



SUBMITTAL DATE:

FROM: Economic Development Agency

April 6, 2010

SUBJECT: Larry D. Smith Correctional Facility Expansion No. 3 - Change Order No. 14

RECOMMENDED MOTION: That the Board of Supervisors:

- 1. Authorize the payment of supplemental sewer fees for the City of Banning in the amount of \$1,316,636 for sewer connection fees;

۷.	modification	ons;	3111 I II U	ie amount of t	194,030 (0	Construct secur	ity ceiiiig
	Ratify cha system;	nge order No. 14, line	item 2 in	the amount of	f \$243,585 t	o install a radio	antenna
4.		the Assistant Executive he county; and	e Officer	/EDA or desig	nee to exec	ute the change	order or
al	(Commen	ces on Page 2)		Wit to	id		
<u>u</u>	VILLE C	<u>An</u>		Robert Field			
C	hristopher Ha	ans		Assistant Cou	inty Executiv	e Officer/EDA	
CINIA	NCIAL	Current F.Y. Total Cost:	· ·	\$ 1,754,919	In Current	ear Budget:	Yes
	ATA	Current F.Y. Net County	/ Cost:	\$ 1,754,919	Budget Adj	ustment:	No
		Annual Net County Cos	t:	\$ 0	For Fiscal \	ear:	09/10
OUR bond	CE OF FU issue (8	NDS: 1985 County of 5 ACES) accumulated	Riversi	ide Projects	Po De	ositions To Be leted Per A-30	
	`	,			Reg	uires 4/5 Vote	\boxtimes
C.E.O.	RECOMN	IENDATION: A	PPROVE	unt /	lufn		

County Executive Office Signature

Prev. Agn. Ref.: 3.19, 1/5/10; 3.21, 3/31/09 | District: 5

WITH THE CLERK OF THE BOARD

ATTACHMENTS FILED

Agenda Number:

Economic Development Agency Larry D. Smith Correctional Facility Expansion No. 3 April 6, 2010 Page 2

RECOMMENDED MOTION: (Continued)

- 5. Approve a \$1,754,919 increase to the project budget.
- 6. Allocate the 1985 ACES bond issue accumulated interest earnings of \$2 million for the Smiths Correctional Facility project.

BACKGROUND:

On February 5, 2008 the Board of Supervisors approved the contract between Bernards Bros., Inc., and the County to construct a 582 bed expansion of the Larry D. Smith Correctional Facility in the City of Banning.

Before construction began on phase 3, an application was submitted to the City of Banning for sewer hookups. The city notified the county that sewer discharge fees for phases 1 and 2 had never been metered or paid. The city provided an estimate, in the amount of \$2,231,586, for all three phases. Based on projected use rates, the city and county determined that \$916,594 of the total amount would be attributable to phase 3 (\$1,316,636 attributable to phases 1 and 2) and would be paid immediately, with the balance due determined by actual metered flow rates.

Also, in Housing Unit No. 16, three dayrooms were designed for mental health inmates. Safety cages were planned with inmates' safety in mind at the stairway leading to the upper tier and at the upper tier railing. During construction, it was discovered that the ceilings above the stairway cages were not secure, posing safety and security risks. Housing Unit 16 ceiling modifications are required to prevent injury or escape.

Finally, communication between Sheriff's staff is critical; however, radio communication in the new construction is poor, due to the number of concrete walls and steel construction. The department proposes to install a radio antenna system to improve radio communication.

Change Order No. 14 exceeds \$150,000, so Board approval is required. The change order will compensate Bernards Bros., Inc., for security ceiling modifications and installation of a radio antenna system, in the amounts of \$194,698 and \$243,585, respectively. The total amount for work essential to make the facility secure and provide reliable communication throughout the new expansion is not to exceed \$438,283.

An increase in the project budget, in the amount of \$1,754,919, is needed to pay greater than anticipated sewer connection fees (\$916,594) and change order No. 14 (\$438,283).

Economic Development Agency Larry D. Smith Correctional Facility Expansion No. 3 April 6, 2010 Page 3

The approximate allocation of the budget increase is as follows:

Original Project Budget \$78,867,500
Sewer Connection Fees \$1,316,636
Additional Construction Fees \$438,283
Revised Total Project Budget: \$80,622,419

Financial Impact:

Additional funding is necessary to complete the Larry D. Smith Correctional Facility Expansion No. 3, therefore, '85 ACES interest earnings are requested.



City of Banning Public Works Department

March 10, 2010

Certified Mail# 7000 0520 0025 5839 0778

County of Riverside Economic Development Agency Tim Miller 3403 Tenth Street, Suite 300 Riverside, CA 92501

Subject: Larry D. Smith Correctional Facility Sewer Fees

Dear Mr. Miller,

The City is in receipt of your letter dated November 2, 2009 regarding Water and Sewer Fees for the Larry D. Smith Correctional Facility Industrial Wastewater Permit. To summarize the circumstances, Water and Sewer Fees for Phase 3 of the said facility were calculated by the City of Banning Water/Wastewater Department as described in the attached memorandum dated May 12, 2008.

In regard to the Water Fees, both parties agree that the County will pay the sum of \$233,593.60 to the City of Banning for water fees associated with the Phase 3 expansion of the facility. Payment for this portion of the fees was received by the City on April 15, 2009 in its entirety.

In regard to the Sewer Fees, the City's calculation for Phase 3 amounts to \$2,231,586.00. Both parties agree that the County will immediately pay a portion of this fee in the amount of \$916,594.00. Once the actual sewer flow can be established for the facility, the County will pay the remaining balance owed based on the actual flow.

At this time, both parties have reached an agreement on determining future sewer fees. As part of the Phase 3 construction, a sampling manhole with a flow meter will be installed. This installed meter will capture sewer flow from the expanded facility only. Once the expanded facility is fully operational, the City of Banning in coordination with the County of Riverside will take actual sewer flow measurements to determine final costs.

Further, our records indicate sewer discharge fees for Phase 1 and Phase 2 of the Larry D. Smith Facility, that were previously constructed, were not collected by the City of Banning. Consequently, during the construction of Phase 3, the County of Riverside will set a second sewer flow meter downstream of the entire Larry D. Smith Correctional Facility. Measurements of the actual sewage flow will be taken at the same time the Phase 3 measurements are taken. The Phase 3 flow rate will be deducted from the facilities total flow rate in order to determine the amount owed by the County to the City for sewer discharge fees related to this portion of the project.

Please accept this as the City's request for payment. If you have any question please contact me at (951) 922-3130.

Sincerely,

Duane Burk

Director of Public Works

CC: Kirby Warner, Interim Finance Director Art Vela, Assistant Civil Engineer Jerome Bowen, Engineering Services Assistant

CITY OF BANNING

MEMORANDUM



GT 5/12/08

LARRY D. SMITH COORECTIONAL FACILITY PHASE III EXPANSION

	Inmates	<u>Staff</u>	<u>Total</u>
Existing	936	289	1,225
New	582	266	848
Total	1,518	555	2,073
848 New 1225 Tota		= 69.2% Increase Population of	Expansion

Water Fees

Water Connection Fees

New 6" Water Meter = 32.3 EDU

32.3 EDU x \$7,232.00 per EDU = \$233,593.60

Water Frontage Fee

Not Required (constructing a 10" water line)

6" water meter installation costs at Time and Materials during construction of water line.

Sewer Fees

Sewer Connection Fees

Present Discharge (Sept. 07) is 1,156.95 EDU

Future Discharge 1,157 EDU x 69.2% = 801 EDU

Our Mission as a City is to provide citizens a safe, pleasant and prosperous community in which to live, work and play. We will achieve this in a cost effective, citizen friendly and open manner.

801 EDU x \$2,786.00 per EDU = \$2,231, 586.00

A Sampling Manhole with flow meter will be required as part of the construction. This will save user fees in the future.

Water Fees Sewer Fees \$ 233,593.60 \$2,231,586.00

Total

\$2,465,179.60

Other Costs:

6" water meter Installation 10" water line Installation

Sampling Manhole with flow meter

Sewer EDU Formula:

EDUs =
$$\frac{Q}{225 \text{ gpp/day}}$$
 [0.50 + 0.25 $\frac{BOD}{200 \text{ mg/l}}$ + 0.25 $\frac{SS}{200 \text{ mg/l}}$]

Q = Monthly Flows from Prison 320 mg/l BOD from Prison 290 mg/l S\$ from Prison

EDUs =
$$\frac{Q}{225 \text{ gpp/day}}$$
 [0.50 + 0.25 $\frac{320}{200 \text{ mg/l}}$ + 0.25 $\frac{290}{200 \text{ mg/l}}$]

EDUs =
$$\frac{Q}{225 \text{ gpp/day}}$$
 [0.50+ 0.40 + 0.36] = $\frac{Q}{225 \text{ gpp/day}}$ [1.26]

Monthly Water Consumption

Road Camp Meters



PUBLIC WORKS DEPARTMENT INTEROFFICE CASH RECEIPT

99 E. RAMSEY ST., P.O. BOX 998 BANNING, CA 92220-0998 PHONE: (909) 922-3130 • FAX: (909) 922-3141

PURPOSE		ACCOUNT NO.	AMOUNT
PUBLIC WORKS PERMIT NO.:	U2	- 001-30-00-311-16-16	\$
OVERLOAD PERMIT NO.:	U2	001-30-00-311-16-16	\$
EXCAVATION PERMIT NO.:	U4	001-30-00-311-16-18	\$
ANNUAL EXCAVATION PERMIT NO.:	U4	001-30-00-311-16-18	\$
OVERTIME INSPECTION	U2	001-30-00-311-16-16	\$
RE-INSPECTION	U2	001-30-00-311-16-16	\$
PENALTY FOR WORK WITHOUT PERMIT	U2	001-30-00-311-16-16	- \$ <u></u>
TENTATIVE TRACT MAP REVIEW NO.:	UF	001-30-00-351-35-58	\$
FINAL TRACT MAP & IMPROVEMENT PLAN CHECKING/		i	
SUBDIVISION INSPECTION TRACT NO.:	UB	001-30-00-351-35-55	\$
CONSULTANT PLAN CHECK REVIEW TRACT NO.:	UD	001-30-00-351-35-61	\$
MISC. IMPROVEMENT PLAN CHECKING	UA	001-30-00-351-35-54	\$
TENTATIVE PARCEL MAP REVIEW NO.:	UE	001-30-00-351-35-57	\$
FINAL PARCEL MAP PLAN CHECK NO.:	UE	001-30-00-351-35-57	\$
RV/TRAILER/MOBILE HOME PARK REVIEW	UC	001-30-00-351-35-56	\$
RECORD OF SURVEY/LOT LINE ADJUSTMENT REVIEW	U5	001-30-00-311-35-47	\$
TEMPORARY WATER JUMPER FEE	JP	660-63-00-356-38-12	\$
WATER METER	W1	660-63-00-366-44-03	\$
WATER CONNECTION FEE	W6	661-63-00-366-44-04	\$
WATER FRONTAGE FEE	WF	661-63-00-366-44-20	\$
SEWER CONNECTION FEE	W9	681-80-00-366-44-04	\$ 916,594.
SEWER FRONTAGE FEE	SF	681-80-00-366-44-20	\$
PLAN STORAGE AND MICROFILM	U7	001-30-00-351-35-50	\$
WILL SERVE/SERVICE LETTER	U6	001-30-00-351-35-48	\$
ENCROACHMENT PERMIT APPLICATION	U1	001-30-00-311-16-15	\$
SITE PLAN REVIEW	U3	001-30-00-311-16-17	\$
STREET/ALLEY EASEMENT ABANDONMENT REVIEW	- U8	001-30-00-351-35-52	\$
R/W OR DEED PROCESSING	U9	001-30-00-351-35-53	\$
MAPS/XEROX COPIES/SPECIFICATIONS:	UH	001-30-00-351-35-60	\$
MISCELLANEOUS ENGINEERING FEES	UG	001-30-00-351-35-59	\$
MISCELLANEOUS/DEPOSIT	MP		\$
CHECK NO:	_	TOTAL:	\$ 916,594. S
FOR: PHASE II LARRY D. SMITH O SEWER PERS AS REQUESTED PER THE	ショマス	OF BONNING	UTY ETTER THE
Payee: COUNTY OF KIVERSIDE (Name/Company) Address: 3403 TENTH STIEET, 501, TRUBBING, 30 9250/		Distribution: Eng. Addr Cash	White ess Folder/Canary iler/Pink e/Gold
Telephone: () Fax: () Prepared By:	Und	BowEN Date: 3- dersigned	-17-20 <i>1</i> 0



April 1, 2009

City of Banning Attn: Duane Burke **Director of Public Works** 99 E. Ramsey St. Banning, CA 92220-0998

RE:

WATER AND SEWER FEES

LARRY D. SMITH PHASE 3 EXPANSION

Dear Mr. Burke,

The purpose of this letter is to formalize an understanding reached between the City of Banning and County of Riverside concerning water and sewer fees for the above referenced project.

Water Fees: Both parties agree that the County will pay the sum of \$233,593.60 to the City of Banning for water fees for the project.

Sewer Fees: Both parties agree that the County will pay sewer capacity fees based on the Institutional Resident figure of 0.41 EDU (per person added to the facility as a result of the expansion-inmates and staff). Until actual sewer flow is measured for this project, the County will pay the sum of \$916,594 to the City of Banning for sewer fees for the above project. The calculations for the \$916,594 payment were determined per the data:

	<u>Inmates</u>	<u>Staff</u>	<u>Total</u>
Existing	936	289	1,225
New	<u>582</u>	<u> 266</u>	<u>848</u>
Total	1,518	555	2,073

848 (new) X 0.41 EDU/person = 348 EDU increase

348 = 28.4 % EDU increase 1,225

Sewer Connection Fees

Present Discharge (September 2007) is 1,156.95 EDU

Future Discharge = 1,157 X 28.4% = 329 EDU

329 EDU X \$2,786.00 per EDU = \$916,594

Final Resolution of Sewer Fees: Since the EDU increase figures used in the above calculations are estimates, the parties have reached the following agreement to determine sewer fees. As part of the construction, a Sampling Manhole with flow meter will be installed (see attached drawing for proposed meter location marked by red star). This proposed meter location will capture actual sewer flow from the expanded facility only. Once the expanded facility is fully operational, the County in coordination with the City of Banning shall take actual sewer flow measurements at the location proposed. If these measurements show an actual discharge of less than 329 EDU, the City of Banning will issue a credit to the County of Riverside for the difference between the two measurements, times the sewer capacity charge of \$2,786 per EDU. If the measurements show an actual discharge of more than 329 EDU, the County of Riverside will pay the City of Banning for the difference between the two measurements, times the sewer capacity charge of \$2,786 per EDU.

Please confirm that this basis of agreement is consistent with the City of Banning's understanding on this matter. If you have any questions or concerns, please contact me at (951) 955-4897.

Sincerely,

Charles Waltman Deputy Director

Design & Construction

Enclosure

Cc: Brian Nakamura, City Manager
Jim Earhart, Public Utilities Director

all (lath



Date: 3/17/2010

To Contractor:

COUNTY OF RIVERSIDE ECONOMIC DEVELOPMENT AGENCY

Project:

Project No.:

Smith Correctional Facility Expansion #3

FM08250003738

CHANGE ORDER NO. __14__

	Bernards Bros., Inc. 23461 South Pointe Drive, Suite 300 Laguna Hills, CA 92653	Distribution: Project Manager Contractor Fiscal	Ins	enstruction M spector chitect/Engin	_	
Yo	u are directed to make the following changes. Changarges or indirect arising out of this work:	es shall include labor, mater	rial and	l equipment;	each item to include a	all
	1) Ceiling Modifications at Dayrooms D, E and F at Bui					
	PCO #130 2) 800 MHz Public Safety Radio System (All Buildings	ADD	\$	194,698.0	0	
	 800 MHz Public Safety Radio System (All Buildings PCO #138 	•	_		_	
	1 00 #130	ADD	\$	243,585.00)	
		The second second				
The	specifications, where pertinent, shall apply to these	changes.				
	s Change Order provides for a time extension of	33 calendar	days.			
	ginal Contract Duration (calendar days):	730	-			
Pric	or Authorized Time Extension (calendar days): rised Construction Duration (calendar days):	17				
Orio	ginal Contract Completion Date:	780				
	rised Contract Completion Date:	2/25/2010				
1101	isca contract completion bate.	4/16/2010				
The con as n	TE: This change order is not effective until approved by to designee, as indicated. undersigned contractor has given careful considerate tracted for, and hereby agrees, if this change order is nay otherwise be noted above, and perform all services ment for all costs related in any way thereto the prices	ion to the change proposed, approved, that he will provices necessary for the work ab	includ	ling its effect	on other work alread	
		Original Contract			\$62,608,00	0.00
Con	tractor Date	Prior Authorized [X] ADD			\$258,63	0.00
Con	Date	Total Contract Prior to th	is Char	nge	\$62,866,63	5.00
(=) Matia 4/20/12	-				
	nan //aux (/20/10	Authorized Changes on t	his C.C	D.:		
	stant County Executive Officer EDA Date	Addition \$ 438,283.0	00			
or D	esignee	Deduction \$				
					•	
Arch	itect Date	NET: [X] Addition []	Deduc	ction	\$438,28	3.00
1 -t	± 1 .1.					
$'$ \Box	XX - 4/15/10	Amount of Contract Au	thorize	ed		
)Proj	ect Manager Date	Including this Change	Order		\$ 63,304,918	B.00
	Mel.	•				
~	VANIA CM 9/15/1"		~	0011117	or more	
	uant to:	FORM APPRO	JAFD.	COUNTY	OUNSEL	
	[] Board Policy B-11	BY: 4 /) /	les	U	6/9/10	
	M.O. and Date	MARSHA	L. VIC	CTOR	DATE	
	• •	Change Ord	er Form	- Rev 10-28-09)	



PROPOSED CHANGE ORDER

To Contractor:	Bernards Bros., Inc.	PCO No.:	130
From:	Vanir Construction Management, Inc.	Date:	January 20, 2010
Owner:	County of Riverside	Project No.:	20063738
Project:	Larry D. Smith Correctional Facility Exp. #	3 Contract No.:	
Subject:	Ceiling Modifications at Dayrooms D, E a	nd F at Building 16 per	ASI#74-R1
1. A cost has been modifications ab Supplemental In: a. Substantial C Days, without b. Contract Cogeneral cond Attachments: Architectural Supple F for Bldg. 16), Date Request for Informat Request for Informat Request for Informat	proposed change to the contract: provide to include all labor, material and equiver the enclosed stairs at Dayrooms D, E and struction #74-R1. Completion Date has been adjusted to March at general conditions or liquidated damages impletion Date has been adjusted to April 16, ditions for an additional 16 Calendar Days. The emental Instruction #74-R1 (Modifications for ad January 20, 2010 ion (RFI) - 529 (ASI#74R1 - Joist Attachment ion (RFI) - 531 (ASI#74R1 - Closure Plate), do ion (RFI) - 531R1 (ASI#74R1 - Closure Plate)	uipment necessary to o d F at Building 16 per A n 31, 2010 for an addit assessed. 2010 to include comp Ceilings Above Stairs of Details), dated 02/01, le), dated 02/03/10 ated 02/03/10	complete the ceiling Architectural ional 17 Calendar eensation for extended at Dayrooms D,E and
To Be Completed	By Contractor:		
Proposed Cost: \$	217,197.00 Requested	Time Extension: 33	3 Calendar Days
Contractor:		Date:	
	Signature		
To Be Completed .	Jointly By Vanir CM And Contractor:		
Agreed Cost: \$	194,698.00 Agreed	Time Extension: 33	S Calendar Days
Contractor:	- AM	Date:	3-17-10
	SigNafulle		
Construction Mana	nger:	Date:	3-17-10
	Signature		
Signatures on this docu	ment do not constitute a change to the Contract o	r authorization to perform	n proposed work.



CHANGE ORDER REQUEST

COR No. 115-R001

Project: Larry D. Smith Correctional Facility

Date: 2/19/2010

DESCRI	PTION	OF WORK	

ASI #74R-1: Modified Dayroom Ceilings Above Stairs at Building 16

SUMMARY OF COS		Amount	
Item Description	Company	Requested	
Subcontract Costs			•
Final Re-Cleaning - 48 hours x \$55.00/hour	CM Construction Clean Up	2,640	/
Drywall - Framing, drywall, and scaffolding Fireproofing to be performed separately on a Time and Material basis	Sierra Lathing Company Inc	107-270	93,96
Acoustical Ceilings - Demolition of ceiling and reconfiguration of ceiling grid runners	Commercial Interiors Acoustics Inc	3,764	
Paint ceilings and touch up after scaffold removal	Pecoraro Inc	4,929	
Detention Equipment - Provide and install new security access doors total of 5 doors at \$445.00 per door	Southern Folger Detention Equip Co	2,225~	
Fire Protection - Re-cutting of sprinkler drops	J G. Tate Fire Protection Systems, Inc	2,857*	
HVAC - Remove and re-install HVAC registers and duct Re-adjusting air balance	Athena Engineering, Inc	5,645+	
Electrical - Removal and Relocation of Lights and FLS Equipment Order new fixtures	Champion Electric, Inc	14,110~	
Security Systems - Relocate Speakers	Engineered Control Systems	900~	
Contractual % Costs	Subtotal	144,340	131,03
1% Bond Mark-Up		2,150	1928
Field Implementation & Coordination -		5,101	5,129
Namenty 5%		8,652	-
Extended General Conditions for 16 Calendar Days Past March		46,624	
% OH & P Mark Up		-10,240	9180
	Subtotal	- 72,857	63,661
Total Change C	rder Request Amount:	-247,197	194 698

'NECOTIATED SETTLEMENT VALUE = \$ 193,000"+ TIME AND MATERIAL OF FIRETROOPING = \$ 1,698.00

GRAND TOTAL : 1 194,698.00

QUALIFICATIONS

- Please note the exclusions by each subcontractor proposal included in the package.

- Please note that this scope will take 45 days to complete The date of substantial completion will be changed to March 31st 2010. No extended general conditions or liquidated damages will be assessed. After March 31st 2010 Bernards will be compensated for extended general conditions for an additional 16 calendar days at \$2,914/day. This will take the date of Completion to April 16th 2010

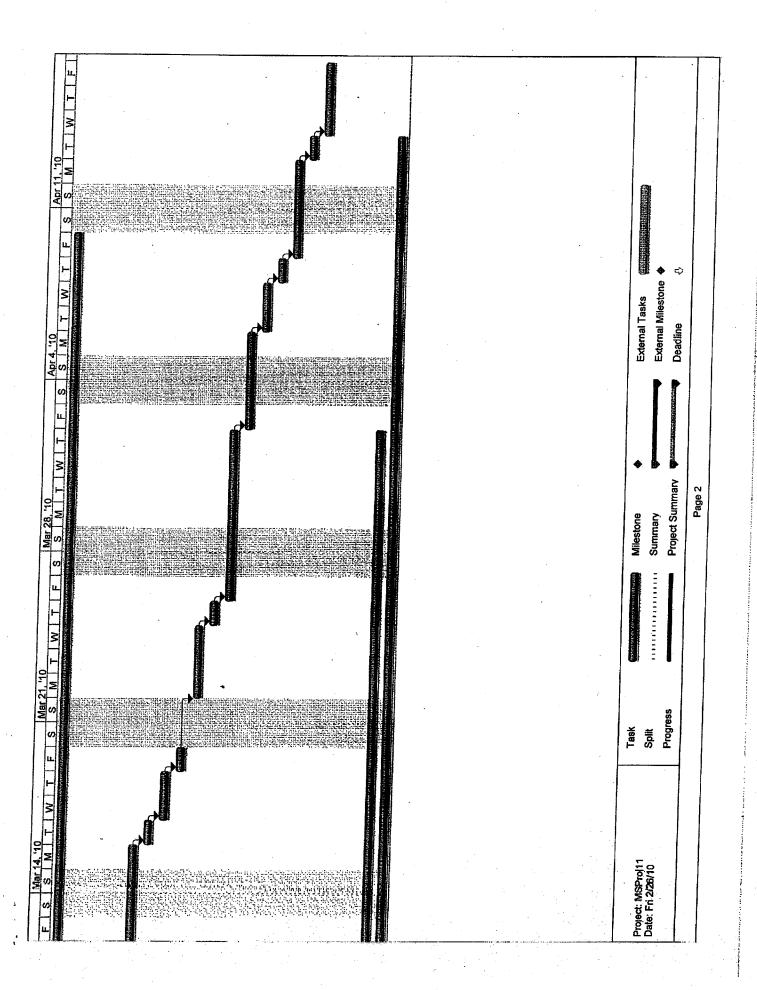
The net impact of this Change Order Request will require an increase of 47 Calendar Day(s) to the Contract Time

APPROVAL

(Please note that if this Change Order Request is not approved by 2/26/2010 additional costs and schedule impacts may result.)

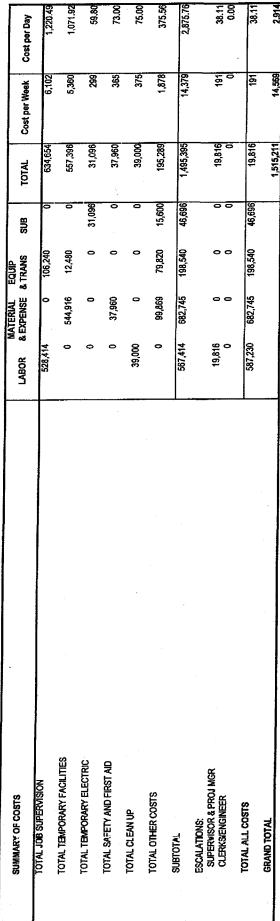
Signature	Date
Company	

March Marc	Material Material	Fri 4/9/10 Thu 2/25/10 Tue 3/2/10 Wed 3/3/10 Mon 3/8/10 Tue 3/16/10 Thu 3/18/10 Fri 3/19/10		SSMITWITE	- 4
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Project Summary Williams Deadline Page 1	Split	•			
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EXTENDED GENERAL CONDITIONS COSTS LARRY D. SMITH CORRECTIONAL FACILITY, EXPANSION #3

*REVISED 371/00







					Maťi	Equip			Total	Total				
JOB SUPERMSION	QUANTITY UNIT	UNIT	ADJ	Labor Unit	8 E E C	& Trans Unit	Sub Unit	Total Labor	Marti Eyo	Equip & Trans	Sub	TOTAL	Cost per Week	Cost per Day
Project Manager	9 AMX	¥		2 989 00				405 246	,	,	ľ			
Assistant Project Manager	!	:	•	2,000,00				01000	> (> (5 6	185,318	1,782	356.38
Proj. Manager's Car	62 W	¥	~			320.00		> <	- c	0 00	5	0	0	0.00
General Superintendent	104 WK	¥		3 299 00		00.030		243 000	> <	790'66	5 6	089,680	382	76.31
Assistant Superintendent								OSO COLO	> <	> •	5 (343,030	3,299	659.80
Protect Engineer	AWY O	×	•••	2836.00	150 00			> 0	> 0	5 (> •	O ·	•	0:00
Office Engineer		:	-	4,000.00	200			9 6	> 0	3 (<u> </u>	0	0	0:00
Protect Safety Engineer								-	- (o (0 1	0	0	0:00
Carpenter Foreman								-	> 0	-	5 (-	0	0.00
General Laborer								-	-	-	0 0	6	0	0.00
Timekeeper								-	> C			5	5	0.00
Job Clerk / Secretary								-	o c		5 6	5 6	3	0.00
Clerk (LEED & Waste Manage)								-	> <	- <	5 <	5 6	<i>3</i> (000
Supervisory Transportation	104 WK	¥	7			320.00			0	96.560	00	06.560	0 0	128 00
											,	200	}	120.00
IOIAL JOB SUPERVISION								528,414	-	106,240	0	634,654	6,102	1,220.49

TEMPORARY FACILITIES	QUANTITY UNIT	T ADI	Labor	Marti & Exp.	Equip & Trans	Sub	Total	Total	Total	Total		Cost per Week	Cost per Day
		ı	š	115	5	5	Labor	å EXD.	& Irans	ONS.	TOTAL	TOTAL	TOTAL
Temporary Field Offices	0 WKs	4			175.00			=	•	-	c	•	6
Relocate i Reset-up	ST	•-				5 000 00	• =	• •	· c	5 6	5 6	5 6	20.0
Temporary Owner Office	0 W/G	1.5			175.00		• •		o c	5 6	5 6	9 6	9.0
Desk, 2 Chars, File, Plan Table & Rack	104 Wks	-			75.00		•		7 800	5 6	7 800		
Conterence Room Furniture	104 Wks	_			45.00		, c		4.680	> <	000'7	0.4	00.0
Telephone (Hardiine)	104 Wks			82.00			, ,	8.578	3	5 6	000'+		
Telephone & DSL Service For Owner	104 WKs	ţ		82.00				8 528	•	> c	070'0		
Telephones (Celtular)	750 Man-Wks	Wks		50.00			• •	37 500	•	5 6	070'0		
Copy Machine, Maint. & Supplies	104 Wks	7		120.00				24 960	•	5 6	2000		
Typewriters & Adding Machine	0 Wks			12.00			, ,	20012		5 6	24,300		
Technology	104 WKs	,		120.00			, ,	12 480	•	5 6	7 40		
Computer/Supplies	104 Wks	*,		220.00			, ,	22,880	-	5 C	12,400		
Digital Cameras	104 Wks	-		12.00				1 248	•	5 C	7000,77		
Fax Machine	104 Wks	2		20.00			, с	160	•	5 6	047,1		
Janitor Service	0 Wks	2		80.00			, .			S C	÷		
Office Drinking Water	104 Wks	2		30.00			, .	6 240	, c	· C	0/0	2	
Field Drinking Water & Ice	0 Wks	-	45.00	25.00						· -	0,2,0		
Office Supplies	104 W/ks	·-		150.00				15.800	•	•	45 500		
Owners Office Equipment	0 Wks	•-		1000			, .	200	•	-	00,51		
Copy Paper	104 Wks	_		26.00				2704	•	-	402 C		
Postage / Delivery Services	104 Wks	2		100.00			, .	20,800	.	• •	20,872	2 6	
Temporary Electrical	104 Wks	673		1 089 00				230,768	•	5	20,000	•	
Temporary Tollets	104 M/ks	α.		30.00				200,000	9 (> <	997'RCC	•	
		•		90.00		_	-	74,900	0	5	24,960		

28.00 0.00 0.00	1,071.92
000	5,360
14,560	557,396
0000	-
0000	12,480
14,560 0 0 0	544,916
0000	0
35.00 350.00 450.00 150.00 1.75	
35 350 450 2	
3.61	
4	
104 Wks 0 Wks 0 Wks 0 Wks	
Hand Wash Units Maintain Temporary Road and Parking Area Perimeter Fence Rental Graffit Control	IOIAL IEMPORARY FACILITIES

	cost per bay TOTAL	35.40 24.40 0.00 0.00	59.80
Apply March	TOTAL	177 122 0 0 0	299
	TOTAL	18.408 12,688 0 0	34,096
T ieto T	Sub	18,408 12,688 0 0	34,096
Total	& Trans	•••	0
Total	& Exp.		0
Total	Labor	0000	0
â	Carit	122.00	
Equip & Trans	Unit		
Mati & Exp.	Chit	85.00	
Labor	Ç	150.00	
	PP	4- /-	
	QUANTITY UNIT ADJ	104 Wks 104 Wks 0 Wks 0 Wks 0 Wks	
	QUANTIT	22	
	TEMPORARY ELECTRIC	Main Service 400 Amp, Rental Sub Panel (30,000 SF floor area each) Temp Power Boxas and Cords Temporary Lighting Rental Relamp Lighting Maintenance	IOIAL IEMPORARY ELECTRIC

			Labor	Maď & Exp.	Equip & Trans	Sub	Total	Total Mati	Total Equip	T I I I		Cast per Week	Cost per Day
SAFETY AND FIRST AID	QUANTITY UNIT ADJ	ΨĐΩ	Cuit	Ħ C	cert.	iii.	Labor	& Exp.	& Trans	gg.	TOTAL	TOTAL	TOTAL
Ladders, Stairs, Ramps	0 Wks	4	0.00	30.00	000			c	٥	6	2		
Stair Towers - Rental)	0 Wks		000	75.00			, c		· c	-	5 C		0.0
First Aid and Safety	104 Wks			100.00			. =	20,00	• •	5 6	70,40	> 54	0.0
Fire Equipment	104 Wks			15.00			, c	1,560	-	5 6	00401	3 4	0.02
Bi-Weekly Safety Inspections	104 WKs			250 00				000	•	5 6	000'-	01	3.0
Traffic Barricades	0 Wks			25.00			_	000,02	> <	5 6	000,02	007	0.00
Street Sweeping	0 Wks	,		25.00			_		> <	> c	5 6	5 6	0.00
Traffic Control	0 Wks	_	25.00	100	3.75		_		-	> C	5 6	•	2 6
) ;			•	•	•	5	>	n:n
TOTAL SAFETY AND FIRST AID								17 960	-	10	27 000	200	0000
						_		7000177	>	5	25/20	365	

	Day	75.00	75.00
	Cost per Day	l	
	Cost per Week TOTAL	375	375
	TOTAL	39,000	39,000
	Total Sub	Î	
Tetal	Equip & Trans	0	0
Total	Mat1 & Exp.	6	0
	Total Labor	39,000	39,000
	Sab		
Equip	& Trans Unit		
Mar	& Exp. Unit		
		150.00	
	ADV	2.5	
	Wantity unit adj	4 WK	
	QUANTITY	ţ	
	AN UP	jressve	AL CLEAN UP
	GLE	Prog	<u> </u>

MISCELL ANEOUS COSTS Jobsite Radios			10401										
Jobsite Radios		į		& Exp.	& Irans	grig	Total	Mari	Equip	Total		Cost per Week	Cost per Day
Jobsite Radios	QUANIII Y UNII	Q	Cott	Eği Ö	Ē	Cait	Labor	& Exp.	& Trans	Sub	TOTAL	TOTAL	TOTAL
Carries and Dandal Allaman	104 Wks	••-			25.00		c	•	000		009 0	Č	
	104 Wks				350.00		•	•	2,000	> 0	2,500	9	
Small Tools	104 W/ke				200.00		•	> 0	30,400	5 ,	36,400	320	
Tricks - Flatrack - Dumo	2000		00.00		392.30		9 (0	40,820	-	40,820	393	
Fortille Dentel	VAN O		04:00		55.13		-	0	0	0	Ö	0	0.0
First and Maintenance	O WAN		84.00		125.00		0	0	0	0	0	0	0.00
Metro Detection of Detection	O WKS	، مسر		125.00			•	0	0	0	0	0	0.00
Water Protection & Liversion	104 WKS	<u>. </u>				150.00	0	0	0	15.600	15.600	150	200
Survey Equipment, Calibration	0 Wks			85.00			-			2	2	3.5	3.6
Dust Palition	O Wike	٠,-				0000	•	•	> <	5	-	5	3
Shaker Dlate @ Entry	284.0					350.00	>	-	0	<u> </u>	5	0	89
Charles of the Control of the Contro	O WAKS	-				82.00	0	0	0	-	0	0	000
Filologiaphs	104 WKS			35.00			0	3,640	0	-	3.640	35	
corp. raro support	104 WKS	-		236.50			0	24,596	0	0	24 596	737	
Main Office Support	104 Wks			138.78			0	14.433	0	C	14 433	130	
Travel Expenses	104 Wks	,_		550.00			0	57,200		· c	57 200	250	410.00
			÷						į			3	
IOTAL MISCELLANEOUS COSTS							0			15.600	195.289	1.878	375 56
						•					bowies.	> > ^ ·	
	Dust Palliton Shaker Plate @ Entry Photographs Corp. Yard Support Main Office Support Travel Expenses TOTAL MISCELLANEOUS COSTS	Dust Palition 0 Wks Shaker Plate @ Entry 0 Wks Pholographs 104 Wks Corp. Yard Support 104 Wks Main Office Support 104 Wks Travel Expenses 104 Wks	EOUS COSTS	EOUS COSTS	0 WKs i 0 WKs i 104 WKs i 104 WKs i 104 WKs i 2 104 WKs i 5 5 50US COSTS	0 WKs i 0 WKs i 104 WKs i 104 WKs i 104 WKs i 104 WKs i 1064 WKs i	0 WKs i 0 WKs i 104 WKs i 104 WKs i 104 WKs i 104 WKs i 105 WKs i 106 WKs i	0 WKs i 350.00 0 WKs i 85.00 104 WKs i 236.50 104 WKs i 138.78 104 WKs i 550.00	0 WKs i 350.00 0 WKs i 85.00 104 WKs i 236.50 104 WKs i 138.78 104 WKs i 550.00	0 WKs i 35.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 W/ks i 35.00 0 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 W/ks i 35.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 WKs i 35.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Sierra Lathing Company, Inc 1189 West Leiske Drive Rialto CA 92376 909-421-0211

License: 198103

Contractor:

Change Order

Order#: 14

Order Date: 02/19/2010

To: Bernards 23461 So. Pointe Dr. #300 Laguna Hills CA 92653

Project: 2803

Larry D Smith Corr. Facility 350 Wesley Street Banning CA 92220

The contractor agrees to perform and the owner agre pay for the following changes to this contract	es to		Plans Attached
Ordered By: 41 Raymond Lytle	Customer Order: ASI#74R1	Spec	cifications Attached
Description of Work		·	Amount
Added ceiling per ASI#74			122,129.48
Notes PLEASE SEE ATTACHED WORKSHEET		Soffold ded Fireproof deduct	ut<21,000 > (8,859.00)
LABOR =\$59,568.00 Material/Scaffold =46,631.55 15% OHP =15,929.93 total = \$122,129.48		\$	92,270.00
Qualify - No caulking - only 2 access panels(D,E,F) - scaffold used - Our scope duration will need 21 calendar day added cost. Stock/clean-up in phases	up for 45 days(calendar) a cost of \$ s per area (D,E,F) Any added detai	180.00 per CD afte I not shown on AS	r 45 days are #74R1 will have
Negative changes will lower the overall contract price requiring no additional payment by owner	Requested Amount of Cha	nge	122,129.48
The original Contract Sum was Net change by previous Change Orders The Contract Sum prior to this Change Order The Contract Sum will be should by this Change.	ange Order		1,052,000.00 157,351.00 1,209,351.00 122,129.48
The Contract Sum will be changed by this Change The new Contract Sum including this Change The Contract Time will be changed by			1,331,480 48 0 Days

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			ASI#74R1								
Items per details 1&2								49	58.40		
Dayroom D	Š	FINI	MAN HR	MAT,U	MAT, UNIT	TOTAL	_ (LABOR	~	MAT	. !
Scaffold	Ŷ		200	3		0	ر	ŝ		က ၁ ၁ ဗ	12 000 00
1- ledger										9	12,000.00
6"x18gaxtrack		24 lf		69	1.20			U	467.20	¥.	28 80
anchor bolts 1/4"		8 DCs		- 67	50		4	. €	733 BO	• U	5.5.5
2- Prerimeter		_		,	2			•	20.00)	12.00
6"x18gaxtrack		42 lf		43	1.20		9	U	934 40	¥	04.03
3-Joist				•					7)	20.40
6"x18ga std		360 lf		€	1 40		Ş	u	1 888 80	6	00 70
4-Drops				•	-			.	00.000,	9	504.00
6"x18ga std 72lf		12 ea		€.	1 40		74		1 404 60	e	700 001
top connection	,			•	<u>:</u>			3	0.101)	100.00
3"x3"x16gax24" 16lf		12 ea		U	1 20			4	404 80	6	40.00
scrap/patch fire proof		12 ea		· (25.00		1 8		2 808 2	9 U	150.00
5-hat channel				→					4,000.20	7	130.00
7/8" hatchannel x 20ga		96 If		U :	0.40		α	4	767 20	4	00
6-head outs				•	}			→	70.704)	30.40
6"x18ga std		24 If		69	1.40		9	49	934 40	U	13 60
7-stock/clean above work									404.60	• 6	20.00
8-stock security mesh							1 4	.	00.104,		00.00
9-Amico Security .50-13F		320 sf		69	2.20			. .	1 868 80	4	204 00
10-stock hi impact				+	i i		1 4	· (/	934 40	,	3
11-Hi impact gyp								,			
5/8"		320 sf		69	0.80			€9	1,401,60	49	256.00
12- finish tape		320 sf		₩	0.30		24	€9	1,401,60	€9	96.00
13- clean-up prior to scaffold down								₩	934.40	43	150.00
14-Access Panels		2 ea						₩	467.20	•	
							•••	(ax		₩	1,250.65
						(7)	340	₩	19,856.00	49	15,543.85

WORKSHEET ASI#74R1

Items per details 1&2							₩	58.40	0		
Davroom E	Ž	H	MAN HR	MAT,UNIT	FIND	TOTAL	LABO	or:		MAT	
Scaffold	Š		non late			2	3	_	კ ≁	COSI \$ 12 000 00	9
1- ledger)	12,004.7	2
6"x18gaxtrack		24 If		63	1.20		ω	467.2	8	28.5	9
anchor bolts 1/4"		8 pcs		₩	1.50		4	233.60		12.00	2 9
2- Prerimeter							•			ĺ	2
6"x18gaxtrack		42 lf		()	1.20		16.\$	934 40	<i>\(\sigma</i>	50.40	9
3-Joist				•						Š	2
6"x18ga std		360 lf		69	1.40		32	1 868 80	<i>₩</i> .	504.00	ç
4-Drops				•	:			2		5	2
6"x18ga std 72lf		12 ea		₩	1.40		24.8	1 401 60	€.	100 80	9
top connection				,	<u>}</u>			2		3.0	2
3"x3"x16gax24" 16lf		12 ea		49	1.20		24	1,401,60	6	19.	ç
scrap/patch fire proof		12 ea		(25.00		48 \$	2,803,20		150.00	? ⊆
5-hat channel											2
7/8" hatchannel x 20ga		96 If		↔	0.40		69 00	467.20	€	38.40	9
6-head outs					!			!			2
6"x18ga std		24 H		(/)	1.40		9	934.40	9	33.6	ç,
7-stock/clean above work								1.401.60	· 6 9	150.00	2 2
8-stock security mesh								934.40			
9-Amico Security ,50-13F		320 sf		6)	2.20			1,868.80	6	704.00	0
10-stock hi Impact							16 \$	934.40	Ģ		
1.1-Fil impact gyp											
5/8"		320 sf		G	0.80		24 \$	1,401.60	. €3	256.00	0
12-finish tape		320 sf		↔	0.30			1,401.60	(8)	96.00	8
13- clean-up prior to scaffold down							8	934.40		150.00	. 2
14-Access Panels		2 ea					⇔	467.20	0		ı
						. (*)	340 tax		₩	1,250.65	35
							ઝ	19,856.00	8	15,543.85	35

WORKSHEET ASI#74R1

Items per details 1&2							₩	58.40	0		
Dayroom F	Q. Ş	LINO	MAN HR prod rate	MAT,UNIT COST	L Z	TOTAL HRS	₹8	LABOR COST	MAT	TS TS	
Scaliford 4. Iodasa									↔	12,000.00	
Jagnar - I										•	
6"x18gaxtrack		24 If		43	1.20		œ	467.2	6	00 00	
anchor bolts 1/4"		800		₩	1 50) t	02.704		20.00	
2- Prerimeter		})	3		5	233.0	/	12.00	
6"x18gaxtrack		42 lf		¥	1 20		40			i i	
3-Joist		:)	9		9	954.40	^	50.40	
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4-Drops				>	<u>}</u>	•		0000,1	/)	504.00	
6"x18ga std 72lf		12 ea		€	7	•	6	404.0		700	
top connection		} !		>	<u>}</u>	•	<i>p</i>	1,401.50	<i>A</i> •	100.80	
3"x3"x16gax24" 16lf		12.69		4	20	•		7	•	•	
scrap/patch fire proof		1 1 2		→ €	0.40	•		09.104.1	,,	19.20	
5-hat channel		7 20		A	25.00	•	48 \$	2,803.2	69 O	150.00	
7/8" hatchannel x 20ga		¥ 96	,	e	9			,	•	;	
6-head outs		=)	0.40		/2	467.20	9 9	38.40	
6"x18ga std		24 If		63	140		ر 4	07770	6	22.60	
7-stock/clean above work				,	:	•			9 (23.00	_
8-stock security mesh							24 20 30 40 40 40 40 40 40 40 40 40 40 40 40 40	1,401.60	64 O (150.00	_
9-Amico Security .50-13F		320 sf		¥	2 20	-	# 6 P (934.40	• •	i	
10-stock hi impact		;		>	7.40	•		1,000.00	,	704.00	
11-Hi impact gyp							<i>p</i>	834.40	-		
2/8"		320 sf		69	08.0	•	₩	4 404	6	0000	
12- finish tane		320 of		⊦ €		•		00.101	9 ·	720.00	_
43. closmin pelos to confer d decem		350 31		A	0.30	•	24 \$	1,401.6	69 (O	96.00	_
44 Access Barrie							\$ 9	934.40	\$	150.00	_
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							69	19,856.00	⇔ ⊙	15,543.85	

Sierra Lathing Company, Inc

1189 West Leiske Drive Rialto CA 92376 909-421-0211

License: 198103

Change Order

Order#: 15

Order Date: 03/16/2010

To: Bernards

23461 So. Pointe Dr. #300 Laguna Hills CA 92653

Project: 2803

Larry D. Smith Corr. Facility 350 Wesley Street

Banning CA 92220

The contractor agrees to perform and the own pay for the following changes to this contract		Plans Attached
Ordered By: 41 Raymond Lytle	Customer Order: PCO#298	Specifications Attached
Description of Work		Amount
Fireproof patch hanger attachment at deck		1,600.01
Notes ADDED FIREPROOF WORK PER pco#298	-WORK PERFORMED ON T&M	
SEE ATTACHED T&M WORKSHEETS		
LABOR = FORMAN @ 61.40 - 11 HRS = \$675.40 JY @ 58.40 - 9 HRS =\$525.60 MATERIAL = 190.31 15% OHP =\$ 208.70 TOTAL =\$1,600.00		

Negative changes will lower the overall contract price requiring no additional payment by owner.	Requested Amount of Change	1,600.01
The original Contract Sum was		1,052,000.00
Net change by previous Change Orders		309,493.00
The Contract Sum prior to this Change O		1,361,493.00
The Contract Sum will be changed by this		1,600.01
The new Contract Sum including this Cha	ange Order will be	1,363,093.01
The Contract Time will be changed by		. 0 Days
Owner:	Date:	
Contractor:	Date:	



Job No. <u>2803</u>						
Job Name Larry	D. Smith					
Work Direction Per (RFI,PC	0,C0,F1,?) <u>[</u>	CO #	29	<u> </u>		
BLDG / Location of work	Blde, #	L_E	94	iling		
AUTHORIZED BY: Company	y Bernard	ls				
SIGN & Date		Print Nam	e .			
DESCRIPTION OF WORK PI	•	tching			When	
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ACOUSTICAL CEILINGS

Ann Mitchell

From: tatecia@aol.com

Tuesday, February 16, 2010 3:44 PM Sent:

Ann Mitchell To:

Subject: Re: ASI #74-R1 - Modifications to ceilings above stairs in Day Rooms

Yhe estimate for this work is as follows:

48 hours to demo and install @ 54.65

misc materials at installation

lift rental 1 week

15% MU

Total

\$2623.20

\$200.00

\$450.00

\$490.98

\$3764 18

----Original Message--

From: Ann Mitchell <amitchell@bernards.com>

To: rlytle@sierralathing.com; tatecia@aol.com; estimating@lawsteel.com; engineering@lawsteel.com;

rgonzales@southernfolger.com; Shawn Tromp, Robert Reeves <rireevesco@aol com>

Sent: Tue, Feb 16, 2010 10:19 am

Subject: FW: ASI #74-R1 - Modifications to ceilings above stairs in Day Rooms

My)records indicate we have not received your response to ASI #74-R1. Please forward your response to my attention via fax or email by end of day today.

If you have any questions please call Ryan Hernandez at Bernards jobsite office.

Thank you,

Ann Mitchell

Project Administrator | BERNARDS

From: Ann Mitchell

Sent: Friday, January 22, 2010 2:23 PM

To: Ray Lytle (rlytle@sierralathing.com); 'tatecia@aol.com'; Kevin Shearer, Champion Electric;

'tshafer@championelec.com'; Rick Larsen (Rick.larsen@jgtate.com); 'estimating'; 'engineering@lawsteel.com';

Richard Chiera (richardc@athenaengineering.net); Shawn Tromp, Robert Reeves; 'Onofrio Pecoraro'

Subject: RE: ASI #74-R1 - Modifications to ceilings above stairs in Day Rooms

Please see the attached revised ASI #74-R1. (The Owner added one picture)

Ann Mitchell

Project Administrator | BERNARDS

From: Ann Mitchell

Sent: Thursday, January 21, 2010 9:49 AM

To: Ray Lytle (rlytle@sierralathing.com); 'tatecia@aol.com'; Kevin Shearer, Champion Electric;

'tshafer@championelec.com'; Rick Larsen (Rick.larsen@igtate.com)

Cc: Sal Nol; Ryan Hernandez; Steven Chase; Richard Whiteman

Subject: ASI #74 - Modifications to ceilings above stairs in Day Rooms

Importance: High

PECORARO, INC.

FAINTING CONTRACTORS

January 29, 2010

BERNARDS 350 Wesley St Banning, CA 92220

Attn: Ann Mitchell

Re: Larry D. Smith Correctional Facility
ASI#74

Dear Ann,

As requested is our proposal for ASI#74. 4,941.00 Labor Material 20 10 52 25 Gal @ \$ 1900 750,00 650 Misc Masking LS 650.00 450.00 500 Equipment Scissor Lift 500.60 Breakdown of labor 15% Set up 1 h Total Painto 2 his Please call with any ques Sincerely, PECORARO, D Evendura Maldonaule for

501 W. Broadway Suite A PMB #398 • San Diego, CA 92101 P. (619) 236-1730 • F. (619) 236-8105 CA Lic # 868925 • AZ Lic#223538

J.G. TATE FIRE PROTECTION SYSTEMS, INC.

C10 C16 License #800609

Commercial & Residential Fire Sprinkler Systems

13691 Danielson Street, Suite C Poway, CA 92064 Phone (858) 486-0900 Fax (858) 486-0950

2/18/2010

73 Y	lernandez
ROOM F	IATHS HART

Bernards

Larry D Smith Correctional Facility

350 Wesley Street

Banning, CA 92220

Phone:

(951) 849-2589

Fax:

(951) 849-9605

Email:

rhernadez@bernards.com

Reference:

Larry D. Smith Correctional Facility Expansion #3

(C80523)

Subject:

Change Order 005

Below is a breakdown of the changes incurred at the above referenced project:

Change order description:

Per ASI 74-R1. Note price includes recutting drops not relocating the drops. It affects a total of 6 heads (two per room). Scaffolding to be provided by Bernards, no lifts are included in price.

Material (including tax):	\$ 240.00
Labor (32 hrs @ \$68 00):	\$ 2,176.00
Design (1 hrs @ \$68 00):	\$ 68.00
Subtotal:	\$ 2,484.00
Overhead & Profit (15%)	\$ 372.60

Total: \$ 2856.60

J G. Tate Fire Profection Systems, Inc	Bernards	
-Rich K	·	
Rick Larsen	Name, Title	

JOB#: 1801

Change Estimate#:

15.1

DATE: 2/24/10

PROJECT: Larry D. Smith Correctional Institute Architect Project# 60021802

RFI Ref: ASI#74r1

Customer Ref: ASI#74r1

TO: Sal Nol

Bernards Construction 350 Wesley street Banning , CA 92220

Ph: (951) 849-2489

Fax: (951) 849-9605

Email: snol@bernards.com

FROM: ATHENA ENGINEERING INC.

456 East Foothill blvd. San Dimas, CA. 91773

P.M: Richard D. Chiera

Ph: (909)599-0947 Ext. 501

Fax: (909)599-5018

Email: richardc@athenaengineering.net

DESCRIPTION OF WORK:

provided. Paint/patching is not included in this work and will not be provided. Labor is reuired for set up removal and set up again Move registers and ductwork to accommodate ceiling changes 3 locations for dayrooms. Preliminarily provide for 4 access door locations. The cost of the access doors or installation is not under our scope or pricing. The cost for providing a lift is not Scaffold/lifts will be provided by others to allow safe working areas for the HVAC work. Re-balance of HVAC system is not included in our pricing, the HVAC work needs access approximately 8' from the edge of the area of ceiling modification. included in this work and will not be provided. Ceiling work or repair is not included in this work and will not be for final positioning.

MATERIAL AND CHARGES

QUANTITY	DESCRIPTION	UNIT \$	EXTENDED
3.00	Lot ductwork/per area	50.00	750.00
1.00	Lot Hangar material, screws, sealant, etc.	100.00	100.00
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850.00 74.38 924.38

TOTAL COST MATERIAL: SALES TAX: 8.75% GRAND TOTAL MATERIAL:

EXTENDED		ı	1	-		1		1	ı	ı	1	1	1	1	1		1	1		1	1	1	•	1		1		1	1	1	1
UNIT \$	•	-	ı	1		1		ı	1		1		-	1		8		,	J	1	1	1	•		ŧ	1	Ţ	•	1	1	ŧ
Break Down Attached	1																														
DESCRIPTION																															
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TOTAL COST SUB-CONTRACTS: 0.00

CHANGE ESTIMATE SUMMARY

LABOR	RATE	HOURS	TOTALS
General foreman	75.07	2.00	150.14
Foreman	72.76	8.00	582.08
Journeyman	66.31	48.00	3,182.88
Detailer	72.76		
	J	1	
	v	Sub Total Labor	3,915.10
	Labor Overhead	10.00%	
	Labor Profit	2.00%	215.33
	Grand Tot	Grand Total Labor Cost:	4,521.94

Material and Charges Cost:	: Cost:	924.38	
Material and Charges Overhead 10	10.00%	92.44	
Material and Charges Profit	2.00%	50.84	
Total Material Control of the Contro	į	. L	
	. 150	יים קיל	

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Sub-Contractor Cost:	0.00%	2.00%	otractor Cost
Sub-Cor	Sub-Contractor Overhead	Sub-Contractor Profit	Grand Total Sub-Contractor Cost:

Total this Change Estimate: 5,589.59

Insurance 0.00%

SubTotal this Change Estimate: 5,589.59

Bond 1.00%

55.90

Total Cost: 5,645.49

PROJECT: Larry D. Smith Correctional Institute Architect Project# 60021802

O	To the Contract amount	ORK AND PRICE N % OF COMPLETION.		
Grand Total Change Estimate# 15.1 \$ 5,645.49	The total cost of this Change Estimate is a $igtherightarrow$ Add $igcirc$ Deduct To the (THE SIGNATURE BELOW AUTHORIZES THE PERFORMANCE OF THE ABOVE STATED WORK AND PRICE ADJUSTMENT TO THE CONTRACT, BILLABLE AND PAYABLE IMMEDIATELY BASED UPON % OF COMPLETION. Accepted By:	Print Name:	Signature: Date:
		Acce	Print	Sign



CHAMPION ELECTRIC INC.

3950 GARNER ROAD RIVERSIDE, CA 92501 Telephone: 951-276-9619 Fax: 951-276-1460

Contact: Kevin Shearer

E-mail: kshearer@championelec.com

Bernards Builders, Management Services

23461 South PointeDr. suite 300 Laguna Hills, CA 92653 Telephone: 949.461.3650 Fax: 949.461.3965 Contact: Ryan Hemandez E-mail: rhemandez@bernards.com

COST PROPOSAL

PCO 040 ASI #74 R-1

Date:

fevi bed

2/1/2018-

Larry Smith Correctional Fa-

Page Number:

Project Name:

DETAILS OF PROPOSAL

Description of Change:

Provide price for Changes found in ASI #74 R-1

Price will not be adjusted after work is completed.

Demo will not start until all celling tiles are removed Rough will not start until all of the framing is complete Finish will not start until all paint and drywall is complete

Fire Alarm cost is for Pryo-Comm to remove and replace smoke detectors.

Contract extension will be determined by the completion dates of the other trades.

Type C fixtures are \$575.00 each

Upon review of the above stated direction we have Identified cost impacts that must be addressed. We are submitting this proposal for your acceptance in response to this direction. This proposal is valid for a period of thirty (30) days upon receipt. As part of this proposal a time extension of ten (10) working days are required to be added to our contract to mitigate impacts to the original contract schedule. If a time extension is not acceptable we reserve the right to void this proposal and resubmit a new cost that accounts for acceleration, trade stacking, delays and other issues as may be required. This preposal is based upon information provided by the owner to accomplish completion of this change and we accept no responsibility for inadequate engineering or incomplete information. Excluded from this quote is any demo, patching, repairing, and or painting of finished surfaces unless specifically stated otherwise. We reserve the right to re-evaluate this pricing if conditions or information changes from time of submission to notice to proceed. Upon acceptance of this proposal please expedite our notice to proceed so work may begin as soon as possible. Please contact the undersigned if there are any questions in regards to this proposal.

PROPOSAL TOT	AL	\$14,110.00
Signature:	Fesh	

PCO 040 ASI # 74 R-1 2/1/2010 Larry Smith Correctional Facility 2

REF Date: Project Name: Page Number:

				•	
Area .		Material(\$)	Mat(%)	Labor Hrs	Lab(%)
II DAYROOM D		1,813.76	33,33	20.90	33.07
DAYROOM E		1,813.76	33.33	20.90	33.07
DAYROOM F		1,813 76	33:33	21.40	33.86
Total		5,441.28	100.00	63.20	100.00
DAYROOM D					
System	•	Material(\$)	Mat(%)	Labor Hrs	Lab(%)
DEMO		13.08	0.72	9.57	45.79
II ROUGH		72,51	4.00	3.27	15.65
II FINISH		1,728.17	95.28	8.06	38.56
Total		1,813,76	100.00	20.90	100.00
DAYROOM D / DEMO					
Description	Qty	Net Price Uni	t Labor Unit	t Total Mat(\$) T	otal Hour
3/4" STEEL FLEX	10.00	971.00 M	5.00 C	9.71	0.5
3/4" FLEX TO 3/4" FLEX CPLG	1.00	336.53 C	16.88 C	3.37	0.1
REMOVE TYPE D FIXTURES	5.00	0.00 E	1.00 €	0.00	5.0
REMOVE SMOKE DETECTORS	3.00	0.00.E	0.75 E	0.00	2.2
REMOVE DUCT DETECTOR LED	1.00	0 00 E	0.65 E	0.00	0.6
MOBILIZATION	1.00	0.00 E	1.00 E	0.00	1 0
Totals				13.08	9.5
DAYROOM D / ROUGH	•				
Description	Qty	Net Price Unit	Labor Unit	Total Mat(\$) To	ptai Hours
4S DEEP BOX 3/4" KO	3:00	1,252,95 C	30.36 C	37.59	0.9
4" SQ 1G PL-RING 3/4" RISE	3.00	518.18 C	15.02 C	1555	0.45
#10x 3/4" S-TAP SCREW P/H	28.00	9:24 C	2.50 C	2.59	0.70
TSGB16 ADJ BOX MTG BRKT	7.00	239.68 C	3.00 C	16.78	0.21
MOBILIZATION	1,00	0:00 E	1.00 E	000	1.00
Totals		-,		72.50	3.27
DAYROOM D / FINISH					•
Description	Qty	Net Price Unit	Labor Unit	Total Mat(\$) To	tal Hours
#14x1-1/2" S-TAP SCREW P/H	18 00	17.60 C	4.50 C	3.17	0.81
INSTALL TYPE C FIXTURE	3.00	575 00 E	1.25 E	1,725.00	3.75
INSTALL TYPE D FIXTURE	2.00	0.00 E	1.25 E	0.00	2.50
MOBILIZATION	1.00	0.00 E	1.00 E	0.00	1.00
Totals				1,728.17	8.06
DAYROOM E			•		
System		Material(\$)	Mat(%)	Labor Hrs I	.ab(%)
ji DEMO		13.08	0.72	9.57	45.79
ROUGH		72.51	4.00	3.27	15.65
FINISH		1;728.17	95.28	8.06	38.56
Total		1,813.76	100.00	20.90	100.00
AYROOM E / DEMO					
Description	Qty N	let Price Unit	Labor Unit	Total Mat(\$) Tot	al Hours
3/4" STEEL FLEX	10.00	971.00 M	5.00 C	9.71	0.50
3/4" FLEX TO 3/4" FLEX CPLG	1.00	336.53 C	16.88 C	3.37	0.17
· · · · - · · · · · · · · · · · · · · ·					

REF

PCO 040 ASI # 74 R-1

Date:

2/1/2010

Larry Smith Correctional Facility

Project Name: Page Number:

Description	Qty	Net Price Unit	Labor Unit	Total Mat(\$)	Total Hours
REMOVE SMOKE DETECTORS	3.00	0 00 E	0.75 E	0.00	2.25
REMOVE DUCT DETECTOR LED	1.00	0.00 E	0.65 E	0.00	0.65
MOBILIZATION	1.00	0.00 E	1.00 E	0.00	1.00
Totals				13.08	9.57

DAYROOM E / ROUGH

Description	Qty	Net Price Unit	Labor Unit	Total Mat(\$)	Total Hours
4S DEEP BOX 3/4* KO	3.00	1,252.95 C	30.36 C	37 59	0.91
4" SQ 1G PL-RING 3/4" RISE	3.00	518.18 C	15.02 C	15.55	0.45
#10x 3/4" S-TAP SCREW P/H	28.00	9.24 C	2.50 C	2.69	0.70
TSGB16 ADJ BOX MTG BRKT	7.00	239.68 C	3.00 C	16.78	0.21
MOBILIZATION	1.00	0.00 E	1.00 E	0.00	1.00
Totale				72 50	3 27

DAYROOM E / FINISH

Description	Qty	Net Price Unit	Labor Unit	Total Mat(\$)	Total Hours
#14x1-1/2" S-TAP SCREW P/H	18.00	17.60 C	4.50 C	3.17	0.81
INSTALL TYPE C FIXTURE	3.00	575.00 E	1 25 E	1,725.00	3.75
INSTALL TYPE D FIXTURE	2.00	0.00 E	1.25 E	0.00	2.50
MOBILIZATION	1.00	0:00 E	1.00 E	0.00	1.00
Totals				1,728.17	8.06

DAYROOM F

System	Material(\$)	Mat(%)	Labor Hrs	Lab(%)
II DEMO	13.08	0.72	8.82	41.21
ji ROUGH	72.51	4.00	3.27	15,28
ji finish	1,728.17	95.28	9.31	43.50
Total	1.813.76	100.00	21.40	100.00

DAYROOM F / DEMO

Description	Qty	Net Price Unit	Labor Unit	Total Mat(\$)	Total Hours
3/4" STEEL FLEX	10.00	971.00 M	5.00 C	9.71	0.50
3/4" FLEX TO 3/4" FLEX CPLG	1.00	336.53 C	16.88 C	3.37	0.17
REMOVE TYPE D FIXTURES	5.90	0.00 E	1.00 E	0.00	5.90
REMOVE SMOKE DETECTORS	2.00	0.00 E	0.75 E	000	1.50
REMOVE DUCT DETECTOR LED	1.00	0.00 E	0.65 E	0.00	0.65
MOBILIZATION	1.00	0.00 E	1.00 E	0.00	100
Totals			•	13.08	8.82

DAYROOM F / ROUGH

Description	Qty	Net Price Unit	Labor Unit	Total Mat(\$)	Total Hours
4S DEEP BOX 3/4" KO	3.00	1,252.95 C	30.36 C	37.59	0.91
4" SQ 1G PL-RING 3/4" RISE	3.00	518.18 C	15.02 C	15.55	0.45
#10x 3/4" S-TAP SCREW P/H	28.00	9.24 C	2.50 C	2.59	0.70
TSGB16 ADJ BOX MTG BRKT	7.00	239,68 C	3.00 C	16,78	0.21
MOBILIZATION	1.00	0.00 E	1.00 E	0.00	1.00
Totais				72.50	3. 2 7

DAYROOM F / FINISH

Description	Qty	Net Price Unit	Labor Unit	Total Mat(\$)	Total Hours
#14x1-1/2" S-TAP SCREW P/H	18:00	17.60 C	4.50 C	3.17	0.81
INSTALL TYPE C FIXTURE	3.00	575.00 E	1.25 E	1,725.00	3.75
INSTALL TYPE D FIXTURE	3.00	0.00 E	1.25 E	0.00	3.75
MOBILIZATION	1.00	0.00 E	1.00 E	0.00	1.00

REF Date: Project Name: Page Number:

PCO 040 ASI # 74 R-1 2/1/2010 Larry Smith Correctional Facility 4

Description Totals

Qty Net Price Unit Labor Unit Total Mat(\$) Total Hours

1,728.17

9.31

SUMMARY		
General Materials MATERIAL TAX	(@.8.750 %)	5,441.23 476.11
TOTAL MATERIAL		5,917.34
JM-RIV 1ST SHIFT	(63.20 Hrs @ \$67.00)	4,234.40
TOTAL LABOR		4,234.40
SCISSOR LIFT		700.00
TOTAL GENERAL EXPENSES		700.00
MARKUP	(@ 15.000 %)	1,627.76
TOTAL MARKUP		1,627.76
SUB-TOTAL		12,479.50
FA SYSTEM	(\$1,500.00 + 0.000 % + 0.000 % + 0.000 %)	1,500.00
TOTAL SUBCONTRACTORS		1,500.00
SUBTOTAL		13,979.50
BOND FINAL ADJUSTMENT	(@ 1.000 %)	139.80 -9.30
FINAL AMOUNT	•	\$14,110.00

A=COM

ARCHITECT'S

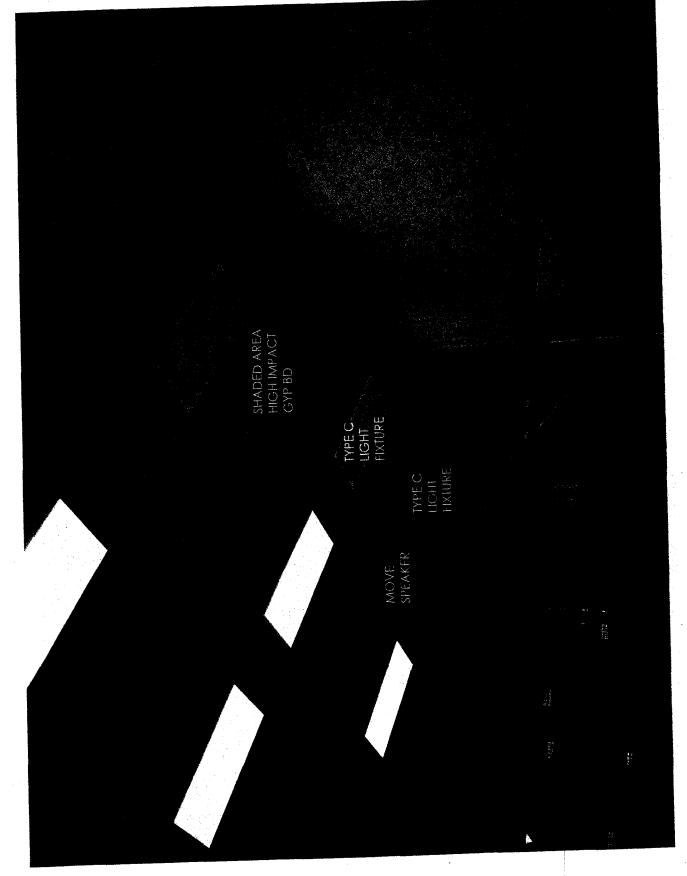
999 Town & Country Rd.

Orange, CA 92868

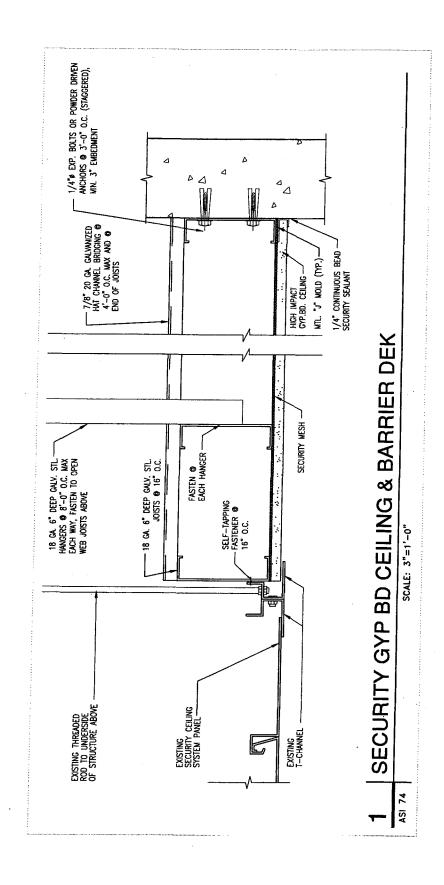
Designer AECOM SUPPLEMENTAL INSTRUCTIONS

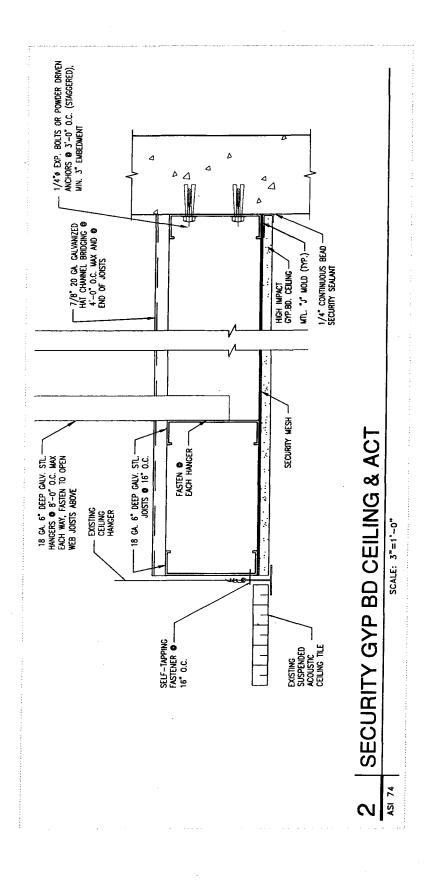
(714) 567-2400 Fax: (714) 567-2729

Owner: Architect: Construction Mgr.:		Contractor Field Other				
PROJECT:	Larry D. Smith Correctional Facility	ARCHITECT'S SUPPLEMINSTRUCTION NO:	лЕNTAL 74-R1			
OWNER:	Expansion #3 County of Riverside	DATE OF ISSUANCE:	20-Jan-10			
то:	Jon Aldana Vanir Construction Management, Inc. 980 Ninth Street, Suite 900 Sacramento, CA 95814	ARCHITECT'S PROJECT	NO: 60021802			
The Work shall be carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. Prior to proceeding with these instructions, indicate your acceptance of these instructions for minor change to the Work as consistent with the Contract Documents and return a copy to the Architect.						
Description: Modifications to ceilings above stairs in Dayrooms H16-D, H-16-E and H-16-F. Change from suspended acoustical tile ceilings to high impact gypsum board over security mesh and steel framing system.						
Reference:	Photos Dayroom D, E, and F and Draw	wings 1 and 2.				
Clarification: Modify ceiling areas as identified in the attached photos and drawings as follows: 1. Remove and replace suspended acoustical ceiling and Type D light fixtures. 2. Install new high impact ceiling consisting of 5/8" National Gypsum Hi-Impact XP board over Amico Security Mesh ASM .50-13F and steel fraiming system. Framing and ceiling edge details shown in Drawings 1and 2. 3. Paint gypsum board per the requirements of Section 09910. Finish to be Level 4. 4. If the new hard ceiling restricts necessary access to existing dampers or other devices requiring adjustment, include lockable high-security access doors per Section 08315 Access Doors And Frames. 5. Install new Type C light fixtures at the same location as Type D light fixtures. (Re-use 2 surplus Type C light fixtures). 6. All other ceiling devices are to be maintained.						
Revised Text:						
Attachments: I	Drawing1.pdf, Drawing2.pdf, DayroomD	.pdf, DayroomE.pdf, Dayro	omF.pdf			
SSUED:	ACCEPTED:	ACCEPTED:	ACCEPTED:			
BY Chang	ВҮ	вү	ВУ			



			•
			•
	4.		
	•		







REQUEST FOR INFORMATION FOR DESIGNER REVIEW

RFI No.: 531 -R1

To: Jon Aldana

Company: Vanir Construction Management Inc. Project: Larry D. Smith Correctional Facility

Date: January 28, 2010
Discipline: Structural

Importance: 3 - Normal

Subject: ASI# 74R	1 - Closure Pl	late		Respon	se Request	ed By: Febr	uary 04, 2010)
	DRA'	WING & SPECIF	ICATION REFI	ERENCE	S		-	
Drawing Sheet / Specificatio		iub Section		mments			·	
					***			_
		OTH	CTION					
ls a closure plate requ	ired at the open end		ESTION o. what is require	ed.			<u>.</u>	
•	•	,	-,					
		A N I	OWED					
		AN	SWER					
	÷							
Clarification:								
Frame entire p	erimeter of	the hard	ceilings	with	track,	joist	or	
angle.								
						·		
			•					
					•			

Response Provided By:

D. Voda/M. Gerardot 2/4/10

AECOM

Name

Compar

QUESTION INITIATED BY: Steve Chase with Bernards - Author Number: As noted above.

Job No. 1353

Page 1 of 1



REQUEST FOR INFORMATION FOR DESIGNER REVIEW

RFI No.: 531

To: Jon Aldana

Company: Vanir Construction Management Inc. Project: Larry D. Smith Correctional Facility

Date: January 28, 2010

Discipline: Structural

importance: 3 - Normal

Subject: ASI# 74R1 - Closure Plate

Response Requested By: February 04, 2010

DRAWING & SPECIFICATION REFERENCES Drawing Sheet / Specification Detail / Sub Section Comments

QUESTION

is a closure plate required at the open ends of the joist? If so, what is required.

ANSWER

Clarification:

Steel framing is at 16" O.C., as well as framing the perimeter of the hard ceilings. No closure plate required.

		·					
Response Provided By:	D. Voda/M. Gerardot 2/3/10	AECOM					
	Name .	Company					
QUESTION INITIATED BY: Steve Chase with Bernards - Author Number: As noted above.							



Company: Vanir Construction Management Inc.

Project: Larry D. Smith Correctional Facility

REQUEST FOR INFORMATION FOR DESIGNER REVIEW

RFI No.: 530

Date:

January 28, 2010

Discipline:

Structural

Importance: 3 - Normal

Subject: ASI# 74R1 - Fastener Schedule

Response Requested By: February 04, 2010

DRAWING & SPECIFICATION REFERENCES

Drawing Sheet / Specification

To: Jon Aldana

Detail / Sub Section

Comments

QUESTION

Please provide a fastener schedule for all fastener types, sizes, spacing and quantities for all connections.

ANSWER

Clarification:

Use 2 #10 SMS, staggered at the bottom of each vertical steel hanger.

Use 2 #10 SMS, 1 top and 1 bottom at steel joist to perimeter framing.

All other fasteners shown to be #10 SMS.

Response	Provid	led By:
----------	--------	---------

Voda/M. Gerardot 2/3/10

AECOM

QUESTION INITIATED BY: Steve Chase with Bernards - Author Number: As noted above.



REQUEST FOR INFORMATION FOR DESIGNER REVIEW

RFI No.: 529

To: Jon Aldana

Company: Vanir Construction Management Inc. Project: Larry D. Smith Correctional Facility

Date: January 28, 2010

Discipline: Structural

Importance: 1 - Urgent

Subject: ASI# 74R1 - Joist Attachment

Details

Response Requested By: February 04, 2010

DRAWING & SPECIFICATION REFERENCES

Drawing Sheet / Specification

Detail / Sub Section

Comments

QUESTION

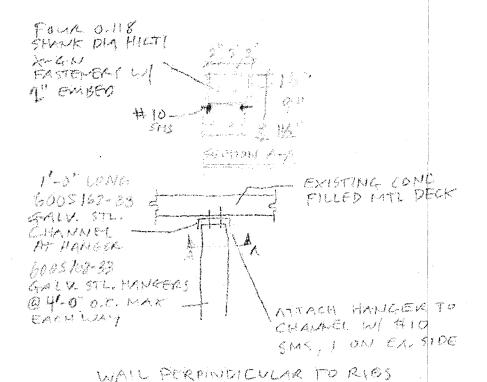
Please furnish attachment details of steel stud ceiling supports to open web joist. Inclusive but not limited to type and quantity of fastners, location on joist, and reinforcement of joist if neccessary.

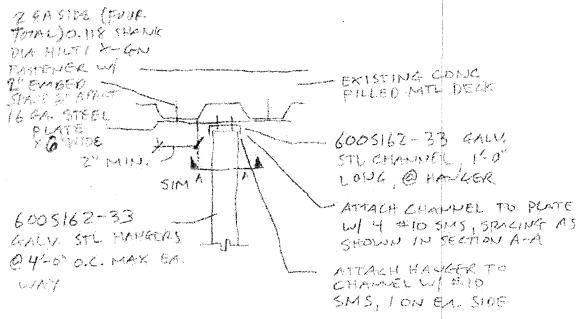
ANSWER

See attached Drawing 1. Hangers can be attached to deck to ease installation of ceiling framing.

Response Provided By:	Henry	Chang	2/1/10	AECOM	
		Name	-	Company	-

QUESTION INITIATED BY: Steve Chase with Bernards - Author Number: As noted above.





WALL PARALLEL TO DECK RIBS

DRAWING 1

				· · · · · · · · · · · · · · · · · · ·	
		·			
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	•				



To Contractor:

PROPOSED CHANGE ORDER

PCO No.:

138

Bernards Builders Management Services

From:	Vanir	Construction Managem	ent, Inc.	Date:	February 22, 2010
Owner:	Coun	ty of Riverside		Project No.:	20063738
Project:	Larry	D. Smith Correctional Fo	icility Exp. #3	Contract No.:	
Subject:	800 /	MHz Public Safety Radio	System (All Bui	ildings) by TRI POW	ÆR
Please prepare	and submit to t	the Project Manager within	10 davs an itemi	ized proposal of cost	and schedule impact for
the following pi	roposed change	e to the contract:			and concacio impac, to
Proposed Cha					
1. Provide a co	st to include all	design, labor, material and	d equipment nec	essary to turn up an i	building system that will
re-amplity a	ina aistribute the throughout the	e 800MHz County of Rivers interior of the Larry D. Smit	side system and t	the on campus 800M	Hz repeated channel
The proje	ect coverage an	ea includes: Buildings 15/16	in Correctional Fi 5/17 - Complete	acility expansion #3. Building Coverage f	or both floors including
	1. Cells	ou maidade. Bandings 197 K	o) iii compicie	boliding coverage in	or boilt floors including:
	Dayrooi				
		ion Yard Areas			
		Rooms (and Control Room (
		erimeter Corridors ("Chases od" Connection Corridors	s")		
	7. Visitation				
The proje		ea includes: Support Buildin	a – Complete Bu	uildina Coveraae for l	ooth floors including
, ,	 Holding 	Cells	• • •		o mere annig.
	2. Offices				
		xamination and Consultation			
		Property Rooms and Areas quipment Rooms	;		
		s and Elevators			
Attachments:					
	ject Pricing and	Plan Proposal Cost for Con	nplete Design an	d Installation of 800	MHz Public Safety
Radio System	at LDS#3, Date	ed, March 15, 2010	,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
To Be Complete	ed By Contrac	tor:			
Proposed Cost:	\$ 243	585.00	Doguasta d T	ima Estansian. O	
rioposed Cosi.	¥ 270,		kequesiea i	ime Extension: 0	The second control of the second control of
Contractor:	Med No. 1 - Machine processes and the contract of the contract	TO THE CONTROL OF THE WAY OF THE WAY OF THE CONTROL		Date:	
		Signature			
To Be Complete	ed Jointly By V	anir CM And Contractor	•		
Agreed Cost: \$	243,58	5.00	Agreed Ti	ime Extension: 0	
Contractor:				Date:	3-18-10
	METEROPORTURATION IN BATTER THAT TO LIKE 4-40 - BATTAL AND	Signature		- 405-1-60-1	
roject Manage	r·			Data	2 - 17 - 1-
Project Manager	r:	Signature	Mer problems of the second second second	Date:	3-17-10

•		



CHANGE ORDER REQUEST

COR No. 124

Date: 3/17/2010

Project: Larry D. Smith Correctional Facility

DESCRIPTION OF WORK

VCM CCD #26 ~ 800 MHz Public Safety Radio Systems

Item Description	Company	Amount
		Requested
Subcontract Costs		
Construction Change Directive #26 – 800 MHz Public Safety Radio Systems		225,18
Direct Work Cost	Subtotal	225,18
Field Implementation/Coordination		4,50
Contractual % Costs	Subtotal	4,50
1% Bond Mark-Up		2,41
5% OH & P Mark Up		11,484
	Subtotal	13,896
Total Change Ord	er Request Amount:	243,58

APPROVAL

(Please note that if this Change Order Request is not approved by 3/24/2010, additional costs and schedule impacts may re-	a. 44

Signature	Date	
Company		

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350 Wesley Street Banning, CA 92220 TEL 951-849-5358 FAX 951-849-8978

March 15, 2010

Ryan Hernandez Bernards Builders Management Services 350 Wesley Street Banning, CA 92250

PROJECT: LARRY D. SMITH CORRECTIONAL FACILITY EXPANSION #3

SUBJECT: Construction Change Directive #26 - 800 MHz Public Safety Radio Systems

Ryan,

In an effort to advance the project in the most timely and efficient manner, regarding the installation of a new 800 MHz Public Safety Radio System installed throughout the Expansion #3 buildings. Bernards is hereby directed to proceed with the Scope of Work as described in Tri Power's Initial Conceptual Design and Proposal dated March 15, 2010. The Total amount for this Scope of Work (Work) is \$225,189.00, not including Bernards' allowable mark-up, the cost for electrical requirements and cored holes necessary for a complete system.

As previously discussed between Bernards, the Riverside County Economic Development Agency (EDA) and Vanir, Bernards will be granted an exemption from Liquidated Damages and the County of Riverside shall be exempt from any General Conditions relating to any extension of time beyond the established completion date of April 16, 2010 for this Work.

Bernards is relieved of liability relating to the aforementioned Work as self-performed by Tri Power. The County of Riverside has eliminated the requirement for Tri Power to provide a Bond to cover the Work identified above with the exception of Tri Power's subcontractor Teldata. Teldata will be required to provide a Bond for their installation of the infrastructure required for the new radio system.

The new 800 MHz radio system will be included within the next Contract Change Order for final approval. Vanir and the EDA will incorporate any additional mutually approved terms of liability at that time.

We trust that this is the information you require to start and complete the aforementioned Scope of Work. If there are questions regarding this matter, please call me.

Yours truly, Vanir Construction Management, Inc.

Jon Aldana

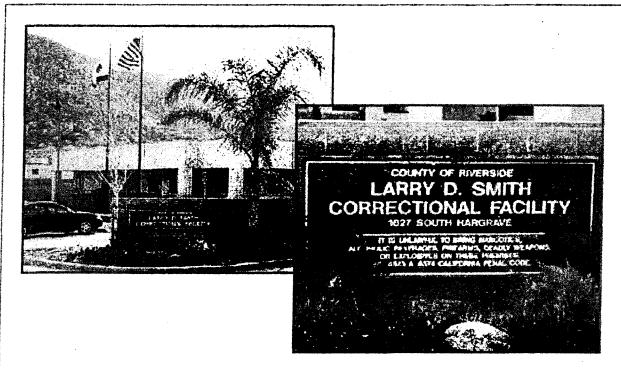
Jon Aldana, Construction Manager

Enclosures:

 Tri Power Project Pricing and Plan for 800 MHz County Wide Radio DAS for Smith Correctional Facility Expansion #3, Dated March 15, 2010

Cc: C. Waltman (EDA), F. Gonzales (EDA), M. Gerardot (AECOM), P. Watts (Vanir), D. Henry (TriPower), File

Bellevue / Denver / Las Vegas / Los Angeles / Oakland / San Bernardino / San Diego / Sacramento / San Francisco / San Jose / San Luis Obispo / Tempe / Tucson / Texas / Virginia



Project Pricing and Plan

800MHz County Wide Radio DAS for Smith Correctional Facility (600 Bed Expansion) Banning, CA

March 15, 2010

Prepared for:

Lt. Jennifer McConville – Riverside County Sheriff's Department
Howard Newton – Riverside County IT
Moe Raissdana – Riverside County IT





March 15, 2010

Lieutenant Jennifer McConville – Riverside County Sheriff's Department Mr. Howard Newton – Riverside County IT Mr. Moe Raissdana - Riverside County IT

Subject: PROJECT PRICING for:

Smith Correctional Facility - 1627 South Hargrave Street Banning, CA 92220

 800MHz Riverside county wide and on-campus radio in-building coverage enhancement system for 600 bed expansion new facility

Thank you for the opportunity to provide in building coverage for the SCF new expansion facility.

This document defines our understanding of the project, the scope of work to be performed and presents our pricing calculations for the project. This Scope of Work and Pricing is based upon the information given to us to date, the results of our on-site examinations of the property, and our experience and our understanding of the necessary deliverables to provide a guaranteed coverage Distributed Antenna System.

TriPower has an extensive history and track record in helping developers and building owners in meeting their in-building coverage requirements. Some of our directly relevant projects in California include:

- LAPD Metro Detention Center (UHF)
- Athens Sheriff's Station (UHF)
- Los Angeles Port Police Administration Building (UHF)
- Regency Tower Riverside DA headquarters (UHF and 700/800MHz)
- Alameda County Jail (800MHz)
- Santa Rita County Jail (800MHz)
- San Bruno County Jail (800MHz)

In addition, TriPower has designed and installed Public Safety DAS systems at Avalon Bay at Anaheim, Hyatt Classic Residence in La Jolla, Americana at Brand in Glendale, Worldmark Towers in Anaheim, and the Plaza in Irvine. In addition, TriPower has provided in building coverage for Avalon Bay Meydenbauer and has completed very large scale projects on multiple Kaiser Permanente hospitals, and Kemper Development's Lincoln Square in Bellevue, Washington. (Reference account lists are attached to this proposal package.)

1. Project Scope

Design, install, and turn up an in building system that will re-amplify and distribute the 800MHz county of Riverside system and the on campus 800MHz repeated channel radio signals throughout the interior of the 600 bed expansion new facility.

The project coverage area includes:

- Prisoner housing buildings ("pods") 15, 16 and 17 complete building coverage for both floors including:
 - ✓ Cells
 - ✓ Dayroom areas
 - ✓ Recreation yard areas
 - ✓ Control rooms (and control room corridors)
 - ✓ Outer perimeter corridors ("chases")
 - ✓ "Inter-pod" connecting corridors
- Support building complete building coverage for both floors including:
 - ✓ Holding cells
 - ✓ Offices
 - ✓ Inmate examination and consultation rooms
 - ✓ Storage/property rooms and areas
 - ✓ Currently shelled areas
 - ✓ Utility/equipment rooms
 - ✓ Stairwells and elevators

(NOTE: see attached DAS Proposal and Pricing document for complete Scope and Bill of Materials)

2. Pricing Proposal

Upon approval and notice to proceed, TriPower will conduct a full system design, including propagation predictions, and build out plan.

DAS Proposal and Pricing documents attached to this proposal package.

3. Assumptions/Qualification/Exclusions/Terms

Please refer to the attached DAS Proposal and Pricing document for detailed list of Assumptions, Qualifications, Exclusions, and Terms.

4. TriPower "Guaranteed Coverage / Guaranteed Cost" Protection Plan

Even after full engineering analysis and full system design, and an agreed upon contract price - once installation begins there is a chance that difficulties could be encountered that would result in increased equipment and material costs, and/or installation costs. In addition, there is also the chance that, upon final testing, additional components may be needed to provide the required coverage

This Tri-Power Protection Plan guarantees you in that in the event there are additional costs incurred (that are not a result of requested changes of scope of work), these costs are fully covered by TriPower – there would be no change order or other add on charges to Riverside county.

Lt. McConville, Howard and Moe – we thank you very much for this opportunity. We look forward to working with your team. Please give me a call if you have any questions concerning our approach to meet your Public Safety requirements.

Sincerely,

Don Henry

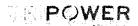
TriPower Account Manager - Southwest US

Attachments: DAS Proposal and Pricing

Single line drawings; conceptual design antenna placement diagrams

Product specification sheets TriPower Reference Accounts

Smith Correctional Facility Expansion 800 MHz DAS



Client: Bernard Brothers Construction March 15, 2010 Date: Prepared For: Ryan Hemandez Prepared By: Don Henry Project Name: Smith Correctional Facility - 600 Bed Expansion Job #: TBD Project Location: Banning, CA Start Date Estimate: March 22, 2010 FULL FACILITY - ALL AREAS Coverage Scope:

Item #	Description	Price	Total
	800 MHz County Wide Public Safety In Building Distributed Antenna System		
1	Propagation Study and Full Design; Contruction Drawings; Pre-con site walk	\$31,862.00	\$31,862.00
2	Equipment and Materials	\$121,821.19	\$121,821.00
3	Shipping charges	\$2,006.30	\$2,006.00
4	Sales tax	\$10,659.35	\$10,660.00
5	System Installation	\$46,170.21	\$46,170.00
6	System Commissioning and Acceptance Testing; Deliver CAD As-builts and close out package	\$12,670.00	\$12,670.00
		Project Subtotal:	\$225,189.00
7	OCIF credit		\$4,891.00

PROJECT TOTAL:

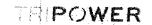
\$220,298.00

COMMENTS:

- 1 See attached Proposal Summary
- 2 Equipment and Materials = Active components (TX/RX BDA, SOLID Technologies Fiber Distribution equipment, APC UPS power supplies, coax, donor antenna, distribution antennas, splitter/couplers, etc.
- 3 Pricing includes performance bond costs for Low Voltage installation work.

Approved By:	Name:		
• • •		 	

Smith Correctional Facility Expansion 800 MHz DAS



Client:

Bernard Brothers Construction

Date:

March 15, 2010

Prepared For:

Rvan Hemandez

Prepared By:

JMC - Sale Eng

Project Name:

Smith Correctional Facility - 600 Bed Expansion

Job #:

TBD

Project Location:

Banning, CA

Start Date Estimate:

March 22, 2010

Coverage Scope:

FULL FACILITY - ALL AREAS

Scope of Work

1 Summary - Provide materials, equipment and professional services for a 800 MHz Public Safety radio system.

800 MHz radio and SOLiD headend located in Support Bldg - supporting both Riverside county wide and on campus services.

2 Project physical summary

2 story facility housing criminal inmates.

Approximately 120,000 square feet.

4 interconnected buildings, comprising of a Support Building that connects/joins three detention buildings.

Detention buildings have a perimeter corridor (both levels) that requires PS radio service also.

3 Wireless Services Scope

Public Safety - 800MHz (=>-95 RSSI at 95% Coverage)

4 Professional Services

Provide all installation and professional services for the installation.

Provide project management for the DAS installation from design to project close out.

Provide TX/RX 800 MHz radio and donor antenna.

Provide SOLiD Technologies fiber based DAS equipment, coaxial cable and antennas to support 800 MHz public safety.

Battery backup (UPS) included for headend (BDA and SOLiD equipment) and SOLiD remote equipment. 30 minute runtime.

Provide optimization service of 800 MHz public safety signals (county wide and on campus).

Provide final test results and warranty documentation on the system and its components.

Provide final drawings (As-Builts) based off the red-line drawings developed during the DAS construction.

Perform site survey and data collection of existing RF environment for propagation predications, final DAS design and IM study.

Provide final test results from ATP to Riverside IT Dept.

Assumptions & Qualifications

- 1 Target date for completion of system installation and optimization is April 9, 2010
- 2 TriPower assumes all project related on-site work shall be conducted Mon-Fri (0800-1600 hours).
- 3 Utilize existing equipment mounting boards or install as necessary.
- 4 Assume remote closet DAS components can be wall mounted.
- 5 Assume BDA/headend location to be located in Support Bldg, Level 2, Room 202.
- 6 Assume 800 MHz cable run to donor signal source 200' until formal site survey conducted.
- 7 Assumes -75 dBm or better Public Safety donor signal available at donor antenna rooftop location.
- 8 Assumes Line of Site (LOS) exists between donor site and macro site.
- 9 Assumes in-building vertical cable path exists between headend and rooftop.
- 10 Assumes multimode fiber is present from IT Room 202 to each Guard Tower telco closet on Level 2.
- 9 Assumes power will be readily available at BDA/headend/remote location(s).
- 12 Assume asbestos abatement has been completed.
- 13 TriPower will not be responsible for lack of coverage in areas outside of the specifically targeted locations.
- 14 DAS components and infrastructure damaged after installation are not the responsibility of TriPower.
- 15 Assume that the 800MHz on campus and 800MHz simulcast services will be optimized simultaneously.
- 16 Assume space for secure storage will be made available in mutually agreed upon location.
- 17 Assume electrical power will be provided.
- 18 Shipping costs for equipment and materials listed.
- 19 Amplifier Delivery can take as long as 6-8 weeks ARO.

Exclusions

- 1 Raceways, grounding bars and cable trays.
- 2 Conduit/innerduct (any conduit/innerduct provided by the client will include pull-string).
- 3 Fiber Optic; cable, patch panels, terminations.
- 4 Coring is excluded
- 5 Premium labor / union labor, overtime, weekends and holidays.
- 6 Power outlets and all electrical work.
- 7 Inspection, permit or review fees as required by code or other Authority Having Jurisdiction.

Terms

- Net 30 days for each change order billing
- 2 Past due accounts will incur interest charges at 1.5% per month. (annual rate of 18%)
- 3 In the event of collection activity, all related fees, including legal and collection costs, shall be the responsibility of the client.
- 4 Proposal valid for 90 days from date listed above.

Smith Correctional Facility Expansion 800 MHz DAS

	ı.			The systems
	PRELIMINARY BILL OF	MATERIALS		
Cllent:		Bemard Brothers Construction	. steC	March 45 0040
Prepared For:	Ľ	Ryan Hemandez		March 15, 2010
Project Name:		Smith Correctional Facility - 600 Bed Expansion	Frepared By:	Don Henry
Project Location:	tion:	Banning, CA	34 000 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	O81
Coverage Scope:	edo	FULL FACILITY - ALL AREAS	Estimated Start Date:	March 22, 2010
Line Item #	Part Number	Description		
-	BIUC	Base Interface Unit - Chassis		Qty
7	BIU_BIK	Base Interface Unit - Blank Module		- - (
es	MDBU_800PS	MDBU 800PS		က
4	o_udo	Optical Distribution Unit - Chassis		•••
ĸ	ODU_OM_4	Optical Distribution Unit - 4 Port Optic Modula		
80	ODU_B (Blank Module)	ODU - 4 Port Blank Module		.
œ	ROU_C	Remote Optic Unit - Chassis		- ·
10	RDU_800PS	RDU - 800PS		4
=	ROU_B (Blank Module)	RDU - Blank module - ROU		4
12	800MHz BDA	TXRX 800MHz Signal Booster		xo ·
13	LDF4RN-50	Coax, 50ohm - 1/2" Black Riser		- ;
4	AL-4RPV-50	Coax 50 Ohm - 1/2" Plenum 1MHz-8 8CHz		200
51	NMP01250	50 Ohm - 1/2" N-Type Coaxiel Connectors		3,825
18	RG142	Jumper - 3' NM-NM		142
17	Non-Pen Antenna Roof Mount + Bricks/Mat	Antenna Mount, Cement Blocks, and Rubbedzed Roof Mate		32
8 2	221213	Weatherproofing Kit		.
19	Polyphaser USXL-D	700/800MHz Polyphaser		.
70	CSI-AY/746-896/11	746-896 MHz Yagi		•- •
21	Grounding Kit	Grounding Kit - coaxial cable		- - ·
22	D2-69FN	2:1 Power Divider		- :
ន	D3-69FN	3:1 Power Divider		92 .
54	D4-69FN	4:1 Power Divider		.
. 52	812-4-1,500V	12:1 Power Divider		← (
28	CK16-N	6dB Coupler 700-2700MHz		ლ (
27	CK17-N	10dB Coupler 700-2700MHz		. Q
8 2	CK19-N	30dB Coupler 700-2700MHz		4 ,
82	HRA018-00 SC/APC-03M	3m fiber jumper, simplex MMF		- (
30	AP 698_2.5_7-10	Directional panel antenna 698-894 / 1700-2200 MHz / 3dRi		ю (
34	A0-700-2.5_3	Omni-Directional antenna 700-960 / 1710-2500 MHz / 3dRi		99 90
32	APC - SUA1500RM2U	Uniteruptable Power Supply - UPS - Remote		×,
೫	APC - SMT750	Uniteruptable Power Supply - UPS - Headend		- •
				4
35	n sereds	Spares not included in BOM at this time		



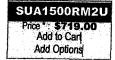


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Smart-UPS

APC Smart-UPS 1500VA USB & Serial RM 2U 120V









More Images

APC Smart-UPS, 980 Watts / 1440 VA,Input 120V / Output 120V, Interface Port DB-9 RS-232, SmartSlot, USB, Rack Height 2 U

Includes: CD with software, Rack Mounting brackets, Rack Mounting support rails, Smart UPS signalling RS-232 cable, USB cable, User Manual

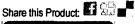
Standard Lead Time: Usually in Stock

Average Customer Review 🍿 🍿 🍁 🐈 4.5 📳



2 of 2 (100%) customers would recommend this product to a friend.

Read all reviews | Write a review



Technical **Specifications**

- Product Overview
- Documentation
- Options
- Compare Models
- Ratings and

Reviews

Output Power Capacity 980 Watts / 1440 VA Max Configurable Power 980 Watts / 1440 VA Nominal Output Voltage 120V Efficiency at Full Load 95% Output Voltage Distortion
Less than 5% at full load
Output Frequency (sync to mains)
47 - 53 Hz for 50 Hz nominal,57 - 63 Hz for 60 Hz nominal Crest Factor up to 5:1 Waveform Type Sine wave **Output Connections** (6) NEMA 5-15R



Input

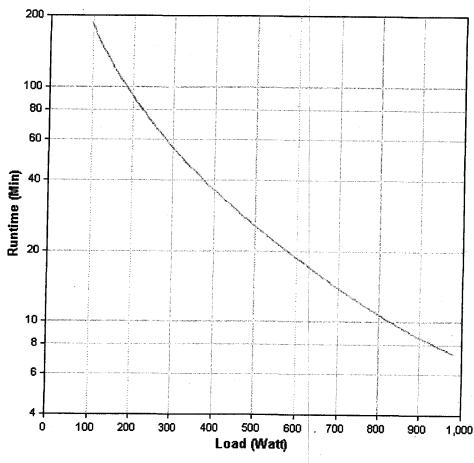
Nominal Input Voltage Input Frequency 50/60 Hz +/- 3 Hz (auto sensing) Input Connections **NEMA 5-15P**

Cord Length 8 feet (2.44 meters) Input voltage range for main operations 82 - 144V Input voltage adjustable range for mains operation 75 - 154V

Batteries & Runtime

Battery Type
Maintenance-free sealed Lead-Acid battery with suspended electrolyte: leakproof Typical recharge time 3 hour(s) Replacement Battery
RBC24
RBC™ Quantity Runtime Graph



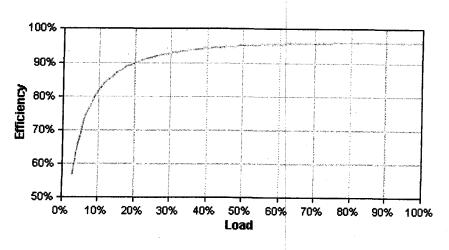


Hover over the line on the graph above to view the runtime at any desired load

Curve fit to measured runtime data. All measurements taken with new, fully charged batteries, at typical environmental conditions, with no electrical input and balanced resistive load (PF = 1.0) output.

<u>View View</u> <u>EnlargedRuntime</u> <u>Graph Chart</u>

Energy Use/Efficiency



Hover over the line on the graph above to view the efficiency at any desired load

Curve fit to measured runtime data. All measurements taken with new, fully charged batteries, at typical environmental conditions, with no electrical input and balanced resistive load (PF = 1.0) output.

<u>Viow Enlarged</u> <u>Chart</u>

Communications & Management Interface Port(s)

Conformance

Standard Warranty
2 years repair or replace
Equipment protection policy
Lifetime: \$150000

Regulatory Approvals
CSA,FCC Part 15 Class A,UL 1778

DB-9 RS-232, SmartSlot USB Available SmartSlot™ Interface Quantity Control panel LED status display with load and battery bar-graphs and On Line : On Battery : Replace Battery : and Overload Indicators Alarm when on battery : distinctive low battery alarm : configurable delays Emergency Power Off (EPO) Optional Surge Protection and Filtering Surge energy rating 459 Joules Filtering Full time multi-pole noise filtering: 0.3% IEEE surge let-through: zero clamping response time: meets UL 1449 **Physical** Maximum Height 3.50 inches (89 mm) Maximum Width 17.00 inches (432 mm) Maximum Depth 18.00 inches (457 mm) Rack Height 2U Net Weight 63.00 lbs. (28.64 kg) Shipping Weight 70.20 lbs. (31.91 kg) Shipping Height 9.88 inches (251 mm) Shipping Width 23.38 inches (594 mm) Shipping Depth 23.75 inches (603 mm) Color Black Units per Pallet 16.00 **Environmental** Operating Environment 32 - 104 °F (0 - 40 °C) Operating Relative Humidity 0 - 95% Operating Elevation 0-10000 feet (0-3000 meters) Storage Temperature
5 - 113 °F (-15 - 45 °C)
Storage Relative Humidity
0 - 95% Storage Elevation 0-50000 feet (0-15000 meters) Audible noise at 1 meter from surface of unit 46.00 dBA Online Thermal Dissipation 171.00 BTU/hr

*Except where noted, all prices are Estimated Resale Price (ERP) - Without Tax/VAT. Pricing in other locations and sites may vary.

**The time to recharge to 90% of full battery capacity following a discharge to shutdown using a load rated for 1/2 the full load rating of the UPS.

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United States [Change]

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Smart-UPS

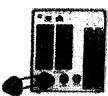
APC Smart-UPS 750VA LCD 120V











O More images

APC Smart-UPS, 500 Watts / 750 VA,Input 120V / Output 120V, Interface Port DB-9 RS-232, Smart-Slot, USB

Includes: CD with software, Documentation CD, Smart UPS signalling RS-232 cable, USB cable

Standard Lead Time: Usually Ships within 2 Weeks

Be the first to write a review.

Technical Specifications

- Product
 Overview
- Documentation
- . Software &

Firmware

- Options
- Compare Models
- Ratings and Reviews

Output Output Power Capacity 500 Watts / 750 VA Max Configurable Power 500 Watts / 750 VA

Nominal Output Voltage 120V

Output Voltage Distortion
Less than 5% at full load
Output Frequency (sync to mains)
47 - 53 Hz for 50 Hz nominal,57 - 63 Hz for 60 Hz nominal

Crest Factor up to 5:1 Waveform Type Sine wave **Output Connections** (6) NEMA 5-15R

Input

Nominal Input Voltage 120V Input Frequency 50/60 Hz +/- 3 Hz (auto sensing) Input Connections **NEMA 5-15P**

Cord Length 6 feet (1.83 meters) Input voltage range for main operations 82 - 144V Input voltage adjustable range for mains operation 75 - 154V

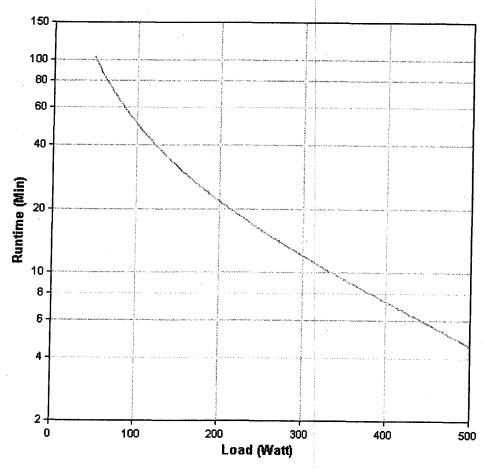
Batteries & Runtime

Runtime Graph

Battery Type
Maintenance-free sealed Lead-Acid battery with suspended electrolyte: leakproof Typical recharge time 3 hour(s) Replacement Battery RBC48 RBC™ Quantity





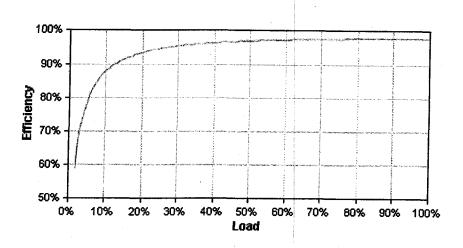


Hover over the line on the graph above to view the runtime at any desired load

Curve fit to measured runtime data. All measurements taken with new, fully charged batteries, at typical environmental conditions, with no electrical input and balanced resistive load (PF = 1.0) output.

<u>View View</u>
<u>EnlargedRuntime</u>
<u>Graph Chart</u>

Energy Use/Efficiency



Hover over the line on the graph above to view the efficiency at any desired load

Curve fit to measured runtime data. All measurements taken with new, fully charged batteries, at typical environmental conditions, with no electrical input and balanced resistive load (PF = 1.0) output.

View Enlarged Chart

Communications & Management Interface Port(s)

APC Smart-UPS 750VA LCD 120V DB-9 RS-232, Smart-Slot, USB Available SmartSlot™ Interface Quantity Control panel Multi-function LCD status and control console Audible Alarm Alarm when on battery: distinctive low battery alarm: configurable delays Emergency Power Off (EPO) Optional **Surge Protection and Filtering** Surge energy rating 540 Joules Filtering Full time multi-pole noise filtering: 0.3% IEEE surge let-through: zero clamping response time: meets UL 1449 **Physical** Maximum Height 6.20 inches (157 mm) Maximum Width 5.40 inches (137 mm) Maximum Depth 14.10 inches (358 mm) Net Weight 29.00 lbs. (13.18 kg) Shipping Weight 32.00 lbs. (14.55 kg) Shipping Height 11.42 inches (290 mm) Shipping Width 10.63 inches (270 mm) Shipping Depth 19.69 inches (500 mm) Color Black Units per Pallet 40.00 **Environmental** Operating Environment 32 - 104 °F (0 - 40 °C) Operating Relative Humidity 0 - 95% Operating Elevation 0-10000 feet (0-3000 meters) Storage Temperature 5 - 113 °F (-15 - 45 °C) Storage Relative Humidity 0 - 95% Storage Elevation 0-50000 feet (0-15000 meters) Audible noise at 1 meter from surface of unit 55.00 dBA Online Thermal Dissipation 90.00 BTU/hr Conformance

Regulatory Approvals

UL 1778

Standard Warranty

3 years repair or replace (excluding battery) and 2 year for battery

Equipment protection policy Lifetime: \$150000

Environmental Compliance

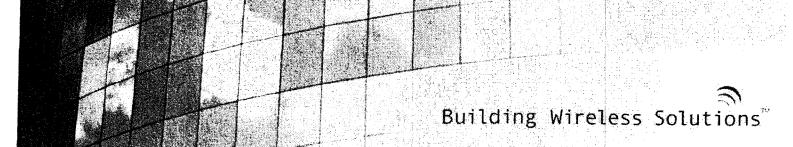
RoHS 7b Exemption

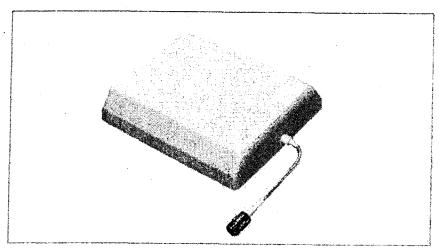
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**The time to recharge to 90% of full battery capacity following a discharge to shutdown using a load rated for 1/2 the full load rating of the UPS.

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>> INDOOR / OUTDOOR QUAD BAND PANEL ANTENNA

Mechanical Specifications

Materials

Case

Installation Kits

Operation Temperature

Dimensions

Antenna Weight

Mounting Hardware Weight

Connectors

Aluminum Alloy Stainless Steel

-55°C to +65°C

8.19" x 7.00" x 1.73" (208.01 x 177.8 x 43.9 mm)

1.32 lbs (0.599 Kg)

1.3 lbs (0.589 Kg)

N-Female

Electrical Specifications

Horizontal Beamwidth

Vertical Beamwidth

Polarization

Gain

Electrical Downtilt

Passband Ripple : Impedance

VSWR

Maximum Input Power

Lightning Protection

70° (698-894 MHz); 60° (1700-2200 MHz) 50° (698-894 MHz); 45° (1700-2200 MHz) 7 dBi (698-894 MHz); 10 dBi (1700-2200 MHz)

Vertical

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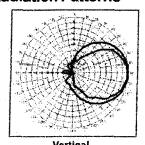
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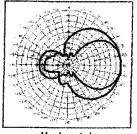
Direct Ground

Radiation Patterns



698-894 MHz

1700 - 2200 MHz



MODEL NUMBER

>> CSI-AP/698/2.2K/7-10

FREQUENCY RANGES

>> 698-894 MHz

>> 1700-2200 MHz

FEATURES & BENEFITS

>> Gain 7dBi (698-894 MHz)

Gain 10 dBi (1700-2200 mHz)

>> Multi-Band Design

>> Wall or Pole Mount Bracket Included

>> Flat Low Profile Enclosure

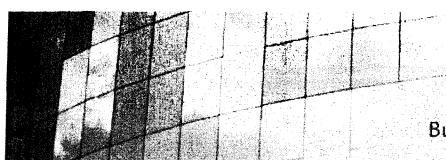
>> Clean Pattern

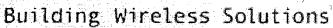
>> Weather Resistant Radome

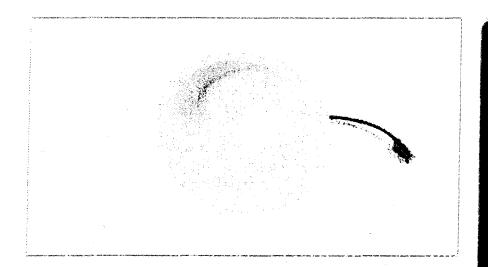


670 North Commercial Street Manchester, NH 03101 603.626 6677 Toll Free (USA); 1.877,844,4274 International: +1.603.626.6677 Fax: 603.626.6042

www.cellularspecialties.com







>> OMNIDIRECTIONAL ANTENNA / Quad-Band

Specifications

3 dBi VSWR (700-960MHz) <2.0:1 VSWR (1710-2500MHz) <1.5:1

E-Plane (3 dB beamwidth)

H-Plane (3 dB beamwidth) **Omnidirectional**

Vertical Polarization 50 Watts Power

8.13°D x 5.34°H / (206.38mm x 135.62mm) Dimensions

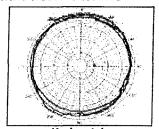
Weight .33 lb. / (0.15 Kg)

Connector N-Female Standard Mounting Style Ceiling Enclosure ABS

IM 3RD Order(2X43dBm) < -150 dBc Lighting Protection **Direct Ground**

Universal L-bracket included for additional mounting options (U-bolt compatible)

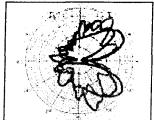
Radiation Patterns



rub Mitz







MODEL NUMBER

>> CSI-AO/700/2.5K/3

FREQUENCY RANGES

>> 700-960 MHz

>> 1710-2500 MHz

FEATURES & BENEFITS

>> 3 dBi Gain

>> Clean Pattern

>> Ceiling or Wall Mountable

>> Paintable Housing



CIO Nuovo Cumme eisi Street Mantheorer, ISA 93191

Toll Frew (USA): 1.877.844.4374 international: +1 #03.638.6677 Fax: 601.616.6047

www.cellularspecialties.com

Horizontal Date represents a ceiling mounted antenna Specifications subject to change without notice. Copyright © Callular Specialities, Inc. -021-0067-001 REV A ECC 1921

SOLID FIBER DAS PLATFORM SPECIFICATIONS

1900MHz PCS

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1700 & 2100 MHz AWS-1

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ROU (Remote Unit)

- Supports multi-band/ multi-carrier solutions
- Wife Land Mobile Radio (LMR)
 - m Detochable door hinge for ease of maintenance, m 19"Wx 20.8" H x 10.16 D
 - M Maximum Wolgist 78 lbs.



888,409,9997 / www.solidtech.us

SOLID FIBER DAS PLATFORM SPECIFICATIONS

Now offering Public Safety, 3G, 4G and WiFi on a converged platform in any sequence or combination – SOLID Technologies presents the most comprehensive Fiber DAS Platform ever built.

SOUD's fiber DAS Platform has a mimber of beneficial features:

Modular design permits easy, cost-effective expansion.

Up to 1 wait of Gutput Power.

All cellular and public safety frequencies supported including 700 MHz and AWS.

Requires only 1 strand of fiber to each remote

Advancad fillering technology for precise frequency control Waterproof, dust proof NEMA 4

Sophisticated Operation and Monitoring System for precise control

compliant remote enclosure

Very competitively priced

Contact us to learn more about how SOLID Technologies is setting the new standard for in-building Wireless coverage solution.



SOLID FIBER DAS PLATFORM SPECIFICATIONS

700MHz

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900MHz IDEN + Paging

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BIU (Base Interface Unit)

- BTS/80A interface for mulit-band support
 Signal distribution to
 39 remote units
 - # Full system alarning
- # 19"W x 8.75" H x 17.7" D
- # Maximum Weight 49 lbs.



ODU (Optical Distribution Unit)

- Range of 100 MHZ to 2.4 GHZ on a single strand of fiber
 - RF to Optic conversion
- Connects Bill with 8 ROUS
- #19"Wx1.72" Hx17.7 "D Maximum Weight 12.5 lbs.







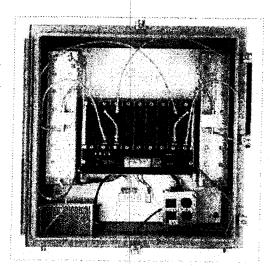


SIGNAL BOOSTER II 800 MHz Series

Mission Critical Reliability for In-building Coverage . . .

The New Signal Booster II provides Public Safety grade reliability and coverage in disadvantaged RF locations for First Responders, Public Safety/Governmental agencies and Private System Users. Reliable RF coverage is gained in basements, parking garages, correctional facilities, courthouses, hospitals, malls and schools. Other challenging environments covered by the Signal Booster II product include subways and rapid transit systems, airports, stadiums/ arenas, high-rise buildings and large private enterprise facilities and campuses.

Whether you are on the front line and depend on a reliable communication system or you are the systems integrator responsible for implementing a dependable system, this new compact design facilitates installation and system optimization for rock solid operation via a simple man-machine interface. Imbedded features for ease of initial setup include decoupled



test points for signal level detection, menu driven gain setting, front panel LED monitors for amplifier and power status, and an at-a-glance LED bar graph to indicate relative level of Output Level Control (OLC). Additionally, this product offers a unique on-board OLC DataLog feature that archives a User Signal Profile to facilitate optimum system configuration and performance.

Output Level Control (OLC) Circuit Monitors and Controls RF Output Power

- Maintains maximum required output power while preventing damage and excessive emissions per FCC requirements
- · Easy-to-read LED bar graph
- Unique OLC DataLog feature facilitates system maintenance and optimization

Decoupled RF Test Points For Simplified Service

- Allow fast system measurements in both uplink and downlink directions
- · Monitor signals for performance optimization
- · Integrated design facilitates non-intrusive measurements

Secure, Non-Vented NEMA Enclosure Suitable for Extreme Indoor and Outdoor Environments

Simple Setup is Achieved Via an Integral, Man-Machine Interface

No Tools Required

Optional Features Available

- · Comm Card II for remote communications and control
- · Fiber optic link interface
- · Redundant PA configuration
- -48 VDC input

DC Backup Interface Accepts +24 to +27 VDC and optional -48 VDC

Microprocessor Controlled Fault Monitoring and Alarming Ensures Reliable Operation and Flexible Configuration

- Control system continuously monitors parameters including voltage, current, temperature and OLC activity
- LEDs on each module quickly annunciate source of fault
- · Simple, back-lit liquid crystal display (LCD) and switch control
- Fault triggers annunciation on panel, alarm contact closure and internal recording of failed subsystem

Card Cage Modularity

- · Easy "slide-in" replacement process
- · Facilitates ease of service and system configuration

High Performance Bandpass Filters

- Configured to customer requirements and addresses many specifications requiring custom passbands
- Models available with passbands that range from 3 MHz (NPSPAC with excellent out-of-band rejection) to 18 MHz for full band coverage

Programmable Gain Setting

- · Ease of initial configuration via front panel
- When used in conjunction with OLC DataLog, simplifies post installation adjustments

Three Major Gain Ranges Available

Low:+ 45 dB, Medium:+ 60 dB, High:+ 80 dB



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SIGNAL BOOSTER

SPECIFICATIONS 806 - 869 MHz

	Low Gain (In-Line) Booster	Medium Gain Booster	High Gain (Head-End) Booster
Minimum Gain***	+45 dB	+60 dB	+80 dB
Gain Adjustment	Programmable attenuation,	Programmable attenuation,	Programmable attenuation,
	0-30 dB, 0.5 dB steps	0-30 dB, 0.5 dB steps	0-30 dB, 0.5 dB steps
3rd Order Output Intercept Point	+55 dBm minimum, with no attenuation	+55 dBm minimum, with no attenuation	+55dBm minimum, with no attenuation
Maximum Input Level	0 dBm	0 dBm	0 dBm
Maximum Output Power	+30 dBm (single carrier)	+30 dBm (single carrier)	+30 dBm (single carrier)
RF Sampler	PA Output sampler ports	PA Output sampler ports	PA Output sampler ports
Noise Figure (without attenuation)***	6.5 dB maximum,	3.5 dB maximum,	3.5 dB maximum,
Propagation Delay***	<1 µs	<1 µs	<1 µs
Operating Temperature Range	-30°C to +50° C	-30°C to +50° C	-30°C to +50° C
Nominal impedance	50 ohms, <1.5:1 VSWR	50 ohms, <1.5:1 VSWR	50 ohms, <1.5:1 VSWR
Input/Output connectors	N female	N female	N female
RF Sampler Connectors	BNC female	BNC female	BNC female
AC Power Input	100-240 VAC; 50-60 Hz	100-240 VAC; 50-60 Hz	100-240 VAC; 50-60 Hz
DC Input Voltage	+24 to +27 VDC,-48 VDC optional	+24 to +27 VDC -48 VDC optional	+24 to +27 VDC -48 VDC optional
Unit Power Consumption (AC/DC)	<100 VA	<100 VA	<100 VA
Housing*	See Model Matrix Below	See Model Matrix Below	See Model Matrix Below
lominal size	24" x 24" x 8"	24" x 24" x 8"	24" x 24" x 8"
let weight	< 85 lbs.	< 85 lbs.	< 85 lbs.
CC Certification****	EZZ5P1031202	EZZ5PI031202	EZZ5PI031202
ndustry Canada Certification****	1940A-Pl031202	1940A-P1031202	1940A-PI031202

For NPSPAC unit: Propagation delay: <1.5 µs; Gain: +77 dB for High Gain unit; Max NF: 10 dB for low gain units, 8 dB for High and Mid Gain unit

800 MHz Signal Booster II Model Matrix

Model Number*	Passbands	Gain
61-89A-50-A03-XX	**NPSPAC 3MHz BW (Customer defined)	77 dB
61-89A-50-B03-XX	**NPSPAC 3MHz BW (Customer defined)	60 dB
61-89A-50-C03-XX	**NPSPAC 3MHz BW (Customer defined)	45 dB
61-89A-50-A05-XX	5 MHz BW (Customer defined)	80 dB
61-89A-50-B05-XX	5 MHz BW (Customer defined)	60 dB
61-89A-50-C05-XX	5 MHz BW (Customer defined)	45 dB
61-89A-50-A06-XX	6 MHz BW (Customer defined)	80 dB
61-89A-50-B06-XX	6 MHz BW (Customer defined)	60 dB
61-89A-50-C06-XX	6 MHz BW (Customer defined)	45 dB
61-89A-50-A10-XX	10 MHz BW (Customer defined)	80 dB
61-89A-50-B10-XX	10 MHz BW (Customer defined)	60 dB
61-89A-50-C10-XX	10 MHz BW (Customer defined)	45 dB
61-89A-50-A15-XX	15 MHz BW (Customer defined)	80 dB
61-89A-50-B15-XX	15 MHz BW (Customer defined)	60 dB
61-89A-50-C15-XX	15 MHz BW (Customer defined)	45 dB
61-89A-50-A18-XX	18 MHz BW (806-824 / 851-869 MHz)	80 dB
61-89A-50-B18-XX	18 MHz BW (806-824 / 851-869 MHz)	60 dB
61-89A-50-C18-XX	18 MHz BW (806-824 / 851-869 MHz)	45 dB

^{*} Housing Options = XX: G1:Painted Steel NEMA 4, G2:Stainless Steel NEMA 4X, RM:19 inch Rack Mount (Frequencies MUST be provided with order.)

Please consult factory 716.549.4700 for non-standard configurations with custom frequency windows, bandwidths or enclosures.

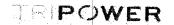


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^{*****} Class B Type Booster. Certification under FCC Rules Part 90 and Industry Canada Certification Part RSS-131.

^{**}NPSPAC downlink filter provides >38 dB of rejection ±1 MHz from the passband edge (either side).



Southern California Public Safety REFERENCE ACCOUNTS

450MHz projects:

Americana at Brand – Glendale, CA Contact: Peter Hayden (Caruso Affiliated) Telephone: (323) 900-8100

Athen's Sheriff Station - Los Angeles, CA

Contact: Ted Pao (Los Angeles County Communications)

Telephone: (323) 821-0189

LAPD Metro Detention Center - Los Angeles, CA (in progress)

LA Port Authority Harbor Police Administration Building - San Pedro, CA (in progress)

LAPD West 77th Street Jail – Los Angeles, CA (in progress)

800MHz projects:

Wyndham Vacation Resorts, Inc. — Redmond, WA Wyndham Resort and Hotel - Oceanside, CA Contact: Josh Frantz (Davis Reed Construction) Telephone: 760-802-3103

Classic Residence by Hyatt - Chicago, IL La Jolla Towers - San Diego, CA

Contacts: Jas Podgurski - Director of Engineering

Telephone: 858-646-3465

Corporate Contact: Akanni Salaka - Senior IT systems manager

Telephone: 312-404-9592

Hanover West, Inc. – Burbank, CA Platinum Centre Project - Anaheim, CA Contact: Jorge Morales - Superintendent

Telephone: 714-448-1674

Lennar - Aliso Viejo, CA

Central Park West - Belvedere and Lennox - Irvine, CA Contact: Gary Hildabrand - Director of Urban Development

Telephone: 949-349-8158

Avalon Bay Communities – Newport Beach, CA Anaheim Stadium – Anaheim, CA Contact: John Severino - Sr. Project Manager

Telephone: 949-955-6211

OWR Construction – Irvine, CA
The Plaza at Irvine I and II – Opus West – Irvine, CA
Contact: Brian Knochenhauer – Project Manager
Telephone: 949-250-0147

Swinerton Builders – Irvine, CA Worldmark Tower – Anaheim, CA Contact: Sumesh Behl – Project Manager Telephone: 949-622-7000

Regency Tower (Riverside County District Attorney headquarters) – Riverside, CA (450MHz, 700MHz and 800MHz)

Contact: Jason Rich - Senior Project Manager (Snyder-Langston Construction)

Telephone: (951) 683-6331



REFERENCE PROJECTS

Tri-Power has installed more than 800 Distributed Antenna Systems (DAS) providing over 200 million square feet of extended wireless coverage to indoor environments insufficiently serviced by existing networks. We work with public safety officials, building owners, businesses and wireless carriers to create seamless coverage for cellular, PCS, 802.11a/b/g and Public Safety where it's needed most.

Kemper Development Company

Lincoln Square (Bellevue, WA) 800 MHz Public Safety, Sprint-Nextel & WiFi 1.5 million sq. ft.

Peace Health

Sacred Heart Medical Center (Eugene, OR) 800 MHz Public Safety, Cellular/PCS & WiFi 1.4 million sq. ft.

Dept. of Veteran Affairs Hospitals

Secramento, Reno, Fresno and Travis AFB 800 MHz Nextel 1.0 million sq. ft.

City and County of San Francisco

County Jail #3 (San Bruno, CA) 800 MHz Public Safety 350,000 sq. ft.

John Muir Medical

Hospital Buildings (Walnut Creek, CA) 800 MHz Nextel and Sprint 300,000 sq. ft.

Bay Area Regional Transit

BART Stations & Tunnels (San Francisco, CA)
Cellular/PCS coverage
1.0 million sq. ft.

State of Utah

The Capitol Building (Salt Lake City, UT)
Public Safety, Cellular/PCS & WiFi (802.11 b/g)
150,000 sq. ft.

Washoe School District

Six Middle and High Schools (Reno, NV) 800 MHz Public Safety 550,000 sq. ft

UC Davis

Veterinary Hospital and Vet Med 2 (Davis, CA) 800 MHz Nextel & WiFi 150,000 sq. ft.

Alameda County Medical Center

Emergency Area (Oakland, CA) 800 MHz Nextel 400,000 sq. ft.

Laguna Honda Hospital

San Francisco, CA Outdoor Channelized Repeater 800 MHz Nextel

Santa Clara Valley Medical Center

San Jose, CA 800 MHz Nextel coverage 75,000 sq. ft.

Kaiser Permanente

1550 Edgemont Facility (Los Angeles, CA) 800 MHz Nextel, Sprint, Verizon and 450MHz Public Safety 250,000 sq. ft.

Kaiser Permanente

100 S Los Robles Facility (Pasadena, CA) 800 MHz Nextel 50,000 sq. ft.

Kaiser Permanente

700 Lawrence Expressway (Santa Clara, CA) Nextel, Sprint, Verizon, paging and 1st Responder 650,000 sq. ft.

Kaiser Permanente

501 Sand Creek Road (Antioch, CA) VHF Public Safety, Nextel, Sprint and Verizon 570,000 sq. ft.

Americana at Brand

Glendale, CA 450MHz Public Safety 178,000 sq. ft.

Worldmark

Anaheim, CA 800 MHz Public Safety 280,000 sq. ft.

Hyatt Classic Residence

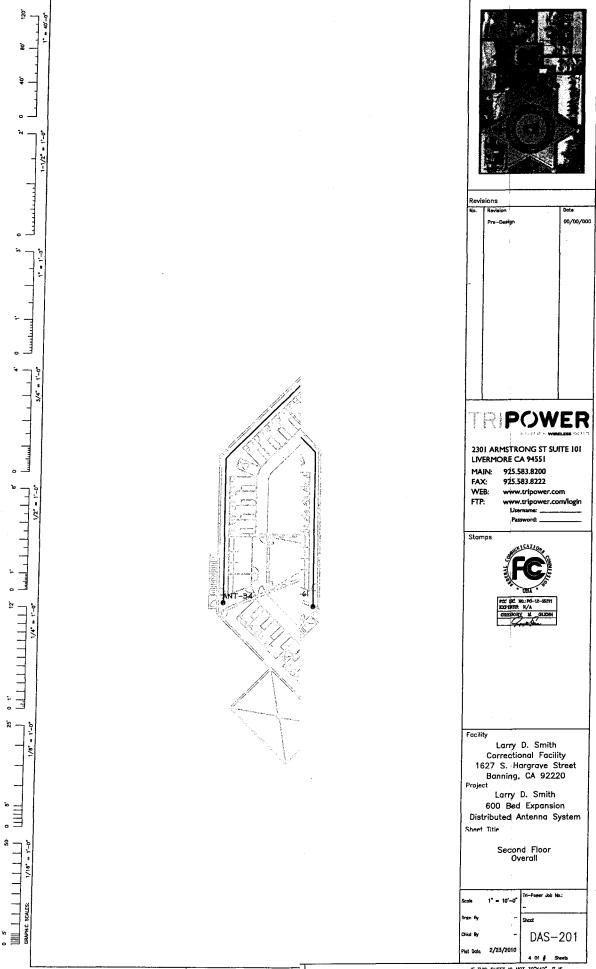
La Jolla, CA 800MHz Public Safety, Sprint-Nextel, T-Mobile, Verizon, AT&T, and WiFi 439,000 sq. Ft.

The Plaza (Opus)

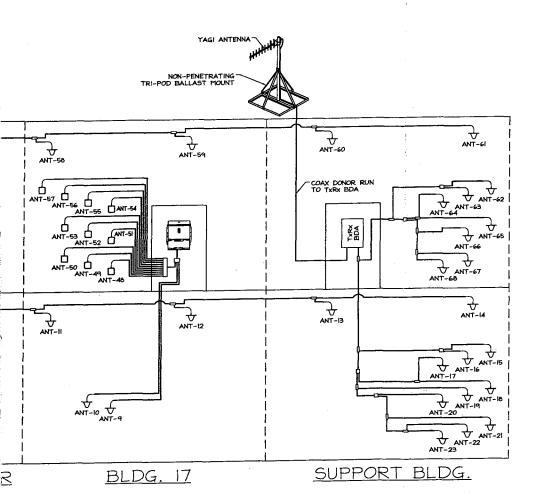
Irvine, CA 800MHz Public Safety 240,000 sq. ft.

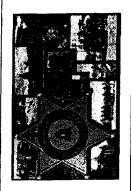
Pacific Life

Aliso Viejo, CA 800MHz Public Safety 5,000 sq. ft.



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RevisionS

No. Revision Date
Pre-Dealgn 00/00/000

POWER

2301 ARMSTRONG ST SUITE 101 LIVERMORE CA 94551

MAIN: 925.583.8200 FAX: 925.583.8222

WEB: www.tripower.com FTP: www.tripower.com/login

Username: ______
Password: _____

Stamps



PCC UC. NO.:PC-12-1587/ EXPTRES: N/A dredory M. GLENN

Facility

Larry D. Smith Correctional Facility 1627 S. Hargrave Street Banning, CA 92220

roject

Larry D. Smith 600 Bed Expansion Distributed Antenna System Sheet Title

Coaxial Riser Diagram

Scale 1° = 15'-0° Til-Preer Jeh No.

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Plot Date 2/23/2010 2 07 4 Sneets