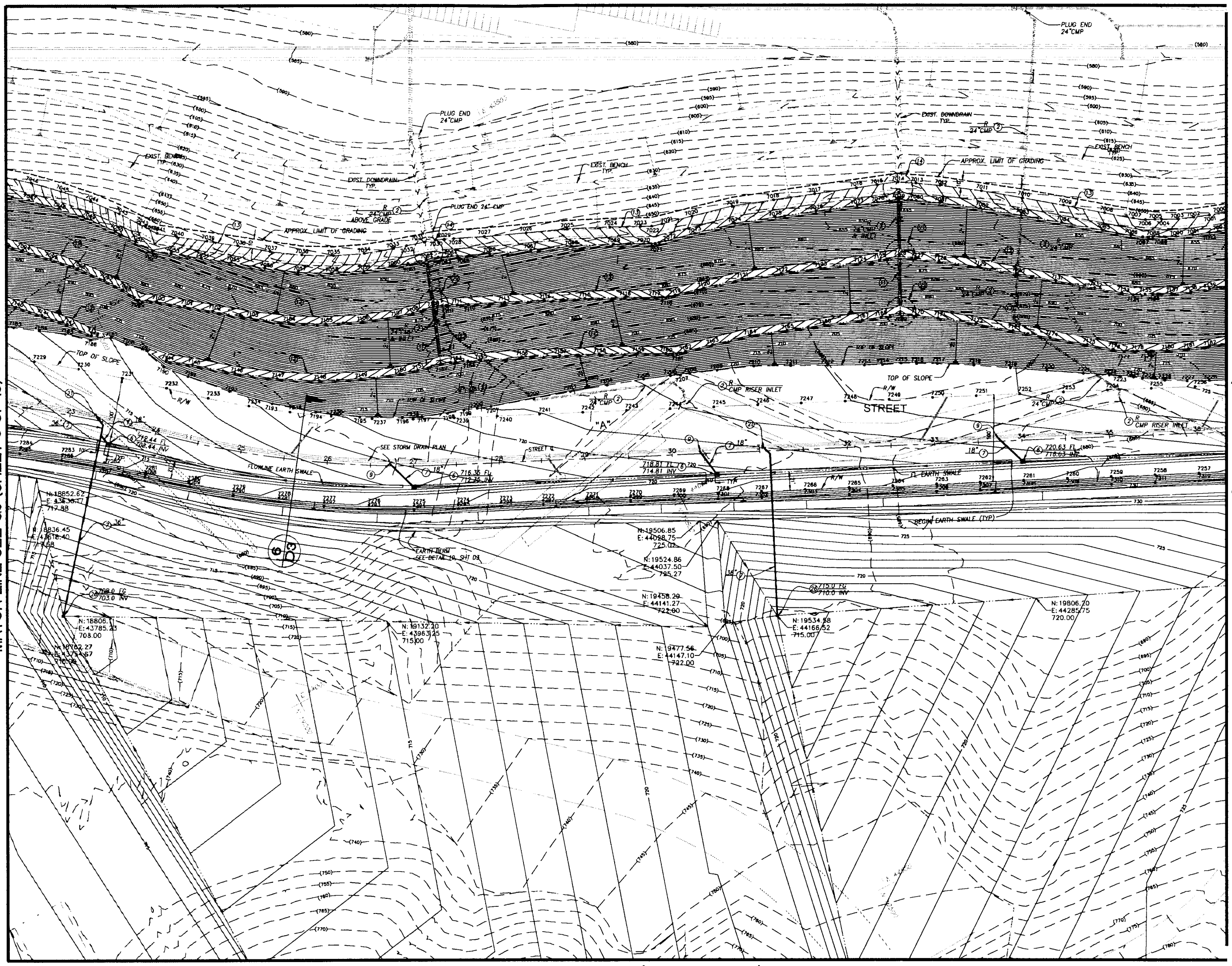
INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

GRADING PLAN G5

CHECKED: JN
DATE: JUNE 2015
JOB NO.: IBC-381R
SHT. 6 OF 19
CONTRACT DRAWING NO. 12 OF 41

CONTRACT NO.: IBC-0381R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

ADDENDUM NO. 3



MATCH LINE SEE G5 (SHEET 6 OF 19)

MATCH LINE SEE G7 (SHEET 8 OF 19)

MATCH LINE SEE G11 (SHEET 12 OF 19)

Point Table

Point #	Northing	Easting	Elevation
7000	20203.38	43990.88	650.38
7001	20186.38	43985.11	651.28
7002	20169.26	43979.13	652.20
7003	20152.29	43972.40	653.13
7004	20135.86	43964.41	654.05
7005	20129.27	43961.10	654.42
7006	20119.39	43956.13	654.72
7007	20108.03	43948.08	654.34
7008	20081.77	43927.56	652.44
7009	20044.48	43898.30	649.74
7010	20006.88	43869.09	647.13
7011	19968.78	43840.18	644.70
7012	19929.59	43812.55	642.26
7013	19906.53	43797.66	640.86
7014	19889.03	43786.92	640.34
7015	19866.03	43778.70	641.08
7016	19843.59	43771.08	642.51
7017	19798.48	43755.21	645.41
7018	19753.43	43739.69	648.29
7019	19708.46	43724.35	651.17
7020	19662.16	43713.17	753.60
7021	19627.64	43705.05	656.20
7022	19616.08	43702.09	656.57
7023	19604.39	43696.28	656.14
7024	19573.01	43680.54	653.83
7025	19529.07	43660.24	650.64
7026	19484.21	43641.68	648.10
7027	19438.90	43622.74	645.55
7028	19408.16	43608.35	643.68
7029	19396.05	43603.83	643.10
7030	19386.26	43599.55	642.67
7031	19373.63	43596.04	642.48
7032	19353.85	43590.29	642.95
7033	19338.93	43586.03	643.91
7034	19308.34	43575.01	646.84
7035	19273.38	43560.65	649.48
7036	19241.67	43543.01	652.35
7037	19211.20	43522.57	655.25
7038	19181.62	43499.97	658.25

Point Table

Point #	Northing	Easting	Elevation
7039	19152.80	43478.84	661.85
7040	19124.38	43457.94	664.41
7041	19106.83	43444.52	666.49
7042	19094.10	43425.95	665.32
7043	19078.72	43404.46	662.58
7044	19056.22	43376.45	658.86
7045	19031.54	43350.45	655.15
7046	19005.47	43325.72	651.93
7047	18994.10	43342.29	650.43
7048	19019.56	43366.66	653.65
7049	19043.65	43392.28	657.36
7050	19065.49	43419.98	661.08
7051	19080.38	43441.22	663.82
7052	19092.82	43459.46	664.99
7053	19110.24	43472.37	663.91
7054	19138.08	43492.86	660.35
7055	19166.40	43513.49	656.75
7056	19197.22	43537.25	653.75
7057	19228.96	43558.79	650.85
7058	19262.00	43577.48	647.98
7059	19296.39	43592.73	645.14
7060	19330.47	43604.42	642.41
7061	19346.12	43608.87	641.45
7062	19366.85	43614.91	640.98
7063	19380.08	43618.59	641.17
7064	19390.32	43623.18	641.60
7065	19400.91	43627.91	642.18
7066	19435.24	43642.98	644.05
7067	19480.02	43661.60	646.60
7068	19524.33	43679.92	649.14
7069	19567.69	43700.12	652.33
7070	19598.65	43715.79	654.64
7071	19610.21	43721.49	655.07
7072	19621.69	43724.20	654.70
7073	19655.79	43732.21	652.56
7074	19701.57	43743.13	649.67
7075	19746.00	43758.28	646.79
7076	19790.50	43773.60	643.91
7077	19835.06	43789.30	641.01

Point Table

Point #	Northing	Easting	Elevation
7078	19857.23	43796.81	639.58
7079	19880.00	43804.84	638.84
7080	19897.28	43815.45	639.36
7081	19920.05	43830.20	640.76
7082	19958.72	43857.56	643.20
7083	19996.32	43886.19	645.63
7084	20033.45	43915.05	648.24
7085	20070.28	43943.97	650.94
7086	20096.22	43964.24	652.84
7087	20107.27	43972.42	653.22
7088	20117.59	43977.61	652.92
7089	20124.47	43981.07	652.55
7090	20141.50	43989.60	651.63
7091	20159.13	43996.78	650.70
7092	20177.03	44003.03	649.78
7093	20194.73	44009.18	648.88
7094	18961.24	43390.12	674.45
7095	18984.75	43413.76	677.94
7096	19007.51	43437.77	681.41
7097	19028.10	43463.84	684.90
7098	19042.12	43483.86	687.46
7099	19052.25	43502.72	689.64
7100	19069.83	43513.61	687.78
7101	19095.41	43533.49	684.82
7102	19121.45	43553.41	681.81
7103	19155.93	43580.57	678.67
7104	19191.66	43605.09	675.58
7105	19228.89	43626.41	672.52
7106	19267.65	43643.92	669.49
7107	19306.09	43657.43	666.59
7108	19323.96	43662.10	665.28
7109	19348.20	43666.77	663.54
7110	19362.63	43672.40	664.46
7111	19374.06	43678.02	665.20
7112	19386.00	43683.54	665.98
7113	19424.78	43700.90	668.47
7114	19467.53	43720.88	671.89
7115	19509.75	43740.46	675.27
7116	19551.28	43760.57	678.64

Point Table

Point #	Northing	Easting	Elevation
7117	19580.90	43776.14	681.09
7118	19591.74	43782.49	681.93
7119	19602.95	43784.53	681.29
7120	19635.60	43792.60	679.39
7121	19679.41	43803.54	676.84
7122	19721.86	43818.65	674.30
7123	19764.37	43833.86	671.75
7124	19806.91	43849.40	669.19
7125	19828.09	43856.80	667.92
7126	19850.50	43863.38	666.61
7127	19866.52	43874.67	667.72
7128	19888.23	43889.06	669.21
7129	19925.07	43915.74	671.80
7130	19960.85	43943.63	674.39
7131	19996.36	43971.40	676.97
7132	20031.75	43999.00	679.53
7133	20056.69	44018.32	681.34
7134	20066.93	44026.64	682.01
7135	20079.06	44032.05	681.27
7136	20086.94	44035.91	680.77
7137	20106.49	44045.37	679.55
7138	20126.66	44053.38	678.33
7139	20147.10	44060.34	677.11
7140	18923.87	43444.52	702.45
7141	18945.51	43466.83	705.94
7142	18966.46	43489.46	709.41
7143	18985.28	43514.07	712.90
7144	19047.61	43579.00	712.82
7145	19072.10	43597.24	709.81
7146	19110.40	43628.35	706.67
7147	19150.26	43658.49	703.58
7148	19191.90	43681.08	700.52
7149	19235.33	43701.47	697.49
7150	19278.51	43717.39	694.59
7151	19298.60	43723.04	693.28
7152	19325.87	43728.88	691.54
7153	19342.26	43735.18	692.46
7154	19355.30	43741.30	693.20
7155	19368.91	43747.29	693.98

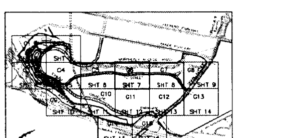
Point Table

Point #	Northing	Easting	Elevation
7156	19413.04	43765.84	696.47
7157	19453.94	43785.46	699.89
7158	19494.30	43804.62	703.27
7159	19533.98	43824.26	706.84
7160	19562.27	43839.46	709.09
7161	19572.62	43845.66	709.93
7162	19583.37	43847.55	709.29
7163	19614.66	43855.19	707.39
7164	19656.68	43865.50	704.84
7165	19697.35	43879.93	702.30
7166	19738.11	43894.41	699.75
7167	19778.92	43909.17	697.19
7168	19799.25	43916.16	695.92
7169	19820.80	43922.32	694.61
7170	19836.09	43933.24	695.72
7171	19856.84	43947.12	697.21
7172	19892.02	43972.87	699.80
7173	19926.17	43999.78	702.39
7174	19960.08	44026.53	704.97
7175	19993.89	44053.06	707.53
7176	20017.74	44071.61	709.34
7177	20027.53	44079.59	710.01
7178	20040.93	44085.92	709.27
7179	20049.67	44090.38	708.77
7180	20071.41	44101.28	707.55
7181	20093.82	44110.63	706.33
7182	20116.55	44118.85	705.11
7183	18910.05	43464.64	714.65
7184	18934.71	43481.45	715.02
7185	18959.02	43498.83	715.40
7186	18981.55	43518.45	715.78
7187	19003.95	43526.39	716.04
7188	19015.81	43541.58	716.28
7189	19029.60	43554.66	716.52
7190	19041.71	43584.62	716.89
7191	19061.02	43607.08	717.22
7192	19095.08	43644.42	717.77
7193	19131.73	43679.49	718.34
7194	19171.30	43711.53	718.90

Point Table

Point #	Northing	Easting	Elevation
7195	19213.81	43739.79	719.47
7196	19257.26	43763.60	720.01
7197	19277.86	43772.86	720.26
7198	19306.20	43783.57	720.60
7199	19324.76	43789.12	720.82
7200	19339.51	43794.57	720.99
7201	19354.83	43799.81	721.17
7202	19404.16	43815.03	721.46
7203	19444.96	43828.07	721.66
7204	19485.60	43840.76	721.85
7205	19525.91	43854.00	722.05
7206	19554.88	43864.59	722.19
7207	19565.48	43869.23	722.24
7208	19575.65	43872.39	722.29
7209	19605.12	43883.72	722.43
7210	19644.43	43898.89	722.63
7211	19682.11	43918.04	722.82
7212	19719.59	43937.11	723.02
7213	19756.85	43956.29	723.21
7214	19775.33	43965.42	723.30
7215	19794.89	43973.73	723.40
7216	19810.50	43982.50	723.48
7217	19831.75	43993.53	723.59
7218	19868.01	44014.38	723.78
7219	19903.49	44036.50	723.97
7220	19938.98	44058.60	724.16
7221	19974.59	44080.62	724.36
7222	19999.85	44096.08	724.49
7223	20010.16	44102.93	724.56
7224	20023.17	44111.01	724.64
7225	20031.89	44116.66	724.70
7226	20053.04	44130.55	724.83
7227	20075.28	44142.96	724.96
7228	20098.05	44154.28	725.10
7229	18913.04	43510.22	714.04
7230	18953.96	43541.48	714.91
7231	18993.59	43573.82	715.74
7232	19033.12	43607.36	716.52
7233	19069.85	43639.53	717.21

ADDITIONAL POINT TABLE TO BE PROVIDED DURING STAKING.



INDEX MAP
N.T.S.

B.M. NO. DC 4760 ELEV. 604.864

CONSTRUCTION NOTES:

R/DESCRIPTION (2) REMOVE EXIST. STORM DRAIN APPURTENANCES INCLUDING INLET STEEL GRATE, CONCRETE WINGWALL, CONCRETE GUTTER, RCP, COLLARS, INLET STRUCTURE, ETC.

(6) CONSTRUCT AREA DRAIN PER DETAIL "7" ON DETAIL SHEET D1.

SIZE (7) CONSTRUCT CMP (12 GAUGE) INCLUDING BENDS, FITTING, REDUCERS, COUPLERS AND ANCHORS (20' MAX SPACING) FOR ABOVE GRADE INSTALLATION.

(9) CONSTRUCT JUNCTION STRUCTURE - PIPE TO PIPE PER SSPWC STANDARD PLAN 332-2 CASE 1, FOR PIPES 24" DIAMETER OR SMALLER.

(11) CONSTRUCT DOWNDRAIN PER DETAIL "2" ON DETAIL SHEET D1.

(12) CONSTRUCT 10' CONCRETE TERRACE DRAIN PER DETAIL "3" ON DETAIL SHEET D1.

(13) CONSTRUCT 23' CONCRETE TERRACE DRAIN PER DETAIL "8" ON DETAIL SHEET D1.

(14) CONSTRUCT DOWNDRAIN/23' TERRACE DRAIN CONNECTION PER DETAIL "12" ON DETAIL SHEET D2.

(21) CONSTRUCT JUNCTION STRUCTURE - PIPE TO PIPE PER SSPWC STANDARD PLAN 331-3, FOR PIPES 24" DIAMETER OR LARGER.

(22) CONSTRUCT DOWNDRAIN/TERRACE DRAIN INTERSECTION PER DETAIL "1" ON DETAIL SHEET D1, INCLUDING SPLASH WALLS.

(26) CONSTRUCT 60" CMP INLET PER DETAIL "9" ON DETAIL SHEET D1.

LEGEND:

HP - HIGH POINT
LP - LOW POINT
GB - GRADE BREAK
CF - CURB FACE
FL - FLOWLINE
EP - EDGE OF PAVEMENT
DL - DAYLIGHT LINE
FG - FINISH GRADE
CMP - CORRUGATED METAL PIPE
R/W - RIGHT OF WAY
(P) - PROTECT IN PLACE
R○ - CONSTRUCTION NOTE INDICATING REMOVAL ITEMS

SCALE: 1"=50'

NO.	DATE	REVISIONS	CK. BY

Prepared by:
CNC ENGINEERING
Consulting Civil Engineers • Surveyors
255 N. Hacienda Blvd., Ste. 222
City of Industry, Ca. 91744
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JOSHUA L. NELSON, R.C.E. C66959 DATE
DESIGN BY: RI DRAWN: JP

REGISTERED PROFESSIONAL ENGINEER
JOSHUA L. NELSON
No. C66959
CIVIL
STATE OF CALIFORNIA

SUCCESSOR AGENCY TO THE
INDUSTRY URBAN-DEVELOPMENT AGENCY
APPROVED BY:
JOHN D. BALLAS, R.C.E. 34311, CITY ENGINEER DATE

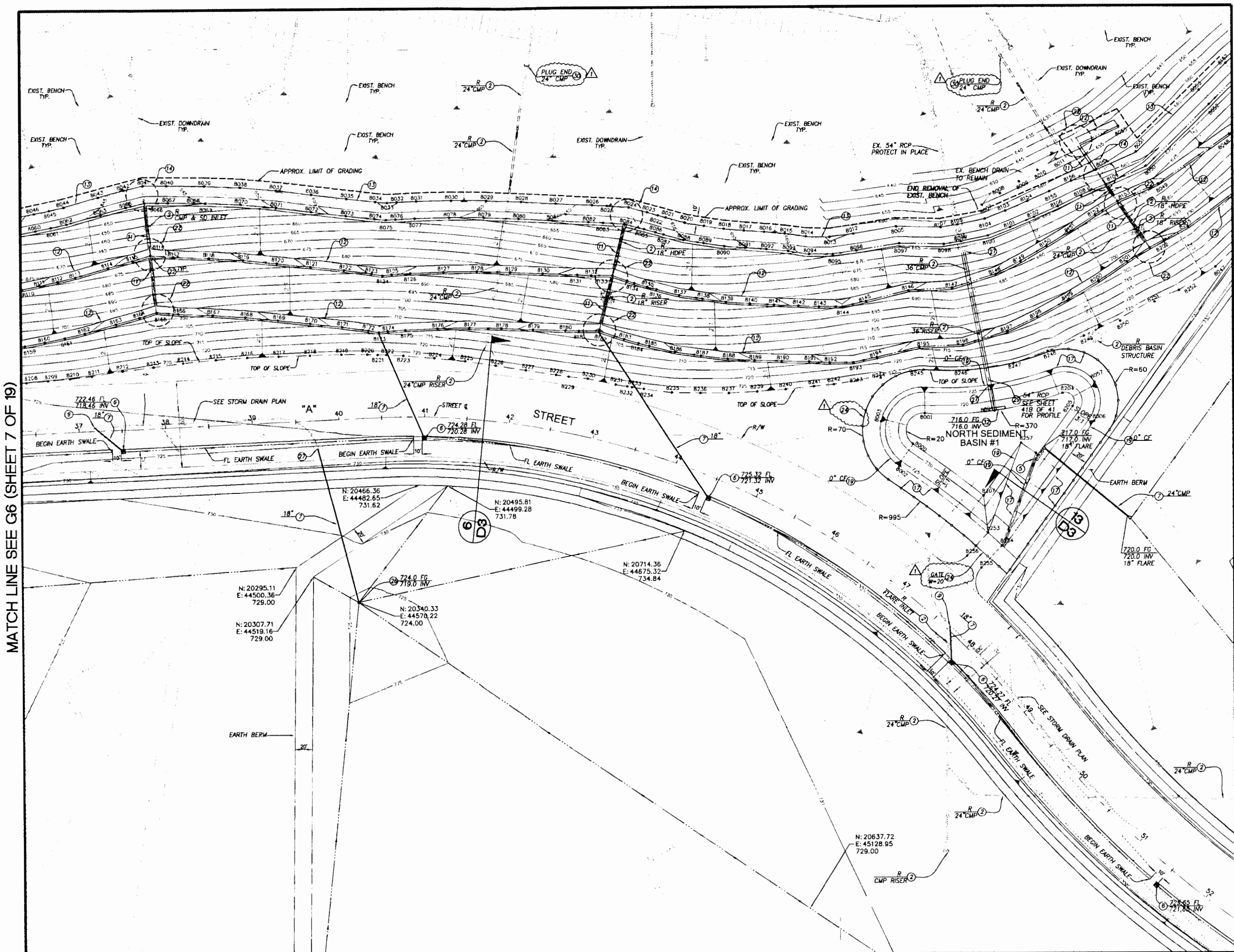
INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

GRADING PLAN G6

CHECKED: JN
DATE: JUNE 2015
JOB NO.: IBC-0381R
SHT. 7 OF 19
CONTRACT DRAWING NO. 13 OF 41

CONTRACT NO.: IBC-0381R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

MATCH LINE SEE G6 (SHEET 7 OF 19)



MATCH LINE SEE G8 (SHEET 9 OF 19)

MATCH LINE SEE G12 (SHEET 13 OF 19)

Point Table

Point #	Northing	Easting	Elevation
8000	20994.60	44707.76	717.00
8001	21023.42	44682.62	717.00
8002	20968.85	44723.33	727.00
8003	20974.48	44667.55	727.00
8004	21095.96	44717.45	717.00
8005	21095.62	44475.77	664.10
8006	21191.33	44781.31	727.00
8007	21194.61	44499.43	655.12
8008	21219.35	44497.28	653.17
8009	21245.24	44495.09	651.68
8010	21270.19	44493.43	650.52
8011	21294.85	44491.79	649.59
8012	21048.08	44460.27	664.90
8013	21021.98	44450.99	665.39
8014	20998.21	44437.49	663.14
8015	20978.48	44423.45	660.09
8016	20958.33	44410.51	657.91
8017	20938.51	44398.21	656.20
8018	20919.20	44385.68	654.52
8019	20900.81	44372.10	652.85
8020	20882.91	44358.30	651.19
8021	20866.50	44342.79	649.54
8022	20859.67	44336.31	648.85
8023	20850.34	44327.49	648.08
8024	20834.19	44312.51	647.57
8025	20812.95	44299.24	648.21
8026	20798.42	44290.60	649.09
8027	20762.47	44269.40	651.13
8028	20726.82	44248.26	753.27
8029	20691.13	44227.55	655.06
8030	20654.64	44208.37	657.02
8031	20617.90	44190.00	658.98
8032	20597.44	44180.41	660.05
8033	20587.10	44175.59	660.33
8034	20575.68	44168.25	659.94
8035	20547.43	44149.20	658.01
8036	20513.79	44125.87	654.98
8037	20480.02	44102.30	651.62
8038	20445.33	44080.02	649.00
8039	20409.60	44059.43	646.65
8040	20371.39	44038.72	644.19

Point Table

Point #	Northing	Easting	Elevation
8041	20347.09	44025.92	643.44
8042	20325.27	44020.49	644.03
8043	20295.06	44013.74	645.60
8044	20254.51	44005.39	647.69
8045	20237.48	44000.91	648.58
8046	20220.49	43995.95	649.47
8047	21398.28	44687.91	728.50
8048	21484.17	44558.48	681.57
8049	21385.12	44571.92	674.20
8050	21382.25	44547.01	666.67
8051	21379.99	44527.14	668.17
8052	21479.62	44517.59	666.00
8053	21477.34	44497.73	667.50
8054	21329.33	44524.59	665.50
8055	21375.89	44491.12	650.75
8057	21212.90	44741.61	727.00
8060	20212.62	44014.48	647.97
8061	20230.36	44019.70	647.08
8062	20248.12	44024.50	646.19
8063	20288.19	44032.71	644.10
8065	20318.06	44039.31	642.53
8066	20339.65	44044.61	641.94
8067	20363.65	44057.25	642.69
8068	20389.48	44071.27	644.38
8069	20401.39	44077.73	645.15
8070	20436.67	44098.11	647.50
8071	20470.90	44120.22	650.12
8072	20504.21	44143.58	653.48
8073	20537.45	44166.62	656.51
8074	20565.37	44185.41	658.44
8075	20576.59	44192.76	658.83
8076	20586.81	44197.52	658.55
8077	20607.04	44206.94	657.48
8078	20643.37	44225.04	655.52
8079	20679.47	44243.90	653.56
8080	20714.74	44264.35	651.60
8081	20749.95	44285.24	649.63
8082	20785.48	44306.18	647.59
8083	20799.86	44314.68	646.71
8084	20821.03	44327.58	646.07
8085	20837.95	44343.27	646.58

Point Table

Point #	Northing	Easting	Elevation
8086	20847.71	44352.53	647.35
8087	20854.86	44359.31	648.04
8088	20872.06	44375.56	649.69
8089	20890.97	44389.72	651.35
8090	20910.24	44403.92	653.02
8091	20930.53	44416.84	654.70
8092	20951.29	44429.68	656.41
8093	20972.34	44443.30	658.59
8094	20991.96	44457.71	661.64
8095	21015.97	44470.44	663.89
8096	21042.17	44479.37	663.40
8097	21089.71	44494.88	662.60
8098	21134.41	44519.57	661.80
8099	21153.28	44525.95	661.50
8100	21184.09	44534.66	662.00
8101	21211.30	44537.75	662.30
8102	21241.06	44539.94	662.70
8103	21215.21	44518.13	663.80
8104	21189.62	44515.49	663.50
8105	21158.80	44506.72	663.00
8106	21270.69	44541.59	663.10
8107	21140.32	44500.47	663.30
8108	21300.71	44543.12	663.56
8109	21331.59	44544.46	663.50
8110	20167.35	44067.10	675.91
8111	20187.78	44072.90	674.72
8112	20208.06	44078.52	673.53
8113	20228.36	44083.61	672.35
8114	20266.91	44091.48	670.35
8115	20295.65	44097.82	668.86
8116	20316.82	44101.89	667.77
8117	20339.18	44115.87	669.45
8118	20375.10	44136.37	672.29
8119	20408.63	44156.72	674.98
8120	20441.36	44178.24	677.67
8121	20473.88	44199.68	680.36
8122	20506.09	44221.32	683.04
8123	20532.59	44239.96	685.26
8124	20542.83	44247.90	686.15
8125	20553.00	44251.89	685.56
8126	20572.60	44260.70	684.41

Point Table

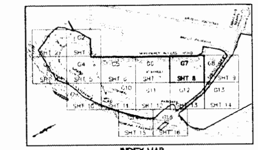
Point #	Northing	Easting	Elevation
8127	20607.77	44277.69	682.30
8128	20642.76	44295.40	680.18
8129	20676.95	44314.68	678.07
8130	20711.12	44334.38	675.94
8131	20745.57	44354.19	673.80
8132	20759.47	44362.30	672.94
8133	20780.75	44373.68	671.68
8134	20798.69	44393.25	673.36
8135	20809.72	44404.03	674.35
8136	20817.98	44411.68	675.07
8137	20837.89	44429.92	676.80
8138	20859.61	44445.93	678.53
8139	20881.79	44461.83	680.28
8140	20905.08	44476.31	682.05
8141	20928.93	44490.54	683.84
8142	20953.39	44504.62	685.68
8143	20973.71	44516.75	687.54
8144	20997.81	44529.22	689.65
8145	21024.63	44536.13	688.10
8146	21073.36	44547.81	685.30
8147	21119.24	44568.68	682.50
8148	21171.19	44577.98	679.60
8149	21203.27	44578.16	677.90
8150	21237.64	44576.58	676.10
8151	21271.03	44574.18	674.40
8152	21303.84	44570.50	672.70
8153	21334.32	44568.30	671.00
8154	21242.92	44520.02	664.20
8155	21270.48	44521.59	664.60
8156	21298.34	44522.41	665.00
8157	21519.14	44484.13	667.00
8159	20139.14	44126.77	703.91
8160	20161.96	44133.64	702.72
8161	20184.67	44140.24	701.53
8162	20207.43	44146.20	700.35
8163	20244.44	44153.54	698.35
8164	20272.04	44159.45	696.86
8165	20292.39	44163.20	695.77
8166	20313.74	44176.77	697.45
8167	20348.09	44196.59	700.29
8168	20380.15	44216.26	702.98

Point Table

Point #	Northing	Easting	Elevation
8169	20411.41	44237.05	705.67
8170	20442.49	44257.74	708.36
8171	20473.28	44278.59	711.04
8172	20498.59	44296.54	713.26
8173	20508.37	44304.19	714.15
8174	20518.16	44307.94	713.56
8175	20536.99	44316.27	712.41
8176	20570.80	44332.36	710.30
8177	20604.46	44349.15	708.18
8178	20637.33	44367.46	706.07
8179	20670.21	44386.16	703.94
8180	20703.39	44404.95	701.80
8181	20716.78	44412.64	700.94
8182	20737.32	44423.38	699.68
8183	20757.92	44445.15	701.36
8184	20770.54	44457.14	702.35
8185	20779.98	44465.65	703.07
8186	20802.76	44485.80	704.80
8187	20827.45	44503.57	706.53
8188	20852.69	44521.07	708.28
8189	20879.12	44536.99	710.05
8190	20906.17	44552.50	711.84
8191	20933.90	44567.68	713.68
8192	20954.22	44579.81	715.54
8193	20978.32	44592.28	717.65
8194	21005.06	44599.47	716.25
8195	21053.63	44611.63	713.70
8196	21099.39	44632.89	711.10
8197	21151.88	44642.76	708.40
8198	21190.15	44644.06	706.50
8199	21231.46	44642.89	704.40
8200	21271.71	44640.18	702.40
8201	21311.26	44635.47	700.40
8202	21341.76	44633.48	698.80
8203	21391.94	44632.21	700.47
8204	21174.32	44735.78	717.00
8205	21177.67	44754.61	717.00
8206	21114.92	44783.22	0.00
8207	21038.38	44799.10	0.00
8208	20120.92	44165.33	725.24
8209	20144.24	44175.33	725.37

Point Table

Point #	Northing	Easting	Elevation
8210	20167.68	44185.06	725.50
8211	20191.40	44194.13	725.63
8212	20225.75	44205.16	725.80
8213	20259.55	44217.76	725.98
8214	20291.63	44229.73	726.14
8215	20326.78	44244.11	726.33
8216	20359.84	44258.69	726.50
8217	20392.35	44274.49	726.68
8218	20424.90	44290.26	726.85
8219	20457.37	44306.34	727.03
8220	20484.26	44320.39	727.18
8221	20494.71	44326.51	727.24
8222	20503.67	44331.24	727.28
8223	20520.84	44341.48	727.38
8224	20551.47	44360.95	727.55
8225	20581.76	44380.98	727.73
8226	20611.12	44402.37	727.89
8227	20640.39	44423.90	727.99
8228	20669.78	44445.39	728.09
8229	20681.60	44454.12	728.13
8230	20699.80	44466.32	728.19
8231	20724.74	44487.40	728.22
8232	20735.53	44495.57	728.23
8233	20739.81	44498.80	728.23
8234	20750.95	44506.88	728.28
8235	20777.61	44525.80	728.42
8236	20806.24	44541.59	728.30
8237	20835.03	44557.02	728.31
8239	20864.73	44570.61	728.33
8240	20894.78	44583.50	728.35
8241	20925.22	44595.76	728.37
8242	20946.64	44604.36	728.39
8243	20971.97	44612.83	728.40
8244	20997.82	44622.88	728.50
8245	21045.63	44637.50	727.24
8246	21090.51	44661.68	727.24
8247	21141.12	44678.87	727.24
8248	21182.06	44684.75	727.24
8249	21227.21	44688.37	727.24
8250	21272.25	44692.38	728.50
8251	21317.63	44691.31	728.50



INDEX MAP
N.T.S.

B.M. NO. DG 4760 ELEV. 604.964

LABP W CB @ NW Cor Bridge Over San Jose Creek 748ft S/O C/L Valley Blvd & 45ft W/O C/L Grand Ave.

Adjusted : 1990 (Baseline) Covina Quad

CONSTRUCTION NOTES:

R / DESCRIPTION (2) REMOVE EXIST. STORM DRAIN APPURTENANCES INCLUDING INLET STEEL GRATE, CONCRETE WINGWALL, CONCRETE GUTTER, RCP, COLLARS, INLET STRUCTURE, CMP, ETC.

(5) CONSTRUCT CONCRETE V-GUTTER TYPE A PER DETAIL "5" ON DETAIL SHEET D1.

(6) CONSTRUCT AREA DRAIN PER DETAIL "7" ON DETAIL SHEET D1.

SIZE (7) CONSTRUCT CMP (12 GAUGE) INCLUDING BENDS, FITTING, REDUCERS, COUPLERS AND ANCHORS (20' MAX SPACING) FOR ABOVE GRADE INSTALLATION.

(9) CONSTRUCT JUNCTION STRUCTURE – PIPE TO PIPE PER SSPWC STANDARD PLAN 332-2 CASE 1, FOR PIPES 24" OR SMALLER.

(11) CONSTRUCT DOWNDRAIN PER DETAIL "2" ON DETAIL SHEET D1.

(12) CONSTRUCT 10' CONCRETE TERRACE DRAIN PER DETAIL "3" ON DETAIL SHEET D1.

(13) CONSTRUCT 23' CONCRETE TERRACE DRAIN PER DETAIL "8" ON DETAIL SHEET D1.

(14) CONSTRUCT DOWNDRAIN/23' TERRACE DRAIN CONNECTION PER DETAIL "12" ON DETAIL SHEET D2.

(17) CONSTRUCT 4" AC (1.5" C2-PG 64-10 OVER 2.5" B-PG 64-10) OVER 8" CAB.

(19) CONSTRUCT CONCRETE CURB PER CIT OF INDUSTRY STANDARD PLAN 112, TYPE A1, 6" (OR 0" CF WHERE INDICATED), INCLUDING AGGREGATE BASE

(22) CONSTRUCT DOWNDRAIN/TERRACE DRAIN INTERSECTION PER DETAIL "1" ON DETAIL SHEET D1, INCLUDING SPLASH WALLS.

(24) CONSTRUCT CHAIN LINK FENCE AND GATE PER SPPWC STANDARD PLAN 600-3 △1

(26) CONSTRUCT 60" CMP INLET PER DETAIL "9" ON DETAIL SHEET D1.

(27) CONSTRUCT CONCRETE COLLAR PER SPPWC STANDARD PLAN 380-4.

(29) CONSTRUCT RCP STORM DRAIN.

(30) PLUG END TO MAKE WATER TIGHT SEAL WITH BRICK & MORTAR 8" THICK MINIMUM. △1

(32) CONSTRUCT HEADWALL OUTLET PER FWHA STANDARD PLAN 601-4.

LEGEND:

HP – HIGH POINT
LP – LOW POINT
GB – GRADE BREAK
CF – CURB FACE
FL – FLOWLINE
EP – EDGE OF PAVEMENT
DL – DAYLIGHT LINE
FG – FINISH GRADE
CMP – CORRUGATED METAL PIPE
R/W – RIGHT OF WAY
(P) – PROTECT IN PLACE
R( ) – CONSTRUCTION NOTE INDICATING REMOVAL ITEMS

SCALE: 1"=50'

NO.	DATE	REVISIONS	CK. BY
△1	9/4/15	ADDED CONSTRUCTION NOTES, CHAIN LINK FENCE, & PLUG PIPE ENDS	JLN

Prepared by:
CNC ENGINEERING
Consulting Civil Engineers Surveyors
255 N. Hacienda Blvd., Ste. 222
City of Industry, Ca. 91744
Phone (626) 333-0336
Fax (626) 336-7076

REGISTERED PROFESSIONAL ENGINEER JOSHUA L. NELSON No. C66959 CIVIL STATE OF CALIFORNIA

JOSHUA L. NELSON, R.C.E. C66959 DATE
DESIGN BY: RI DRAWN: LS

SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY

APPROVED BY:

JOHN D. BALLAS, R.C.E. 34311, CITY ENGINEER DATE

INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

GRADING PLAN G7

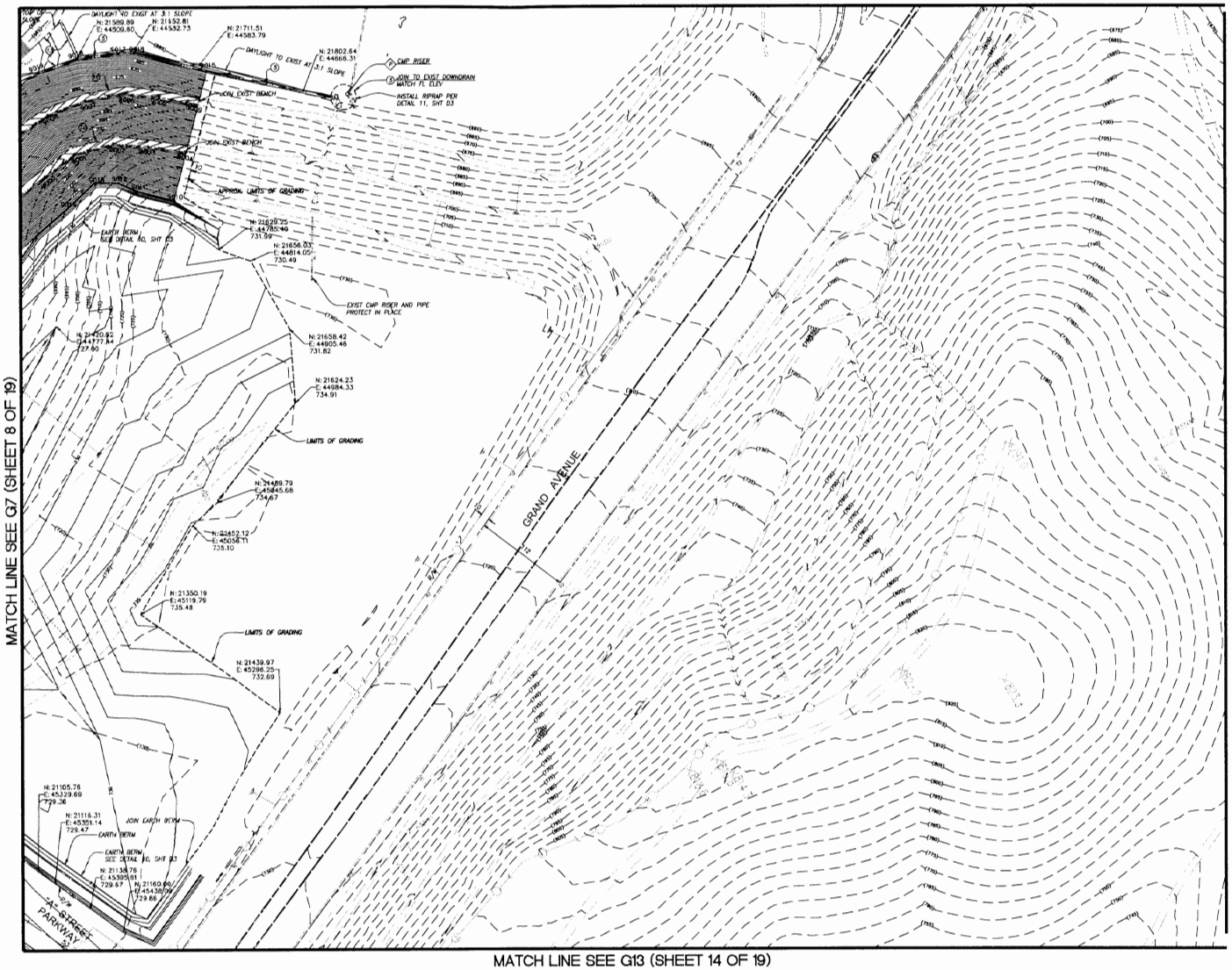
CHECKED: JN
DATE: JUNE 2015

JOB NO.: IBC-0381R SHT. 8 OF 19

CONTRACT DRAWING NO. 14 OF 41

CONTRACT NO.: IBC-0381R INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

ADDENDUM NO. 3



MATCH LINE SEE G13 (SHEET 14 OF 19)

SCALE: 1"=50'

Point Table			
Point #	Northing	Easting	Elevation
9000	21490.74	44615.96	705.73
9001	21533.32	44608.32	708.00
9002	21578.92	44618.56	705.00
9003	21613.10	44640.18	702.00
9004	21649.35	44666.66	699.02
9005	21651.68	44595.55	677.50
9006	21618.15	44573.17	680.00
9007	21572.85	44559.24	682.80
9008	21527.08	44553.67	685.50
9009	21684.42	44623.27	675.53
9010	21609.94	44710.52	728.50
9011	21577.38	44681.51	728.50
9012	21562.24	44662.51	728.50
9013	21538.18	44650.84	729.40
9014	21495.95	44681.21	728.50
9015	21714.07	44594.62	680.00
9016	21649.59	44536.63	680.90
9017	21631.97	44528.26	681.10
9018	21587.36	44512.23	683.20
9019	21539.85	44505.59	665.30

CONSTRUCTION NOTES:

(5) CONSTRUCT CONCRETE V-GUTTER TYPE A PER DETAIL "5" ON DETAIL SHEET D1.

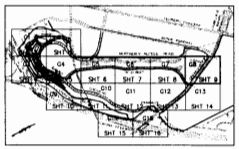
(12) CONSTRUCT 10' CONCRETE TERRACE DRAIN PER DETAIL "3" ON DETAIL SHEET D1.

LEGEND:

HP – HIGH POINT
LP – LOW POINT
GB – GRADE BREAK
CF – CURB FACE
FL – FLOWLINE
EP – EDGE OF PAVEMENT
DL – DAYLIGHT LINE
FG – FINISH GRADE
CMP – CORRUGATED METAL PIPE
R/W – RIGHT OF WAY

(P) – PROTECT IN PLACE

(R) – CONSTRUCTION NOTE INDICATING REMOVAL ITEMS



INDEX MAP
N.T.S.

CONTRACT NO.: IBC-0381R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

B.M. NO. DG 4790 ELEV. 694.964

LABEL W CB @ N/W Cor Bridge Over San Jose Creek
74th S/O C/L Valley Blvd & 45th W/O C/L Grand Ave

Adjusted: 1986 (Baseline)
Cont'd Quad

NO.	DATE	REVISIONS	CK. BY

Prepared by
CNC ENGINEERING
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Phone (626) 333-0336
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Consulting Civil Engineers - Surveyors

JOSHUA L. NELSON, R.C.E. C66959 DATE

DESIGN BY: RI DRAWN: JP

No. C66959
Exp. 12/31/16
CIVIL
STATE OF CALIFORNIA

SUCCESSOR AGENCY TO THE
INDUSTRY URBAN-DEVELOPMENT AGENCY

APPROVED BY:

JOHN D. BALLAS, R.C.E. 34311, CITY ENGINEER DATE

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

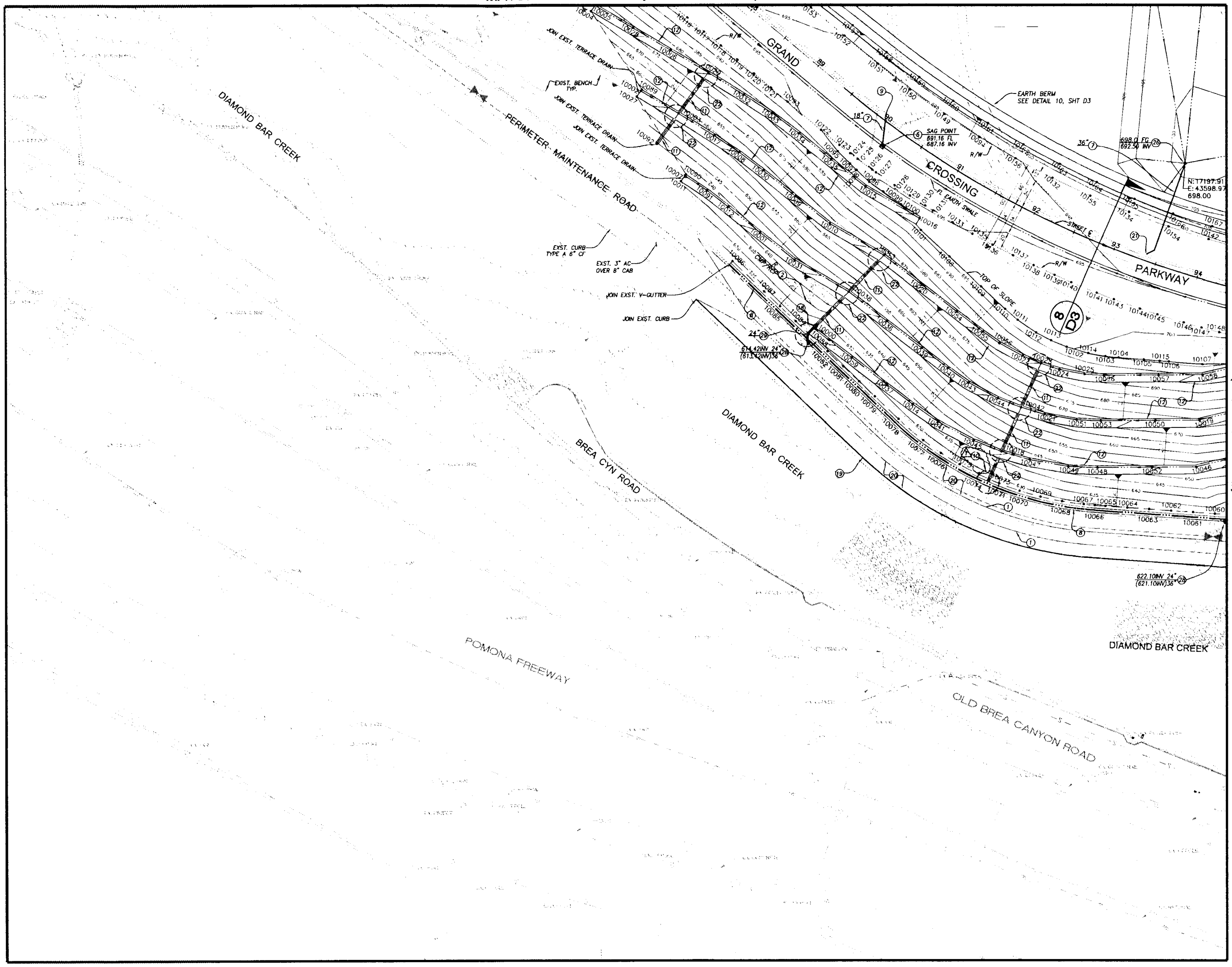
GRADING PLAN G8

CHECKED: JN
DATE: JUNE 2015

JOB NO.: IBC-0381R SHT. 9 OF 19

CONTRACT DRAWING NO. 15 OF 41

MATCH LINE SEE G4 (SHEET 5 OF 19)



MATCH LINE SEE G10 (SHEET 11 OF 19)

Point Table

Point #	Northing	Easting	Elevation
10000	16733.49	43570.88	622.81
10001	16731.01	43445.12	640.25
10002	16686.04	43237.73	652.75
10003	16712.16	43280.58	655.75
10004	16678.54	43129.74	671.75
10005	16685.70	43126.17	670.75
10006	16737.95	43211.86	676.75
10007	16685.47	43347.34	634.75
10008	16753.03	43352.02	660.00
10009	16785.99	43426.64	664.25
10010	16806.01	43472.66	667.00
10011	16678.31	43350.90	635.75
10012	16712.52	43401.85	637.75
10013	16843.80	43533.81	671.00
10014	16793.59	43701.01	632.25
10015	16861.94	43453.86	691.50
10016	16899.73	43515.01	695.50
10017	16736.49	43321.91	658.25
10018	16858.24	43796.09	639.50
10019	17075.16	43868.80	674.25
10020	16866.73	43584.12	674.50
10021	16921.71	43780.96	664.00
10022	16930.76	43709.64	683.75
10023	16945.11	43726.99	685.00
10024	16960.62	43742.80	686.25
10025	16983.72	43761.09	688.00
10026	17002.58	43772.71	689.25
10027	16678.88	43241.30	653.75
10028	16711.82	43169.02	673.75
10029	16764.07	43254.71	679.75
10030	16767.50	43383.37	661.75
10031	16751.03	43491.14	643.00
10032	16788.40	43296.04	682.25
10033	16807.06	43329.60	684.25
10034	16823.43	43364.58	686.25
10035	16841.91	43407.85	688.75
10036	16811.75	43602.60	650.50
10037	16777.75	43666.78	629.75
10038	16788.82	43552.29	647.00
10039	16832.73	43648.30	653.75
10040	16848.57	43682.53	656.25
10041	16809.76	43732.10	634.50
10042	16901.68	43761.54	662.25
10043	16861.61	43708.42	658.00
10044	16883.11	43740.00	660.50
10045	16835.88	43770.09	637.50
10046	17046.89	43914.80	652.25
10047	16882.44	43819.47	641.50
10048	16946.81	43863.44	646.00
10049	16917.82	43846.65	644.00

Point Table

Point #	Northing	Easting	Elevation
10050	17030.58	43845.84	671.50
10051	16951.07	43803.47	666.25
10052	17002.31	43891.84	649.50
10053	16975.09	43817.44	668.00
10054	16887.70	43629.82	677.75
10055	16903.55	43664.05	680.25
10056	16913.91	43684.53	681.75
10057	17058.08	43801.11	692.75
10058	17102.55	43824.01	695.50
10059	16756.78	43621.08	626.50
10060	17040.87	43972.32	631.60
10061	17019.58	43959.23	631.17
10062	16998.28	43946.14	630.74
10063	16976.98	43933.05	630.32
10064	16955.68	43919.96	629.89
10065	16934.38	43906.87	629.46
10066	16924.03	43900.51	629.25
10067	16913.21	43893.58	629.03
10068	16892.89	43879.03	628.57
10069	16873.62	43863.10	628.10
10070	16855.51	43845.87	627.64
10071	16838.64	43827.43	627.18
10073	16830.80	43817.92	626.97
10074	16823.09	43807.86	626.82
10075	16808.94	43787.26	626.52
10076	16796.25	43765.73	626.23
10077	16785.08	43743.37	625.93
10078	16771.30	43708.50	625.49
10079	16759.36	43672.96	625.05
10080	16751.39	43649.26	624.75
10081	16743.43	43625.57	624.46
10082	16735.46	43601.87	624.16
10084	16719.53	43554.48	623.57
10085	16711.57	43530.78	623.28
10086	16687.67	43459.69	622.39
10087	16703.60	43507.08	622.98
10088	16725.90	43573.43	623.81
10089	16687.83	43236.84	653.75
10090	16687.26	43346.44	635.75
10091	16699.92	43374.06	636.25
10092	16673.70	43299.74	639.27
10093	16828.65	43326.39	695.17
10094	17003.93	43463.48	694.56
10095	16852.96	43403.12	694.76
10096	16868.48	43451.02	695.07
10097	16858.78	43422.06	694.73
10098	16861.97	43432.04	694.77
10099	16877.30	43468.51	695.33
10100	16888.72	43490.86	695.70
10101	16894.92	43527.44	696.55

Point Table

Point #	Northing	Easting	Elevation
10102	16980.10	43723.68	699.90
10103	17014.30	43753.70	700.41
10104	17026.95	43761.93	700.54
10105	17051.43	43777.44	700.83
10106	17075.59	43792.68	701.15
10107	17108.15	43813.13	701.62
10108	16909.71	43569.68	697.35
10109	16925.74	43617.04	697.99
10110	16937.98	43652.48	698.56
10111	16944.88	43670.38	698.86
10112	16956.89	43692.99	699.33
10113	16967.84	43708.91	699.62
10114	16998.65	43741.70	700.21
10115	17066.71	43787.06	701.04
10116	16772.53	43187.28	697.07
10117	16781.88	43210.47	696.74
10118	16791.24	43233.65	696.41
10119	16800.59	43256.84	696.07
10120	16809.94	43280.02	695.74
10121	16819.30	43303.20	695.43
10122	16847.36	43372.76	694.78
10123	16857.94	43397.34	694.65
10124	16864.40	43411.69	694.60
10125	16868.81	43421.20	694.57
10126	16877.90	43440.12	694.54
10127	16880.23	43444.82	694.54
10128	16892.17	43468.17	694.55
10129	16902.11	43486.64	694.60
10130	16912.38	43504.94	694.67
10131	16917.64	43514.02	694.72
10132	17056.04	43543.85	695.45
10133	16931.15	43536.50	694.87
10134	17115.23	43619.16	696.99
10135	16945.17	43558.66	695.07
10136	16959.69	43580.51	695.32
10137	16974.70	43602.01	695.61
10138	16990.19	43623.17	695.95
10139	17006.16	43643.98	696.33
10140	17019.28	43660.35	696.66
10141	17039.50	43684.47	697.15
10142	17181.02	43688.79	698.62
10143	17053.35	43700.23	697.47
10144	17074.65	43723.40	697.96
10145	17089.20	43738.52	698.29
10146	17111.53	43760.69	698.78
10147	17126.75	43775.14	699.10
10148	17142.23	43789.30	699.43
10149	16980.67	43421.61	694.39
10150	16959.34	43378.71	694.41
10151	16939.97	43334.90	694.62

Point Table

Point #	Northing	Easting	Elevation
10152	16921.39	43288.97	695.01
10153	16902.68	43242.60	695.58
10154	17147.33	43654.72	697.80
10155	17084.78	43582.18	696.17
10156	17029.08	43504.26	694.91
10157	16935.27	43282.81	702.60
10158	16955.12	43328.13	702.91
10159	16975.11	43370.94	703.21
10160	16996.71	43412.93	703.51
10161	17019.92	43454.11	703.82
10162	17044.63	43494.33	704.14
10163	17070.88	43533.65	704.45
10164	17098.53	43571.80	704.79
10165	17127.73	43608.76	705.12
10166	17158.79	43643.97	705.46
10167	17191.66	43677.74	706.29

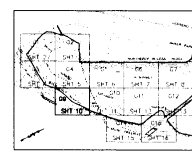
LEGEND:

HP – HIGH POINT
LP – LOW POINT
GB – GRADE BREAK
CF – CURB FACE
FL – FLOWLINE
EP – EDGE OF PAVEMENT
DL – DAYLIGHT LINE
FG – FINISH GRADE
CMP – CORRUGATED METAL PIPE
R/W – RIGHT OF WAY
(P) – PROTECT IN PLACE
R ( ) – CONSTRUCTION NOTE INDICATING REMOVAL ITEMS

CONSTRUCTION NOTES:

(1) SAW CUT (1' MIN.) AND REMOVE EXISTING AC.
R / DESCRIPTION (2) REMOVE EXIST. STORM DRAIN APPURTENANCES INCLUDING INLET STEEL GRATE, CONCRETE WINGWALL, CONCRETE GUTTER, RCP, COLLARS, INLET STRUCTURE, CMP, ETC.
(6) CONSTRUCT AREA DRAIN PER DETAIL "7" ON DETAIL SHEET D1.
SIZE (7) CONSTRUCT CMP (12 GAUGE) INCLUDING BENDS, FITTING, REDUCERS, COUPLERS AND ANCHORS (20' MAX SPACING) FOR ABOVE CRADE INSTALLATION.
(8) CONSTRUCT CONCRETE V GUTTER TYPE B PER DETAIL "6" ON DETAIL SHEET D1.
(10) CONSTRUCT DOWNDRAIN TO V-GUTTER CONNECTION PER DETAIL "10" ON DETAIL SHEET D2.
(11) CONSTRUCT DOWNDRAIN PER DETAIL "2" ON DETAIL SHEET D1.
(12) CONSTRUCT 10' CONCRETE TERRACE DRAIN PER DETAIL "3" ON DETAIL SHEET D1.
(17) CONSTRUCT 4" AC (1.5" C2-PG 64-10 OVER 2.5" B-PG 64-10) OVER 8" CAB.
(18) CONSTRUCT DOWNDRAIN/10' TERRACE DRAIN CONNECTION PER DETAIL "11" ON DETAIL SHEET D2.
(19) CONSTRUCT CONCRETE CURB PER CITY OF INDUSTRY STANDARD PLAN 112, TYPE A1, 6" CF, INCLUDING AGGREGATE BASE.
(20) CONSTRUCT 3" AC (B-PG 64-10) OVER 8" CAB.
(21) CONSTRUCT JUNCTION STRUCTURE – PIPE TO PIPE PER SSPWC STANDARD PLAN 331-3, FOR PIPES 24" DIAMETER OR LARGER.
(22) CONSTRUCT DOWNDRAIN/TERRACE DRAIN INTERSECTION PER DETAIL "1" ON DETAIL SHEET D1, INCLUDING SPLASH WALLS.
(26) CONSTRUCT 60" CMP INLET PER DETAIL "9" ON DETAIL SHEET D1.
(28) CONSTRUCT TRANSITION STRUCTURE PER SPPWC STANDARD PLAN 340-2.
(29) CONSTRUCT RCP STORM DRAIN.

SCALE: 1"=50'



INDEX MAP
N.T.S.

B.M. NO. DG 4760 ELEV. 504.964
LEBR W CB @ NW Cor Bridge Over San Jose Creek 74Ft S/O C/L Valley Blvd & 45ft W/O C/L Grand Ave.
Adjusted: 1990 (Baseline) Covina Quad

NO.	DATE	REVISIONS	CK. BY
1	9/4/15	DELETED CONSTRUCTION NOTE 25	JLN

Prepared by: CNC ENGINEERING, Consulting Civil Engineers / Surveyors, 255 N. Hacienda Blvd., Ste. 222, City of Industry, Ca. 91744, Phone (626) 333-0336, Fax (626) 336-7076

JOSHUA L. NELSON, R.C.E. C68959 DATE
DESIGN BY: PE DRAWN: JP
CHECKED: JN
DATE: JUNE 2015

SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY
APPROVED BY:
JOHN D. BALLAS, R.C.E. 34311, CITY ENGINEER DATE

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE
GRADING PLAN G9

JOB NO.: IBC-0381R SHT. 10 OF 19

CONTRACT DRAWING NO. 16 OF 41

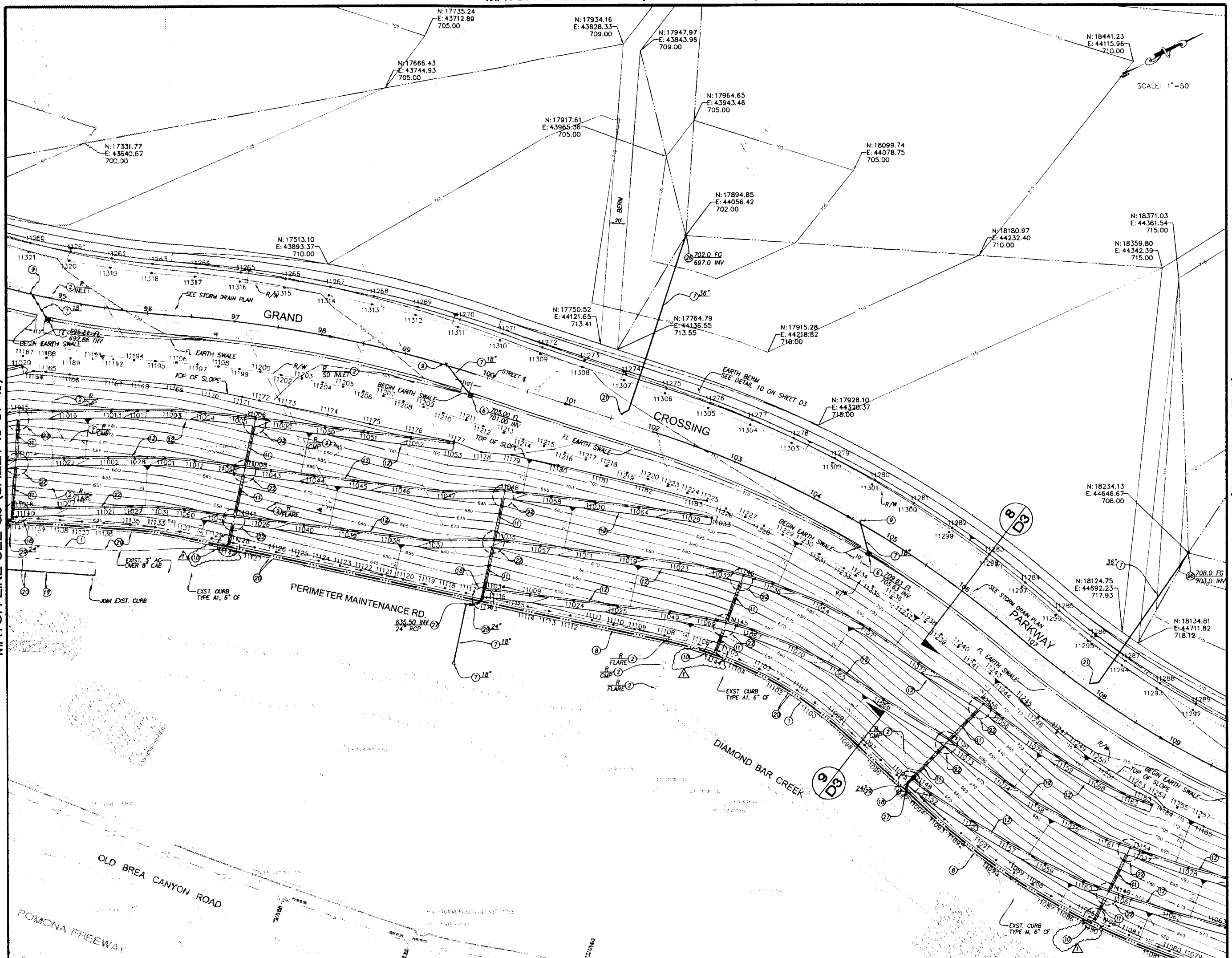
CONTRACT NO.: IBC-0381R INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

ADDENDUM NO. 3

MATCH LINE SEE G5 (SHEET 6 OF 19)

MATCH LINE SEE G9 (SHEET 10 OF 19)

MATCH LINE SEE G11 (SHEET 12 OF 19)



MATCH LINE SEE G14 (SHEET 15 OF 19)

Point Table

Point #	Northing	Easting	Elevation
11000	17381.58	44029.32	695.75
11001	17244.07	44004.22	665.00
11002	17186.64	43973.89	661.25
11003	17276.16	43959.55	687.50
11004	17309.15	43980.03	690.00
11005	17340.10	44000.99	692.50
11006	17356.53	44012.52	693.75
11007	17111.69	44000.34	634.50
11008	17320.03	44056.30	670.25
11009	17544.74	44341.16	643.75
11011	17623.04	44325.32	670.75
11012	17273.29	44023.04	667.00
11013	17214.92	43927.88	683.25
11014	17092.54	43926.47	655.00
11015	17120.81	43880.46	677.00
11016	17170.08	43905.35	680.25
11017	17242.02	43941.65	685.00
11018	17062.10	43975.98	630.94
11019	17664.20	44354.03	673.75
11020	17148.30	43835.74	698.25
11021	17156.53	44022.87	637.50
11022	17141.80	43951.35	658.25
11023	17713.23	44388.43	677.25
11024	17585.90	44369.87	646.75
11025	17627.06	44398.59	649.75
11026	17307.63	44118.04	648.00
11027	17183.90	44036.22	639.50
11028	17213.75	43987.66	663.00
11029	17750.37	44343.88	701.25
11030	17660.18	44280.77	694.75
11031	17210.52	44050.92	641.25
11032	17751.75	44417.52	680.00
11033	17769.71	44358.76	702.51
11034	17499.34	44309.73	640.35
11035	17536.35	44265.33	664.25
11036	17796.18	44458.51	683.50
11037	17472.26	44232.89	660.00
11038	17431.10	44204.18	657.00
11039	17389.95	44175.46	654.00
11040	17348.79	44146.75	651.00
11041	17282.89	44100.85	646.25
11042	17266.47	44089.32	645.00
11043	17344.76	44073.48	672.00
11044	17385.92	44102.20	675.00
11045	17427.08	44130.91	678.00
11046	17468.24	44159.62	681.00
11047	17509.40	44188.34	684.00
11048	17573.48	44220.78	688.25
11049	17676.10	44432.98	653.25
11050	17422.74	44058.03	698.75
11051	17463.90	44086.74	701.75

Point Table

Point #	Northing	Easting	Elevation
11052	17505.06	44115.46	704.75
11053	17546.21	44144.17	707.75
11054	17835.74	44504.95	686.75
11055	17303.61	44044.77	669.00
11056	17957.26	44717.45	700.00
11057	17581.88	44296.61	667.75
11058	17619.02	44252.06	691.75
11059	17922.42	44888.35	660.50
11060	17236.16	44067.60	643.00
11061	17983.82	44962.62	666.50
11062	18024.85	45004.40	669.75
11063	18071.31	45048.14	673.25
11064	17701.33	44309.48	697.75
11065	17818.04	44581.39	666.00
11066	17846.50	44635.59	669.50
11067	17750.91	44494.76	659.50
11068	18019.40	44831.93	707.50
11069	17710.78	44458.58	656.00
11070	17786.73	44535.96	662.75
11071	17870.19	44556.01	690.00
11072	17901.36	44616.74	693.50
11073	17902.41	44736.30	676.00
11074	17925.08	44782.60	679.00
11075	17970.91	44860.14	684.00
11076	17977.54	44760.30	702.50
11077	18027.54	44929.25	689.00
11078	18065.51	44968.11	692.00
11079	18018.83	45061.48	653.95
11080	18002.18	45042.82	653.66
11081	17993.15	45032.70	653.50
11083	17969.52	45004.98	653.08
11084	17954.04	44985.34	652.77
11085	17939.19	44965.24	652.45
11086	17924.97	44944.67	652.14
11087	17911.40	44923.68	651.82
11088	17898.49	44902.27	651.51
11089	17886.26	44880.47	651.19
11090	17874.72	44858.29	650.88
11091	17863.87	44835.77	650.56
11092	17853.74	44812.92	650.24
11093	17844.32	44789.76	649.93
11094	17833.43	44760.00	649.53
11095	17819.35	44719.04	648.98
11096	17811.23	44695.40	648.67
11097	17803.10	44671.76	648.35
11098	17796.57	44652.75	648.10
11099	17785.92	44624.82	647.72
11100	17775.61	44602.05	647.40
11101	17764.05	44579.88	647.09
11102	17751.28	44558.40	646.77
11103	17737.33	44537.65	646.46

Point Table

Point #	Northing	Easting	Elevation
11104	17722.25	44517.71	646.14
11105	17706.09	44498.64	645.83
11106	17688.90	44480.50	645.51
11108	17659.13	44453.34	645.00
11109	17632.48	44431.13	644.41
11110	17613.28	44415.12	643.99
11111	17594.08	44399.11	643.56
11112	17574.87	44383.11	643.14
11113	17555.67	44367.10	642.71
11114	17536.46	44351.09	642.28
11115	17517.26	44335.08	641.86
11116	17498.06	44319.08	641.43
11117	17478.85	44303.07	641.01
11118	17459.65	44287.06	640.58
11119	17440.45	44271.06	640.16
11120	17421.24	44255.05	639.73
11121	17402.04	44239.04	639.30
11122	17382.84	44223.03	638.88
11123	17363.63	44207.03	638.45
11124	17344.43	44191.02	638.03
11125	17325.23	44175.01	637.60
11126	17306.02	44159.01	637.18
11127	17286.82	44143.00	636.75
11128	17267.62	44126.99	636.32
11129	17248.41	44110.99	635.90
11131	17219.84	44087.17	635.26
11133	17197.12	44069.57	634.77
11135	17173.18	44053.65	634.27
11136	17147.37	44037.78	633.75
11137	17126.07	44024.69	633.32
11138	17104.77	44011.60	632.89
11139	17083.47	43998.51	632.46
11140	17062.17	43985.42	632.03
11141	17057.91	43982.80	631.94
11142	17263.78	44123.79	636.32
11143	17494.22	44315.88	641.35
11144	17703.40	44495.67	645.77
11145	17728.11	44473.12	657.50
11146	17770.95	44434.02	681.50
11147	17824.57	44734.23	649.18
11148	17832.14	44731.63	648.18
11149	17972.27	44949.69	665.50
11150	17943.22	44970.83	652.54
11151	17891.25	44711.32	674.43
11152	17843.30	44756.61	649.75
11153	17870.23	44805.91	654.20
11154	18017.03	44917.11	688.18
11156	17945.10	44692.81	697.90
11157	17895.64	44847.81	657.78
11158	17945.58	44822.80	681.32
11159	17997.44	44796.82	705.32

Point Table

Point #	Northing	Easting	Elevation
11160	17951.35	44927.04	663.31
11161	17997.22	44896.36	686.51
11162	18043.58	44865.37	710.00
11163	18061.55	44884.69	711.32
11164	17157.82	43845.41	702.00
11165	17170.14	43853.02	702.00
11166	17192.65	43868.54	701.97
11167	17234.35	43896.27	701.92
11168	17259.92	43912.53	702.20
11169	17294.04	43934.66	702.92
11170	17326.52	43959.19	703.68
11171	17355.21	43982.86	704.38
11172	17370.50	43995.76	704.75
11173	17393.73	44014.74	705.30
11174	17432.20	44046.68	706.18
11175	17470.62	44078.67	707.04
11176	17509.01	44110.72	707.86
11177	17547.65	44142.11	709.01
11178	17570.45	44167.76	709.64
11179	17601.13	44187.62	710.00
11180	17643.02	44223.26	710.61
11181	17680.96	44255.84	711.08
11182	17718.46	44288.94	711.24
11183	17762.18	44329.71	711.35
11184	18073.69	44894.04	716.23
11185	18103.39	44934.30	717.53
11187	17155.21	43824.26	701.74
11188	17178.29	43838.74	701.67
11189	17201.95	43852.24	701.60
11191	17224.03	43864.05	701.53
11192	17245.12	43875.72	701.45

Point Table

Point #	Northing	Easting	Elevation
11215	17638.88	44196.06	710.01
11216	17656.38	44213.92	710.32
11217	17673.87	44231.78	710.61
11218	17691.37	44249.64	710.88
11219	17708.86	44267.50	711.12
11220	17725.98	44285.04	711.06
11223	17742.35	44302.42	711.03
11224	17758.36	44320.13	711.21
11225	17773.99	44338.17	711.37
11226	17789.25	44356.54	711.52
11227	17804.12	44375.22	711.67
11228	17818.59	44394.20	711.81
11229	17832.67	44413.49	711.96
11230	17846.34	44433.06	712.11
11231	17859.60	44452.91	712.25
11233	17876.81	44480.09	712.45
11234	17884.87	44493.42	712.55
11235	17896.87	44514.06	712.69
11236	17908.43	44534.95	712.84
11237	17919.56	44556.08	712.99
11238	17930.24	44577.43	713.13
11239	17940.48	44599.00	713.28
11240	17950.26	44620.77	713.43
11241	17959.59	44642.75	713.57
11243	17968.46	44664.92	713.85
11244	17976.87	44687.26	714.48
11245	17984.81	44709.78	715.10
11246	17993.80	44735.04	715.73
11247	18003.98	44760.31	716.36
11249	18015.21	44785.14	716.89
11250	18027.46	44809.48	717.03

Point Table

Point #	Northing	Easting	Elevation
11275	17793.48	44202.37	713.98
11276	17829.11	44240.47	714.31
11277	17863.25	44279.90	714.64
11278	17895.78	44320.67	714.97
11279	17926.58	44362.76	715.30
11280	17955.60	44406.11	715.62
11281	17982.79	44450.63	715.95
11282	18008.09	44496.25	716.26
11283	18031.46	44542.89	716.58
11284	18052.89	44590.46	716.90
11285	18072.15	44637.26	717.32
11286	18091.42	44680.79	717.72
11287	18112.64	44723.39	718.12
11288	18135.77	44764.98	718.51
11289	18160.67	44805.53	718.85
11292	18154.59	44809.43	715.25
11293	18129.61	44768.56	714.95
11294	18106.51	44726.59	714.66
11295	18085.34	44683.62	714.37
11296	18066.15	44639.73	714.07
11297	18047.14	44592.90	713.78
11298	18025.87	44545.54	713.48
11299	18002.65	44499.11	713.19
11300	17977.52	44453.69	712.90
11301	17950.51	44409.36	712.60
11302	17921.68	44366.18	712.31
11303	17891.08	44324.25	712.02
11304	17858.76	44283.62	711.72
11305	17824.77	44244.38	711.39
11306	17789.18	44206.59	710.96
11307	17754.69	44171.38	710.46

ADDITIONAL POINT TABLES TO BE PROVIDED DURING STAKING.

CONSTRUCTION NOTES:

(1) SAW CUT (1' MIN.) AND REMOVE EXISTING AC.

(2) REMOVE EXIST. STORM DRAIN APPURTENANCES INCLUDING INLET STEEL GRATE, CONCRETE WINGWALL, CONCRETE GUTTER, RCP, COLLARS, INLET STRUCTURE, CMP, ETC.

(6) CONSTRUCT AREA DRAIN PER DETAIL "7" ON DETAIL SHEET D1.

(7) CONSTRUCT CMP (12 GAUGE) INCLUDING BENDS, FITTING, REDUCERS, COUPLERS AND ANCHORS (20' MAX SPACING) FOR ABOVE GRADE INSTALLATION.

(8) CONSTRUCT CONCRETE V GUTTER TYPE B PER DETAIL "6" ON DETAIL SHEET D1

(9) CONSTRUCT JUNCTION STRUCTURE - PIPE TO PIPE PER SSPWC STANDARD PLAN 332-2 CASE 1, FOR PIPES 24" DIAMETER OR SMALLER.

(10) CONSTRUCT DOWNDRAIN TO V-GUTTER CONNECTION PER DETAIL "10" ON DETAIL SHEET D2.

(11) CONSTRUCT DOWNDRAIN PER DETAIL "2" ON DETAIL SHEET D1.

(12) CONSTRUCT 10' CONCRETE TERRACE DRAIN PER DETAIL "3" ON DETAIL SHEET D1.

(17) CONSTRUCT 4" AC (1.5" C2-PG 64-10 OVER 2.5" B-PG 64-10) OVER 8" CAB.

(18) CONSTRUCT DOWNDRAIN/10' TERRACE DRAIN CONNECTION PER DETAIL "11" ON DETAIL SHEET D2.

(19) CONSTRUCT CONCRETE CURB PER CITY OF INDUSTRY STANDARD PLAN 112, TYPE A1, 6" CF, INCLUDING AGGREGATE BASE.

(21) CONSTRUCT JUNCTION STRUCTURE – PIPE TO PIPE PER SSPWC STANDARD PLAN 331-3, FOR PIPES 24" DIAMETER OR LARGER.

(22) CONSTRUCT DOWNDRAIN/TERRACE DRAIN INTERSECTION PER DETAIL "1" ON DETAIL SHEET D1, INCLUDING SPLASH WALLS.

(26) CONSTRUCT 60" CMP INLET PER DETAIL "9" ON DETAIL SHEET D1.

(27) CONSTRUCT CONCRETE COLLAR PER SPPWC STANDARD PLAN 380-4.

(29) CONSTRUCT RCP STORM DRAIN.

R/DESCRIPTION (2)

SIZE (7)

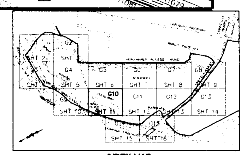
LEGEND:

HP – HIGH POINT
LP – LOW POINT
GB – GRADE BREAK
CF – CURB FACE
FL – FLOWLINE
EP – EDGE OF PAVEMENT
DL – DAYLIGHT LINE
FG – FINISH GRADE
CMP – CORRUGATED METAL PIPE
R/W – RIGHT OF WAY
(P) – PROTECT IN PLACE
R( ) – CONSTRUCTION NOTE INDICATING REMOVAL ITEMS

B.M. NO. DG 4760 ELEV. 604.964

L&BR W CB @ NW Cor Bridge Over San Jose Creek 748ft S/O C/L Valley Blvd & 45ft W/O C/L Grand Ave.

Adjusted: 1990 (Baseline) Covina Quad



INDEX MAP
N.T.S

NO	DATE	REVISIONS	CK. BY
1	9/4/15	DELETED CONSTRUCTION NOTE 25	JLN

Prepared by
CNC ENGINEERING
Consulting Civil Engineers · Surveyors
255 N. Hacienda Blvd., Ste. 222
City of Industry, Ca. 91744
Phone (626) 333-0336
Fax (626) 336-7076

JOSHUA L. NELSON, R.C.E. C66959 DATE

DESIGN BY: I
DRAWN: JP

REGISTERED PROFESSIONAL ENGINEER · JOSHUA L. NELSON · No. C66959 · Exp. 03/31/16 · CIVIL · STATE OF CALIFORNIA

SUCCESSOR AGENCY TO THE
INDUSTRY URBAN-DEVELOPMENT AGENCY

APPROVED BY:

JOHN D. BALLAS, R.C.E. 34311, CITY ENGINEER DATE

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

GRADING PLAN G10

CHECKED: JN
DATE: JUNE 2015

JOB NO.: IBC-0381R

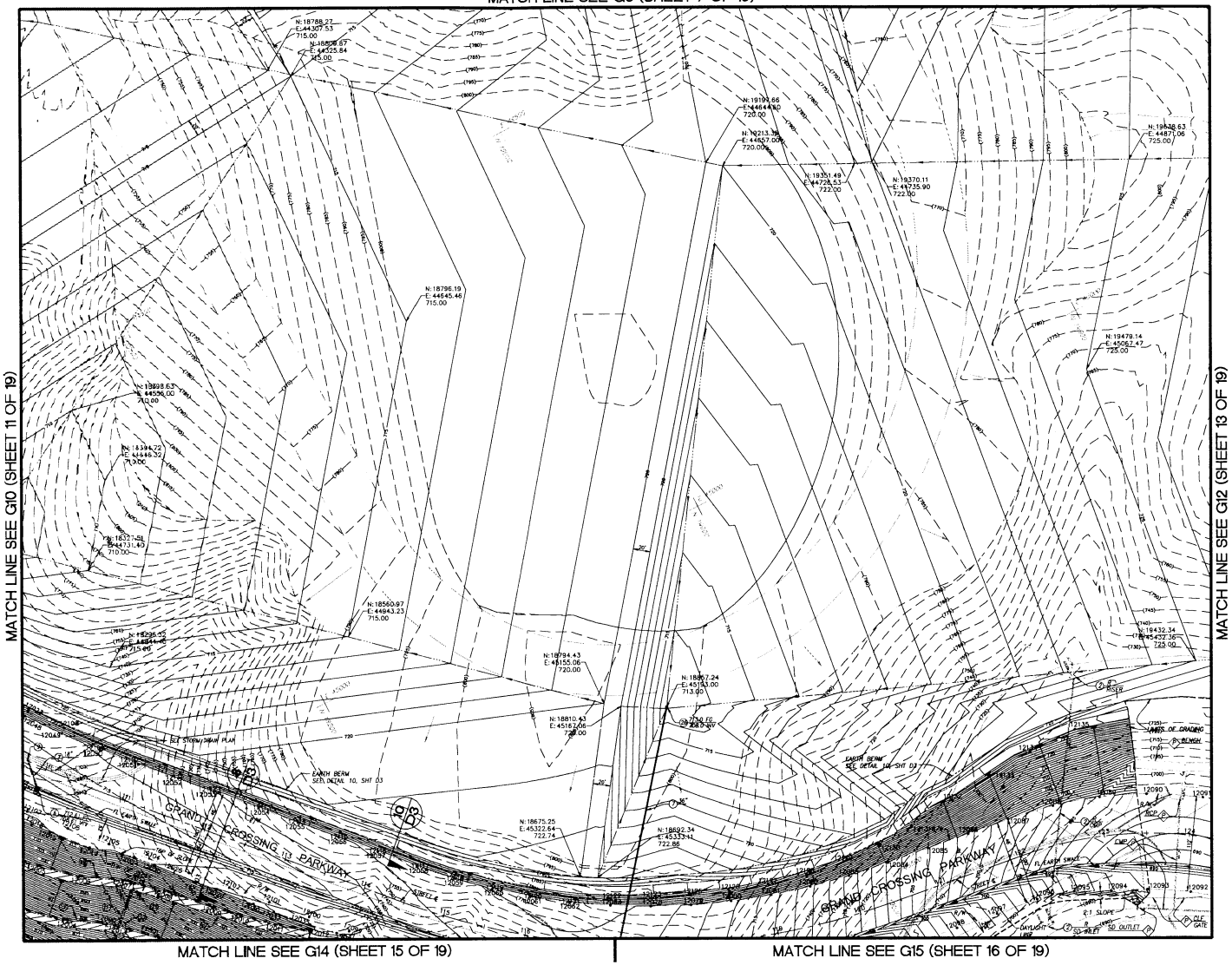
CONTRACT DRAWING NO. 17 OF 41

CONTRACT NO.: IBC-0381R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

ADDENDUM NO. 3

MATCH LINE SEE G6 (SHEET 7 OF 19)

MATCH LINE SEE G10 (SHEET 11 OF 19)



MATCH LINE SEE G12 (SHEET 13 OF 19)

MATCH LINE SEE G14 (SHEET 15 OF 19)

MATCH LINE SEE G15 (SHEET 16 OF 19)

Point Table			
Point #	Northing	Easting	Elevation
12000	18152.21	45109.98	679.00
12001	18189.12	45144.06	682.00
12004	18108.22	45082.22	676.25
12005	18111.97	45011.86	695.50
12006	18146.88	45045.93	698.50
12007	18192.87	45073.69	701.25
12008	18229.78	45107.77	704.25
12009	18271.65	45151.19	707.75
12010	18295.04	45174.90	709.75
12011	18328.05	45203.03	712.25
12012	18358.70	45229.14	714.75
12013	18162.68	45119.61	679.88
12014	18203.32	45083.32	702.11
12015	18143.85	44983.40	717.01
12016	18176.36	45021.41	716.74
12018	18129.03	44985.42	0.00
12023	18187.25	44845.11	719.09
12024	18217.52	45055.86	716.87
12025	18233.78	45074.85	717.02
12026	18250.04	45093.84	717.17
12028	18284.88	45134.52	718.12
12030	18315.09	45169.79	718.39
12032	18331.96	45189.33	718.54
12035	18362.85	45222.50	718.79

Point Table			
Point #	Northing	Easting	Elevation
12037	18385.65	45245.71	718.98
12048	18181.41	44849.13	715.54
12049	18210.00	44887.57	715.83
12050	18240.31	44924.67	716.13
12051	18272.70	44961.07	716.42
12052	18306.24	44998.16	716.71
12053	18339.78	45035.24	717.01
12054	18373.32	45072.32	717.30
12055	18406.86	45109.40	717.59
12056	18440.40	45148.48	717.89
12057	18473.94	45183.56	718.18
12058	18507.30	45220.43	718.47
12059	18540.25	45254.35	718.77
12060	18575.13	45286.28	719.06
12061	18611.83	45316.10	719.35
12062	18650.22	45343.71	719.54
12063	18690.16	45369.01	719.33
12078	18731.53	45391.93	718.72
12079	18774.17	45412.37	717.71
12080	18817.94	45430.27	716.30
12081	18862.88	45445.57	714.48
12082	18908.25	45458.21	712.27
12083	18954.48	45468.15	709.85
12084	19001.82	45475.51	706.91

Point Table			
Point #	Northing	Easting	Elevation
12085	19051.35	45482.34	704.13
12086	19100.88	45489.17	701.38
12087	19150.41	45495.99	698.99
12088	19204.32	45506.17	696.48
12089	19257.10	45522.54	694.48
12090	19307.65	45544.86	693.30
12091	19364.44	45579.06	692.96
12092	19300.17	45670.79	691.60
12093	19256.61	45644.55	691.94
12094	19218.36	45628.01	693.15
12095	19179.30	45606.96	695.28
12096	19136.76	45595.06	698.25
12097	19087.23	45588.23	701.37
12098	19037.69	45581.40	704.38
12099	18399.78	45250.64	718.93
12100	18368.24	45213.58	718.10
12101	18332.70	45176.48	717.75
12102	18299.16	45139.40	717.46
12103	18265.62	45102.32	717.17
12104	18232.08	45065.24	716.87
12105	18198.54	45028.15	716.58
12106	18164.32	44989.68	716.29
12107	18131.14	44949.08	715.99
12108	18215.49	44883.25	719.32

Point Table			
Point #	Northing	Easting	Elevation
12109	18245.57	44920.23	719.57
12110	18277.75	44956.51	719.82
12111	18311.25	44993.84	720.08
12112	18344.74	45030.76	720.35
12113	18378.23	45067.89	720.61
12114	18411.73	45105.01	720.87
12115	18445.22	45142.13	721.13
12116	18478.71	45179.26	721.40
12117	18512.02	45216.15	721.66
12118	18544.61	45249.84	721.91
12119	18579.17	45281.58	722.16
12120	18615.60	45311.26	722.42
12121	18653.66	45338.44	722.68
12122	18693.70	45362.70	722.95
12123	18735.33	45383.28	723.45
12124	37548.34	90824.74	1435.42
12125	18778.90	45402.14	723.35
12126	18821.74	45419.87	721.84
12127	18865.86	45433.97	720.49
12128	18910.85	45444.32	719.33
12129	18956.28	45450.87	718.33
12130	19002.51	45453.45	717.94
12131	19046.37	45450.58	720.04
12132	19102.88	45446.16	723.00

Point Table			
Point #	Northing	Easting	Elevation
12133	19159.97	45440.89	0.00
12134	19210.14	45437.58	724.78
12135	19268.61	45438.55	727.33

CONSTRUCTION NOTES:

R / DESCRIPTION	SIZE	
	2	REMOVE EXIST. STORM DRAIN APPURTENANCES INCLUDING INLET, STEEL GRATE, CONCRETE WINGWALL, CONCRETE GUTTER, RCP, COLLARS, INLET STRUCTURE, ETC.
	6	CONSTRUCT AREA DRAIN PER DETAIL "7" ON DETAIL SHEET D1.
	7	CONSTRUCT CMP (12 GAUGE) INCLUDING BENDS, FITTING, REDUCERS, COUPLERS AND ANCHORS (20' MAX SPACING) FOR ABOVE GRADE INSTALLATION.
	9	CONSTRUCT JUNCTION STRUCTURE - PIPE TO PIPE PER SSPWC STANDARD PLAN 332-2 CASE 1, FOR PIPES 24" DIAMETER OR SMALLER.
	10	CONSTRUCT DOWNDRAIN TO V-GUTTER CONNECTION PER DETAIL "10" ON DETAIL SHEET D2.
	11	CONSTRUCT DOWNDRAIN PER DETAIL "2" ON DETAIL SHEET D1.
	18	CONSTRUCT DOWNDRAIN/10' TERRACE DRAIN CONNECTION PER DETAIL "11" ON DETAIL SHEET D2.
	22	CONSTRUCT DOWNDRAIN/TERRACE DRAIN INTERSECTION PER DETAIL "7" ON DETAIL SHEET D1, INCLUDING SPLASH WALLS.

LEGEND:

HP - HIGH POINT
LP - LOW POINT
GB - GRADE BREAK
CF - CURB FACE
FL - FLOWLINE
EP - EDGE OF PAVEMENT
DL - DAYLIGHT LINE
FG - FINISH GRADE
CMP - CORRUGATED METAL PIPE
R/W - RIGHT OF WAY

(P) - PROTECT IN PLACE

R (○) - CONSTRUCTION NOTE INDICATING REMOVAL ITEMS

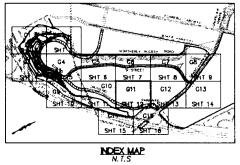
B.M.: NGS DG 4760 ELEV. 604.984

LABEL 'A' CB @ 91' Cw Bridge Over San Jose Creek
74BTV 5/10 C/L Valley Blvd & 45ft W/O C/L Grand Ave

Adjusted: 1990 (Baseline) Central Zone

NO.	DATE	REVISIONS	CK.	BY

Prepared by:
CNC ENGINEERING
Consulting Civil Engineers - Surveyors
255 N. Hacienda Blvd., Ste. 222
City of Industry, Ca. 91744
Phone (626) 333-5336
Fax (626) 338-7076
JOSHUA L. NELSON, R.C.E. 066959 DATE
DESIGN BY: RI DRAWN: JP



INDEX MAP
N.T.S.

REGISTERED PROFESSIONAL ENGINEER
JOSHUA L. NELSON
No. C66959
Exp. 06/30/16
CIVIL
STATE OF CALIFORNIA

SUCCESSOR AGENCY TO THE
INDUSTRY URBAN-DEVELOPMENT AGENCY

APPROVED BY:

JOHN D. BALLAS, R.C.E. 34311, CITY ENGINEER DATE

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

GRADING PLAN G11

CHECKED: JN
DATE: JUNE 2015

JOB NO.: IBC-0381R SHT. 12 OF 19

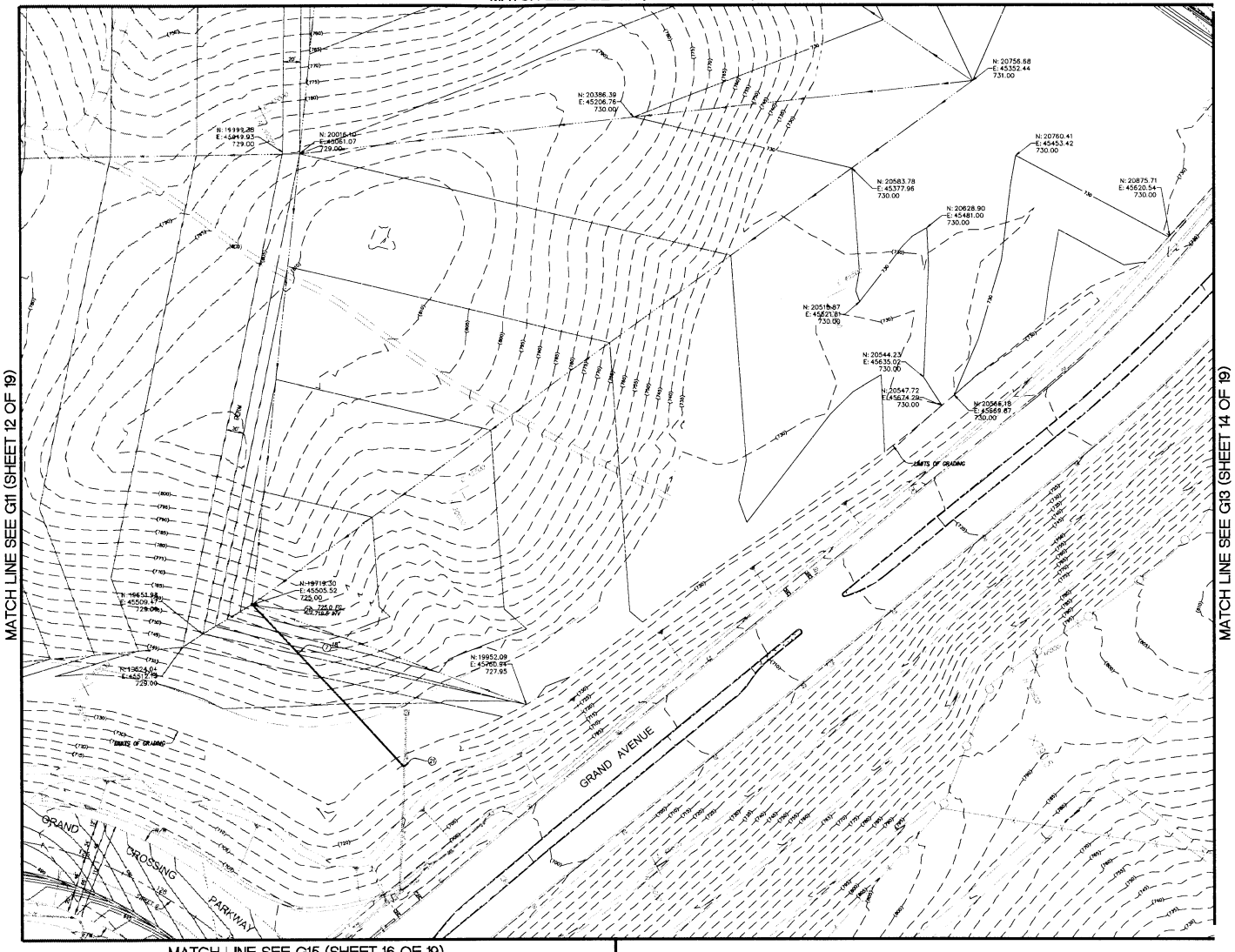
CONTRACT DRAWING NO. 18 OF 41

CONTRACT NO.: IBC-0381R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

MATCH LINE SEE G7 (SHEET 8 OF 19)

MATCH LINE SEE G11 (SHEET 12 OF 19)

MATCH LINE SEE G13 (SHEET 14 OF 19)



MATCH LINE SEE G15 (SHEET 16 OF 19)

Point Table			
Point #	Northing	Easting	Elevation

Point Table			
Point #	Northing	Easting	Elevation

Point Table			
Point #	Northing	Easting	Elevation

SCALE: 1"=50'

CONSTRUCTION NOTES:

R DESCRIPTION	
	(7) REMOVE EXIST. STORM DRAIN APPURTENANCES INCLUDING INLET STEEL GRATE, CONCRETE WINGWALL, CONCRETE GUTTER, RCP, COLLARS, INLET STRUCTURE, CMP, ETC.
SIZE	(7) CONSTRUCT CMP (12 GAUGE) INCLUDING BENDS, FITTING, REDUCERS, COUPLERS AND ANCHORS (20' MAX SPACING) FOR ABOVE GRADE INSTALLATION.
	(9) CONSTRUCT JUNCTION STRUCTURE - PIPE TO PIPE, PER SSPWC STANDARD PLAN 332-2 CASE 1, FOR PIPES 24" DIAMETER OR SMALLER.
	(28) CONSTRUCT 60" CMP INLET PER DETAIL "9" ON DETAIL SHEET D1.

LEGEND:

HP - HIGH POINT
LP - LOW POINT
GB - GRADE BREAK
CF - CURB FACE
FL - FLOWLINE
EP - EDGE OF PAVEMENT
DL - DAYLIGHT LINE
FG - FINISH GRADE
CMP - CORRUGATED METAL PIPE
R/W - RIGHT OF WAY
(P) - PROTECT IN PLACE
R(○) - CONSTRUCTION NOTE INDICATING REMOVAL ITEMS

B.M. NO. DG 4780 ELEV. 604.984

LABR W CB @ NW Cor Bridge Over San Jose Creek
74BR S/O C/L Valley Blvd & 45TH W/O C/L Grand Ave.

Adjusted - 1999 (Baseline)
Center Quad

NO.	DATE	REVISIONS	CK. BY

Prepared by
CNC ENGINEERING
Consulting Civil Engineers - Surveyors
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City of Industry, Ca. 91744
Phone (626) 333-0336
Fax (626) 336-7078

JOSHUA L. NELSON, R.C.E. C66959 DATE

DESIGN BY: RI DRAWN: JP CHECKED: JN DATE: JUNE 2015

REGISTERED PROFESSIONAL ENGINEER JOSHUA L. NELSON No. C66959 Exp. 06/30/17 CIVIL STATE OF CALIFORNIA

INDEX MAP
N.T.S.

SUCCESSOR AGENCY TO THE
INDUSTRY URBAN-DEVELOPMENT AGENCY

APPROVED BY:

JOHN D. BALLAS, R.C.E. 34311, CITY ENGINEER DATE

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

GRADING PLAN G12

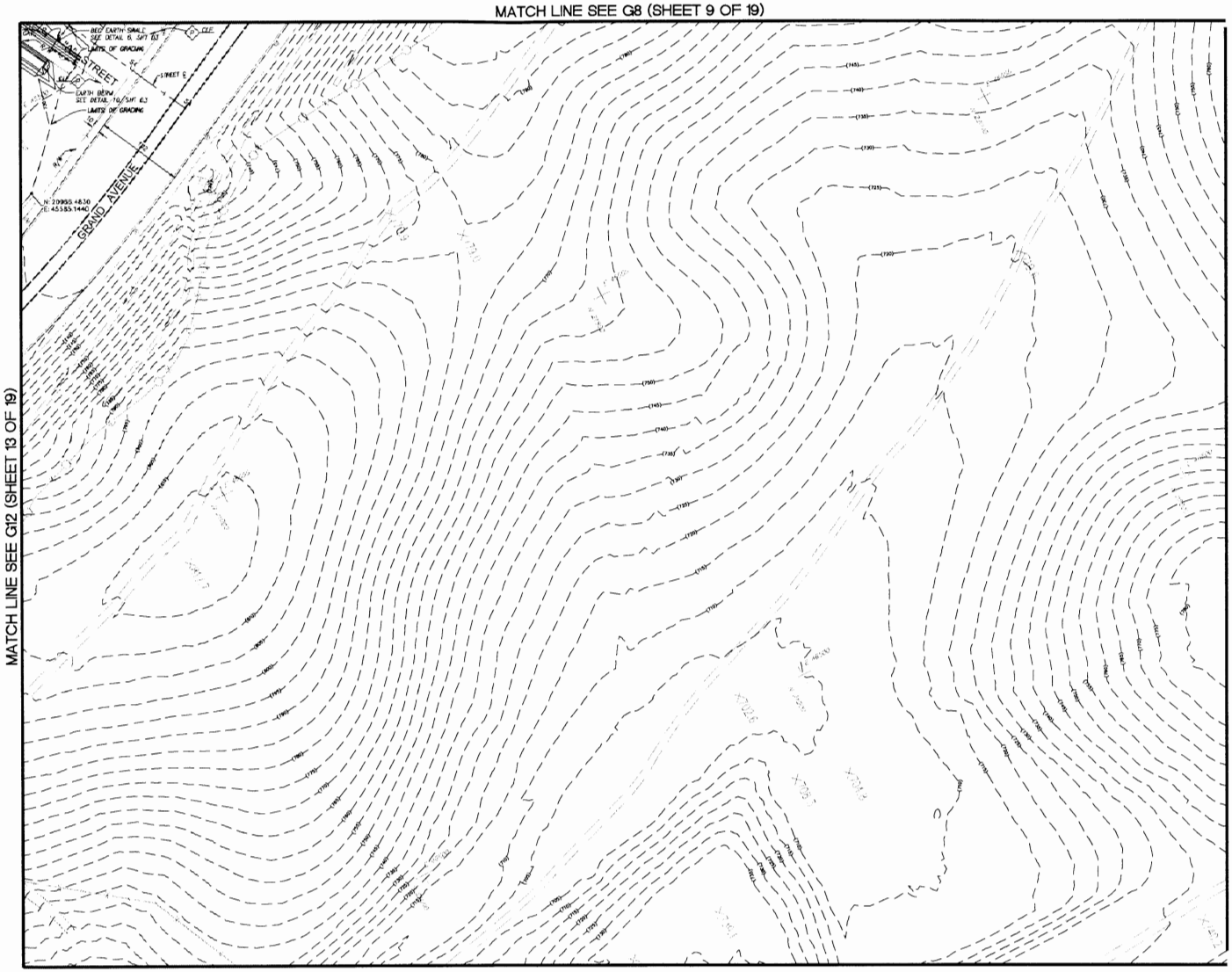
JOB NO.: IBC-0381R SHT. 13 OF 19

CONTRACT DRAWING NO. 19 OF 41

CONTRACT NO.: IBC-0381R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

MATCH LINE SEE G8 (SHEET 9 OF 19)

MATCH LINE SEE G12 (SHEET 13 OF 19)



Point Table			
Point #	Northing	Easting	Elevation

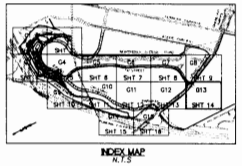
Point Table			
Point #	Northing	Easting	Elevation

Point Table			
Point #	Northing	Easting	Elevation

LEGEND:

HP - HIGH POINT
LP - LOW POINT
GB - GRADE BREAK
CF - CURB FACE
FL - FLOWLINE
EP - EDGE OF PAVEMENT
DL - DAYLIGHT LINE
FG - FINISH GRADE
CMP - CORRUGATED METAL PIPE
R/W - RIGHT OF WAY
(P) - PROTECT IN PLACE
R/O - CONSTRUCTION NOTE INDICATING REMOVAL ITEMS

SCALE: 1"=50'



INDEX MAP
N.T.S.

B.M. NO. DC 4780 ELEV. 604.964

LABW W CB @ NW Cor Bridge Over San Jose Creek
74AW S/D C/L Valley Blvd & 45N W/O C/L Grand Ave.

Adjusted : 1986 (Baseline)
Contra Costa

NO.	DATE	REVISIONS	CK. BY

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JOSHUA L. NELSON, R.C.E. C66959 DATE
DESIGN BY: RI DRAWN: JP

No. C66959
Exp. 06-30-15
REGISTERED PROFESSIONAL ENGINEER
JOSHUA L. NELSON
STATE OF CALIFORNIA

SUCCESSOR AGENCY TO THE
INDUSTRY URBAN-DEVELOPMENT AGENCY
APPROVED BY:
JOHN D. BALLAS, R.C.E. 34311, CITY ENGINEER DATE

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

GRADING PLAN G13

CHECKED: JN
DATE: JUNE 2015

JOB NO.: IBC-0381R SHT. 14 OF 19

CONTRACT DRAWING NO. 20 OF 41

CONTRACT NO.: IBC-0381R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

MATCH LINE SEE G10 (SHEET 11 OF 19) | MATCH LINE SEE G11 (SHEET 12 OF 19)

MATCH LINE SEE G15 (SHEET 16 OF 19)

SCALE: 1"=50'

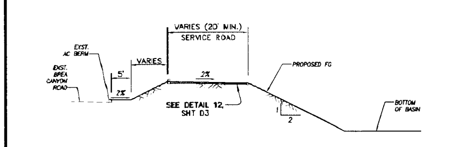
Point Table			
Point #	Northing	Easting	Elevation
15000	18117.45	45159.96	654.56
15001	18215.64	45253.18	664.00
15002	18252.36	45285.38	667.00
15003	18187.72	45226.10	661.50
15004	18230.99	45187.48	685.50
15005	18290.92	45315.13	670.00
15006	18334.69	45345.21	673.00
15007	18256.95	45212.46	688.00
15008	18291.04	45242.16	691.00
15009	18326.82	45269.58	694.00
15010	18367.40	45297.31	697.00
15011	18387.67	45381.30	676.75
15012	18352.83	45356.66	674.25
15013	18385.54	45308.76	698.25
15014	18427.92	45338.16	701.25
15015	18369.08	45401.21	668.13
15016	18354.45	45388.56	667.51
15017	18338.90	45377.06	666.90
15018	18321.20	45364.97	666.04
15019	18297.01	45347.78	664.86
15020	18277.14	45332.62	663.87
15021	18257.75	45316.84	662.87
15022	18238.86	45300.46	661.88
15023	18220.50	45283.50	660.88
15024	18202.67	45265.98	659.89
15025	18185.40	45247.90	658.89
15026	18175.50	45237.01	658.31
15027	18168.65	45229.34	657.90
15028	18152.01	45210.69	656.90

Point Table			
Point #	Northing	Easting	Elevation
15029	18135.36	45192.04	655.97
15030	18085.42	45136.08	655.10
15031	18068.77	45117.43	654.81
15032	18052.12	45098.78	654.52
15033	18035.48	45080.13	654.23
15034	18102.06	45154.73	655.39
15035	18144.47	45183.90	657.08
15036	18111.48	45165.29	655.55
15037	18403.17	45263.55	719.13
15038	18420.68	45281.38	719.27
15039	18438.20	45299.22	719.42
15040	18448.64	45309.85	719.51
15041	18468.15	45374.94	704.50
15042	18508.77	45409.80	707.50
15044	18469.08	45452.10	683.50
15046	18425.81	45416.52	679.83
15047	18546.56	45452.02	704.13
15049	18510.29	45497.28	680.13
15050	18590.60	45490.98	701.13
15052	18557.94	45540.11	676.63
15055	18511.50	45609.95	659.30
15056	18481.22	45566.00	659.03
15057	18386.49	45421.56	669.42
15062	18402.27	45439.64	670.86
15063	18446.97	45485.75	670.00
15064	18434.74	45501.99	670.00
15066	18381.84	45603.68	666.27
15067	18373.06	45548.04	669.62
15068	18402.05	45507.82	669.10

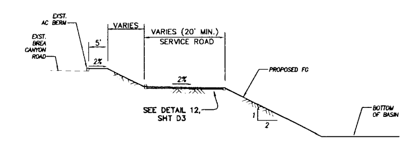
Point Table			
Point #	Northing	Easting	Elevation
15069	18387.55	45527.93	669.36
15071	18499.91	45627.39	660.00
15072	18420.82	45563.68	657.00
15073	18485.74	45527.98	0.00
15074	18473.09	45543.78	0.00
15076	18532.29	45578.69	660.00
15077	18441.56	45536.15	657.59
15078	18520.88	45595.84	660.47
15079	18396.43	45577.96	670.00
15080	18393.39	45556.88	670.00
15081	18390.52	45568.05	670.01
15084	18377.41	45544.85	670.40
15085	18404.14	45509.37	670.40
15086	18470.59	45326.10	720.21
15087	18509.81	45362.00	720.50
15088	18551.08	45395.53	720.79
15089	18594.24	45426.57	720.98
15090	18639.16	45455.03	720.77
15091	18613.06	45457.20	721.41
15092	18568.46	45424.75	721.62
15093	18527.73	45389.58	721.36
15094	18490.76	45352.73	720.35
15095	18384.52	45594.02	670.40
15096	18472.95	45670.06	671.98
15097	18416.12	45628.65	668.06
15098	18486.84	45645.01	670.00
15099	18475.02	45660.95	670.40

LEGEND:

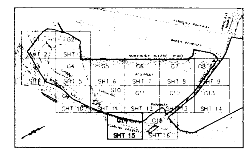
HP – HIGH POINT
LP – LOW POINT
GB – GRADE BREAK
CF – CURB FACE
FL – FLOWLINE
EP – EDGE OF PAVEMENT
DL – DAYLIGHT LINE
FG – FINISH GRADE
CMP – CORRUGATED METAL PIPE
R/W – RIGHT OF WAY
(P) – PROTECT IN PLACE
R( ) – CONSTRUCTION NOTE INDICATING REMOVAL ITEMS



A SECTION
N.T.S



B SECTION
N.T.S



INDEX MAP
N.T.S

CONSTRUCTION NOTES:

R/DESCRIPTION (2) REMOVE EXIST. STORM DRAIN APPURTENANCES INCLUDING INLET STEEL GRATE, CONCRETE WINGWALL, CONCRETE GUTTER, RCP, COLLARS, INLET STRUCTURE, CMP, ETC.

SIZE (7) CONSTRUCT CMP (12 GAUGE) INCLUDING BENDS, FITTING, REDUCERS, COUPLERS AND ANCHORS (20' MAX SPACING) FOR ABOVE GRADE INSTALLATION.

(8) CONSTRUCT CONCRETE V GUTTER TYPE B PER DETAIL "6" ON DETAIL SHEET D1.

(9) CONSTRUCT JUNCTION STRUCTURE – PIPE TO PIPE PER SSPWC STANDARD PLAN 332-2 CASE 1, FOR PIPES 24" DIAMETER OR SMALLER.

(10) CONSTRUCT DOWNDRAIN TO V-GUTTER CONNECTION PER DETAIL "10" ON DETAIL SHEET D2.

(11) CONSTRUCT DOWNDRAIN PER DETAIL "2" ON DETAIL SHEET D1.

(12) CONSTRUCT 10' CONCRETE TERRACE DRAIN PER DETAIL "3" ON DETAIL SHEET D1.

W=X' (16) CONSTRUCT DRIVEWAY PER CITY OF INDUSTRY STANDARD PLAN 114. (a=14', W=AS INDICATED), INCLUDING AGGREGATE BASE MATERIAL.

(17) CONSTRUCT 4" AC (1.5" C2-PG 64-10 OVER 2.5" B-PG 64-10) OVER 8" CAB.

(18) CONSTRUCT DOWNDRAIN/10' TERRACE DRAIN CONNECTION PER DETAIL "11" ON DETAIL SHEET D2.

(22) CONSTRUCT DOWNDRAIN/TERRACE DRAIN INTERSECTION PER DETAIL "1" ON DETAIL SHEET D1, INCLUDING SPLASH WALLS.

(31) CONSTRUCT DOWNDRAIN OUTLET TO SURFACE PER DETAIL "11" ON SHEET D3.

(32) CONSTRUCT HEADWALL OUTLET PER FWHA STANDARD PLAN 601-4.

B.M. NO. OG 4760 ELEV. 604.964

NO.	DATE	REVISIONS	CK. BY
1	9/4/15	REVISED DOWNDRAIN/V-GUTTER CONNECTION	JLN

Prepared by:
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JOSHUA L. NELSON, R.C.E. C66959 DATE
DESIGN BY: RI DRAWN: JP

REGISTERED PROFESSIONAL ENGINEER JOSHUA L. NELSON No. C66959 CIVIL STATE OF CALIFORNIA

SUCCESSOR AGENCY TO THE
INDUSTRY URBAN-DEVELOPMENT AGENCY
APPROVED BY:
JOHN D. BALLAS, R.C.E. 34311, CITY ENGINEER DATE

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

GRADING PLAN G14

CHECKED: JN
DATE: JUNE 2015

JOB NO.: IBC-0381R SHT. 15 OF 19

CONTRACT DRAWING NO. 21 OF 41

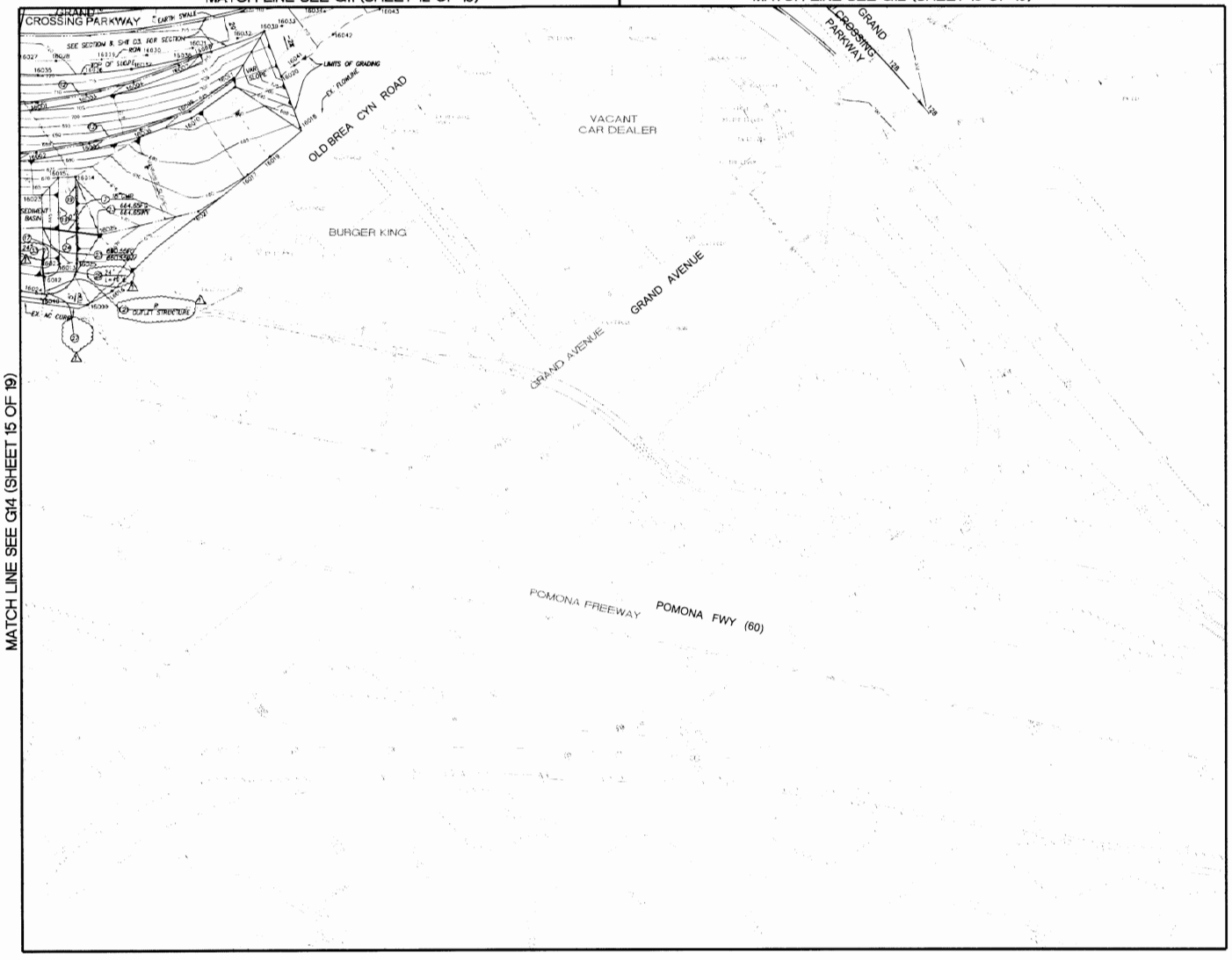
CONTRACT NO.: IBC-0381R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

ADDENDUM NO. 3

MATCH LINE SEE G11 (SHEET 12 OF 19)

MATCH LINE SEE G12 (SHEET 13 OF 19)

MATCH LINE SEE G14 (SHEET 15 OF 19)



Point Table			
Point #	Northing	Easting	Elevation
16000	18585.77	45749.27	674.91
16001	18643.92	45514.01	704.50
16002	18615.94	45564.82	680.50
16003	18598.40	45532.17	707.50
16004	18753.85	45544.73	710.50
16005	18675.15	45584.22	684.00
16006	18735.34	45537.58	687.50
16007	18809.65	45551.64	713.50
16008	18837.53	45552.78	715.10
16009	18795.73	45605.36	690.75
16010	18793.73	45613.11	691.75
16011	18857.70	45596.49	694.25
16012	18556.96	45697.02	670.00
16013	18579.27	45691.77	670.00
16014	18642.75	45610.98	670.00
16015	18624.55	45602.66	670.00
16016	18618.74	45748.40	676.04
16017	18620.54	45701.68	680.04
16018	18899.68	45681.42	683.97
16019	18853.24	45695.06	680.89
16020	18908.27	45618.51	711.96
16021	18750.25	45712.95	678.00
16022	18564.61	45679.52	660.69
16023	18598.44	45611.72	660.42
16024	18545.05	45713.09	670.40
16025	18597.10	45700.83	670.40
16026	18636.01	45684.04	664.45
16027	18648.34	45460.40	720.68
16028	18685.67	45480.79	720.16
16029	18733.61	45503.78	719.15

Point Table			
Point #	Northing	Easting	Elevation
16030	18782.82	45523.90	717.74
16031	18833.13	45541.10	715.92
16032	18884.57	45555.31	713.71
16033	18936.35	45566.49	711.09
16034	18988.16	45574.57	707.84
16035	18659.65	45465.45	720.80
16036	18708.43	45509.73	719.79
16037	18759.06	45529.86	718.38
16038	18811.19	45545.70	716.56
16039	18915.48	45562.39	712.18
16040	18541.25	45718.20	673.23
16041	18927.59	45613.96	712.05
16042	18984.25	45602.97	708.42
16043	19046.45	45602.21	704.00

CONSTRUCTION NOTES:

SIZE (7) CONSTRUCT CMP (12 GAUGE) INCLUDING BENDS, FITTING, REDUCERS, COUPLERS AND ANCHORS (20' MAX SPACING) FOR ABOVE GRADE INSTALLATION.

(12) CONSTRUCT 10' CONCRETE TERRACE DRAIN PER DETAIL "3" ON DETAIL SHEET D1.

(17) CONSTRUCT 4" AC (1.5" C2-PG 64-10 OVER 2.5" B-PG 64-10) OVER 8" CAB.

(18) CONSTRUCT CONCRETE CURB PER CIT OF INDUSTRY STANDARD PLAN 112, TYPE A1, 6" CF (OR 0" CF WHERE INDICATED), INCLUDING AGGREGATE BASE.

(23) CONSTRUCT CSP FLARED INLET PER SSPWC STANDARD PLAN 351-2.

(24) CONSTRUCT CHAIN LINK FENCE AND GATE PER SSPWC STANDARD PLAN 60C-3

(27) CONSTRUCT CONCRETE COLLAR PER SPPWC STANDARD PLAN 380-4. ⚠

(28) CONSTRUCT RCP STORM DRAIN.

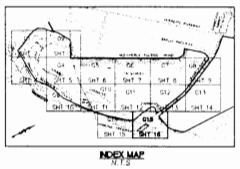
(29) ~~FLOW END TO WATER TIGHT SEAL WITH UNDER 6 MONTHS OF WORK MINIMUM~~

(30) CONSTRUCT CONCRETE FLARED END SECTION PER CALTRANS STD PLAN D94B. ⚠

LEGEND:

HP - HIGH POINT
LP - LOW POINT
GB - GRADE BREAK
CF - CURB FACE
FL - FLOWLINE
EP - EDGE OF PAVEMENT
DL - DAYLIGHT LINE
FG - FINISH GRADE
CMP - CORRUGATED METAL PIPE
R/W - RIGHT OF WAY
(P) - PROTECT IN PLACE
(R) - CONSTRUCTION NOTE INDICATING REMOVAL ITEMS

SCALE: 1"=50'



INDEX MAP
N.T.S.

B.M. NO DG 4760 ELEV. 604.964

LADW W CB @ NW Cor Bridge Over San Jose Creek
FABR S/O C/L Valley Blvd & 45th W/O C/L Grand Ave

Adjusted : 1980 (Bonifas) Control Point

NO.	DATE	REVISIONS	CK. BY
1	9/4/15	REVISED STORM DRAIN RECONSTRUCTION	JLN

Prepared by:
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Consulting Civil Engineers · Surveyors
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Fax (626) 336-7076

JOSHUA L. NELSON, R.C.E. C68959 DATE
DESIGN BY: RI DRAWN: JP

SUCCESSOR AGENCY TO THE
INDUSTRY URBAN-DEVELOPMENT AGENCY
APPROVED BY:
JOHN D. BALLAS, R.C.E. 34311 CITY ENGINEER DATE

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

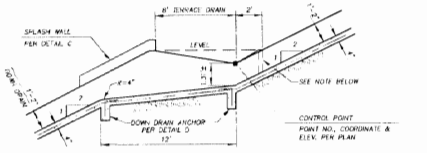
GRADING PLAN G15

CHECKED: JN
DATE: JUNE 2015

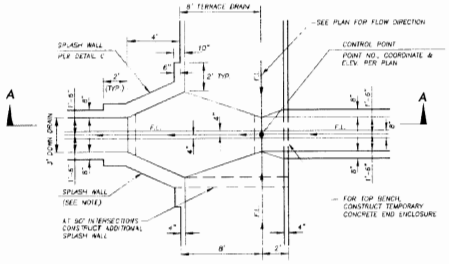
JOB NO.: IBC-0381R SHT. 16 OF 19

CONTRACT DRAWING NO. 22 OF 41

CONTRACT NO.: IBC-0381R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

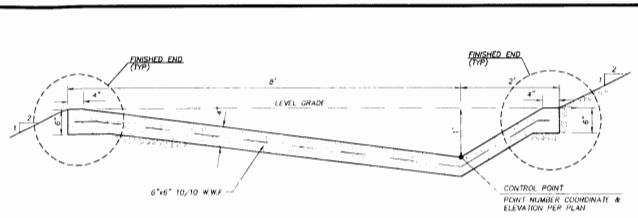


SECTION A-A

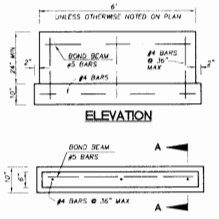


PLAN

1 DOWN DRAIN AND TERRACE DRAIN INTERSECTION DETAIL
NOT TO SCALE

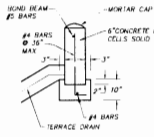


3 GUNITE TERRACE DRAIN DETAIL - 10' WIDE
NOT TO SCALE



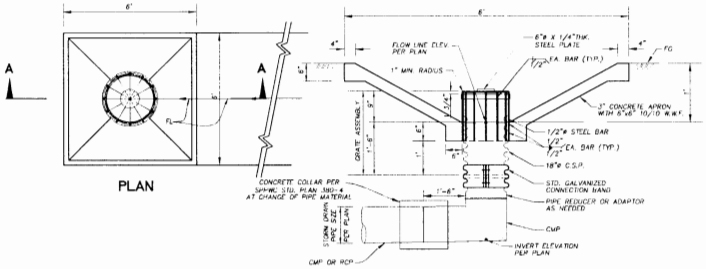
ELEVATION

PLAN VIEW



SECTION A-A

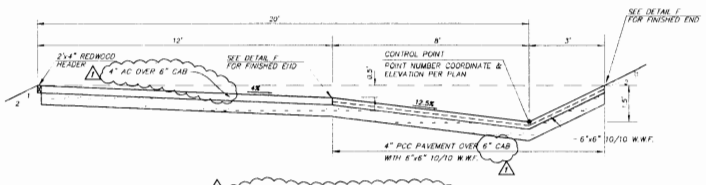
4 SPLASH WALL DETAIL
NOT TO SCALE



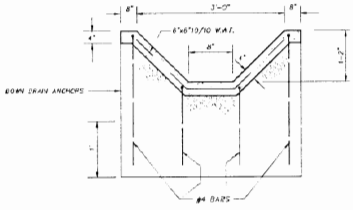
SECTION 'A-A'

7 AREA DRAIN DETAIL
NOT TO SCALE

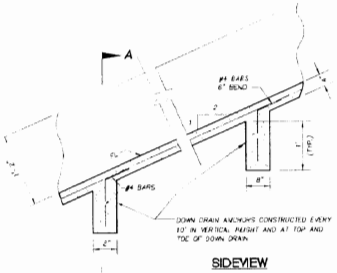
NOTE:
1. GRATE ASSEMBLY SHALL BE GALVANIZED AFTER FABRICATION.
2. WHEN V-GUTTER FLOWS INTO THE AREA DRAIN, CONCRETE APRON SHALL BE MODIFIED TO ALLOW V-GUTTER FL TO JOIN AREA DRAIN FL.



8 TERRACE DRAIN - 23' WIDE
NOT TO SCALE

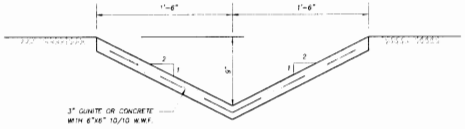


SECTION A-A

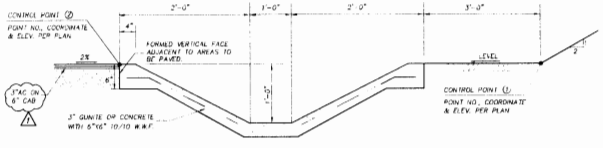


SIDEVIEW

2 DOWN DRAIN DETAIL
NOT TO SCALE

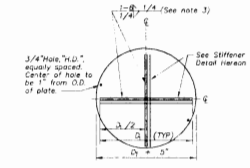


5 CONCRETE V-GUTTER TYPE A DETAIL
NOT TO SCALE



6 CONCRETE V-GUTTER TYPE B DETAIL
NOT TO SCALE

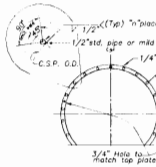
- CONCRETE SHALL BE USED AT ALL LOCATIONS ADJACENT TO AREAS TO BE PAVED (SUCH AS THE PERMELTUM MAINTENANCE ROAD).
- GUNITE MAY BE USED AT AREAS THAT ARE NOT TO BE PAVED SUCH AS ALONG THE EQUIPMENT ROADS.



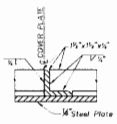
BOTTOM VIEW
TOP PLATE

D1	A	n	"HD"
60"	11.5°	31	4

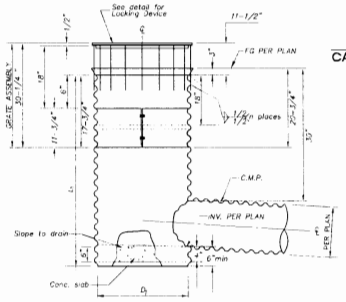
D/RISER DIAMETER	C.S.P. GAUGE
60"	12



BOTTOM VIEW
CAGE RETAINER RING



DETAIL - PLATE STIFFENER



ELEVATION

1. Corrugated steel pipe shall conform to AASHO M-36.
2. Grate assembly shall be galvanized after fabrication.
3. For D 54" and larger, weld 1 "x1 "x " angles to plate with 1" welds at 6 o.c.
4. n=number of bars on grate assembly.
5. Gage of pipe for diameter D shall be same as for riser.
6. Riser and stub shall be shop fabricated and galvanized after welding.

9 CMP INLET
NOT TO SCALE

CONTRACT NO.: IBC-0381R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

SUCCESSOR AGENCY TO THE
INDUSTRY URBAN-DEVELOPMENT AGENCY
APPROVED BY:
JOHN D. DALLAS R.C.E. 54311 AGENCY ENGINEER DATE

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

DETAILS SHEET D1

B.M. VO DC 4760 ELEV. 604.954
1.669' W CB @ W'ly Cor Bridge Over San Jose Creek
748' S/O C/L Valley Blvd & 457' W/O C/L Grand Ave
Adjusted: 1990 (Bluewater) Datum Date

NO.	DATE	REVISION	BY
1	9/4/15	REVISED DETAILS	JLN

Prepared by:
CNC ENGINEERING
Consulting Civil Engineers Surveyors
735 N. Hacienda Blvd., Ste. 222
City of Industry, Ca. 91744
Phone (626) 333-3336
Fax (626) 336-7078

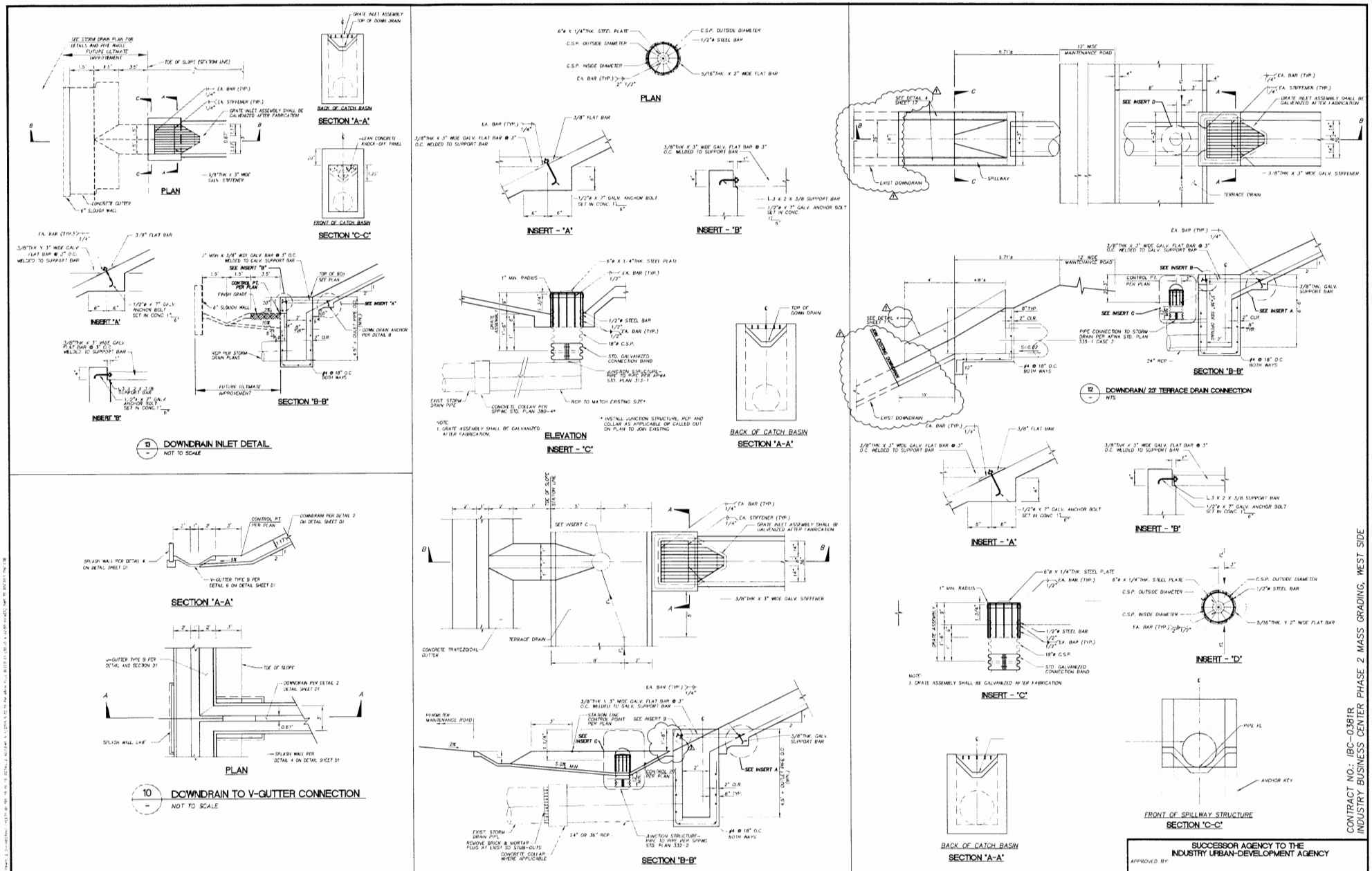
No. C66959 Exp. 12/31/16 STATE OF CALIFORNIA CIVIL

JOSHUA L. NELSON, R.C.E. C66959 DATE
DESIGN BY: RI DRAWN: JP

CHECKED: JLN
DATE: JUNE 2015

JOB NO.: IBC-0381R SHT. 17 OF 19
CONTRACT DRAWING NO. 23 OF 41

ADDENDUM NO. 3



13 DOWNDRAIN INLET DETAIL
NOT TO SCALE

12 DOWNDRAIN/ 23' TERRACE DRAIN CONNECTION
NTS

10 DOWNDRAIN TO V-GUTTER CONNECTION
NOT TO SCALE

11 DOWNDRAIN/ 10' TERRACE DRAIN CONNECTION
NOT TO SCALE

B.M. NO. DC 4760 ELEV. 604.964

LABR W CB @ NW Cor Bridge Over San Jose Creek
T4BR S/B C/L Valley Blvd & 45th R/B C/L Grand Ave.

Adjusted : 1990 (Baseline)
Contra Costa

CONTRACT NO.: IBC-0381R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

ADDENDUM NO. 3

NO.	DATE	REVISIONS	CK. BY
1	9/4/15	CLARIFIED LIMITS OF TERRACE/DOWNDRAIN CONNECTIONS	JLN

Prepared by:
CNC ENGINEERING
Consulting Civil Engineers · Surveyors
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Phone (626) 333-0336
Fax (626) 336-7026

JOSHUA L. NELSON, R.C.E. 086959 DATE
DESIGN BY: JN DRAWN: JP

SUCCESSOR AGENCY TO THE
INDUSTRY URBAN-DEVELOPMENT AGENCY
APPROVED BY:
JOHN D. BALLAS R.C.E. 34311 AGENCY ENGINEER DATE

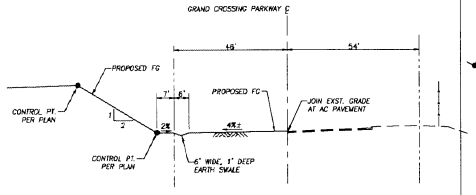
INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

DETAILS SHEET D2

CHECKED: J.L.N.
DATE: JUNE 2015

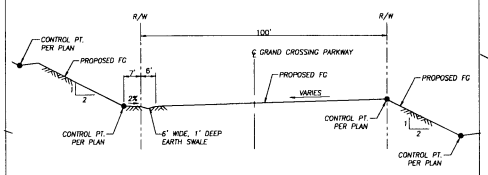
JOB NO.: IBC-0381R SHT. 18 OF 19

CONTRACT DRAWING NO. 24 OF 41



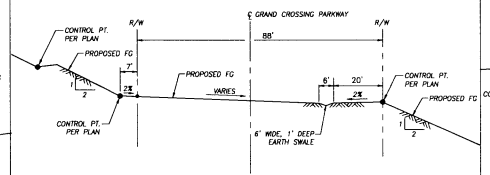
1 G1,G2 SECTION
SCALE: 1"=20'

GRAND CROSSING PARKWAY



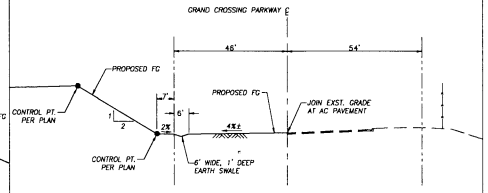
2 G2 SECTION
SCALE: 1"=20'

GRAND CROSSING PARKWAY



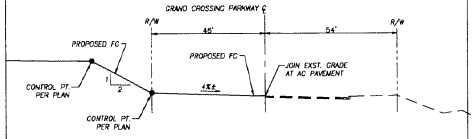
3 G2,G4 SECTION
SCALE: 1"=20'

GRAND CROSSING PARKWAY



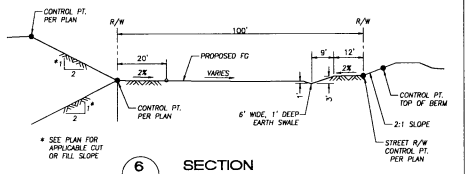
4 G3 SECTION
SCALE: 1"=20'

GRAND CROSSING PARKWAY



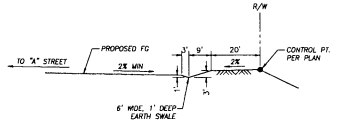
5 G4 SECTION
SCALE: 1"=20'

GRAND CROSSING PARKWAY



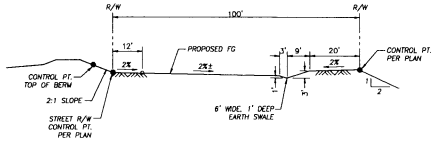
6 G4 SECTION
SCALE: 1"=20'

"A" STREET



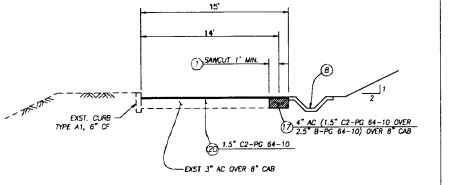
7 G4 SECTION
SCALE: 1"=20'

GRAND CROSSING PARKWAY



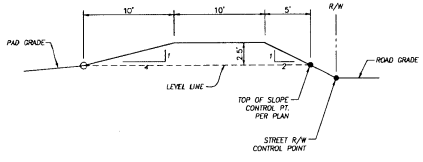
8 G9,G10, G11 SECTION
SCALE: 1"=20'

GRAND CROSSING PARKWAY

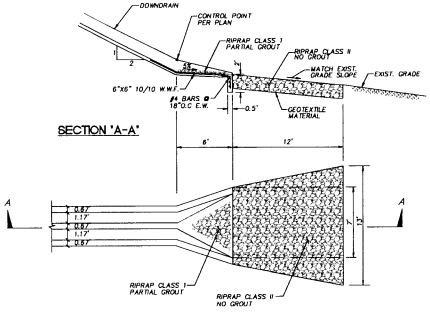


9 G10,G14 SECTION
N.T.S.

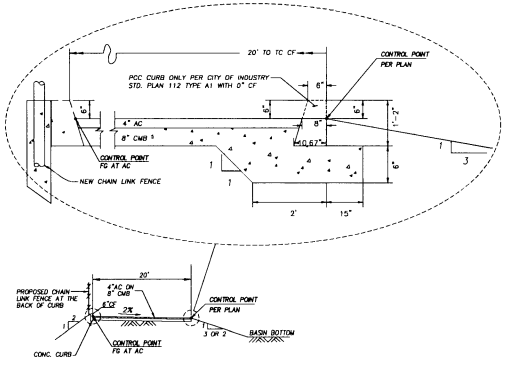
PERIMETER MAINTENANCE ROAD



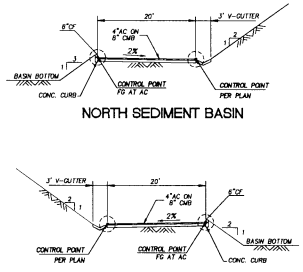
10 G11 TOP OF BERM DETAIL
N.T.S.



11 G14 DOWNDRAIN OUTLET TO SURFACE
N.T.S.



12 – 20' WESTERLY SEDIMENT BASIN ACCESS ROAD SECTION
N.T.S.



13 – 20' SEDIMENT BASIN RAMP ACCESS SECTION
N.T.S.

CONTRACT NO.: IBC-0381R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

B.M. NO. DC 4760 ELEV. 504.964

LABM W CB @ NW Cor Bridge Over San Jose Creek
PABM S/O C/L Valley Blvd & 45ft W/O C/L Grand Ave.

Adjusted : 1980 (Baseline)
Datum Quad

NO.	DATE	REVISIONS	CK. BY

Prepared by:
CNC ENGINEERING
Consulting Civil Engineers • Surveyors
255 N. Hacienda Blvd., Ste. 222
City of Industry, Ca. 91744
Phone (626) 333-0338
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JOSHUA L. NELSON, R.C.E. C66959 DATE
DESIGN BY: RI DRAWN: JP

SUCCESSOR AGENCY TO THE
INDUSTRY URBAN-DEVELOPMENT AGENCY
APPROVED BY:
JOHN D. BALLAS, R.C.E. 34311, AGENCY ENGINEER DATE

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

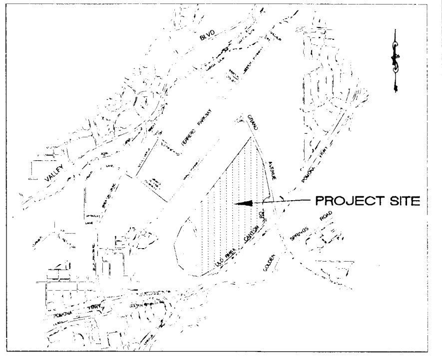
DETAILS SHEET D3

CHECKED: JLN.
DATE: JUNE 2015

JOB NO.: IBC-0381R SHT. 19 OF 19

CONTRACT DRAWING NO. 25 OF 41

CITY OF INDUSTRY
IMPROVEMENT PROJECT NO. 381R
INDUSTRY BUSINESS CENTER
WEST SIDE STORM DRAIN PLAN
CONTRACT NO. IBC-0381R
INDUSTRY PRIVATE DRAIN NO. 246



VICINITY MAP
NOT TO SCALE

GENERAL NOTES

1. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION IN REGARD TO SAFETY ORDERS.
2. ALL RECOMENDATIONS AND CONDITIONS OF THE "REPORT OF GEOTECHNICAL INVESTIGATION" PREPARED BY LEIGHTON CONSULTING, INC. (PROJECT NO. 601180-004) AND DATED JANUARY 27, 2010, AND ALL AMENDMENTS THERETO, SHALL BE A PART OF THE PLANS.
3. ALL TEMPORARY EXCAVATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS-DIVISION OF OCCUPATIONAL SAFETY AND HEALTH'S "CONSTRUCTION SAFETY ORDERS" (CURRENT EDITION); ALL APPLICABLE ORDINANCES AND REGULATIONS OF THE CITY OF INDUSTRY; AND THE "REPORT OF GEOTECHNICAL INVESTIGATION" PREPARED BY LEIGHTON CONSULTING, INC. EXCAVATIONS SHALL BE PROPERLY SHORED AS REQUIRED TO MAINTAIN SUPPORT OF THE ADJACENT ADJACENT STRUCTURES.
4. NO CONCRETE SHALL BE PLACED UNTIL THE FORMS AND REINFORCING STEEL HAVE BEEN PLACED, INSPECTED AND APPROVED.
5. ALL STRUCTURAL CONCRETE SHALL COMPLY WITH ACI AND CALIFORNIA BUILDING CODE REQUIREMENTS FOR MODERATE EXPOSURE TO WATER-SOLUABLE SULFATES IN SOIL; AND SHALL THEREFORE BE COMPOSED OF TYPE V PORTLAND CEMENT HAVING A MAXIMUM WATER-CEMENT RATIO OF 0.50 AND A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
6. TRANSVERSE REINFORCEMENT AND TRANSVERSE JOINTS SHALL BE PLACED AT RIGHT ANGLES (OR RADIAL) TO THE CONDUIT CENTERLINE EXCEPT AS OTHERWISE SHOWN ON THE DRAWINGS.
7. ALL STEEL ADJACENT TO FACE OF CONCRETE SHALL HAVE A 2-1/2-INCH CLEARANCE UNLESS OTHERWISE SPECIFIED.
8. REINFORCEMENT SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE STEEL, PER ASTM A-615-GRADE 60.
9. ALL BAR BENDS AND HOOKS SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE "MANUAL OF STANDARD PRACTICE."
10. DIMENSIONS FROM FACE OF CONCRETE TO STEEL ARE TO CENTERLINE OF STEEL UNLESS OTHERWISE NOTED.
11. ALL STEEL THAT IS TO BE CONTINUOUS SHALL HAVE A MINIMUM LAP OF 30 BAR DIAMETERS OR 18 INCHES, WHICHEVER IS GREATER.
12. ALL CONSTRUCTION JOINTS IN THE FOOTING OR SLABS AND WALLS SHALL BE IN THE SAME PLANE. NO STAGGERING OF JOINTS WILL BE PERMITTED.
13. ALL EXPOSED EDGES SHALL BE FINISHED WITH A 3/4-INCH CHAMFER.
14. UNLESS OTHERWISE SHOWN, CONCRETE DIMENSIONS SHALL BE MEASURED VERTICALLY OR HORIZONTALLY AND PARALLEL OR AT RIGHT ANGLES (OR RADIAL) TO THE CENTER LINE OF CONSTRUCTION.
15. CONCRETE BACKFILL IS REQUIRED WHEN THE PIPE HAS LESS THAN ONE FOOT OF COVER. THE CONCRETE BACKFILL SHALL CONSIST OF 1:3:5 MIX, PORTLAND CEMENT CONCRETE POURED FROM WALL TO WALL OF TRENCH AND FROM BOTTOM OF TRENCH TO A MINIMUM OF 4 INCHES OVER THE TOP OF THE PIPE.
16. ALL PIPES SHALL BE PLACED IN TRENCH IN NATURAL GROUND AND/OR COMPACTED FILL. THE GROUND LEVEL BEFORE THE TRENCHING SHALL BE AT LEAST 3 FEET ABOVE THE TOP OF THE PIPE ELEVATION, OR AT FINISH SURFACE ELEVATION, WHICHEVER IS LESS.
17. ALL BACKFILL AND FILLS OUTSIDE OF STREET RIGHT OF WAY SHALL BE COMPACTED TO 90 PERCENT OF MAXIMUM DENSITY AS DETERMINED BY ASTM SOIL COMPACTION TEST D 1557-78 METHOD "D" UNLESS OTHERWISE SPECIFIED. THIS SHALL BE CERTIFIED BY A GEOTECHNICAL ENGINEER. THIS CERTIFICATION SHALL BE SUBMITTED TO THE CITY ENGINEER PRIOR TO ACCEPTANCE OF THE WORK BY THE COUNTY.
18. ALL BACKFILL AND FILLS WITHIN STREET RIGHTS OF WAY SHALL BE COMPACTED IN ACCORDANCE WITH CITY REQUIREMENTS UNLESS OTHERWISE NOTED AND INSPECTED BY THE CITY. THE SOIL COMPACTION SHALL BE CERTIFIED BY A GEOTECHNICAL ENGINEER.
19. PIPE BEDDING SHALL BE:

    ACCORDING TO LACDPW STANDARD PLAN NO. 3082, CASE 3, EXCEPT BELL AND SPIGOT PIPE WHICH SHALL BE CASE 2 BEDDING, UNLESS OTHERWISE SHOWN. "W" VALUES SHALL BE AS SPECIFIED ON STANDARD PLAN NO. 3080 FOR CASE III BEDDING, NOTES 3 (A), 3 (B), AND 3 (C). IF THE "W" VALUE AT THE TIP OF THE PIPE IS EXCEEDED, THE BEDDING SHALL BE MODIFIED, AND/OR PIPE OF ADDITIONAL STRENGTH SHALL BE PROVIDED. THE PROPOSED MODIFICATION SHALL BE APPROVED BY THE CITY ENGINEER.
20. PIPE SHALL BE EMBEDDED 5 INCHES MINIMUM INTO ALL STRUCTURES INCLUDING INLET AND HEAD WALLS, UNLESS OTHERWISE SPECIFIED.
21. UNLESS OTHERWISE SPECIFIED IN THE PROFILE ON THESE PLANS, THE PIPE SHALL BE MANUFACTURED WITH A MINIMUM CONCRETE COVER OVER THE STEEL IN THE INVERT OF 0.75 INCHES FOR RCP UP TO 96 INCHES IN DIAMETER AND 1.25 INCHES FOR PIPE GREATER THAN 96 INCHES IN DIAMETER.
22. THE CONTRACTOR SHALL PROVIDE TO THE SATISFACTION OF THE CITY ENGINEER AND THE DIRECTOR OF PUBLIC WORKS A DRAINAGE SYSTEM FOR CONTRIBUTORY FLOWS TO BE OPERABLE AT ALL TIMES UNTIL THIS STORM DRAIN SYSTEM IS ACCEPTED FOR MAINTENANCE. THE DESIGN OF THE DRAINAGE SYSTEM MUST BE PREPARED UNDER THE DIRECTION OF A CIVIL ENGINEER.
23. WHERE THE UTILITIES ARE INDICATED ON THE DRAWINGS TO BE SUPPORTED, SAID SUPPORTS SHALL BE IN ACCORDANCE WITH STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION NO. 224-2, UNLESS OTHERWISE INDICATED.
24. ALL OPENINGS RESULTING FROM THE CUTTING OR PARTIAL REMOVAL OF EXISTING CULVERTS, PIPES OR SIMILAR STRUCTURES SHALL BE SEALED WITH 8 INCHES OF BRICK AND MORTAR OR 6 INCHES OF CONCRETE, UNLESS OTHERWISE SHOWN.
25. MANHOLES SHALL USE THE STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION NO. 630-3 FOR THE "FRAME AND COVER" AND NO. 635-3 FOR THE "STANDARD DROP STEP."
26. A NPDES PERMIT FROM THE REGIONAL WATER QUALITY CONTROL BOARD IS REQUIRED BEFORE ANY DISCHARGE OF NON-STORM WATER INTO THE STORM DRAIN IS ALLOWED.
27. PRIOR TO COMMENCEMENT OF ANY WORK AND/OR DISCHARGE OF DRAINAGE TO A WATERCOURSE, A PERMIT FROM BOTH THE CALIFORNIA DEPARTMENT OF FISH AND GAME AND U.S. ARMY CORPS OF ENGINEERS MAY BE REQUIRED.
28. THE LATEST REVISED STANDARD PLAN OR DRAWING SHALL BE USED UNLESS OTHERWISE NOTED.
29. PRIOR TO COMMENCEMENT OF ANY WORK WITHIN THE STATE RIGHT-OF-WAY, A DOUBLE PERMIT IS REQUIRED FROM THE STATE.

CONCRETE REMOVAL NOTES

A. WHERE A SECTION OF AN EXISTING STRUCTURE IS TO BE SEPARATED FROM A NEW STRUCTURE, AND THE REINFORCEMENT IS TO BE CUT AT THE POINT OF SEPARATION, THE CONTRACTOR SHALL SAWCUT THROUGH THE WALL WITH AN APPROVED CONCRETE SAW. ANY SAW CUT OR IRREGULARITIES IN THE SURFACE OF THE REMAINING WALL OR JOINT SHALL BE FILLED WITH AN EPOXY GROUT MIXTURE TO OBTAIN A SMOOTH PLANE SURFACE. THE REINFORCING STEEL EXPOSED BY CONCRETE REMOVAL SHALL BE BURNED OFF ONE (1) INCH BELOW THE SURFACE OF THE REMAINING CONCRETE AND THE RESULTING VOIDS SHALL BE PATCHED WITH EPOXY ADHESIVE. EPOXY SHALL BE A COMMERCIAL QUALITY, TWO-COMPONENT MIXTURE, SPECIALLY MANUFACTURED FOR THE INTENDED PURPOSE, AND BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS. ONE-HALF INCH THICK PREMOLDED EXPANSION JOINT MATERIAL SHALL BE USED TO SEPARATE THE FACES OF THE EXISTING AND NEW WALL.

B. WHERE REINFORCEMENT IS REQUIRED TO EXTEND THROUGH THE NEW JOINT, CONCRETE SHALL BE REMOVED IN THE FOLLOWING SEQUENCE:
   1. A SAW CUT SHALL BE MADE ONE AND ONE-HALF INCHES DEEP AT THE REMOVAL LIMITS. CARE SHALL BE EXERCISED IN SAWING AT THE REMOVAL LIMITS SO AS NOT TO CUT THE REINFORCING STEEL IN THE REMAINING SLAB. THE EXISTING REINFORCING STEEL SHALL BE RETAINED AND EXTENDED INTO THE NEW CONSTRUCTION AS INDICATED ON THE PLANS.
   2. USING HANDHELD EQUIPMENT, THE CONCRETE SHALL BE CAREFULLY REMOVED FOR THE FULL DEPTH OF THE WALL OR SLAB AND FOR A MINIMUM DISTANCE FROM THE SAWCUT EQUAL TO THE LONGEST EXTENSION OF THE EXISTING BARS TO BE EXTENDED INTO THE NEW CONSTRUCTION. THIS EXTENSION SHALL BE 30 BAR DIAMETERS, UNLESS OTHERWISE SHOWN.
   3. EXISTING REINFORCEMENT SHALL BE CUT TO THE REQUIRED BAR EXTENSION.
   4. THE REMAINING CONCRETE MAY BE REMOVED BY ANY SUITABLE METHOD UPON APPROVAL OF THE ENGINEER, WHO SHALL BE THE SOLE JUDGE OF THE USE OF ANY CONCRETE REMOVAL EQUIPMENT. EXPLOSIVES, WRECKING BALL, OR OTHER SIMILAR DEVICES, WHICH ARE LIKELY TO DAMAGE THE CONCRETE TO BE LEFT IN PLACE, SHALL NOT BE USED.

BACKFILL NOTES

THE CONTRACTOR SHALL BACKFILL THE PROPOSED STORM DRAIN BOX AND PIPES TO MATCH EXISTING GROUND PROFILE OR CONSTRUCT A MINIMUM OF 5 FEET OF COVER OVER THE STORM DRAIN OR TO ONE FOOT LOWER THAN THE DESIGN ELEVATION OF THE MANHOLE.

CITY OF INDUSTRY NOTES

1. UNLESS OTHERWISE NOTED, ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION WITH ALL CURRENT SUPPLEMENTS, PUBLISHED BY BUILDING NEWS INC., LOCATED AT WWW.BNIBOOKS.COM; AND APPROPRIATE STANDARD DRAWINGS.
2. PRIOR TO BEGINNING ANY WORK, THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE CITY OF INDUSTRY PERMIT OFFICE.
3. ALL WORK COVERED BY THIS PLAN SHALL BE INSPECTED BY THE CITY ENGINEER. REQUEST FOR INSPECTION SERVICE SHALL BE MADE 24-HOURS IN ADVANCE AT (626) 333-0336.
4. WORK IN EXISTING STREETS SHALL BE COMPLETED AS SOON AS POSSIBLE TO MINIMIZE INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND THE TRAVELING PUBLIC. FAILURE TO COMPLY WITH THIS REQUIREMENT IS A VIOLATION OF CITY ORDINANCE.
5. THE CONTRACTOR SHALL NOTIFY THE LOS ANGELES COUNTY FIRE DEPARTMENT (626) 963-2417 AND INDUSTRY SHERIFF DEPARTMENT (626) 330-3322.
6. 48-HOURS PRIOR TO ANY STREET WORK, THE CONTRACTOR SHALL CALL THE UNDERGROUND SERVICE ALERT AT (800) 422-4133 AND OBTAIN AN INQUIRY IDENTIFICATION NUMBER.
7. ALL UTILITY TRENCHES IN PUBLIC STREETS SHALL BE BACKFILLED WITH A CLEAN GRANULAR MATERIAL HAVING A MINIMUM SAND EQUIVALENT OF 30. BACKFILL SHALL BE COMPACTED TO A MINIMUM RELATIVE DENSITY OF 90 PERCENT.
8. THE OPTION OF USING SLAG OR CRUSHED MISCELLANEOUS BASE (CMB) IN LIEU OF CRUSHED AGGREGATE BASE FOR ANY STREET IMPROVEMENT IS NOT ALLOWED.
9. EXISTING CONCRETE IMPROVEMENTS AND ASPHALT CONCRETE PAVEMENT SHALL BE SAW CUT, FULL DEPTH, TO A TRUE LINE WHERE NEW CONCRETE OR ASPHALT IS TO JOIN.
10. ALL MANHOLES SHALL BE ADJUSTED TO FINISHED GRADE IN ACCORDANCE WITH SECTION 301-1.6 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
11. THE CONTRACTOR SHALL PROTECT AND RESTORE EXISTING UTILITIES AND IMPROVEMENTS AS PER SECTION 5-1, 5-2, AND 7-9 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
12. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL UTILITIES OF EVERY NATURE, WHETHER SHOWN HEREON OR NOT, TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR THE TOTAL EXPENSE OF REPAIR OR REPLACEMENT OF SAID UTILITIES DAMAGED BY OPERATIONS IN CONNECTION WITH THE PROSECUTION OF THE WORK.
13. THE FOLLOWING IS A LIST OF THE UTILITY COMPANIES AND THE PERSONS TO CONTACT REGARDING THE RESPECTIVE UTILITIES WITHIN THE LIMITS OF THIS PROJECT:

    SO. CALIFORNIA GAS COMPANY
    CONTACT: MR. THOMAS DAHMS, PLANNING ASSOCIATE
    PH. (714) 634-3037, FAX. (714) 634-7287
    EMAIL: tdame@semprautilities.com

    SOUTHERN CALIFORNIA EDISON COMPANY
    CONTACT: MR. JOE ZAVALLA, PLANNER
    PH. (909) 592-3729, FAX. (909) 592-3727
    EMAIL: joe.zavala@sce.com

    WALNUT VALLEY WATER DISTRICT
    CONTACT: MS. SHERYL SHAW, ENGINEERING & PLANNING MANAGER
    PH. (909) 595-1268, FAX. (909) 594-9532
    EMAIL: sshaw@wvwd.com
14. ANY CONTRACTOR OR SUBCONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE HIMSELF WITH THE SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OR INDIRECTLY FROM HIS OPERATIONS, WHETHER OR NOT SUCH FACILITIES ARE SHOWN ON THESE PLANS.

PRIVATE ENGINEER'S NOTICE TO CONTRACTORS

THE EXISTENCE AND APPROXIMATE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE DETERMINED BY A SEARCH OF AVAILABLE RECORDS, TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES OR STRUCTURES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN AND ALL OTHER UTILITY LINES OR STRUCTURES NOT SHOWN ON THESE PLANS.

ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATION" OF THE U.S. DEPARTMENT OF LABOR AND WITH THE STATE OF CALIFORNIA DEPARTMENT INDUSTRIAL RELATIONS' "CONSTRUCTION SAFETY ORDERS".

THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR THE CONTRACTORS' AND SUBCONTRACTORS' COMPLIANCE WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATION" OF THE U.S. DEPARTMENT OF LABOR OR WITH THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS' "CONSTRUCTION SAFETY ORDERS".

CONTRACTOR AGREES THAT HE/SHE WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE ENGINEER.

INDEX OF SHEETS

CONTRACT DWG. NO.	SHEET NO.	DESCRIPTION
26 OF 41	1 OF 12	TITLE SHEET
27 OF 41	2 OF 12	INDEX MAP & DETAILS
28 OF 41	3 OF 12	LINE W-1 STA. 10+00 – 23+00
29 OF 41	4 OF 12	LINE W-1 STA. 23+00 – 34+00
30 OF 41	5 OF 12	LINE W-1 STA. 34+00 – 44+00
31 OF 41	6 OF 12	LINE W-1 STA. 44+00 – 52+90.10
32 OF 41	7 OF 12	LINE W-2 STA. 100+00 – 111+00
33 OF 41	8 OF 12	LINE W-2 STA. 111+00 – 122+00
34 OF 41	9 OF 12	LINE W-2 STA. 122+00 – 132+00
35 OF 41	10 OF 12	LINE W-2 STA. 132+00 – 140+04.92
36 OF 41	11 OF 12	STORM DRAIN PLAN – LINE W-3
37 OF 41	12 OF 12	STORM DRAIN PLAN – LINE W-4

CONTRACT NO.: IBC-0381R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

B.M. NO. DG 4760 ELEV. 604.964

PLOTTED 7/26/16

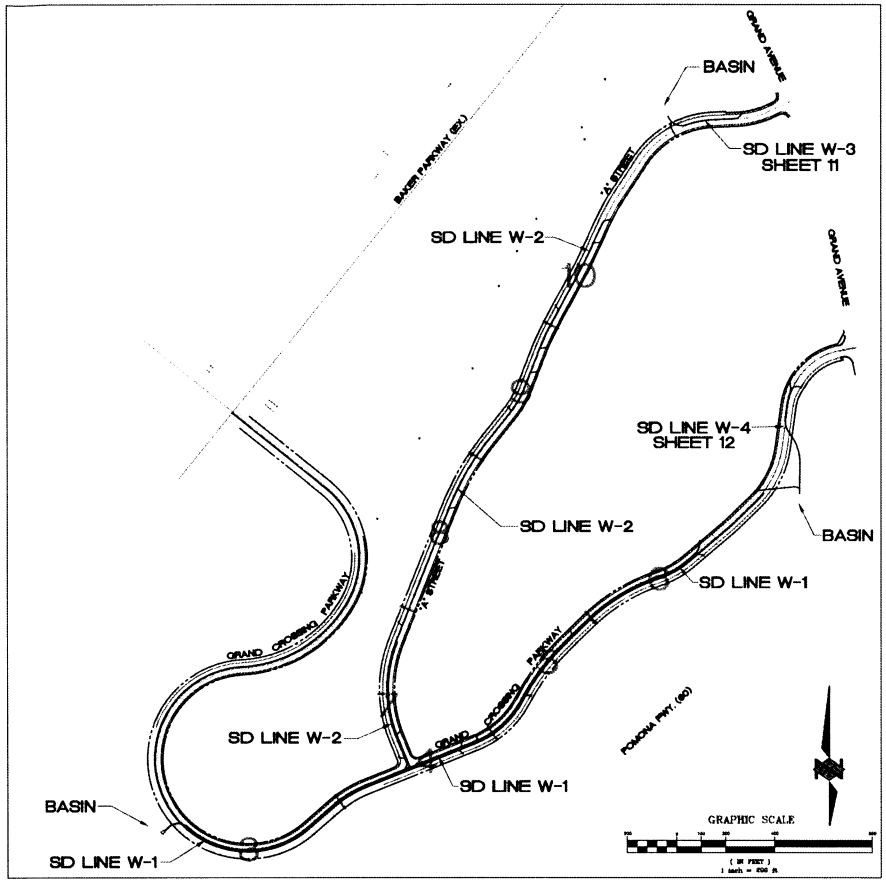
CITY OF INDUSTRY

Prepared by:
PBLA ENGINEERING, INC.
Planning • Engineering • Surveying
4790 IRVINE BLVD. STE 105 262
IRVINE, CALIF. 92620
(888) 714-9642 • (714)389-9191 FAX
STEVE LEVISEE, RCE 45926 — 7/26/16 DATE

APPROVED BY
SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY
JOHN D. BALLAS, R.C.E. 34311, AGENCY ENGINEER — DATE

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE
STORM DRAIN IMPROVEMENTS
TITLE SHEET
INDUSTRY PRIVATE DRAIN NO. 246

DATE: JUNE 2016
JOB NO. IBC-0381R — SHT. 1 OF 12
CONTRACT DRAWING 26 OF 41



INDEX MAP

SCALE: 1"=200'

B.M. NO. DG 4760 ELEV. 524.964

LOCATED @ CB @ NW Cor Bridge Over San Jose Creek
PARK S/O C/L Valley Blvd & 45th N/O C/L Grand Ave

Adopted : (1991 (Rosenthal)
Centre Guard

PLOTTED
7/25/16

NO.	DATE	REVISIONS	CK BY

CITY OF INDUSTRY

INCORPORATED JUNE 16, 1957

P.O. Box 3366, City of Industry, California 91744
Administrative Offices: 15651 E. Stafford Street
(626) 333-2211

Prepared by:

PBLA ENGINEERING, INC.
PROFESSIONAL ENGINEERS & SURVEYORS
4760 PRIME BLVD., STE. 100-242
RIVERS, CALIF. 92503
(888) 74-PBLA • (714)360-0101 FAX

STEVE LEVREE, RCE 43436 — 7/25/16 DATE

SUCCESSOR AGENCY TO THE
INDUSTRY URBAN-DEVELOPMENT AGENCY

APPROVED BY:

JOHN D. BALLAS, R.C.E. 34311, AGENCY ENGINEER — DATE

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

STORM DRAIN IMPROVEMENTS
INDEX MAP + DETAILS

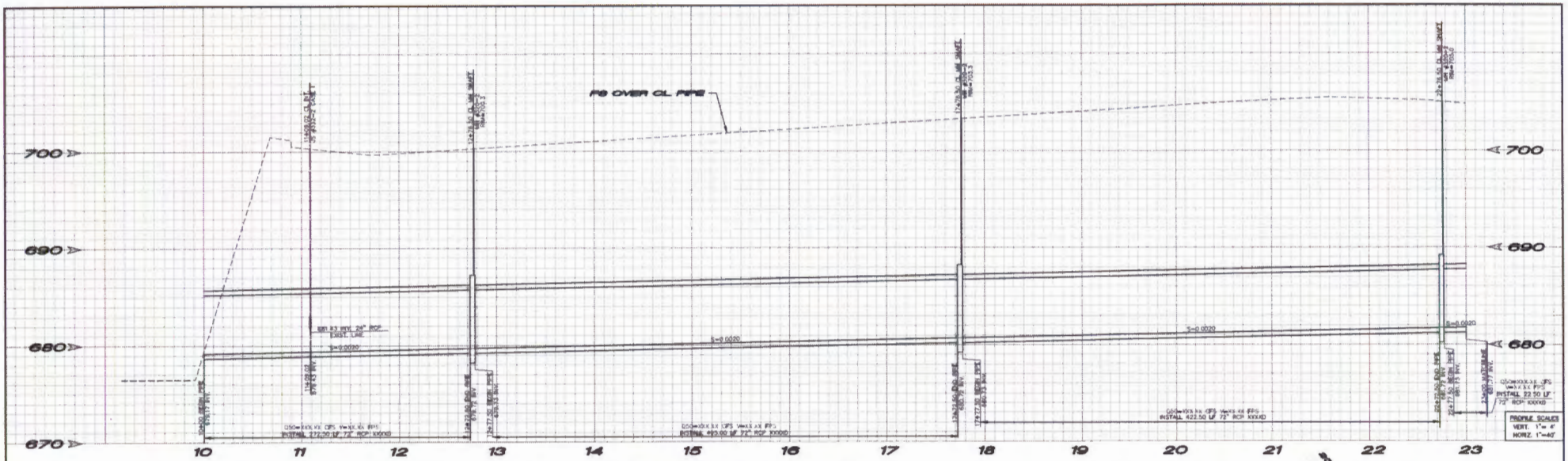
INDUSTRY PRIVATE DRAIN NO. 246

DESIGNED BY: MLL	CHECKED BY: MDL	JOB NO. IBC-0381R	SHT. 2 OF 12
DRAWN BY: CGM	DATE: JUNE 2016		

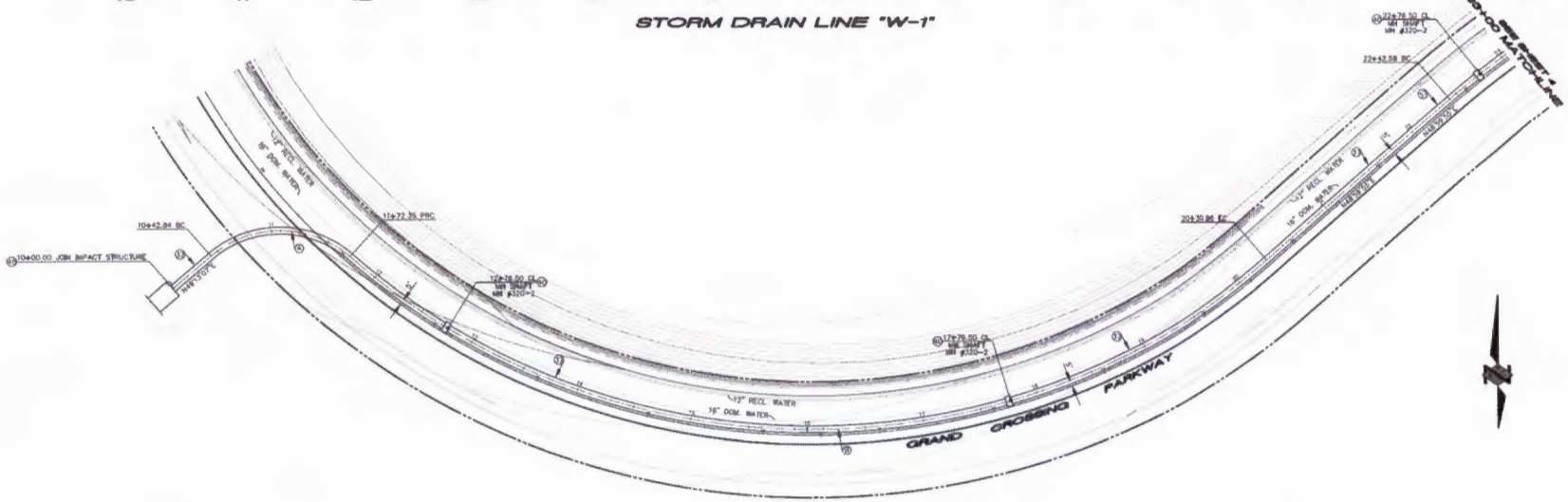
CONTRACT DRAWING 27 OF 41

CONTRACT NO.: IBC-0381R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

L:\108-2 - IBC RDC ACIBC-WEST\PBLA_SD\1-SD UL1.DWG



STORM DRAIN LINE "W-1"



CONSTRUCTION NOTES

1. INSTALL 18" RCP (SEE PROFILE FOR D-LOAD)
2. INSTALL 24" RCP (SEE PROFILE FOR D-LOAD)
3. INSTALL 30" RCP (SEE PROFILE FOR D-LOAD)
4. INSTALL 36" RCP (SEE PROFILE FOR D-LOAD)
5. INSTALL 48" RCP (SEE PROFILE FOR D-LOAD)
6. INSTALL 60" RCP (SEE PROFILE FOR D-LOAD)
7. INSTALL 72" RCP (SEE PROFILE FOR D-LOAD) 1212.5 LF
8. CONST MANHOLE #321-2 PER APWA STD. 321-2
9. CONST MANHOLE #320-2 PER APWA STD. 320-2 3 EA
10. CONST JUNCTION STRUCTURE #332-2 (CASE I) PER APWA STD. 332-2 1 EA
11. CONST MH #322-2 PER APWA STD. 322-2
12. ~~CONSTRUCT CURB OPENING CATCH BASIN PER APWA STD. 300-3~~
13. CONSTRUCT CONCRETE COLLAR PER APWA STD. 380-4
14. CONSTRUCT IMPACT ENERGY DISSIPATOR PER APWA STD. 384-3 1 EA
15. CONST. BRICK & MORTAR PLUG

N.I.C.

N.I.C. = NOT IN CONTRACT

B.M. HG DE 4760 ELEV. 604.864

LABEL 'E' CB @ NW Cor Bridge Over Sta Ana Creek
PARK S/B C/L Valley Blvd & 400' S/B C/L Grand Ave.

Adjusted : 1999 (Equation)
Datum Quad

PLOTTED 7/20/20

STORM DRAIN LINE "W-1"

CURVE DATA

CURVE	DELTA	RADIUS	LENGTH	TANGENT
A	84°41'00"	90.00'	132.94'	78.58
B	82°40'17"	585.00'	844.31'	513.37

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

NO.	DATE	REVISIONS	CH. BY

CITY OF INDUSTRY

INCORPORATED JUNE 10, 1957

P.O. Box 3366, City of Industry, California 91744
Administrative Offices 15651 E. Stafford Street
(626) 333-2211

Prepared by:

PERLA ENGINEERING, INC.
CIVIL ENGINEERS • LAND SURVEYORS
4700 WORK AVE., SUITE 100
WEST COVINA, 91791
(626) 966-8400 (626) 966-8401 FAX

STEVE LEWIS, RCE 43931 — 7/20/20 DATE

SUCCESSOR AGENCY TO THE
INDUSTRY URBAN-DEVELOPMENT AGENCY

APPROVED BY:

JOHN D. BALLAS, R.C.E. 34331, AGENCY ENGINEER — DATE

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

STORM DRAIN PLAN
LINE "W-1"
STA. 10+00 - 23+00
INDUSTRY PRIVATE DRAIN NO. 246

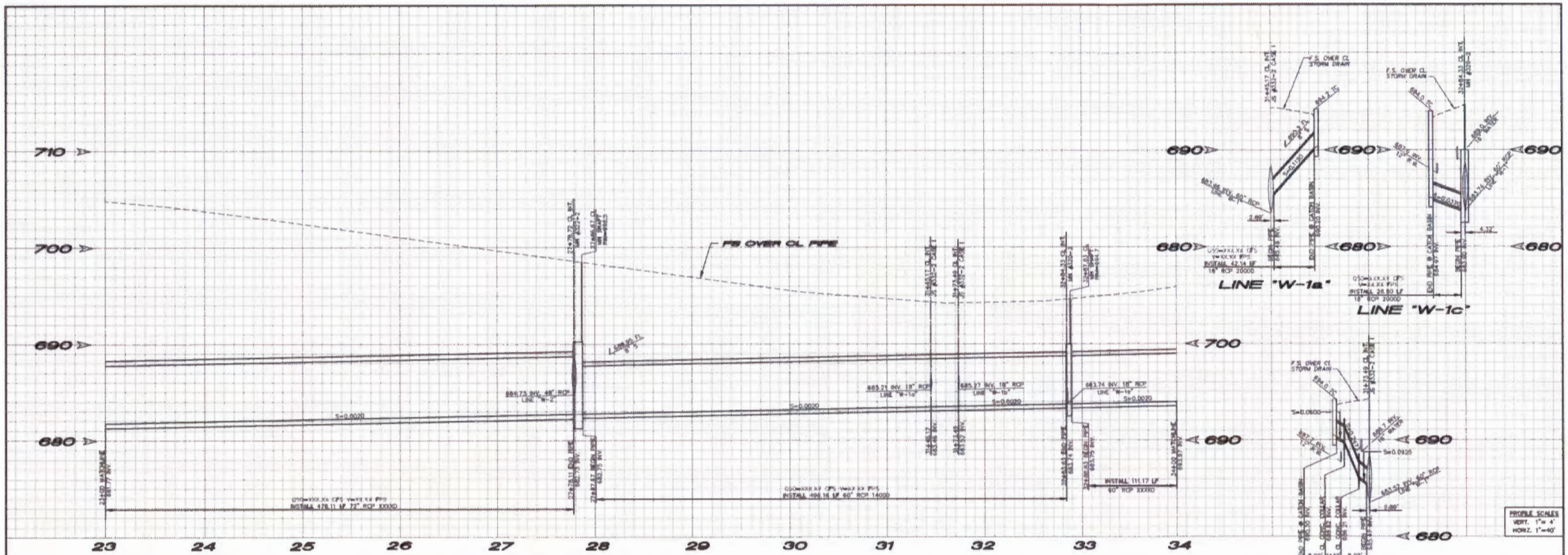
DESIGNED BY: SGL | CHECKED BY: SGL
DRAWN BY: CGM | DATE: JUNE, 2019

JOB NO. IBC-0381R | SHT. 3 OF 12

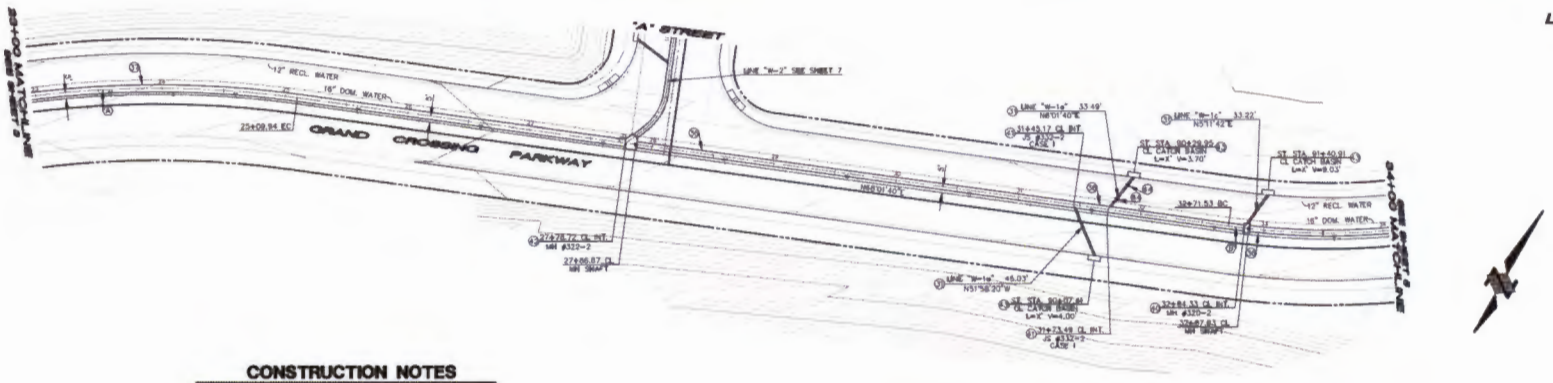
CONTRACT DRAWING 26 OF 41

CONTRACT NO.: IBC-0381R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

L:\IBC2 - IBC 020\IC-INDSTRYBLD_IDA-1.0 SHT.DWG



STORM DRAIN LINE "W-1"



CONSTRUCTION NOTES

1	INSTALL 18" RCP (SEE PROFILE FOR D=LOAD)	101.64 LF	
2	INSTALL 24" RCP (SEE PROFILE FOR D=LOAD)		
3	INSTALL 30" RCP (SEE PROFILE FOR D=LOAD)		
4	INSTALL 36" RCP (SEE PROFILE FOR D=LOAD)		
5	INSTALL 48" RCP (SEE PROFILE FOR D=LOAD)		
6	INSTALL 60" RCP (SEE PROFILE FOR D=LOAD)	607.33 LF	
7	INSTALL 72" RCP (SEE PROFILE FOR D=LOAD)	478.1 LF	
8	CONST MANHOLE #321-2 PER APWA STD. 321-2		
9	CONST MANHOLE #320-2 PER APWA STD. 320-2	1 EA	
10	CONST JUNCTION STRUCTURE #332-2 (CASE 1) PER APWA STD. 332-2	2 EA	
11	CONST MH #322-2 PER APWA STD. 322-2	1 EA	
N.I.C. 12	~~CONSTRUCT CURB DRAINS CATCH BASIN PER APWA STD. 300-3~~	~~2 EA~~	
13	CONSTRUCT CONCRETE COLLAR PER APWA STD. 380-4	2 EA	
14	CONSTRUCT IMPACT ENERGY DISSIPATOR PER APWA STD. 384-3		
15	CONST BRICK & MORTAR PLUG		

N.I.C. = NOT IN CONTRACT

B.M. NO. DG 4750 ELEV. 604.964

LADR W 60 @ NW Cor Bridge Over Sec Jane Creek
PABR S/B C/L Valley Blvd & 45th St/B C/L Grand Ave.

Adjusted : 1930 (Baseline) Control Good

STORM DRAIN LINE "W-1"
CURVE DATA

CURVE	DELTA	RADIUS	LENGTH	TANGENT
A	18°01'42"	955.00	301.36	152.54
B	40°13'17"	595.00	417.69	217.86

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

PLOTTED 7/25/13

NO.	DATE	REVISIONS	CIL BY

CITY OF INDUSTRY
INCORPORATED JUNE 14, 1957
P.O. Box 3366, City of Industry, California 91744
Administrative Offices: 15651 E. Stafford Street
(626) 333-2211

Prepared for
PELA PROFESSIONAL INC.
4160 Temple City Blvd.
Rosemead, CA. 91770
(626) 710-0930 (626)443-7411 FAX
SIDE SEWER, INC 40928
7/25/13
DATE

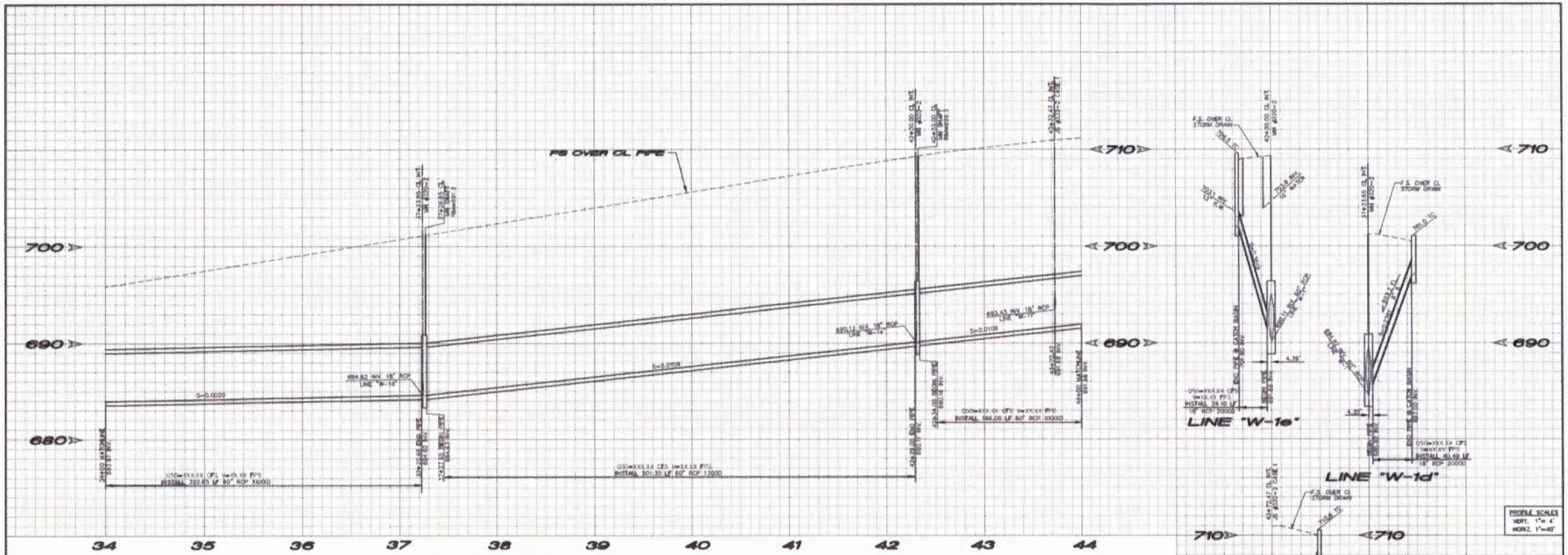
APPROVED BY:
SUCCESSOR AGENCY TO THE
INDUSTRY URBAN-DEVELOPMENT AGENCY
JOHN D. BALLAS R.C.E. 34311, AGENCY ENGINEER DATE

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE
STORM DRAIN PLAN
LINE "W-1"
STA. 23+00 - 33+00
INDUSTRY PRIVATE DRAIN NO. 246

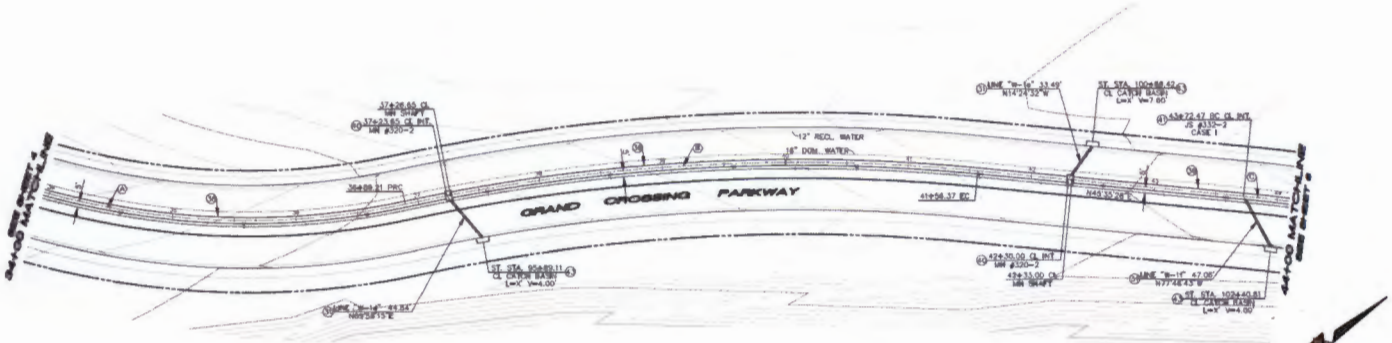
DESIGNED BY: RGL
DRAWN BY: KGM
CHECKED BY: RGL
DATE: JUNE, 2013

JOB NO. IBC-0361R
SHT. 4 OF 12
CONTRACT DRAWING 39 OF 41

CONTRACT NO.: IBC-0361R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE



STORM DRAIN LINE "W-1"



STORM DRAIN LINE "W-1"

CONSTRUCTION NOTES

1	INSTALL 18" RCP (SEE PROFILE FOR D-LOAD)	113.65 LF
2	INSTALL 24" RCP (SEE PROFILE FOR D-LOAD)	
3	INSTALL 30" RCP (SEE PROFILE FOR D-LOAD)	
4	INSTALL 36" RCP (SEE PROFILE FOR D-LOAD)	
5	INSTALL 48" RCP (SEE PROFILE FOR D-LOAD)	
6	INSTALL 60" RCP (SEE PROFILE FOR D-LOAD)	980.0 LF
7	INSTALL 72" RCP (SEE PROFILE FOR D-LOAD)	
8	CONST MANHOLE #321-2 PER APWA STD. 321-2	
9	CONST MANHOLE #320-2 PER APWA STD. 320-2	2 EA
10	CONST JUNCTION STRUCTURE #332-2 (CASE 1) PER APWA STD. 332-2	1 EA
11	CONST MH #332-2 PER APWA STD. 322-2	
12	~~CONSTRUCT CURB OPENING GATES PER APWA STD. 300-3~~	~~3 EA~~
13	CONSTRUCT CONCRETE COLLAR PER APWA STD. 380-4	
14	CONSTRUCT IMPACT ENERGY DISSIPATOR PER APWA STD. 384-3	
15	CONST BRICK & MORTAR PLUG	

N.I.C. = NOT IN CONTRACT

B.M. NO. OS 4750 ELEV. 624.984

LABEL 6" CIP @ NW Cor Bridge Over Dry Jum Creek
FROM S/W C/L Valley Blvd & 400' S/O C/L Grand Ave

Adjusted : 1988 (Baseline)
Cedar Gold

CURVE DATA

CURVE	DELTA	RADIUS	LENGTH	TANGENT
A	40°31'11"	585.00'	411.82'	214.82'
B	17°07'05"	1825.00'	481.16'	243.47'
C	25°44'10"	1205.00'	541.32'	275.31'

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

PLOTTED 7/28/10

NO.	DATE	REVISIONS	CK. BY

CITY OF INDUSTRY
INCORPORATED JUNE 16, 1957
P.O. Box 3366, City of Industry, California 91744
Administrative Offices: 15651 E. Stafford Street
(626) 333-2211

Prepared by:
PELA ENGINEERING, INC.
4700 Rosemead Blvd., Suite 200
Rosemead, Calif. 91770
(626) 312-0000 (626) 312-0001 FAX
STEVE HEMBREE, RCE 45605
7/28/10
DATE

APPROVED BY: SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY

JOHN D. BALLAS, R.C.E. 34311, AGENCY ENGINEER DATE

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

STORM DRAIN PLAN
LINE "W-1"
STA. 33+00 - 44+00
INDUSTRY PRIVATE DRAIN NO. 248

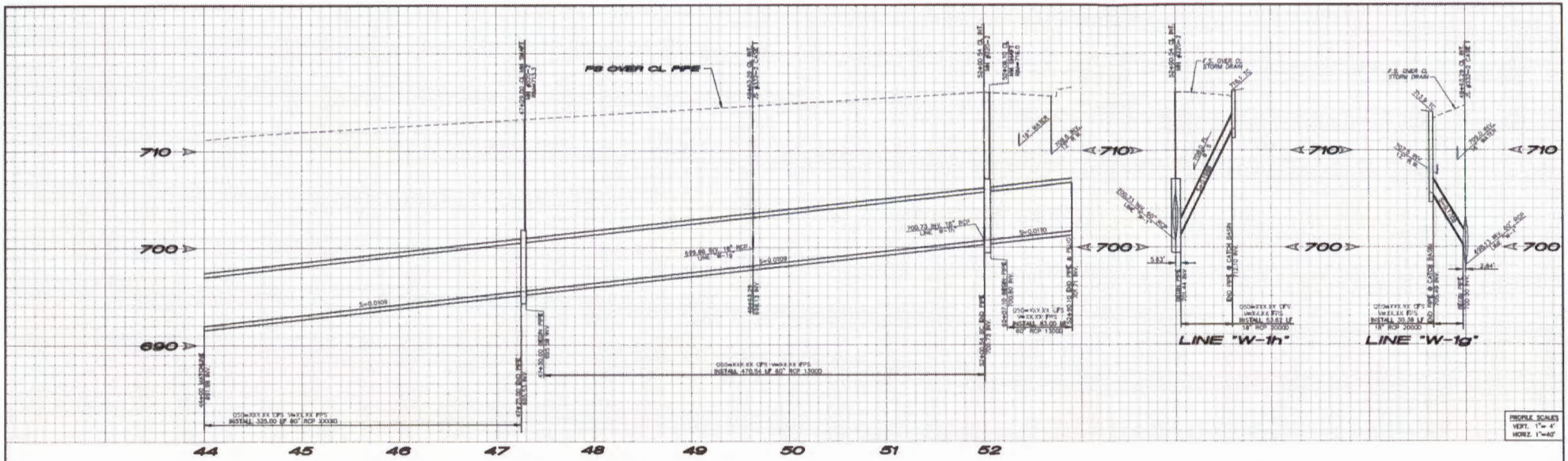
DESIGNED BY: WSL
DRAWN BY: CRM
CHECKED BY: WSL
DATE: JUNE, 2010

JOB NO. ISC-0361R

SHT. 5 OF 12

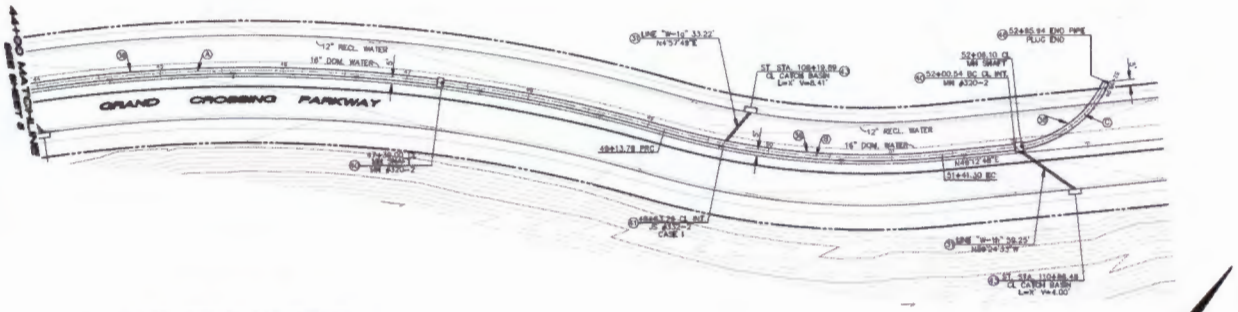
CONTRACT DRAWING 30 OF 41

CONTRACT NO.: ISC-0361R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE



STORM DRAIN LINE "W-1"

PROFILE SCALES
VERT. 1"= 4'
HORIZ. 1"=40'



CONSTRUCTION NOTES

1	INSTALL 18" RCP (SEE PROFILE FOR D-LOAD)	84.00 LF
2	INSTALL 24" RCP (SEE PROFILE FOR D-LOAD)	
3	INSTALL 30" RCP (SEE PROFILE FOR D-LOAD)	
4	INSTALL 36" RCP (SEE PROFILE FOR D-LOAD)	
5	INSTALL 48" RCP (SEE PROFILE FOR D-LOAD)	
6	INSTALL 60" RCP (SEE PROFILE FOR D-LOAD)	878.54 LF
7	INSTALL 72" RCP (SEE PROFILE FOR D-LOAD)	
8	CONST MANHOLE #321-2 PER APWA STD. 321-2	
9	CONST MANHOLE #320-2 PER APWA STD. 320-2	2 EA
10	CONST JUNCTION STRUCTURE #332-2 (CASE I) PER APWA STD. 332-2	1 EA
11	CONST MH #332-2 PER APWA STD. 332-2	
N.I.C. 12	~~CONSTRUCT CURB OPENING CATCH BASIN PER APWA STD. 300-3~~	~~2 EA~~
13	CONSTRUCT CONCRETE COLLAR PER APWA STD. 380-4	
14	CONSTRUCT IMPACT ENERGY DISSIPATOR PER APWA STD. 384-3	
15	CONST. BRICK & MORTAR PLUG	1 EA

N.I.C. = NOT IN CONTRACT

STORM DRAIN LINE "W-1"

CURVE DATA

CURVE	DELTA	RADIUS	LENGTH	TANGENT
A	20°24'00"	1500.00'	541.32'	273.71'
B	21°34'00"	300.00'	202.82'	115.18'
C	60°53'57"	80.00'	84.90'	47.73'
D				

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

B.M. HG DG 4760 ELEV. 624.984

LABF W SB @ NW Cor Bridge over San Jose Creek
PARK S/B C/L Valley Blvd & 45th N/B C/L Grand Ave.

Adopted : 1968 (Bowline)
Control Guard

PLOTTED
7/28/98

NO.	DATE	REVISIONS	CH. BY

CITY OF INDUSTRY

P.O. Box 3366, City of Industry, California 91744
Administration Offices: 15651 E. Stafford Street
(626) 333-2211

Prepared by:
PELA ENGINEERING, INC.
STEVE MICHAEL PLS 4946
7/28/98
DATE

APPROVED BY:
SUCCESSOR AGENCY TO THE
INDUSTRY URBAN-DEVELOPMENT AGENCY

JOHN D. BALLAS, R.C.E. 34311, AGENCY ENGINEER — DATE

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE
STORM DRAIN PLAN
LINE "W-1"
STA. 44+00 - 52+95.94
INDUSTRY PRIVATE DRAIN NO. 248

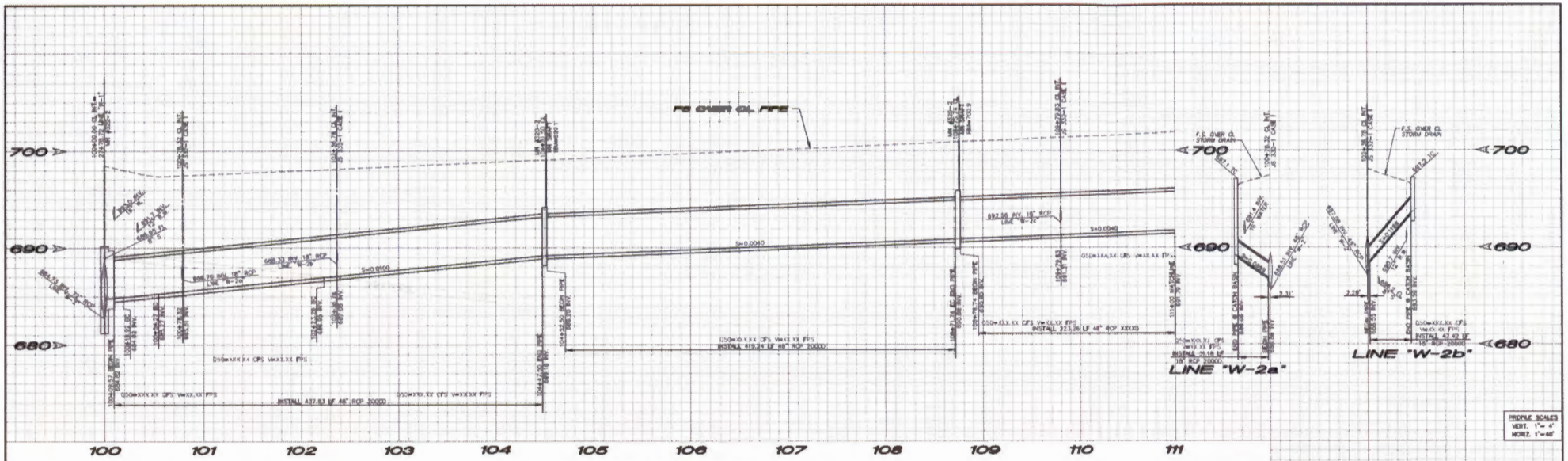
DESIGNED BY: SKL
DRAWN BY: KMM
CHECKED BY: MSL
DATE: JANE, 1998

JOB NO. IBC-0381R
SHT. 6 OF 12

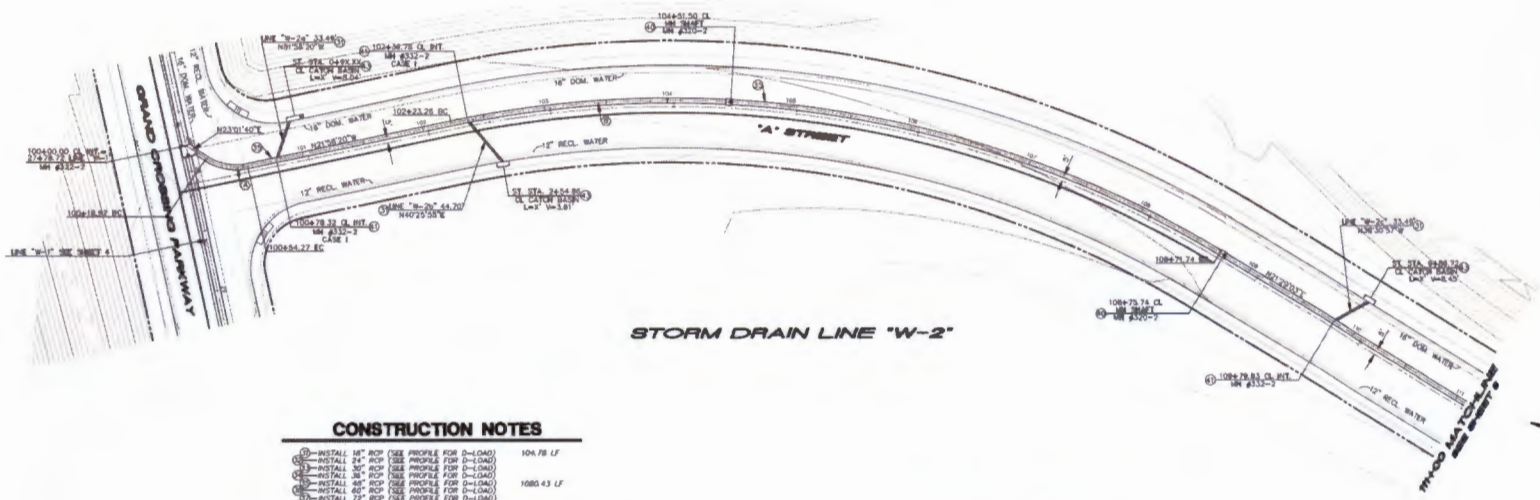
CONTRACT DRAWING 31 OF 41

CONTRACT NO.: IBC-0381R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

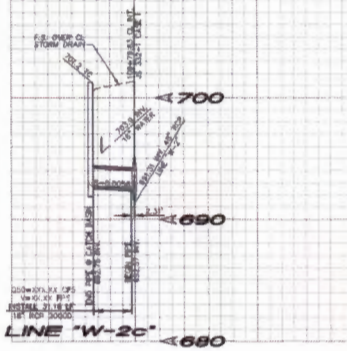
L:\IBC2 - IBC-0381 ACIBC-WEST\PELA_DRN-1 (B) (& 7 OHS)



STORM DRAIN LINE "W-2"



STORM DRAIN LINE "W-2"



CONSTRUCTION NOTES

	INSTALL 18" RCP (SEE PROFILE FOR D=LOAD)	104.78 LF
	INSTALL 24" RCP (SEE PROFILE FOR D=LOAD)	
	INSTALL 30" RCP (SEE PROFILE FOR D=LOAD)	
	INSTALL 36" RCP (SEE PROFILE FOR D=LOAD)	
	INSTALL 48" RCP (SEE PROFILE FOR D=LOAD)	1080.43 LF
	INSTALL 60" RCP (SEE PROFILE FOR D=LOAD)	
	INSTALL 72" RCP (SEE PROFILE FOR D=LOAD)	
	CONST MANHOLE #321-2 PER APWA STD. 321-2	
	CONST MANHOLE #320-2 PER APWA STD. 320-2	2 EA
	CONST JUNCTION STRUCTURE #332-2 (CASE I) PER APWA STD. 332-2	3 EA
	CONST MH #332-2 PER APWA STD. 332-2	
N.I.C.	~~CONSTRUCT CURB OPENING CATCH BASIN PER APWA STD. 300-3~~	~~3 EA~~
	CONSTRUCT CONCRETE COLLAR PER APWA STD. 380-4	
	CONSTRUCT IMPACT ENERGY DISSIPATOR PER APWA STD. 384-3	
	CONST. BRICK & MORTAR PLUG	

N.I.C. = NOT IN CONTRACT

CURVE DATA

CURVE	DELTA	RADIUS	LENGTH	TANGENT
A	41°00'00"	43.00'	30.78'	16.04'
B	43°27'33"	900.00'	646.46'	340.73'

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

B.M. NO. OC 4760 ELEV. 684.864

LADP 9' CG @ NW Cor Brea Gap Jos Jose Creek
PARK S/O C/L Valley Blvd & 45th S/O C/L Grand Ave.

Adjusted : 1929 (Sea Level) Datum Used

PLOTTED 7/29/10

NO	DATE	REVISIONS	BY

CITY OF INDUSTRY

P.O. Box 3366, City of Industry, California 91744
Administration Offices: 15651 S. Stafford Street
(626) 333-2211

Prepared by:
PALA ENGINEERING, INC.
7/29/10
SIDE LEWIS, AIA
DATE

SUCCESSOR AGENCY TO THE
INDUSTRY URBAN-DEVELOPMENT AGENCY

APPROVED BY:

JOHN D. BALLAS, R.C.E. 34311, AGENCY ENGINEER — DATE

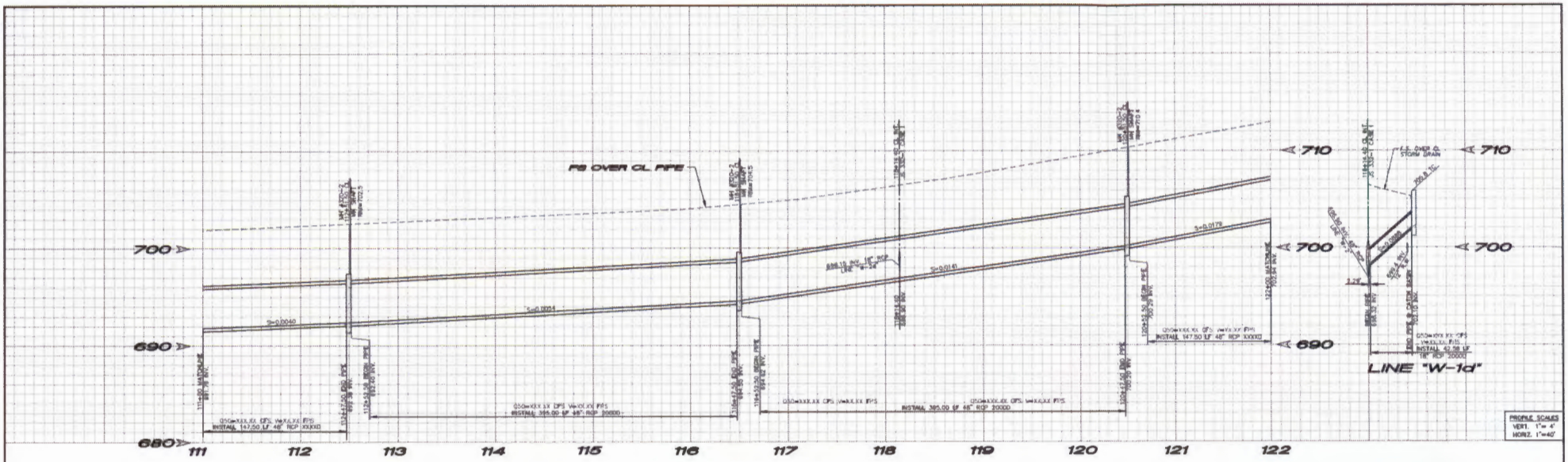
INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

STORM DRAIN PLAN
LINE "W-2"
STA. 100+00 - 111+00
INDUSTRY PRIVATE DRAIN NO. 246

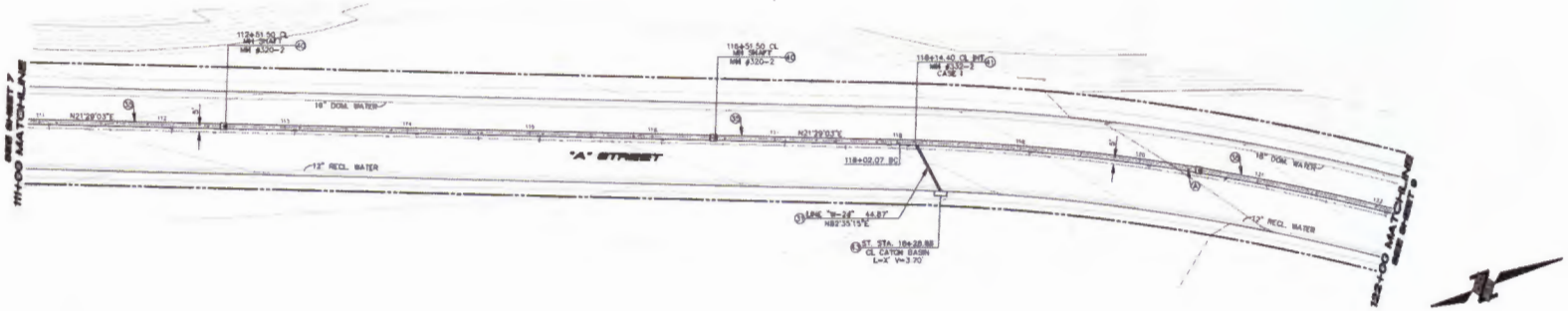
DESIGNED BY:	CHECKED BY:	JOB NO. IBC-0361R
DRAWN BY:	DATE:	SHT. 7 OF 12

CONTRACT DRAWING 32 OF 41

CONTRACT NO.: IBC-0361R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE



STORM DRAIN LINE "W-2"



CONSTRUCTION NOTES

	INSTALL 18" RCP (SEE PROFILE FOR D-LOAD)	42.58 LF
	INSTALL 24" RCP (SEE PROFILE FOR D-LOAD)	
	INSTALL 30" RCP (SEE PROFILE FOR D-LOAD)	
	INSTALL 36" RCP (SEE PROFILE FOR D-LOAD)	
	INSTALL 48" RCP (SEE PROFILE FOR D-LOAD)	1085 LF
	INSTALL 60" RCP (SEE PROFILE FOR D-LOAD)	
	INSTALL 72" RCP (SEE PROFILE FOR D-LOAD)	
	CONST MANHOLE #321-2 PER APWA STD. 321-2	
	CONST MANHOLE #320-2 PER APWA STD. 320-2	3 EA
	CONST JUNCTION STRUCTURE #332-2 (CASE 1) PER APWA STD. 332-2	1 EA
N.I.C.	CONST MH #322-2 PER APWA STD. 322-2	
	CONSTRUCT CURB OPENING CATCH BASIN PER APWA STD. 300-3	1 EA
	CONSTRUCT CONCRETE COLLAR PER APWA STD. 380-4	
	CONSTRUCT IMPACT ENERGY DISSIPATOR PER APWA STD. 384-3	
	CONST. BRICK & MORTAR PLUG	

N.I.C. = NOT IN CONTRACT

STORM DRAIN LINE "W-2"
CURVE DATA

CURVE	DELTA	RADIUS	LENGTH	TANGENT
A	17°28'51"	1800.00'	530.12'	271.50'

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

B.M. NO. 06 4760 ELEV. 605.984

LABH V 05 @ NW Cor Bridge Over Rio Juan Creek
HWY S/O C.A. Valley Blvd & HWY S/O C.A. Grand Ave.

Adjusted : NGS Bluebird Control Grid

PLOTTED 7/28/09

NO.	DATE	REVISIONS	CH. BY

CITY OF INDUSTRY
SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY

P.O. Box 3366, City of Industry, California 91744
Administrative Offices 15651 E. Stafford Street
(626) 330-2211

Prepared by:
PELA ENGINEERING, INC.
CIVIL ENGINEERS • LAND SURVEYORS
2000 BONITA BLVD., POS, CA 91767
(909) 629-8801
FAX: (909) 629-8803

7/28/09
DATE

APPROVED BY:
JOHN D. BALLAS, R.C.E. 34311, AGENCY ENGINEER — DATE

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

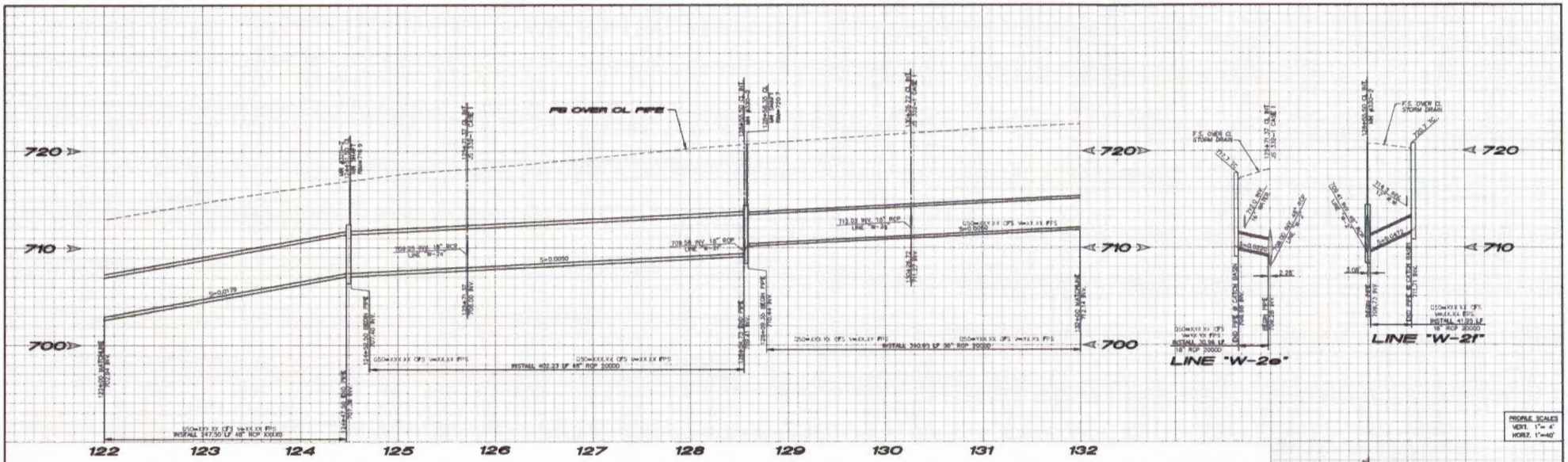
STORM DRAIN PLAN
LINE "W-2"
STA. 111+00 - 122+00
INDUSTRY PRIVATE DRAIN NO. 246

DESIGNED BY: BDL
DRAWN BY: RDM
CHECKED BY: BDL
DATE: JUNE, 2010

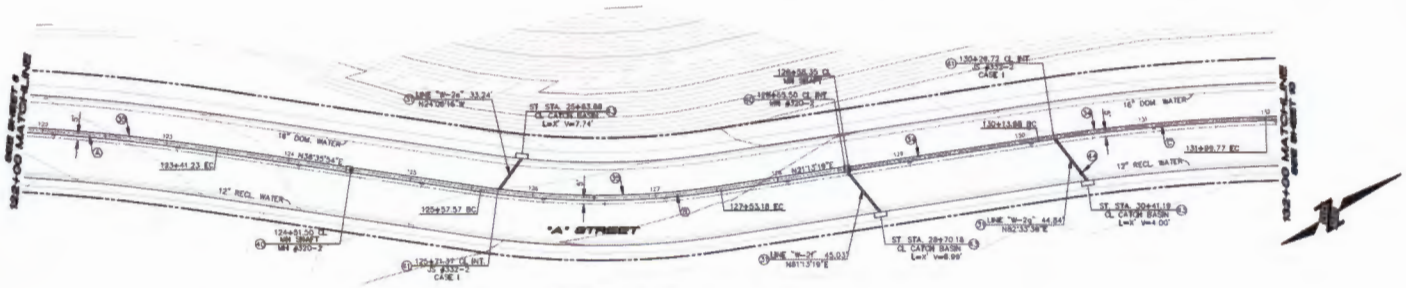
JOB NO. IBC-0381R
SHT. 8 OF 12

CONTRACT DRAWING 33 OF 41

CONTRACT NO.: IBC-0381R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE



STORM DRAIN LINE "W-2"



STORM DRAIN LINE "W-2"

CONSTRUCTION NOTES

(1)	INSTALL 18" RCP (SEE PROFILE FOR D-LOAD)	116.03 LF
(2)	INSTALL 24" RCP (SEE PROFILE FOR D-LOAD)	
(3)	INSTALL 30" RCP (SEE PROFILE FOR D-LOAD)	
(4)	INSTALL 36" RCP (SEE PROFILE FOR D-LOAD)	340.95 LF
(5)	INSTALL 48" RCP (SEE PROFILE FOR D-LOAD)	848.73 LF
(6)	INSTALL 60" RCP (SEE PROFILE FOR D-LOAD)	
(7)	INSTALL 72" RCP (SEE PROFILE FOR D-LOAD)	
(8)	CONST MANHOLE #321-2 PER APWA STD. 321-2	
(9)	CONST MANHOLE #320-2 PER APWA STD. 320-2	3 EA
(10)	CONST JUNCTION STRUCTURE #332-2 (CASE I) PER APWA STD. 332-2	2 EA
(11)	CONST MH #322-2 PER APWA STD. 322-2	
N.I.C. (12)	~~CONSTRUCT CURB OPENING CATCH BASIN PER APWA STD. 300-3~~	~~5 EA~~
(13)	CONSTRUCT CONCRETE COLLAR PER APWA STD. 380-4	1 EA
(14)	CONSTRUCT IMPACT ENERGY DISSIPATOR PER APWA STD. 384-3	
(15)	CONST. BRICK & MORTAR PLUG	
(16)		
(17)		

N.I.C. = NOT IN CONTRACT

B.M. NO. DE 4752 ELEV. 824.984

LAMP 'X' ON W SIDE OF NW CORNER BRIDGE OVER SAN JOSE CREEK PARK S/B O.R. VALLEY BLVD & 400' N/B O.R. GRAND AVE.

Adjusted: 1929 Recalibrated United Geod

CURVE DATA

CURVE	DELTA	RADIUS	LENGTH	TANGENT
A	17°29'30"	1000.00'	305.19'	171.80'
B	17°24'40"	645.00'	195.81'	98.90'
C	7°24'00"	1000.00'	129.24'	64.67'

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

PLOTTED 7/28/10

NO.	DATE	REVISIONS	CH. BY

CITY OF INDUSTRY

P.O. Box 3366, City of Industry, California 91744
Administrative Offices: 15651 E. Stafford Street
(626) 330-2211

Prepared for:

PELA ENGINEERING, INC.
4000 MACARTHUR BLVD., STE. 100-W
NEWPORT BEACH, CALIFORNIA 92660
(949) 756-0900 (949)852-0161 FAX

STEVE DEVINEE, RCE 43628 — 7/28/10 DATE

SUCCESSOR AGENCY TO THE
INDUSTRY URBAN-DEVELOPMENT AGENCY

APPROVED BY:

JOHN D. BALLAS, R.C.E. 34311, AGENCY ENGINEER — DATE

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

STORM DRAIN PLAN
LINE "W-2"
STA. 122+00 - 132+00
INDUSTRY PRIVATE DRAIN NO. 246

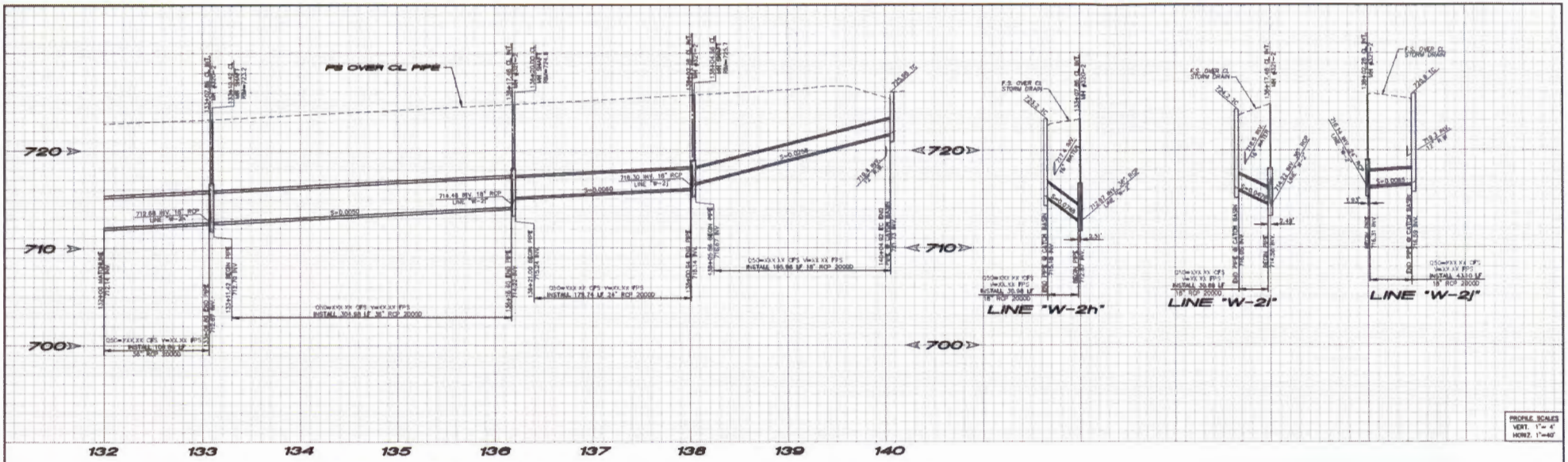
DESIGNED BY: RGL — CHECKED BY: RDL
DRAWN BY: CCM — DATE: APRIL 2010

JOB NO. IBC-0381R — SHT. 9 OF 12

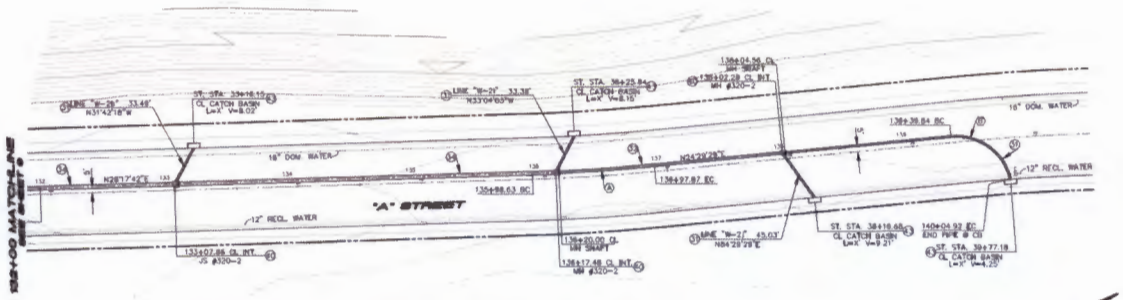
CONTRACT DRAWING 34 OF 41

CONTRACT NO.: IBC-0381R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

L:\IBC-2 - IBC 0381 ACDBC-WEST\PW-LA_STD-1.DG (A.T.) (2010)



STORM DRAIN LINE "W-2"



STORM DRAIN LINE "W-2"

CONSTRUCTION NOTES

1	INSTALL 18" RCP (SEE PROFILE FOR D=LOAD)	301.04 LF
2	INSTALL 24" RCP (SEE PROFILE FOR D=LOAD)	176.74 LF
3	INSTALL 30" RCP (SEE PROFILE FOR D=LOAD)	
4	INSTALL 36" RCP (SEE PROFILE FOR D=LOAD)	411.78 LF
5	INSTALL 48" RCP (SEE PROFILE FOR D=LOAD)	
6	INSTALL 60" RCP (SEE PROFILE FOR D=LOAD)	
7	INSTALL 72" RCP (SEE PROFILE FOR D=LOAD)	
8	CONST MANHOLE #321-2 PER APWA STD. 321-2	2 EA
9	CONST MANHOLE #320-2 PER APWA STD. 320-2	1 EA
10	CONST JUNCTION STRUCTURE #332-2 (CASE I) PER APWA STD. 332-2	
N.I.C.	CONST MH #321-2 PER APWA STD. 321-2	
N.I.C.	~~CONSTRUCT CURB OPENING CATCH BASIN PER APWA STD. 380-3~~	~~4 EA~~
11	CONSTRUCT CONCRETE COLLAR PER APWA STD. 380-4	
12	CONSTRUCT IMPACT ENERGY DISSIPATOR PER APWA STD. 384-3	
13	CONST. BRICK & MORTAR PLUG	

N.I.C. = NOT IN CONTRACT

CURVE DATA

CURVE	DELTA	RADIUS	LENGTH	TANGENT
A	128°13'11"	1456.00'	98.72'	49.54'
B	82°53'11"	45.00'	65.09'	39.77'

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

B.M. NO. DE 4752 ELEV. 604.864

LEGEND IN CO IN NW Cor Bridge Over Rim Jose Creek
PORTS S/O C/L Valley Blvd & 400' S/O C/L Grand Ave.

Adjusted : 1988 (Equation)
Datum Used

PLOTTED 7/28/98

NO.	DATE	REVISIONS	CK. BY

CITY OF INDUSTRY
INCORPORATED JUNE 16, 1957
P.O. Box 3389, City of Industry, California 91744
Administrative Offices 15651 E. Stafford Street
(626) 330-2211

Prepared by:
PELA ENGINEERING, INC.
CIVIL ENGINEERS • LAND SURVEYORS
1000 Pomona Blvd., Suite 100-200
Walnut, Calif. 91789
(909) 594-8400 (909)594-8401 Fax
STEVE LEVREE, RCE 45628 — 7/28/98 DATE

SUCCESSOR AGENCY TO THE
INDUSTRY URBAN-DEVELOPMENT AGENCY

APPROVED BY:

JOHN D. BALLAS, R.C.E. 34311, AGENCY ENGINEER — DATE

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

STORM DRAIN PLAN
LINE "W-2"
STA. 132+00 - 140+04.92
INDUSTRY PRIVATE DRAIN NO. 246

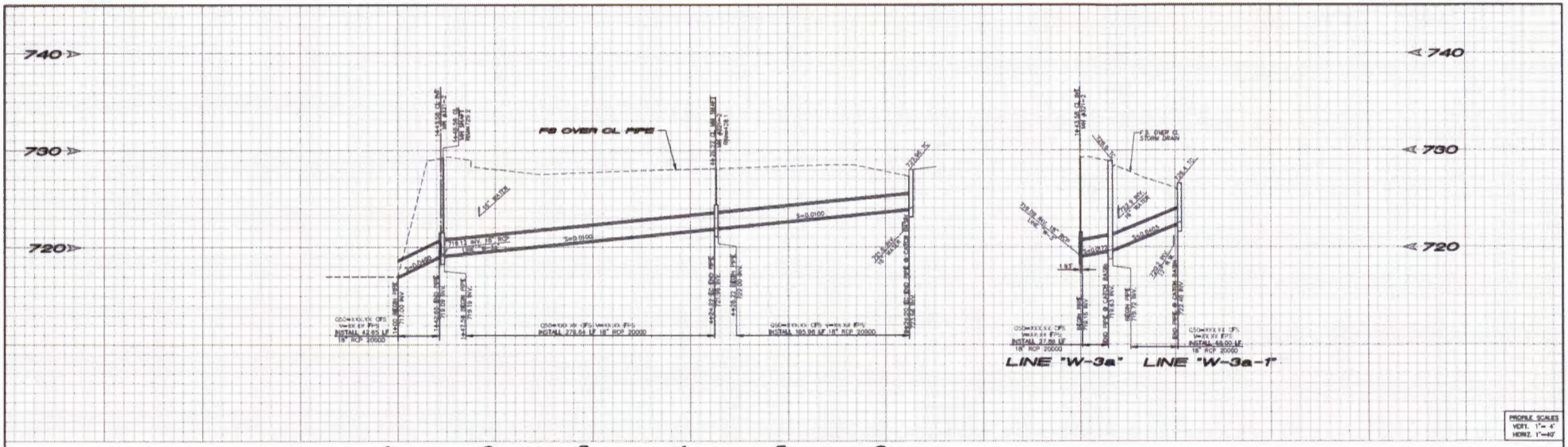
DESIGNED BY: SKL — CHECKED BY: SKL
DRAWN BY: CDM — DATE: JUNE, 1998

JOB NO. RIC-0361R — SHT. 10 OF 12

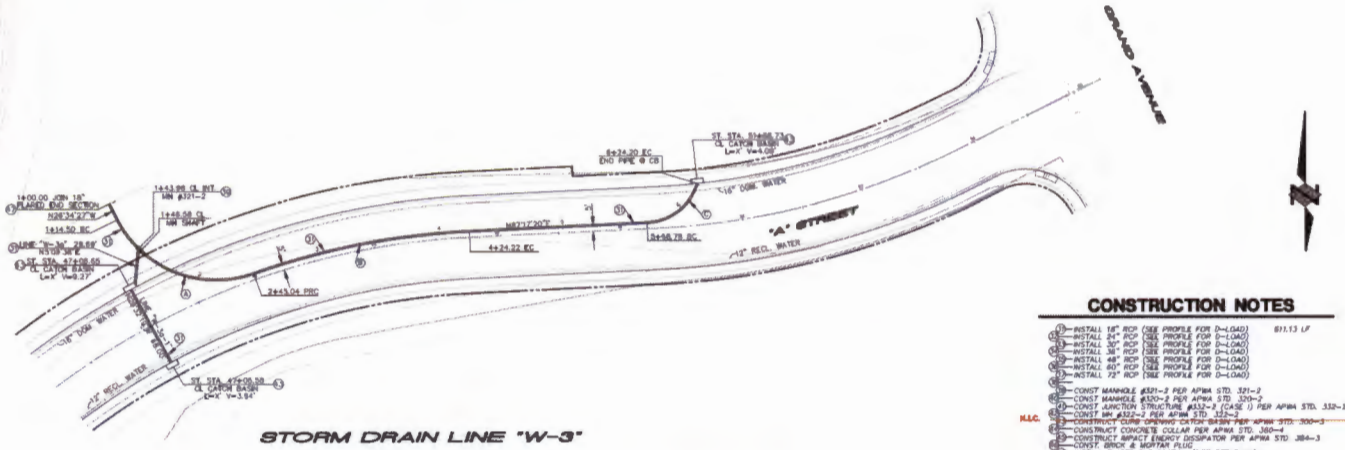
CONTRACT DRAWING 30 OF 41

CONTRACT NO.: RIC-0361R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

L:\98-2 - RIC 98 AORC-WESTPHALI_ROH-2 RIC 98 2.DWG



STORM DRAIN LINE "W-3"



STORM DRAIN LINE "W-3"

CONSTRUCTION NOTES

1	INSTALL 18" RCP (SEE PROFILE FOR D-LOAD)	811.13 LF
2	INSTALL 24" RCP (SEE PROFILE FOR D-LOAD)	
3	INSTALL 30" RCP (SEE PROFILE FOR D-LOAD)	
4	INSTALL 36" RCP (SEE PROFILE FOR D-LOAD)	
5	INSTALL 48" RCP (SEE PROFILE FOR D-LOAD)	
6	INSTALL 60" RCP (SEE PROFILE FOR D-LOAD)	
7	INSTALL 72" RCP (SEE PROFILE FOR D-LOAD)	
8	CONST MANHOLE #321-2 PER APWA STD. 321-2	2 EA
9	CONST MANHOLE #320-2 PER APWA STD. 320-2	
10	CONST JUNCTION STRUCTURE #332-2 (CASE 1) PER APWA STD. 332-2	
11	CONST MH #312-2 PER APWA STD. 312-2	
N.I.C. 12	~~CONSTRUCT CURB OPENING CATCH BASIN PER APWA STD. 300-3~~	~~3 EA~~
13	CONSTRUCT CONCRETE COLLAR PER APWA STD. 380-4	
14	CONSTRUCT IMPACT ENERGY DISSIPATOR PER APWA STD. 384-3	
15	CONST. BRICK & MORTAR PLUG	
16	INSTALL FLARED END SECTION (SIZE PER PLAN)	1 EA

N.I.C. = NOT IN CONTRACT

CURVE DATA

CURVE	DELTA	RADIUS	LENGTH	TANGENT
A	83°30'31"	84.00'	130.54'	79.77'
B	18°45'08"	408.00'	178.18'	90.15'
C	70°41'49"	48.00'	59.22'	34.84'

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

CONTRACT NO.: IBC-0361R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

B.M. NG DG 4750 ELEV. 695.864

LABR 8' CB & 8' NE Cor Bridge Over Rio Hondo Creek
PARK S/O C.L. Valley Blvd & 400' S/O C.L. Grand Ave.

Adjusted : 1929 (Baseline) Central Band

PLOTTED 7/29/10

NO.	DATE	REVISIONS	CK. BY

CITY OF INDUSTRY
INCORPORATED JUNE 15, 1957
P.O. Box 3366, City of Industry, California 91744
Administrative Offices: 15651 E. Stafford Street
(626) 333-2211

Prepared by:
PHILA ENGINEERING, INC.
CIVIL ENGINEERS • LAND SURVEYORS
PHONE (626) 912-8131 FAX
RICHARD LEMMER, RCE 43631 — 7/29/10 DATE

SUCCESSOR AGENCY TO THE
INDUSTRY URBAN-DEVELOPMENT AGENCY

APPROVED BY:

JOHN D. BALLAS, R.C.E. 34311, AGENCY ENGINEER — DATE

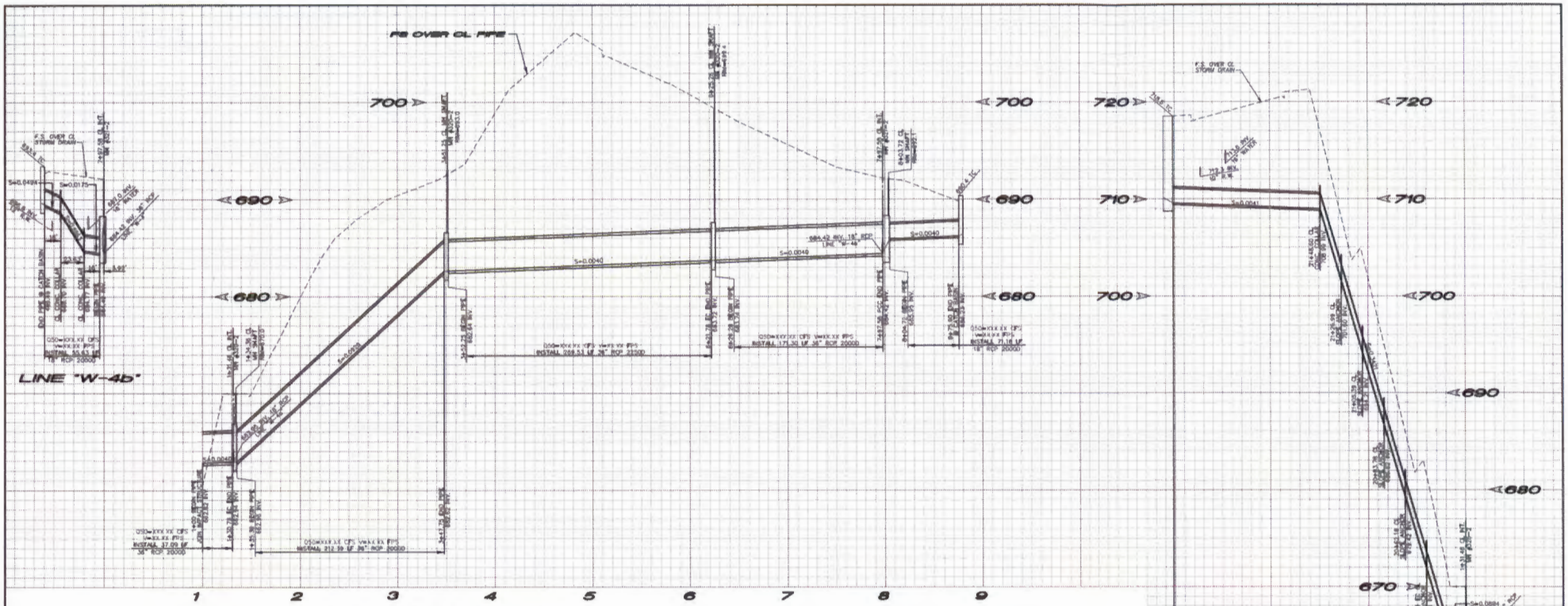
INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

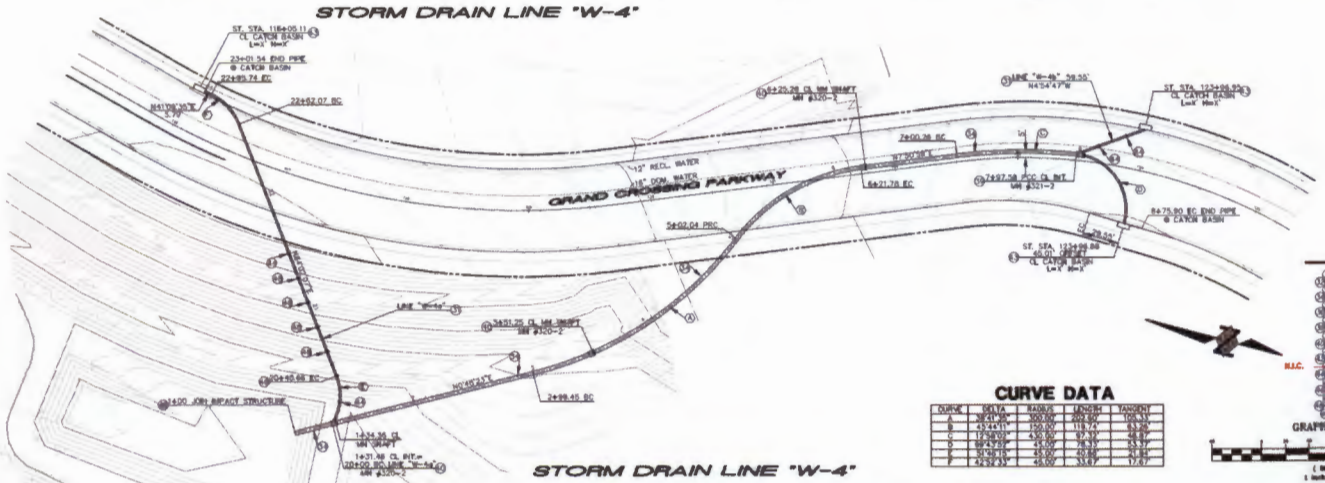
STORM DRAIN PLAN
LINE "W-3"
STA. 1+00 - 6+34.20
INDUSTRY PRIVATE DRAIN NO. 246

DESIGNED BY: RLL — CHECKED BY: RDL
DRAWN BY: CGM — CHECKED BY: JDB
DATE: APRIL 2010

JOB NO. IBC-0361R — SHT. 11 OF 12

CONTRACT DRAWING 30 OF 41





CONSTRUCTION NOTES

1	INSTALL 18" RCP (SEE PROFILE FOR D=L.O.A.D)	425.38 LF
2	INSTALL 24" RCP (SEE PROFILE FOR D=L.O.A.D)	
3	INSTALL 30" RCP (SEE PROFILE FOR D=L.O.A.D)	
4	INSTALL 36" RCP (SEE PROFILE FOR D=L.O.A.D)	680.31 LF
5	INSTALL 48" RCP (SEE PROFILE FOR D=L.O.A.D)	
6	INSTALL 60" RCP (SEE PROFILE FOR D=L.O.A.D)	
7	INSTALL 72" RCP (SEE PROFILE FOR D=L.O.A.D)	
8	CONST MANHOLE #321-2 PER APWA STD. 321-2	1 EA
9	CONST MANHOLE #320-2 PER APWA STD. 320-2	3 EA
10	CONST JUNCTION STRUCTURE #332-2 (CASE 1) PER APWA STD. 332-2	
11	CONST MH #322-2 PER APWA STD. 322-2	
N.I.C.	~~CONSTRUCT CURB OPENING CATCH BASIN PER APWA STD. 300-3~~	~~3 EA~~
12	CONSTRUCT CONCRETE COLLAR PER APWA STD. 380-4	4 EA
13	CONSTRUCT IMPACT ENERGY DISSIPATOR PER APWA STD. 384-3	1 EA
14	CONST BRICK & MORTAR PLUG	
15	INSTALL FLARED END SECTION (SIZE PER PLAN)	
16	CONST. CONCRETE PIPE SLOPE ANCHOR PER APWA STD. 221-2	6 EA

N.I.C. = NOT IN CONTRACT

CURVE DATA

CURVE	DELTA	RADIUS	LENGTH	TANGENT
A	38°43'30"	300.00'	202.82'	105.33'
B	43°44'11"	150.00'	118.74'	63.26'
C	12°34'09"	430.00'	97.73'	48.87'
D	59°43'22"	45.00'	46.91'	25.87'
E	51°46'15"	45.00'	40.66'	21.86'
F	43°27'33"	45.00'	33.67'	17.67'

GRAPHIC SCALE

1 inch = 40 ft.

CONTRACT NO.: IBC-0361R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

SUCCESSOR AGENCY TO THE
INDUSTRY URBAN-DEVELOPMENT AGENCY

APPROVED BY: JOHN D. BALLAS, R.C.E. 34311, AGENCY ENGINEER — DATE

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

STORM DRAIN PLAN
LINE "W-4"
STA. 1+00 - 16+04.92
INDUSTRY PRIVATE DRAIN NO. 246

JOB NO. IBC-0361R — SHT. 12 OF 12

CONTRACT DRAWING 37 OF 41

B.M. NG DE 4760 ELEV. 684.864

LEAST W GS @ NW Cor Bridge over San Jose Creek
PNBK S/O G.A. Valley Blvd @ NW S/O G.A. Grand Ave.

Adjusted : 1988 (Rounded)
Central Quad

PLOTTED 7/29/10

CITY OF INDUSTRY
INCORPORATED JUNE 15, 1957
P.O. Box 3366, City of Industry, California 91744
Administrative Offices 15651 E. Stafford Street
(626) 333-2211

Prepared by: PBLA ENGINEERING, INC.
4165 East Thousand Oaks Boulevard, Suite 350
Westlake Village, CA 91362
(805) 496-0940 (805) 496-0941 FAX
STEVE MOHRIG, RCE 45600 — 7/29/10 DATE

DESIGNED BY: BBL — CHECKED BY: BBL
DRAWN BY: KHM — DATE: APRIL 2010

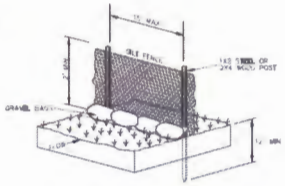
L:\IBC-3 - IBC 0361 IndBiz-WestPhA_Grd\3-2 SD \w-4.dwg

STORM WATER POLLUTION PREVENTION PLAN
FOR
INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

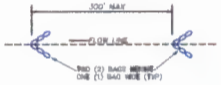
STORM WATER POLLUTION PREVENTION PLAN (SWPPP)/ WET WEATHER EROSION CONTROL (WWECP) GENERAL NOTES:

1. IN CASE OF EMERGENCY, CALL JAMES GRUB AT 626-968-6300.
2. A CONTRACTOR FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON (NOVEMBER 1 TO APRIL 15). NECESSARY MATERIALS SHALL BE AVAILABLE ON-SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF EMERGENCY DEVICES WHEN RAIN IS IMMINENT.
3. EROSION CONTROL DEVICES SHOWN ON THIS PLAN MAY BE REMOVED WHEN APPROVED BY THE BUILDING OFFICIAL IF THE GRADING OPERATION WAS PROGRESSED TO THE POINT WHERE THEY ARE NO LONGER REQUIRED.
4. ENERGY ABSORBERS LOCATED AT THE TOP OF SLOPE AT THE SITE PERIMETER MUST DRAIN AWAY FROM THE TOP OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY. USE LOOSE SOILS AND DEBRIS THAT MAY CREATE A POTENTIAL HAZARD TO OFF-SITE PROPERTY SHALL BE STABILIZED OR REMOVED FROM THE SITE ON A DAILY BASIS.
5. ALL SILT AND DEBRIS SHALL BE REMOVED FROM ALL DEVICES WITHIN 24 HOURS AFTER EACH RAINSTORM AND BE DISPOSED OF APPROPRIATELY.
6. A GUARD SHALL BE POSTED ON THE SITE WHENEVER THE DEPTH OF WATER IS GREATER THAN 1 FOOT. THE GUARD SHALL BE TRAINED TO OPERATE THE DEVICES AND SHALL BE ON SITE WITHIN 24 HOURS AFTER EACH RAINSTORM. DEVICES AND DRAINAGE OF ALL BASINS AND DRAINAGE DEVICES MUST SHALL WITH THE APPROPRIATE DAY FOR DEWATERING OPERATIONS.
7. THE PLACEMENT OF ADDITIONAL DEVICES TO REDUCE EROSION DAMAGE AND CONTROL POLLUTANTS WITHIN THE SITE IS SUBJECT TO THE DIVERSION OF THE FIELD ENGINEER. ADDITIONAL DEVICES AS NEEDED SHALL BE INSTALLED TO RETAIN SEDIMENTS AND OTHER POLLUTANTS ON SITE.
8. GRADING PERIOD MAY NOT BE REMOVED OR MADE INOPERABLE BETWEEN NOVEMBER 1 AND APRIL 15 OF THE FOLLOWING YEAR WITHOUT THE APPROVAL OF THE BUILDING OFFICIAL.
9. STORM WATER POLLUTION AND EROSION CONTROL DEVICES ARE TO BE MODIFIED, AS NEEDED, AS THE PROJECT PROGRESSES. THE REVISION AND PLACEMENT OF THESE DEVICES IS THE RESPONSIBILITY OF THE FIELD ENGINEER. PLANS REPRESENTING CHANGES MUST BE SUBMITTED FOR APPROVAL WITHIN 24 HOURS OF FIELD ALTERATIONS.
10. ALL DEVICES SHALL BE MAINTAINED IN GOOD WORKING ORDER TO PREVENT UNCONTROLLED RUNOFF FROM THE PROJECT SITE AT ALL TIMES.
11. DIVERTED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON-SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA STREET FLOW, GUTTERS, AREA DRAINS, NATURAL DRAINAGE COURSES, OR WIND.
12. STOCKPILES OF EARTH AND OTHER CONSTRUCTION-RELATED MATERIALS MUST BE PROTECTED FROM WIND TRANSPORTED FROM THE SITE VIA FORCES OF WIND OR WATER.
13. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
14. HAZARDOUS WASTES OR CONTAMINATED SOIL MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY COMMON DRAINAGE SYSTEM. PROPERLY DISPOSE OF WASTE TO RETAIN CONCRETE WASTES ON-SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
15. DEVELOPERS/CONTRACTORS ARE RESPONSIBLE TO INSPECT THAT ALL EROSION CONTROL DEVICES AND BMPS ARE INSTALLED AND FUNCTIONING PROPERLY IF RAINING IS A WORKING CHANCE OF 0.25 INCHES OR GREATER OF PRECIPITATION, AND MEET ACTUAL INSPECTION. A CONSTRUCTION SITE INSPECTION CHECKLIST AND INSPECTION LOG SHALL BE MAINTAINED AT THE PROJECT SITE AT ALL TIMES AND AVAILABLE FOR REVIEW BY THE BUILDING OFFICIAL COPIES OF THE SELF-INSPECTION CHECK LIST AND INSPECTION LOGS ARE AVAILABLE UPON REQUEST.
16. TRASH AND CONSTRUCTION-RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPOSAL BY WIND.
17. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO PREVENT SEDIMENTS FROM HAVE DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE CLEANED UP IMMEDIATELY AND MAY NOT BE FLUSHED OR SWEPT INTO ANY STORM DRAIN OR WATERWAY.
18. ALL PARKING AREAS AND STREETS MUST BE CLEANED OF VEGETATION MUST BE STABILIZED SO AS TO PREVENT EROSION BY WIND AND WATER.
19. AS THE ARCHITECT/ENGINEER OF RECORD, I HAVE OBTAINED APPROPRIATE BMPS TO IMMEDIATELY MINIMIZE THE NEGATIVE IMPACTS OF THE PROJECT'S CONSTRUCTION ACTIVITIES ON STORM WATER QUALITY. THE PROJECT OWNER AND CONTRACTOR ARE AWARE THAT THE SELECTED BMPS MUST BE INSTALLED, MONITORED, AND MAINTAINED TO ENSURE THEIR EFFECTIVENESS. THE BMPS NOT SELECTED FOR IMPLEMENTATION ARE REDUNDANT OR DEEMED NOT APPLICABLE TO THE PROPOSED CONSTRUCTION ACTIVITY.

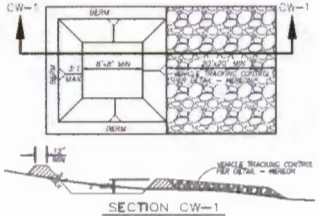
CSO SIGNATURE DATE



SE-1 SILT FENCE DETAIL



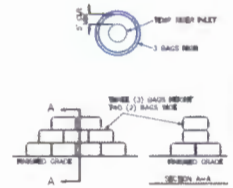
SE-5 GRAVEL BAG CHECK DAM DETAIL



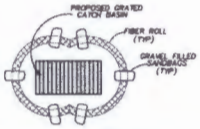
SECTION CW-1
NOT TO SCALE

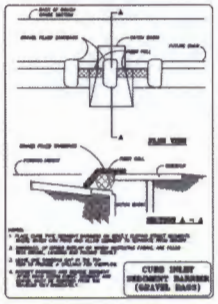
1. CONTRACTOR TO PLACE WASHOUT LOCATIONS IN COORDINATION WITH THE CITY INSPECTOR.
2. THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ONSITE.
3. EXCAVATED MATERIAL SHALL BE UTILIZED IN PERIMETER BERM CONSTRUCTION.

WM-8 CONCRETE WASHOUT DETAIL
NOT TO SCALE



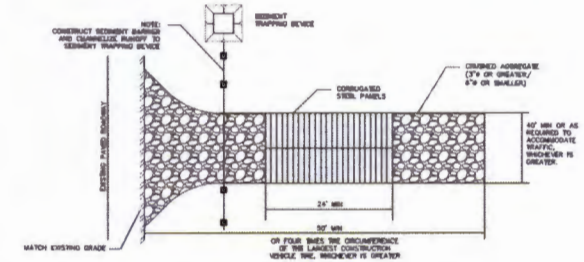
SE-8 GRAVEL BAG DETAIL FOR RISER INLETS



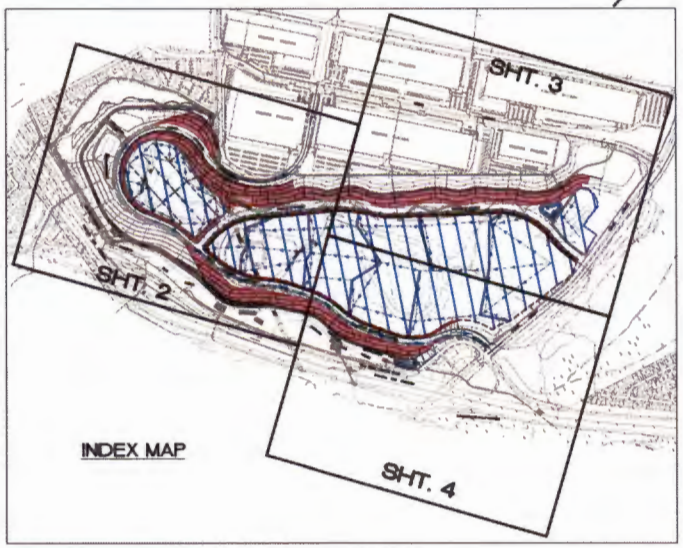


EROSION CONTROL DETAIL
FOR CURB INLET

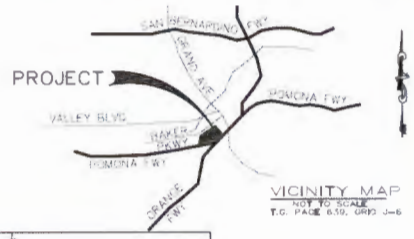
SE-1 STORM DRAIN INLET PROTECTION



TC-1 VEHICLE TRACKING CONTROL
STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



INDEX MAP



VICINITY MAP
NOT TO SCALE
T.G. PAGE 639, GRID J-6

BMP LEGEND

- SE-1 SILT FENCE
- SE-3 SEDIMENT BASIN
- SE-4 SEDIMENT TRAP
- SE-5 GRAVEL BAG CHECK DAM
- SE-6 LINEAR SLOPE EROSION PROTECTION
- SE-8 GRAVEL BAG BARRIER
- SE-7 STREET SWEEPING AND VACUUMING
- SE-10 STORM DRAIN INLET PROTECTION
- SD-10 HYDRAULIC MULCH
- SD-12 HYDROSEEDING
- WM-1 MATERIAL DELIVERY & STORAGE
- WM-2 MATERIAL USE
- WM-3 STOCKPILE MANAGEMENT (BLANKET)
- WM-4 SPILL PREVENTION & CONTROL
- WM-5 SOLID WASTE MANAGEMENT
- WM-6 CONCRETE WASTE MANAGEMENT (BLANKET)
- WM-8 SANITARY/SEPTIC WASTE MANAGEMENT
- WM-9 VEHICLE AND EQUIPMENT FUELING
- WM-10 VEHICLE AND EQUIPMENT MAINTENANCE
- TC-1 STABILIZED CONSTRUCTION ENTRANCE/EXIT
- EC-4 WIND EROSION CONTROL (BLANKET)
- EC-7 WATER CONSERVATION PRACTICES (BLANKET)
- NS-8 PAVING AND GRINDING OPERATIONS (BLANKET)

INDEX OF SHEETS

SHEET	DESCRIPTION
1	TITLE SHEET
2	STORM WATER POLLUTION PREVENTION PLAN
3	STORM WATER POLLUTION PREVENTION PLAN
4	STORM WATER POLLUTION PREVENTION PLAN

SYMBOL LEGEND

- EXISTING INLET PROTECTION SD-10
- RISER PROTECTION SD-10
- SILT FENCE SE-1
- GRAVEL BAG CHECK DAM SE-5
- FIBER ROLL SE-5
- SEDIMENT BASIN SE-3
- HYDRAULIC MULCH SD-10 AND FIBER ROLLS SE-5
- PROPOSED STORM DRAIN
- HYDROSEEDING SD-12

Fiber rolls should be installed

Fiber rolls may come prefabricated, containing polypropylene (PAM), a flocculating agent within the roll. Fiber rolls impregnated with PAM provide additional sediment removal capabilities and should be used in areas with fine clayey or silty soils to provide additional sediment removal capabilities. Monitoring may be required for these installations.

Fiber rolls are made from wood fiber excelsior, straw, or a similar agricultural material bound into a tight tubular roll by netting.

Typical fiber rolls vary in diameter from 9 in. to 20 in. Larger diameter rolls are available on roll.

Locate fiber rolls on level contours spaced as follows:

Slope gradients of 4:1 (25 %) or flatter: Fiber rolls should be placed at a maximum interval of 30 ft.

Slope gradients between 4:1 and 2:1 (50 %): Fiber rolls should be placed at a maximum interval of 15 ft. (a closer spacing is more effective)

Slope gradients 2:1 (50 %) or greater: Fiber rolls should be placed at a maximum interval of 10 ft. (a closer spacing is more effective)

Prepare the slope before beginning installation

Dig small trenches across the slope on the contour. The trench depth should be 3 to 1/2 of the diameter of the roll, and the width should equal the roll diameter, in order to provide area to backfill the trench.

It is critical that rolls are installed perpendicular to water movement, and parallel to the slope contour.

Start building trenches and installing rolls from the bottom of the slope and work up.

It is recommended that pilot holes be dribble through the fiber roll, use a straight bar to drive holes through the roll and into the soil for the anchor stakes.

Place the ends of the fiber roll up slope to prevent runoff from going around the roll

Stagger fiber rolls along the trench

Drive stakes at the end of each fiber roll and spaced 4 in maximum on center

Use wood stakes with a nominal dimensions of 0.75 by 0.75 in. and minimum length of 24 in.

If more than one fiber roll is placed in a row, the rolls should be overlapped, not abutted.

See typical fiber roll installation details at the end of this fact sheet

SE-5 LINEAR SLOPE EROSION PROTECTION

NOTE: WHILE THE PLANS ONLY SHOW FIBER ROLLS AT THE TOPS OF THE SLOPES, THEY ARE TO BE INSTALLED ON ALL THE PERMANENT TERRACED SLOPES PER THE INTERVALS SHOWN ON THE SE-5 FACT SHEET. THE 47 ACRES OF PERMANENT TERRACED SLOPES CAN BE EASILY FOUND ON THESE WATER POLLUTION CONTROL DRAWINGS AS THEY ARE THE SAME SLOPES SHOWN TO GET THE HYDRAULIC MULCH, SO ALL 47 ACRES OF PERMANENT TERRACED SLOPES WILL GET FIBER ROLLS (SE-5) AND HYDRAULIC MULCH (EC-3).

NO.	DATE	REVISION	BY

Prepared by: CNC ENGINEERING
JOSHUA L. NELSON, R.C.E. 69879 DATE
DESIGN BY: JC DRAWN: JC

SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY
APPROVED BY:
CHIEF ENGINEER PROJ. MANAGER AGENCY SUPERVISOR DATE

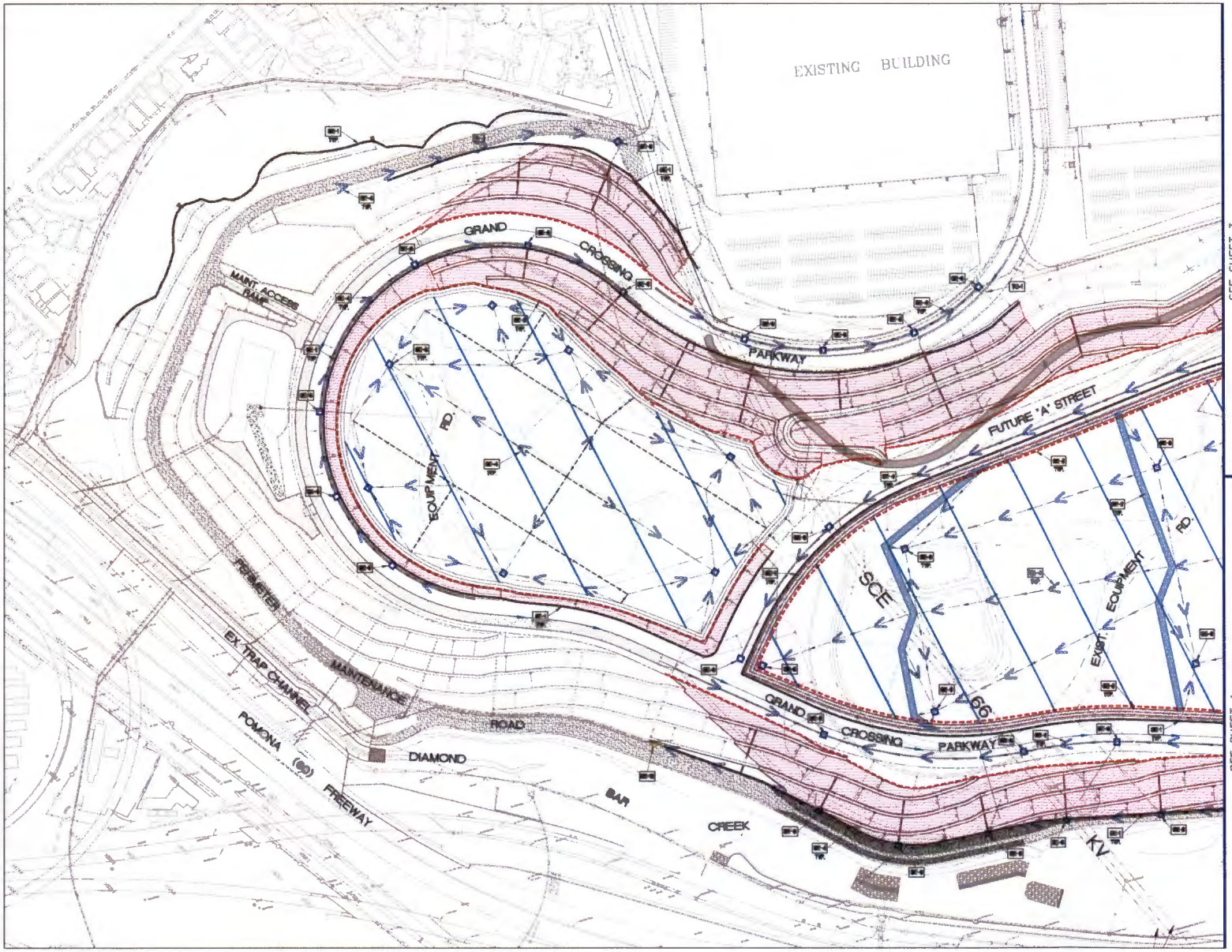
INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

STORM WATER POLLUTION PREVENTION PLAN
WATER POLLUTION CONTROL DRAWING

CHECKED BY: NA
DATE: JULY 2017

JOB NO.: 186-0381R | SHT. 1 OF 4

CONTRACT DRAWING NO. SN 78 of 41



BMP LEGEND

- SILT FENCE
- SEDIMENT BASIN
- SEDIMENT TRAP
- GRAVEL BAG CHECK DAM
- LINEAR SLOPE EROSION PROTECTION
- GRAVEL BAG BARRIER
- STREET SWEEPING AND VACUUMING
- STORM DRAIN INLET PROTECTION
- HYDRAULIC MULCH
- ENVIROSEEDING
- MATERIAL DELIVERY & STORAGE
- MATERIAL USE
- STOCKPILE MANAGEMENT (BLANKET)
- SPILL PREVENTION & CONTROL
- SOLID WASTE MANAGEMENT
- CONCRETE WASTE MANAGEMENT (BLANKET)
- SANITARY/SEPTIC WASTE MANAGEMENT
- VEHICLE AND EQUIPMENT FUELING
- VEHICLE AND EQUIPMENT MAINTENANCE
- STABILIZED CONSTRUCTION ENTRANCE/EXIT
- WIND EROSION CONTROL (BLANKET)
- WATER CONSERVATION PRACTICES (BLANKET)
- PAVING AND GRINDING OPERATIONS (BLANKET)

SYMBOL LEGEND

- EXISTING INLET PROTECTION
- INLET PROTECTION
- SILT FENCE
- GRAVEL BAG CHECK DAM
- FIBER ROLL
- SEDIMENT BASIN
- HYDRAULIC MULCH AND FIBER ROLL
- PROPOSED STORM DRAIN
- ENVIROSEEDING

GRAPHIC SCALE

(IN FEET)
1 inch = 80 ft.

CONTRACT NO.: IBC-0381R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY

APPROVED BY:

JOHN D. HALLAN, CITY MANAGER	AGENCY ENGINEER	DATE

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

STORM WATER POLLUTION PREVENTION PLAN
WATER POLLUTION CONTROL DRAWING

NO.	DATE	REVISION	BY

PREPARED BY:

CNC ENGINEERING
215 N. Waterside Road, Ste. 102
City of Industry, Ca. 91744
Phone (626) 330-2330
Fax (626) 330-2370
Consulting Civil Engineers - Surveyors

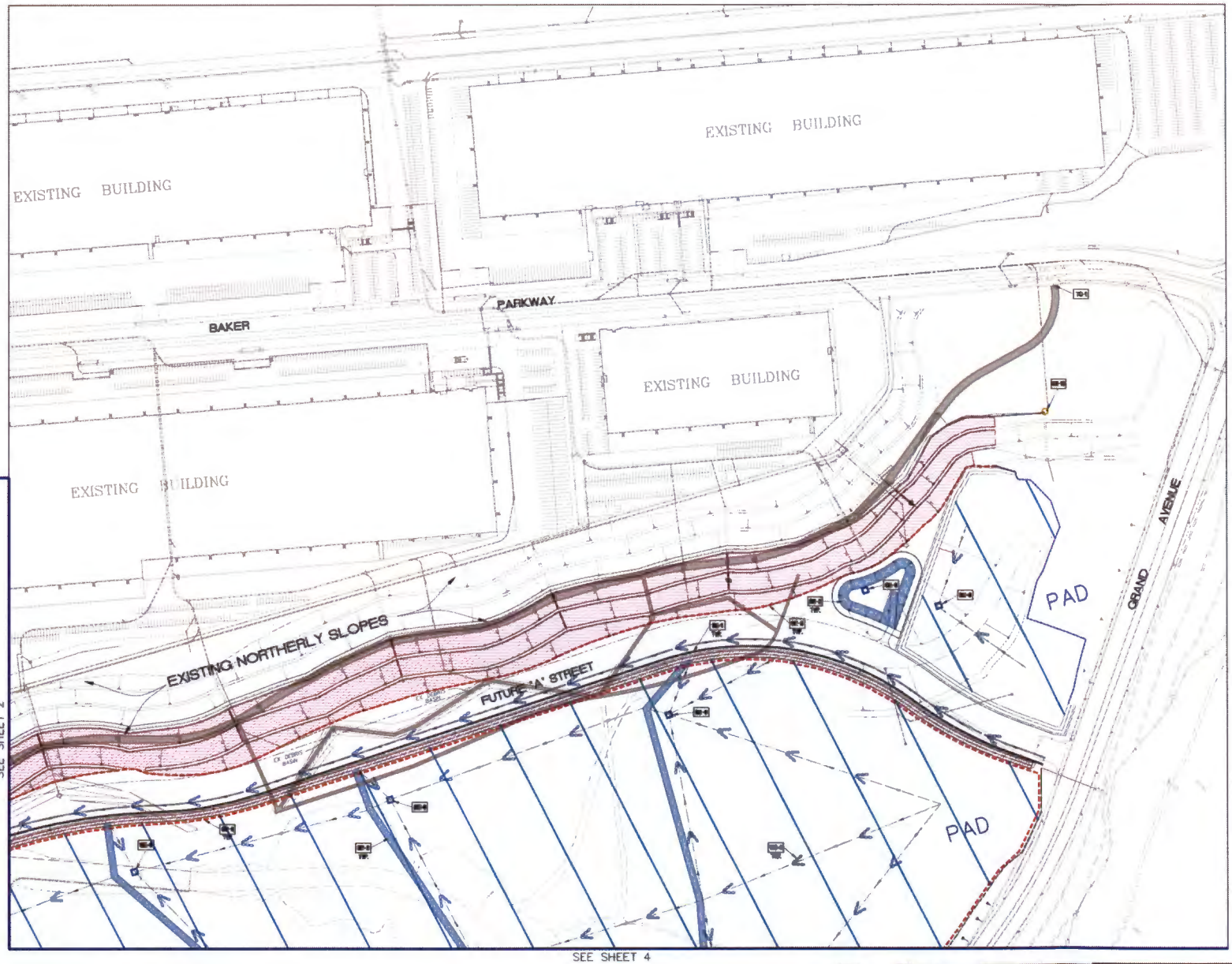
JOSHUA L. NELSON, R.C.E. 69550 DATE
DESIGN BY: JL DRAWN: JL

CHECKED BY: AN
DATE: JULY 2015

JOB NO.: IBC-0381R

SHT. 2 OF 4

CONTRACT DRAWING NO. 39 OF 41



BMP LEGEND

- SE-1 SILT FENCE
- SE-2 SEDIMENT BASIN
- SE-3 SEDIMENT TRAP
- SE-4 GRAVEL BAG CHECK DAM
- SE-5 UNLINED SLOPE EROSION PROTECTION
- SE-6 GRAVEL BAG BARRIER
- SE-7 STREET SWEEPING AND VACUUMING
- SE-8 STORM DRAIN INLET PROTECTION
- SE-9 HYDRAULIC MULCH
- SE-10 HYDROSEEDING
- WM-1 MATERIAL DELIVERY & STORAGE
- WM-2 MATERIAL USE
- WM-3 STOCKPILE MANAGEMENT (BLANKET)
- WM-4 SPILL PREVENTION & CONTROL
- WM-5 SOLID WASTE MANAGEMENT
- WM-6 CONCRETE WASTE MANAGEMENT (BLANKET)
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- NS-9 VEHICLE AND EQUIPMENT FUELING
- NS-10 VEHICLE AND EQUIPMENT MAINTENANCE
- TC-1 STABILIZED CONSTRUCTION ENTRANCE/EXIT
- WE-1 WIND EROSION CONTROL (BLANKET)
- NS-1 WATER CONSERVATION PRACTICES (BLANKET)
- NS-9 PAVING AND GRINDING OPERATIONS (BLANKET)

SYMBOL LEGEND

- EXISTING INLET PROTECTION SE-8
- FIBER PROTECTION SE-9
- SILT FENCE SE-1
- GRAVEL BAG CHECK DAM SE-4
- FIBER ROLL SE-5
- SEDIMENT BASIN SE-2
- HYDRAULIC MULCH SE-9 AND FIBER ROLLS SE-5
- PROPOSED STORM DRAIN
- HYDROSEEDING SE-10

GRAPHIC SCALE

(IN FEET)
1 inch = ft.

CONTRACT NO. IBC-0381R
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY

APPROVED BY:

DAWN M. BARLAS, DATE	MARK HARRY, AGENCY ENGINEER	DATE

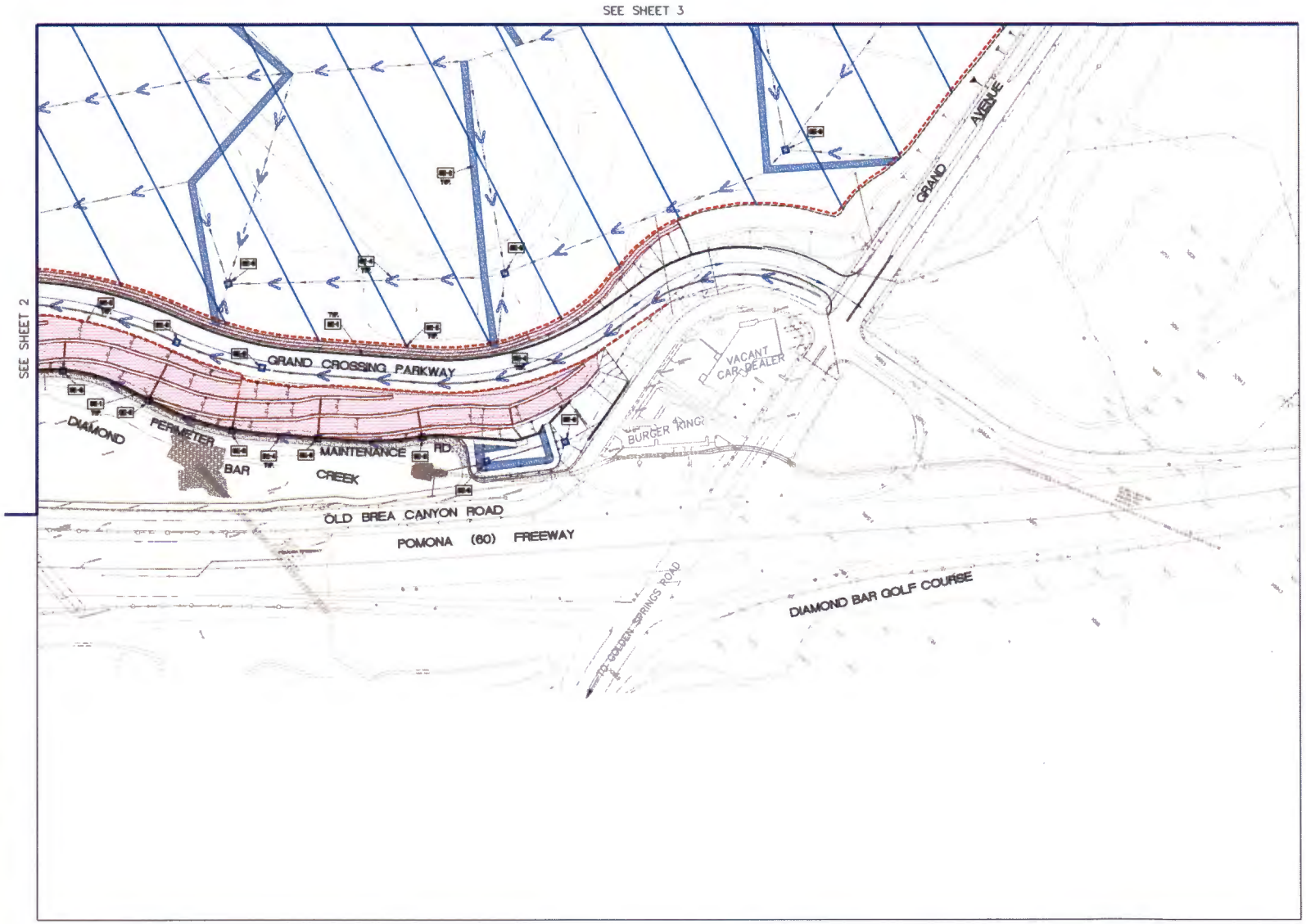
INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

STORM WATER POLLUTION PREVENTION PLAN
WATER POLLUTION CONTROL DRAWING

NO.	DATE	REVISIONS	CK. BY

Prepared by: CNC ENGINEERING

DESIGNED BY	DATE	JOB NO. IBC-0381R	SHT. 3 OF 4
DRAWN BY	JULY 2015	CONTRACT DRAWING NO. 40 OF 41	



BMP LEGEND

- SE-1 SILT FENCE
- SE-3 SEDIMENT BASIN
- SE-5 SEDIMENT TRAP
- SE-6 GRAVEL BAG CHECK DAM
- SE-8 LINEAR SLOPE EROSION PROTECTION
- SE-9 GRAVEL BAG BARRIER
- SE-7 STREET SWEEPING AND VACUUMING
- SE-10 STORM DRAIN INLET PROTECTION
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- WM-1 MATERIAL DELIVERY & STORAGE
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- WM-6 VEHICLE AND EQUIPMENT FUELING
- WM-8 VEHICLE AND EQUIPMENT MAINTENANCE
- TR-1 STABILIZED CONSTRUCTION ENTRANCE/EXIT
- SE-4 WIND EROSION CONTROL (BLANKET)
- SE-1 WATER CONSERVATION PRACTICES (BLANKET)
- SE-3 PAVING AND GRINDING OPERATIONS (BLANKET)

SYMBOL LEGEND

- EXISTING INLET PROTECTION SE-10
- INLET PROTECTION SE-10
- SILT FENCE SE-1
- GRAVEL BAG CHECK DAM SE-6
- RIPRAP ROLL SE-8
- SEDIMENT BASIN SE-3
- HYDRAULIC MULCH SE-8 AND RIPRAP ROLLS SE-8
- PROPOSED STORM DRAIN
- HYDROSEEDING SE-4

GRAPHIC SCALE

(IN FEET)
1 inch = ft.

CONTRACT NO.: INC-LIBRTR
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

SUCCESSOR AGENCY TO THE INDUSTRY URBAN-DEVELOPMENT AGENCY

APPROVED BY:

JOHN D. EMRICH, VICE PRESIDENT — AGENCY ENGINEER — DATE

INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

STORM WATER POLLUTION PREVENTION PLAN WATER POLLUTION CONTROL DRAWING

NO.	DATE	REVISIONS	CK. BY

CNC ENGINEERING — Consulting Civil Engineers - Surveyors
205 N. Brookside Blvd., Ste. 102, City of Industry, CA 91744, Phone (626) 333-0330, Fax (626) 330-7626

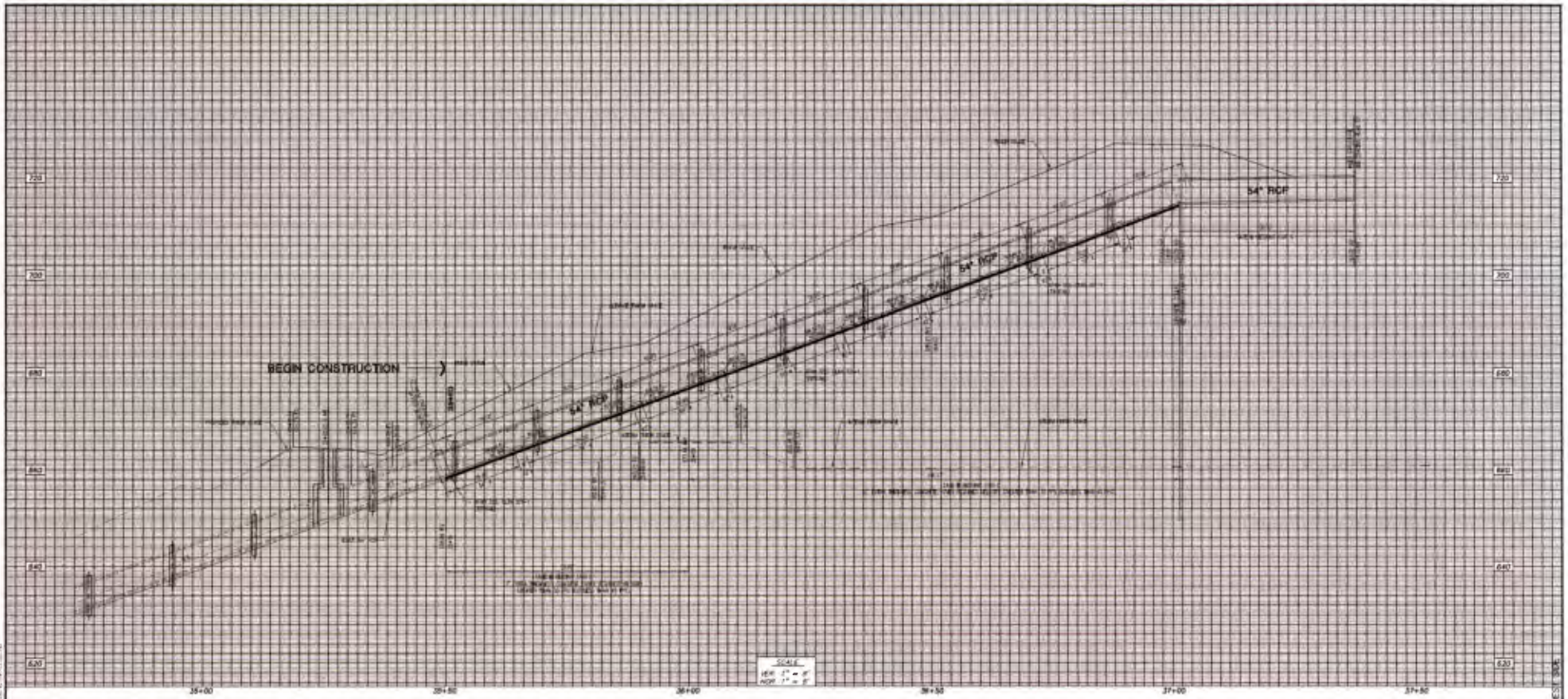
JOSHUA L. NELSON, R.C.E. 60954 — DATE

DESIGN BY: K. — DRAWN: P.

DESIGNED BY: BA — DATE: JULY 2012

JOB NO.: IBC-0381R — SHT. 4 OF 4

CONTRACT DRAWING NO. 41 OF 41



CONTRACT NO. IBC-03818
INDUSTRY BUSINESS CENTER PHASE 2 MASS GRADING, WEST SIDE

B.M. NO. DC-6750 ELEV. 224.864

Adjusted / 2001 (Balboa) Control Survey

No.	DATE	REVISION	BY	CK

Prepared by:
CNC ENGINEERING
CONSULTING CIVIL ENGINEERS • SURVEYORS
JOSHUA L. NELSON, R.C.E. 74832 DATE
DESIGN BY: N/A
DRAWN BY: JF

SUCCESSOR AGENCY TO THE
INDUSTRY URBAN-DEVELOPMENT AGENCY
APPROVED BY:
JOHN D. SALLAS R.C.E. 74831 CITY ENGINEER DATE

INDUSTRY BUSINESS CENTER
PHASE 2 MASS GRADING, WEST SIDE

54" NORTHERLY STORM DRAIN PROFILE

DRAWN: A
DATE: JUNE 2021

JOB NO.: IBC-03818 | SHT. 1 OF 1

CONTRACT DRAWING NO. 419 OF 61