Form # P 04 DISPLAY THIS CARD ON PRINCIPAL FRONT	TAGE OF WORK
Please Read Application And Notes, If Any,	
Attached PERMIN	Permit Number: 080884
This is to certify thatCHARTER_WESTGATE L	PERMIT ISSUED
has permission to Vacant Space for furture retainenant - in normalians	
AT _1372 CONGRESS ST 191	B019001 JUL 3 1 2003
of the provisions of the Statutes of Laine and of the Proviances of	this permit shall comply with all t the City of Portland regulating s, and of the application on file in
Apply to Public Works for street line and grade if nature of work requires such information.	A certificate of occupancy must be procured by owner before this build- ing or part thereof is occupied.
OTHER REQUIRED APPROVALS Fire Dept.	
Health Dept Appeal Board	$\sim \Lambda_{0}$
Other Department Name	Oma Manuelly 7/31/08 Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

,

City of Portland, Maine	- Building or Use	Permit Application	a Permit No:	Issue Date:	CBL:		
389 Congress Street, 04101	0	**			191 B019001		
Location of Construction:	ocation of Construction: Owner Name:				Phone:		
1372 CONGRESS ST	CONGRESS ST CHARTER WESTGATE LLC			800 WESTCHESTER AVE STE S-63			
Business Name:	Contractor Name	2:	Contractor Address:		Phone		
	Zachau Const	ruction, Inc.	PO Box 1185 US I	Route One Freep	ort 2078659925		
Lessee/Buyer's Name	Phone:		Permit Type:		Zone:		
			Alterations - Com	mercial	6-6		
Past Use:	Proposed Use:		Permit Fee:	Cost of Work:	CEO District:		
Vacant Space Units 11 & 12		- Vacant Space for	\$1,595.00	\$150,000.00	3		
		enant - interior	FIRE DEPT:	Appioveu	ECTION:		
	renovations			Denied Use C	Group: M Type:		
			Secol	- logit	TPA - 17		
Proposed Project Description:			See Cond. Signature: Crea	TIONS _	LISC LOUS		
Vacant Space for furture retail	l tenant - interior renov	ations	Similar Contract	CLASS Signa	nature: 2 7/31/03		
v acant space for furture fetal.	renant - interior renova		PEDESTRIAN ACTIN				
			_				
			Action: Approve	a Approved v	w/Conditions Denied		
			Signature:		Date:		
Permit Taken By:	Date Applied For:	+	Zoning Approval				
ldobson	06/26/2008	Contraction Design	7		Historic Preservation		
1. This permit application de	-	Special Zone or Revie	or Reviews Zoning Appeal				
Applicant(s) from meeting Federal Rules.	g applicable State and	Shoreland			Not in District or Landmark		
2. Building permits do not in	nclude plumbing,	Wetland Miscellaneous		eous	Does Not Require Review		
septic or electrical work.							
3. Building permits are void		Flood Zone Conditiona		al Use	Requires Review		
within six (6) months of t False information may inv		Cut division	Interpretation		Approved		
permit and stop all work.		Subdivision		uon	Appioved		
1 1		Site Plan	Approved		Approved w/Conditions		
DEDINIT IS	SCHED	Maj 🗌 Minor 🗌 MM	Denied		Denied O		
PERMIT ISSUED		Nuchca			\rightarrow		
		Date: Al	Date:		Date:		
JUL 3 1	2008		110				
	•	• / -					
CITY OF PO	JKILAHU						
	- NNY						
		CERTIFICATI	ON				

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

00000 = 000000000000000000000000000000	- (AI' / / I / I X //I X //I X /II X HOV'/	20/) 8/4-8/	08-0884	06/26/2008	191 B019001
389 Congress Street, 04101			Owner Address:		
Location of Construction:		Owner Name:			Phone:
1372 CONGRESS ST	CHARTER WESTGATE LLC 800 WESTCHESTER AVE STE S-		ERAVE SIE S-63		
Business Name: Contractor Name: Contractor Address: Zachau Construction, Inc. PO Box 1185 US				Phone (2007) 8(5,0025	
Lessee/Buyer's Name	Inc.	PO Box 1185 US	Route One Freeport	(207) 865-9925	
Lessee Duyer S Mame	Phone:		Alterations - Com	mercial	
Proposed Use:			sed Project Description:		
-	for furture retail tenant - interio		ant Space for furture		r renovations
Dept: Zoning Sta	tus: Approved with Condition	s Reviewe	r: Marge Schmucka	al Approval D	ate: 06/27/2008
Note:	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF				Ok to Issue:
 Separate permits shall be r 	equired for any new signage				
work.	ved on the basis of plans submi	itted. Any dev	iations shall require a	a separate approval b	efore starting that
work.	tus: Approved with Condition		iations shall require a	a separate approval b Approval D	
work. Dept: Building Sta Note: 1) Separate permits are required	*	ns Reviewe	r: Tom Markley		ate: 07/31/2008
work. Dept: Building Sta Note: 1) Separate permits are require Separate plans may need to	itus: Approved with Condition red for any electrical, plumbing to be submitted for approval as d upon information provided by	ns Reviewe g, or HVAC syn a part of this pr	r: Tom Markley stems. rocess.	Approval D	ate: 07/31/2008 Ok to Issue: ⊻
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Comments:

7/22/2008-ldobson: This permit # was originally 080763 Deleted from system Routed back to marge and Cpt Cass for approvals Units 11& 12 Permit deleted from system re - entered

City of Portland, Maine - I 389 Congress Street, 04101 T	-			08-0763			101 BO	19001
		, 1 a. (207) 874-8	Owner A				Thone:	
Cation of Construction: Unitial 072 CONGRESS ST C 172 CONGRESS ST C				aaress: ESTCHES7	FER AVE S	STE 6-63	inone:	
Business Name:	Contractor Name	:	Contractor Address:			Phone		
	Zachau Constr	ruction, Inc.	PO Box	x 1185 US	Route One	Freeport	20786599	25
Lessee/Buyer's Name	Phone:		Permit T	ype:		57		Zone: 7
			Alterat	tions - Com	mercial	// `		B-L
Past Use:	Proposed Use:		Permit F	ec:	Cost of Wor		EO District:	<u></u>
Retail - Black Bear Medical	Vacant Space	- Vacant space for	\$1	1,595.00	\$ 150,00	0.00	3	
		future retail tenant - interior		EPT:	Approved	INSPECT	ION:	
	renovations			10	Denved	Use Grou) :	Type:
			See					
				nditig	fr8			
Proposed Project Description:					, 			
Vacant space for future retail ten	ant - interior renovat	ions	Signature		A33	Signature:		
			PEDEST	RIAN ACTI	VITIES DIST	RICT (P.A	D.)	
			Action		ed App	roved w/Co	nditions	Denied
			X	7	the car of			
		······································	Signature	······			ate:	
	te Applied For:		-01/	Zoning	Approva	l		
ldobson (06/26/2008	Secolal Zone on De		Zonin	a A notal		Historic Pres	
1. This permit application does		Special Zone or Re		2,0010	g Appeal		/	
Applicant(s) from meeting a Federal Rules.	pplicable State and	Shoreland		Variance			Not in Distric	t or Landmar
2. Building permits do not incluse septic or electrical work.	ude plumbing,	Wetland		Miscellar	neous	Does Not Require Rev		quire Review
3. Building permits are void if within six (6) months of the		Flood Zone	Conditional Use Requ		Requires Rev	iew		
False information may invali permit and stop all work	date a building	: Subdivision		Interpreta	ation	•	Approved	
		Site Plan		Approve	i		Approved w/	Conditions
		Maj Minor M	м	– Denied		1	Denige	
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	/							
	/	CERTIFICAT	TION					
hereby certify that I am the owned								
have been authorized by the own								
urisdiction. In addition, if a perm								
hall have the authority to enter a nuch permit.	areas covered by Si	ion permit at any reas	unable hou	ir to enforce	e me provi	sion of th	e code(s) ap	incable to

RESPONSIBLE PERSON	IN CHARGE OF WORK, TITLE

~ ~~

DATE

PHONE

BUILDING PERMIT INSPECTION PROCEDURES Please call 874-8703 or 874-8693 (ONLY) to schedule your inspections as agreed upon Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

A Pre-construction Meeting will take place upon receipt of your building permit.

Framing/Rough Plumbing/Electrical: Prior to Any Insulating or drywalling X

X Final/Certificate of Occupancy: Prior to any occupancy of the structure or use. NOTE: There is a \$75.00 fee per inspection at this point.

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects DO require a final inspection.

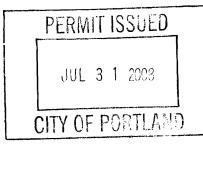
If any of the inspections do not occur, the project cannot go on to the next phase, **REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.**

CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED.

Signature of Applicant/Designee

Date

Signature of Inspections Official



CBL: 191 B019001 Building Permit #: 08-0884



Memorandum Department of Planning and Development Planning Division

 To: Phil DiPierro, Development Review Coordinator Assessors Office Leslie Kaynor, Department of Public Services Mike Farmer, Department of Public Services Todd Merkle, Department of Public Services Jeff Tarling, Department of Public Services Marge Schmuckal- Zoning Administrator
 From: Molly Casto, Planning Division

Date: July 24, 2008

Re: Westgate Shopping Center- 1354-1422 Congress Street Distribution of Final Plans Application #: 2008-0027 CBL: 191 B019001

Attached are the final approved plans for the Westgate Shopping Center. Please note the following:

(1) The Planning Board approved the project subject to the following condition of approval:

Once a tenant for the restaurant has been identified, the applicant must submit final site plans and elevation drawings for the proposed development of Lot 3 for review and approval by the Planning Board prior to the issuance of a building permit. As part of the site plan review, the applicant shall submit information relating to Section 14-183 (a) (6) of the City Code demonstrating that the proposal for Lot 3 complies with zoning requirements, as determined by the City Zoning Administrator.

The attached final plans have lot 3 shaded out and the above condition of approval printed on the plan. The applicant has submitted an application for a site plan amendment for lot 3 to address the above condition. Once the Board has approved the revised layout of lot 3, approved plans for those changes will be distributed separately. The amended site plan for Lot 3 is listed in Urban Insight under application # 2008-0113.

(2) The existing conditions plan and boundary survey, as contained in the electronic CAD files on the CD have been updated to tie into the vertical datum of NGVD 1929 and to the Maine State Plane Coordinate System (2-zone projection), West Zone using the NAD 1983 (HARN) Datum and the U.S. Survey Foot as the unit of measure.

Feel free to contact me if you have any questions.

12.1.1.ts /1 812



General Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: 1377	CONGRESS ST, WESTG	ATE SHOPPINE COUTER			
Total Square Footage of Proposed Structure/A	rea Square Footage of Lot				
Tax Assessor's Chart, Block & Lot Chart# Block# Lot#	Applicant * <u>must</u> be owner, Lessee or Buye Name CHARTENT REALTY E	DEVELOAMENT CORP			
191 B 19	Address 800 WESTCHEREN AV	C, SUITE S-632			
	City, State & Zip RVE BIZOOL, NY	10573 (914)-701-4007			
Lessee/DBA (If Applicable)	Owner (if different from Applicant)	Cost Of Work: \$ 150,000			
	Name	Work: \$			
	Address	C of O Fee: § 75			
	City, State & Zip	Total Fee: \$			
Current legal use (i.e. single family) VALANT Black bear Medical If vacant, what was the previous use? RETAIL Proposed Specific use: Formily RETAIL Is property part of a subdivision? Ne If yes, please name Project description:					
Vendle space - shert mells, bethrows air handler for fature retail space, no finistes certings etc.					
Contractor's name: ZACHAJ COL	STRUCTURE INC				
Address: P.C. BOXJ, 1185 U.S. ROUTEI					
City, State & Zip FREEPERF Mi	<u>с403 с</u> то	elephone: 865-9925			
Who should we contact when the permit is read					
Mailing address: P.C. Box J. F					

Please submit all of the information outlined on the applicable Checklist. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at <u>www.portlandmaine.gov</u>, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

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Signature:		, ب	br	Date: 💪	24	63			\$ 7	
	This	is/1	pt a permit; you may not	commence AN	Ywor	k until the	e permit is	issue		
/				,			•		1 .	
,		V							1	

	esign Application
From Designer:	INCSON
Date: 6-24.08	
Job Name: WESTGATE SHOPPING	Canger - FRONT RETAIL
	•
Address of Construction: <u>1372</u>	•
2003 International	0
Construction project was designed to the	he building code criteria listed below:
Building Code & Year BC 2005 Use Group Classification	MERCANTILE GRAP M
$\frac{1}{2N}$	
	S I DOG 2 1 GIL 2002 IDC YES
Will the Structure have a Fire suppression system in Accordance with	
s the Structure mixed use? If yes separated or non se	a. 4
Supervisory alarm System?Geotechnical/Soils report	required? (See Section 1802.2)
Structural Design Calculations	Live load reduction
Submitted for all structural members (106.1 – 106.11)	Roof <i>live</i> loads (1603.1.2, 1607.11)
Design Loads on Construction Documents (1603)	Roof snow loads (1603.7.3, 1608)
Design Loads on Construction Documents (1603) Jniformly distributed floor live loads (7603.11, 1807)	Ground snow load, Pg (1608.2)
Floor Area Use Loads Shown	If $Pg > 10$ psf, flat-roof snow load β
	If $Pg > 10$ psf, snow exposure factor, $_{G}$
	If $Pg > 10$ psf, snow load importance factor,
	Roof thermal factor, _G (1608.4)
	Sloped roof snowload, pr(1608.4)
Wind loads (1603.1.4, 1609)	Seismic design category (1616.3)
Design option utilized (1609.1.1, 1609.6)	Basic seismic force resisting system (1617.6.2)
Basic wind speed (1809.3)	Response modification coefficient, _{RJ} and
Building category and wind importance Factor, ju table 1604.5, 1609.5)	deflection amplification factor _{Gl} (1617.6.2)
Wind exposure category (1609.4)	Analysis procedure (1616.6, 1617.5)
Internal pressure coefficient (ASCE 7)	Design base shear (1617.4, 16175.5.1)
Component and cladding pressures (1609.1.1, 1609.6.2.2)	Flood loads (1803.1.6, 1612)
Earth design data (1603.1.5, 1614-1623)	Flood Hazard area (1612.3)
Design option utilized (1614.1)	Elevation of structure
	Other loads
Seismic use group ("Category")	
Seismic use group ("Category") Spectral response coefficients, SD:& SD1 (1615.1)	Concentrated loads (1607.4)
	Concentrated loads (1607.4) Partition loads (1607.5)



Certificate of Design

6.24.08	

From:

Date:

DAN ELLINGSON

These plans and / or specifications covering construction work on:

HESTGATE SHOPPING CENTER - FRONT RETAIL

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the *2003 International Building Code* and local amendments.

	Signature	Dohl-
	Title:	ARCHIMET
(SEAL) CENSED ARCHIA	Firm:	HOPRINGEN
	Address:	AUBURN BURMER PAR
★ ELLINGSON No.2664		46 HARRIMAN DR. AUBURN, ME 04210
OF MAINE	Phone:	784 3700 04210

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov

Building Inspections Division • 389 Congress Street • Portland, Maine 04101 • (207) 874-8703 • FACSIMILE (207) 874-8716 • TTY (207) 874-8936

5



Accessibility Building Code Certificate

Designer:	DAN ELLINGSON
Address of Project:	1372 CONGRESS ST.
Nature of Project:	INTERPOR REMODEL OF FUTURE RETAIL SPACE I"
	IN WESTGATE STOPPING CENTER

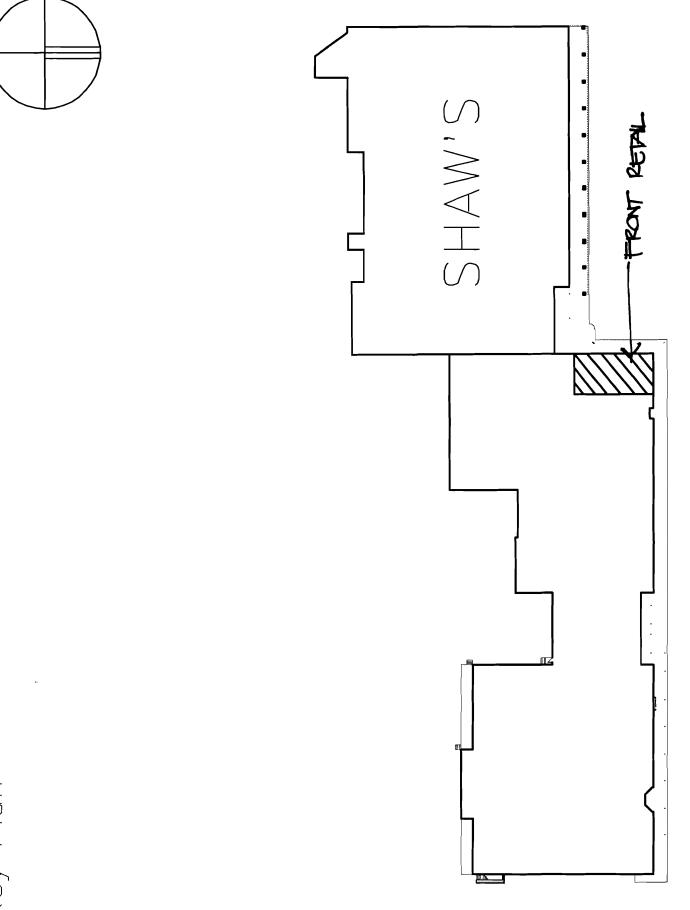
The technical submissions covering the proposed construction work as described above have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act. Residential Buildings with 4 units or more must conform to the Federal Fair Housing Accessibility Standards. Please provide proof of compliance if applicable.

	Signature:MIII-	
	Title:	
(SEAL)	Firm:	
(SEAL)	Address: ALBURN BUSINES PARK	
DANIEL R. DANIEL R. ELLINGSON ELLINGSON	46 HARRIMAN DR., AUBURN, ME	
* NO.L &	Phone: 784 5700	-40

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov

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3





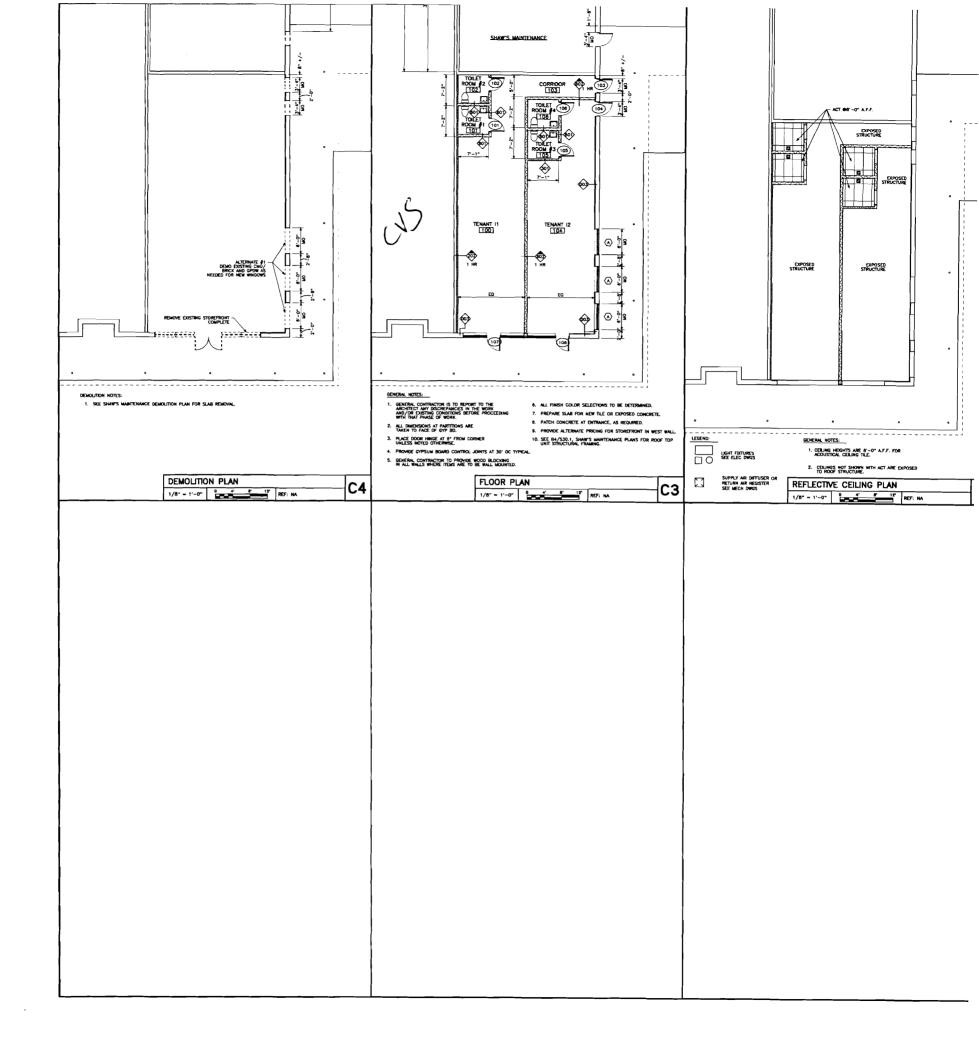
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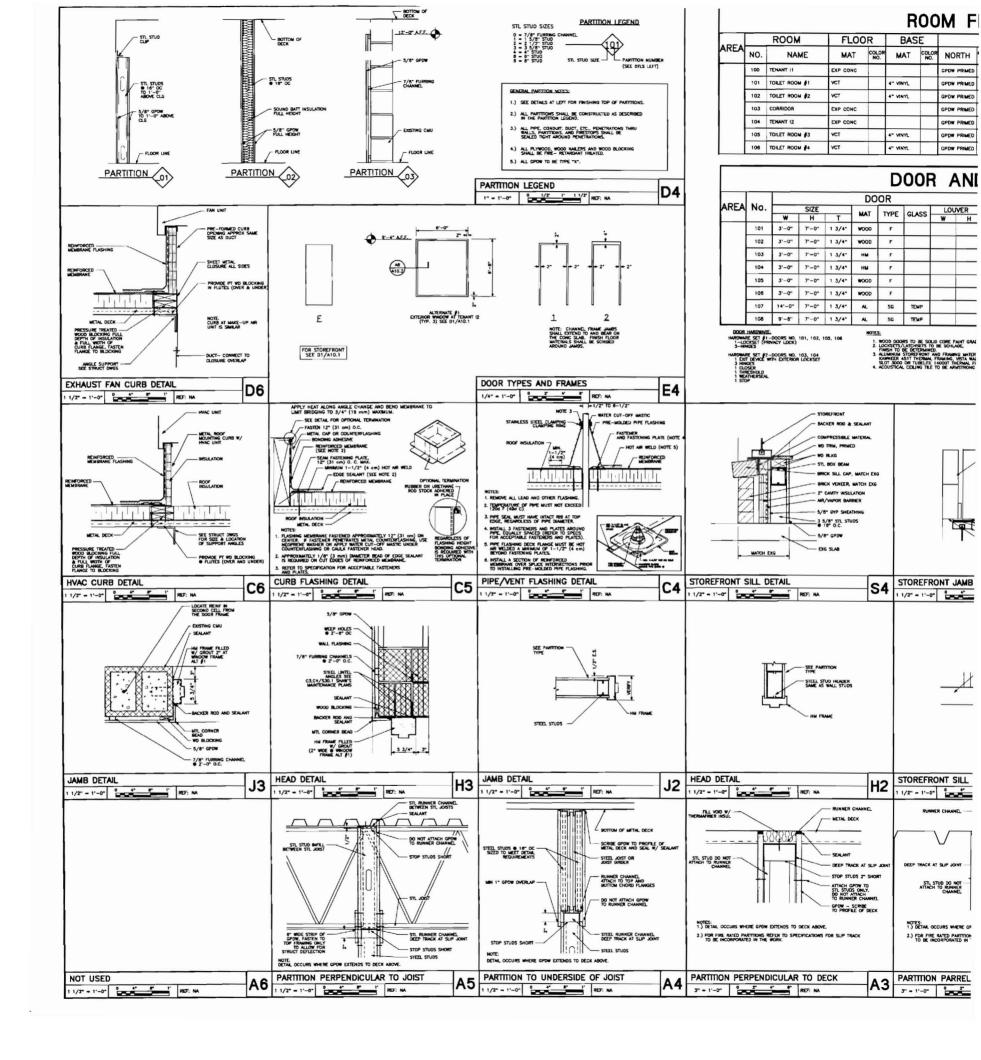
ISSUED FOR CONSTRUCTION 6/10/08

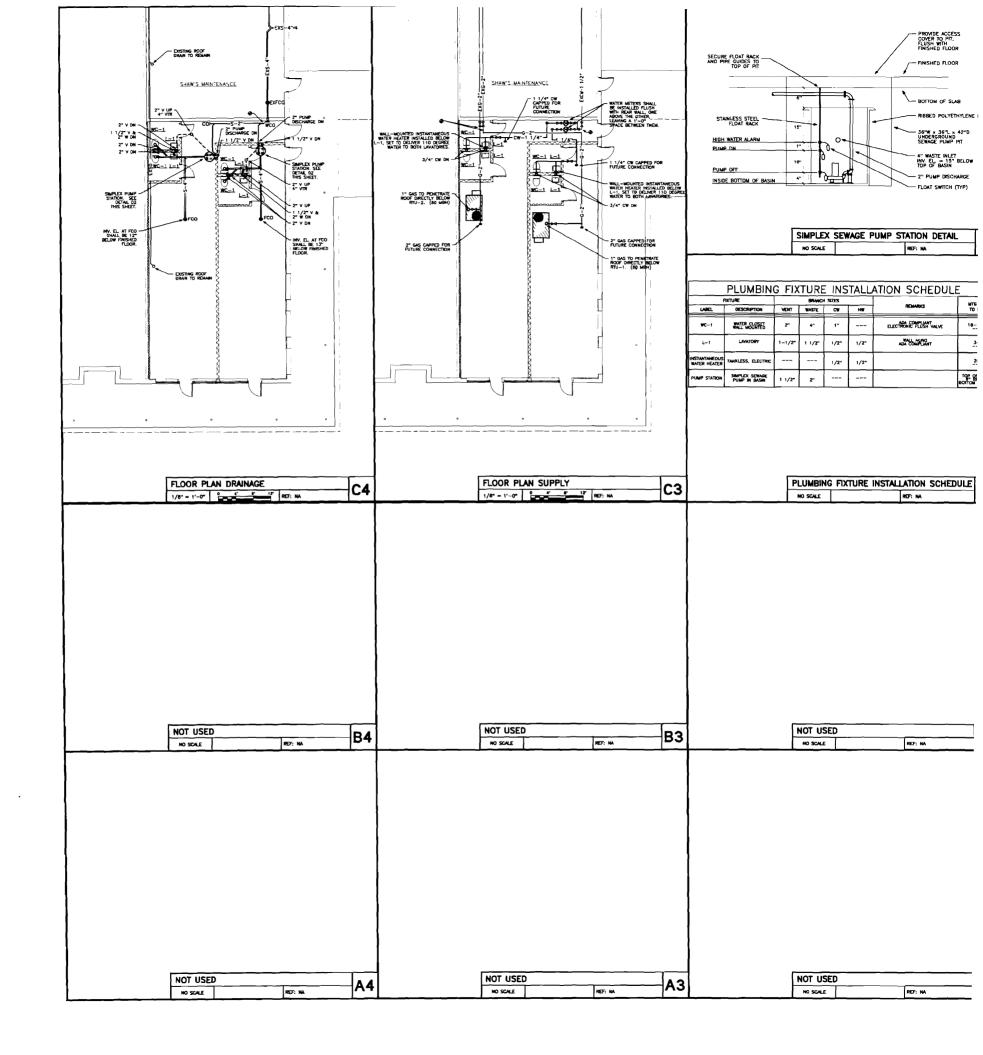
| H | A

SHOPPING CENTER FRONT RETAIL

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PD FOUNDATION DRAIN PJ PRESH AR INTAGE GA GACE, GAUGE GFM GALLOSS PER INIVITE GAV GALLOSS GB GAB BAR GFDW GATSSUM DATA H HARDENER HIG HARDING HARDENER HIG HARDING HARDENER HIG HARDING HARDENER HIG HARDING HARDENER HIG HARDING STALL H HARDENER HIG HARDING HARDENER HIG HARDING STALL HIG HARDING HARDENER HIG HARDING HARDENER HIG HARDING HARDENER HIG HARDING HARDENER HIG HARDING HARDENER HIG HARDING HARDENER HIG HARDING HARDENER HIG HARDING HIG HARDING	TOP TO POP FOOTNEL TOP OF STELL TO TOP OF STELL TO TOPAL LOAD UCT TO TOPAL STELL TO TOPAL STELL TO TOPAL STELL TO TOPAL STELL TO TOPAL STELL TO TOPAL STELL TO TOPAL STELL UD UNDERSONNO DUCTWORK URD UNTERSONNO DUCTWORK VERT VERTICAL VERT VERTICAL VERT VERTICAL VERT VENT FARING VERT FARING VERT VENT FARING VERT VENT FARING VERT FARING VERT FARING VERT FARING VERT FARING VERT FARING VERT FARING VERT FARING VERT FARING VERT FARIN	LEVEL LINE LEVEL LINE LEVEL LINE REVISION PROJECT NORTH (MAGNETIC NORTH / ON PLOT SITE PLAN
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SECTION 15410 PLUMBING - GENERAL PURPOSE PART 1 - GENERAL FURNISH ALL LABOR, EQUIPMENT, INVERIALS, AND TOOLS AND PERFORM ALL OPERATIONS IN COMMECTION WITH THE REVOLUTIONS AND ADDITIONS TO THE UNREDUCTION PERMATION OF RECORD DRAWINGS AND OWNERS MANUALS, QUARANTESS AND WARRANTES, PROTECTION OF WORK AND QUALITY ASSURANCE OF WORKMANSHIP.

- 1 ALL INSIE SMITLAY, COLD WATER, NO NATURAL GAS PIPMG. 1 ALL INSIE SMITLAY, COLD WATER, NO NATURAL GAS PIPMG. 2 RUNNING NATURAL CONSECTIONS TO TATURES AND DURING IN PROVIDED INSIE ALL NAL CONSECTIONS TO TATURES AND DURING IN PROVIDED INSIE ALL NAL CONSECTIONS OF THE SECTIONS OF THESE SPECTRATIONS INSIE ALL NOISENERS. IN CONSECTIONS OF THESE SPECTRATIONS AND INSIE ALL NOISENERS. IN CONSECTIONS OF THESE SPECTRATIONS AND INSIE ALL NOISENERS. IN CONSECTIONS OF THESE SPECTRATIONS AND INSIE ALL NOISENERS. IN CONSECTIONS OF THESE SPECTRATIONS AND INSIE ALL NOISENERS. IN CONSECTIONS OF THESE SPECTRATIONS AND ALL INSIE ALL NOISENERS. IN CONSECTIONS OF THESE SPECTRATIONS AND ALL INSIE ALL NOISENERS. IN CONSECTIONS OF THESE SPECTRATIONS AND ALL INSIE ALL NOISENERS. IN CONSECTIONS OF THESE SPECTRATIONS AND ALL INSIE ALL NOISENERS. IN CONSECTIONS OF THESE SPECTRATIONS AND ALL INSIE ALL NOISENERS. IN CONSECTIONS OF THESE SPECTRATIONS AND ALL INSIE ALL NOISENERS. IN CONSECTIONS OF THE SPECTRATIONS AND ALL INSIE ALL NOISENERS. IN CONSECTIONS OF THESE SPECTRATIONS AND ALL INSIE ALL NOISENERS. IN CONSECTIONS OF THESE SPECTRATIONS AND ALL INSIE ALL NOISENERS. IN CONSECTIONS OF THESE SPECTRATIONS AND ALL INSIE ALL NOISENERS. IN CONSECTIONS OF THE SPECTRATIONS AND ALL INSIE ALL NOISENERS. IN CONSECTIONS OF THESE SPECTRATIONS AND ALL INSIE ALL NOISENERS. IN CONSECTIONS AND ALL NOISENERS. IN CONSECTIONS AND ALL NOISENERS. IN CONSECTIONS AND ALL NOISENERS AND ALL NOISENERS. IN CONSECTIONS AND ALL NOISENERS. INCONSECTIONS AND ALL NOISENERS AND ALL NOISENERS. IN CONSECTIONS AND ALL NOISENERS. INCONSECTIONS AND ALL NOISENERS. IN CONSECTIONS AND ALL NOISENERS. INCONSECTIONS AND ALL NO
- RELATE COURSENT. 8. RELATE COURSENT. 8. RELATE SCHORE. 1. SECTION 1501C MECHANICAL GENERAL REQUIREMENTS 3. SECTION 1501C MECHANICAL DEMINERATION. 5. SECTION 15500 PLUBURG COMPLEXIT. 6. DMSDM 16 ELECTRC.
- 1.02 SUBMITTALS
- A. SHOP DRAWINGS: 1. PREPARE AND SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH THE ARCHITECTS APPROVAL REFORE PROCEEDING WITH THE FABRICATION AND ARCHITECTS APPROVAL REFORE PROCEEDING WITH THE FABRICATION AND ARCHITECTS APPROVAL

- ANGUNETTS APPROVIL BESTALE PROCEEDING WITH THE FABRICATION AND WERE ALL SCHLIMMENS PATALES AND ADD COMMONING, BELATONSHIP TO STITLER WORK, AND INVOLVE FRISHES. ALL INTURES OF THE SAME METHAN (CHM, STANLESS STELL PREPRASES OF THE SAME MANUFACTURES, MANUFACTURES, ALL ARBERTS SHALLS BY OF THE SAME MANUFACTURER. SHAP DAMARKS AND CALLS SHALL INDICATE SPECIFICATION SECTION ALL AURILIES TOTALES. SHAP DAMARKS AND CALLS SHALL INDICATE SPECIFICATION SECTION A PLUBBIES TOTALES.
- B. SAMPLET: SUBILIT ALL SAMPLETS AS REQUESTED BY THE ARCHITECT OF MATERIALS SPECIFIED HERDIN IN ACCORDANCE WITH REQUIREMENTS OF THE CONDITIONS OF DEPARTMENT DEFORCE ORDERING UNITARIALS, OBTAIN WITTERN APPROVAL FROM THE ARCHITECT DEFORCE ORDERING UNITARIALS, OBTAIN WITTERN APPROVAL FROM THE ARCHITECT DEFORCE ORDERING UNITARIALS, OBTAIN WITTERN APPROVAL FROM THE ARCHITECT DEFORCE ORDERING UNITARIALS, OBTAIN WITTERN APPROVAL FROM THE ARCHITECT DEFORCE ONDERING UNITARIALS, OBTAIN WITTERN APPROVAL FROM THE ARCHITECT DEFORCE ONDERING UNITARIALS, OBTAIN WITTERN APPROVAL FROM THE ARCHITECT DEFORCE ONDERING UNITARIALS, OBTAIN WITTERN APPROVAL FROM THE ARCHITECT DEFORCE ONDERING UNITARIALS, OBTAIN WITTERN APPROVAL FROM THE ARCHITECT DEFORCE ONDERING UNITARIALS, OBTAIN WITTERN APPROVAL FROM THE ARCHITECT DEFORCE ONDERING UNITARIALS, OBTAIN WITTERN APPROVAL FROM THE ARCHITECT DEFORCE ONDERING UNITARIALS, OBTAIN WITTERN APPROVAL FROM THE ARCHITECT DEFORCE ONDERING UNITARIALS, OBTAIN WITTERN APPROVAL FROM THE ARCHITECT DEFORCE ONDERING UNITARIALS, OBTAIN WITTERN APPROVAL FROM THE ARCHITECT DEFORCE ONDERING UNITARIALS, OBTAIN WITTERN APPROVAL FROM THE ARCHITECT DEFORCE ONDERING UNITARIALS, OBTAIN WITTERN APPROVAL FROM THE ARCHITECT DEFORCE ONDERING UNITARIALS, OBTAIN WITTERN APPROVAL FROM THE ARCHITECT DEFORCE ONDERING UNITARIALS, OBTAIN WITTERN APPROVAL FROM THE ARCHITECT DEFORCE ONDERING UNITERNAL FROM THE ARCHITECT DEFORCE ONDERING UNITERNAL FROM THE APPROVAL FROM THE ARCHITECT DEFORCE ONDER ARCHITECT ON THE APPROVAL FROM THE APPROVAL FROM THE ARCHITECT ON THE ARCHITECT
- C. PRODUCT GUARANTEES AND WARRANTIES: PROVIDE MINUFACTURERS STANDARD GUARANTEE (WARRANTY FOR ALL PRODUCTS PROVIDED IN THIS SECTION...
- PART 2 PRODUCTS
- ALL PRODUCT MODEL NUMBERS USED REFERENCE THE FIRST MANUFACTURER LISTED FOR THE APPROPRIATE ITEM. A. WATER CLOSETS: AMERICAN STANDARD, KOHLER OR BRIGGS.
- B. TOILET SEATS: CHURCH, BEMIS OR BENEKE.
- LAVATORIES: AMERICAN STANDARD OR KOHLEF
- D. FAUCETS: 1. LAVATORY: CHICAGO, T & S, SPEAKMAN. E. CLEANOUTS: ZURN, WATTS, MIFAB, JOSAM, OR J. R. SMITH
- F. VALVES: 1. BALL: MILWAUKEE, APOLLO, NIBCO OR CRANE. 2. GATE: MILWAUKEE, NIBCO OR CRANE. 3. CHECK: MILWAUKEE. NIBCO OR CRANE.
- G. FIRE STOP SEALANT: SPECSEAL FIRESTOP PRODUCTS OR EQUAL.
- H. TRAPS AND SUPPLIES:
- 2.02 MATERIALS
- 2.02 WALLENGT, AND VERT PRPHICE. 1. OWERT, AND VERT PRPHICE. 1. WALLENGT, AND VERT PRPHICE. 1. WALLENGT, AND THIS COLLECTION TO ASTH STAULAND STEPCHATORS, UNIT ADDR CROWNER SULL CONFORM TO ASTH STAULAND STEPCHATORS, UNIT ADDR CROWNER SULL CONFERSION CONTROL STEPCHATORS, UNIT ADDR CROWNER SULL CONFIRMENT CONTROL STEPCHATORS, UNIT ADDR CROWNER SULL CONFIRMENT CONTROL SULL BE COMPRESSION GARANTS. 2. SCHOLD SULL BE COMPRESSION GARANTS. 3. DOUBLE BRANCH CONNECTORS 27 AND SMALLER SHALL BE MORE WITH DOUBLE WER STITULE.
- B. COLD WATER, PENG: 1. ADVEST TOWNS STATE: SNALL BE TYPE "1," MARD-DRAWN COPPER TUBING A WIT NOUCHT COPPER, SALDER-TYPE /TTINKS: MARDWAT EXPOSED PRIME AT FATURES SNALL BE IPS COPPER. CAST REASS THREADED OTTINGS. ALL PINSHED AND CHROME-PARED. UNLESS OTHERMSE
 - INTED. ALL PROPERTIAN ONE INCOMENTATIONS INTELLAS UNDERSTAND INTELLAS INTELLAS INTELLAS UNDER INCOMENTATIONS SHALL BE CONSTRUCTED, PREPARED AND JOINED INTELLAS UNDER INTELLAS UNDER INTELLAS UNDER RECOMMENDATIONS OF THE TAPPING TOOL MANUFACTURER. C. PROVIDE VACUUM BREAKENS WHERE RECOVERD BY CODES.
- C. PRESSURIZED PLASTIC PIPING: SCHEDULE 40 PRESSURE RATED POLYMINI, CHLORIDE (PVC), WITH EITHER SOLVENT CEMENT OR THREADED JOINTS, FITTINGS SHALL BE OF THE PRESSURE PATTERN DESIGN.
- THE PROJUGE TRUE OF A BLACK STEEL MALEABLE ROW THEADED C SAS PRIME STORE SCHEDULE 40 BLACK STEEL MALEABLE ROW THEADED 1 PLY BAND BLACK TITTINGS ON RELIDE THINGS AND ADMRS ALL PRIME OF T THEAD THE SCHEDULE AND ADMRS AND ADMRS AND ADMRS ALL PRIME OF THEAD ADMRS AND ADMRS AND ADMRS AND ADMRS AND ADMRS AND ADMRS AND SCHEDULE ADMRS AND ADMRS AND ADMRS AND ADMRS AND ADMRS AND ADMRS SCHEDULE ADMRS AND ADMRS AND ADMRS AND ADMRS AND ADMRS AND ADMRS SCHEDULE ADMRS AND ADMRS AND ADMRS AND ADMRS AND ADMRS AND ADMRS SCHEDULE ADMRS AND ADMRS AND ADMRS AND ADMRS AND ADMRS AND ADMRS SCHEDULE ADMRS AND ADMRS AND ADMRS AND ADMRS AND ADMRS AND ADMRS SCHEDULE ADMRS AND ADMRS AND ADMRS AND ADMRS AND ADMRS AND ADMRS SCHEDULE ADMRS AND ADMRS AND ADMRS AND ADMRS AND ADMRS AND ADMRS SCHEDULE ADMRS AND ADMRS AND ADMRS AND ADMRS AND ADMRS AND ADMRS SCHEDULE ADMRS AND ADMRS AND ADMRS AND ADMRS AND ADMRS AND ADMRS SCHEDULE ADMRS AND ADMRS AND ADMRS AND ADMRS AND ADMRS AND ADMRS SCHEDULE ADMRS AND ADMRS SCHEDULE ADMRS AND AD
- E CLEMOUTS: ITS SHALL BE INSTALLED FOR DRAININGE PRIME AT BASE OF RESERS. AT DRAINES IN DIRECTION, INVERT SHORM, AND AS RECURRED BY COCK, ALL CLEMOUTS DIRECTION, INVERSION, REDARK CLEMOUT OVER STAFF, RUSH INBES WHO GREASE THREADS. FID-LOAD CLEMOUT OVER STAFF, RUSH INBES WHO GREASE THREADS. FID-LOAD ROUND TOP RECESS FOR THE AUCTORS OVER WHIT WARDAL-PROOF SCREW. ALCOSS COVER WHIT WARDAL-PROOF SCREW. ALCOSS COVER WHIT WARDAL-PROOF SCREW.

- ALT GINES: ZH-1604 ROUND NECKL BROKKE TOF. WALSS AND INTERS: PROMOG VALVES TOR COMPLET OFFICIAN AND DRAINAGE. PROVING ACCESSING SECTIONALIZING VALVES WHERE WITH BRANCHES COMMENT INTER BROKENED BODY SOLD BROKE BYZER DSG. MORI-MSING STEL AND INTERACED BOHMET 200 FS WIDG FOR SULT-OFFS ONLY.
 ALL BROKET BODY, BLOWOLT-PROOF STANLESS STELL STAN, STANLESS SALL BROKET BODY SOLD SING FOR SULT-OFFS ON BALANCHES INTER TOP BODY BUDG. TORS SULT-OFFS ON BALANCHES ALTE DONE DID SUCH DOS SOLD SING SOLD BALANCHES ALTE DONE DOS BUDG. TOR SULT-OFFS ON BALANCHES A THEORED BODS \$400-1005.
 CHECK BODY SOLD SING SC, 200 PB WOG, BUNA-H SELL 8. SWEET BODS \$100.

- DELECTRIC FITTINGS: PROVIDE DELECTRIC FITTINGS WHEREVER DISSIMILAR METAL MATERIALS ARE TO BE JOINED. FITTINGS SHALL BE NOT LESS THAN 175 PSI RATED AND HAVE A MAXIMUM TEMPERATURE RATING OF NOT LESS THAN 175 PSI RATED

- BULDWE FRAMME STSTEL. HANDEDS (TRAVINE) STSTEL. HANDEDS (TRAVETZ) STSTEL. STATUS (TRAVETZ) STSTEL SYN MEE BY 1 //* DEEP CHANNEL DE STSMED FOR BOTH SUPPORTING NO LSST TAN & DE CHANNEL SALL EE CHARGE OF A S-D-T SPAN AT A DE LETTON OF //AC, SPACE CHANNELS BY THE LODGET A S-D-T SPAN AT A DE LETTON OF //AC, SPACE CHANNELS BY THE LODGET A S-D-T SPAN AT A DE LETTON OF //AC, SPACE CHANNELS BY THE LODGET A S-D-T SPAN AT A DE LETTON OF //AC, SPACE CHANNELS BY THE LODGET A S-D-T SPAN AT A DE LETTON OF //AC, SPACE CHANNELS BY THE LODGET A S-D-T SPAN AT A DE LETTON OF //AC, SPACE CHANNELS BY THE LODGET A S-D-T SPAN AT A DE LETTON OF //AC, SPACE CHANNELS BY THE LODGET A D-D NO ATTACH BOOS WITH BUELD CHANGET D'S DTHRE THE CO CORD OF JOSTS AT THE MORE THAN OF -/ALODE THE CHANNEL A STMEN (S-D C) AC AND ATTACH STSTEL CHAN'S AND THE SUBJECT LETTORE OF LODGENHO AGE SAS DESS THAN AND AND THE CHANNEL LEST THME (JP 2070-44 SHOULDER BOLTED THANESS THE CHANNEL STMEN INGLIGHTOR SHOULDER BOLTED THANESS THE LODGE AS DECEDED THE CHANNELS STMEN INGLIGHTOR SHOULDER BOLTED THANESS THE LODGE AS DECEDES THE INSLIGHTOR SHOULDER BOLTED THANESS THE LODGE AS DECEDES THE INSLIGHTOR SHOULDER BOLTED THANESS THE LODGE AS DECEDES THE INSLIGHTOR SHOULDER BOLTED

- . OLS PEPHIC SESSIES SUPPORTS: 1. WITH THE BOCK BILLING CODE: PRIVING LOD CALCULATORS FOR ALL BRACES SEED OR MUNICATURES LOD PRIVIDENT CODE CALCULATORS FOR ALL BRACES SEED OR MUNICATURES LOD PRIVIDENT FOR PRE-CHARGENER 2. DISTUSS BROKE RESEARCE DIRECT IN THE 2-MKY OR + HAW COMPORTANDIN, 3-MKY BROKES ARE NOT ACCEPTARE BRACES SHALL BE PER THE BOCK BUILDING CODE 3. MADILUS SERVICE DIRECT BRACES SHALL BE PER THE BOCK BUILDING CODE

SECTION 15450

PLUMBING FOUPMENT PART 1 - GENERAL

B. SECTION INCLUDES: 1. WATER HEATERS. 2. WATER METERS. 3. SEWAGE PUMPS.

1.02 SUBMITTALS

PART 2 - PRODUCTS 2.01 MANUFACTURERS

2.02 WATER HEATERS

2.03 WATER METERS

2.04 SEWAGE PUNPS

PART 3 - EXECUTION

3.01 INSTALLATION

END OF SECTION

A FURNISH ALL LABOR, EQUIPMENT, MATERIALS, AND TOOLS AND PERFORM A IN CONNECTION WITH THE INSTALLATION OF ALL EQUIPMENT AND INTERCOM THE PLUMBING SYSTEM. COMPLY WITH ALL CODES AND AUTHORITES HAVI PREPARATION OF RECORD DRAWINGS AND OWNERS MANUALS, GUIANNTEES PROTECTION OF WORK AND OLIVITY ASSUMANCE OF WORKLAINSTAN

1.02 SUBMITIALS
 SHOP DRAWINGS IN ACCORDANCE WITH THE REDUREMENTS OF THE ACCHTECTURAL SPECIFICATIONS, AND OBTING THE ARCHITECTS APPROVAL BEFORE
 SHOP TAMOS, ELEVATIONS OFTALS AND JOIR COMMONS, RELADINSHIP TO OTHER WORK, AND ROACE THRENES
 SHOP DRAWINGS AND OTALOD CUTS SHALL INDEATE SPECIFICATION SECTION AND PARAGRAPH A WITEN MATTERS
 B WATEN MATERS
 B WATEN MATERS
 C. SSWALE FUNDIS.

8. SAMPLES: SUBMIT ALL SAMPLES AS REQUESTED BY THE ARCHITECT OF MATERIALS SPECIFIED HEREIN IN ACCORDANCE WITH REQUIREMENTS OF THE CONDITIONS OF CONTRACT, AND BEFORE ORDEFINE MATERIALS OF CHAIM WRITHEN APPROVAL REPORT HE ARCHITECT. C. PRODUCT GUARANTEES AND WARRANTIES: PROVIDE MANUFACTURERS STANDARD GUARANTEE /WARRANTY FOR ALL PRODUCTS PROVIDED IN THIS SECTION D. PROVIDE SHUT-OFF VALVES AND UNIONS ON ALL INLETS AND OUTLETS TO ALL EQUIPMENT.

ALL PRODUCT MODEL NUMBERS USED REFERENCE THE FIRST MANUFACTURER LISTED FOR THE

A ELECTRIC (INSTANTANEOUS): MODEL M-20L-208, 208 VOLT, "ON"-"OFF" FLOW SWITCH ACTIVATED. COLLACTIVATES AT. 5 GMJ AND SHUTS OFF AT .35 GPM. DELIVERY OF .5 GPM AT 57 DEGREE F TEMPERATURE RISE.

A. COORDINATE WITH LOCAL WATER DISTRICT AND PAY ALL FEES ASSOCIATED WITH THE INSTALLATION OF A WATER METER ACCEPTABLE TO THE WATER DISTRICT.

A INTERIOR SMPLEX SYSTEM: GMP1211 WASTERWATER PACKAGE SYSTEM. PS31P1F PUMP, 1/2 HORSEPOWER, 115 VOLTS, SHOLE PHASE: ALL CAST IRON CONSTRUCTION PUMP; 2" DISCHARGE: SDM-OPEN MON-CLOB MPLTER; 2" SOULD SHUDJING CAPACITY, PROFENCE FLOAT SWITCH. PUMP SHALL BE CAPABLE OF 37 CPL AT 18 FTHID. GMP1 RIBBED POXYETHYLENE BASH 78.4" DAWLETER BY 30" DEPT, WITH SOUL COXER, AM-2P 2 COMPRESSION TYPE COREX VALVE.

3. ALIAN FAMEL: CENTRE-PROTATION NOM: 1 STELL INCLOSURE, CIRCUIT INSCRUCES WITH OVERCOOD PROTECTION, MECHANICAL CONTACTORS, ALIATIVATINE RELAX, CONTROL ENCLY TRANSVERSE WITH FUSE, INCH WATER ALARH USING A HORM AND UGHT WITH A TEST BUTTON AND SEENONG SWITCH PORTER SUPPLY SAALL ER FRONT I-113 VOLT CIRCUITS, REVORE I MECHANICAL TYPE FLOAT SWITCH

C. PROVIDE ALL CONTROL AND POWER WIRING FROM THE BASIN TO THE CONTROL PANEL. WIRING SHALL COMPLY WITH DAVISION 18 OF THESE SPECIFICATIONS.

A. PROVIDE 3"-O" MINIMUM SERVICE SPACE IN FRONT OF ALL CONTROL PANELS, ACCESS PANELS, MOTORS AND EQUIPMENT WHICH REDURES PERCORC MAINTENANCE AND/OR ADJUSTMENT.

B. COMPLY WITH ALL PART 3 REQUIREMENTS DESCRIBED IN SECTION 15410, PLUMBING - GENERAL PURPOSE

C. RELATED SECTIONS:
 1. SECTION 15010: MECHANICAL GENERAL REQUIREMENTS.
 2. SECTION 15410: PULLINDING - GENERAL PURPOSE.
 3. DVISSION 16 ELECTRIC.

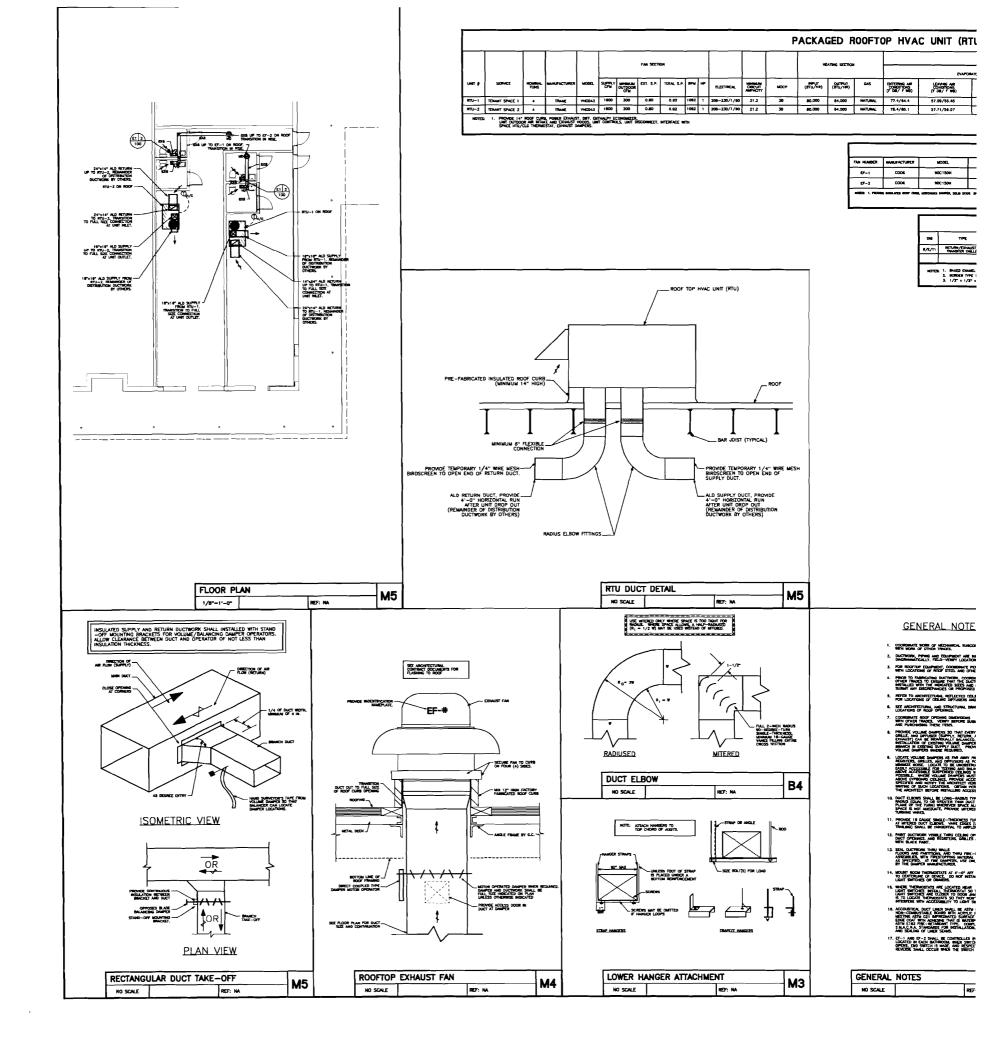
A. WATER HEATERS: 1. ELECTRIC (INSTANTANEDUS): CHRONOMITE OR ARISTON

. SEWAGE PUMPS: GOULDS OR WEIL

- ANCHORS AND GUIDES SHALL BE SUPPORTED FROM STEEL BEAMS OR ANGLE IRON AND OTHER STEEL WORK PROVIDED.

- AND OTHER STELL BOOK MONOCOL SEENES: I. PRES THROUGH FLOORS: FORM WITH SCHEDULE 40 (CALVANZED) STELL PIRE AND CITION I MADINE SUBJOINT FORM WITH STELL PIRE OR 18 GAUGE 2 OLVAWIZED STELL PRES THROUGH SCHEDURE AND WILLS CONCRETE WILLS OR FOOTING: TOPIC WITH SCHEDURE 40 (CALVANIZED) STELL PIE THROUGH AND THR TOPIC WITH SCHEDURE 40 (CALVANIZED) STELL PIE THROUGH AND THROUGH TOPIC WITH SCHEDURE 40 (CALVANIZED) STELL PIE THROUGH AND THROUGH TOPIC WITH SCHEDURE 40 (CALVANIZED) STELL PIE THROUGH THROUGH SCHEDURE 40 (CALVANIZED) STELL PIE THROUGH AND THROUGH THROUGH AND THROUGH AND THROUGH AND THROUGH AND THROUGH AND THROUGH THROUGH AND THROUGH AND THROUGH AND THROUGH AND THROUGH AND THROUGH THROUGH AND THROUGH AND THROUGH AND THROUGH AND THROUGH AND THROUGH MARKET OF INSULATED PIPPING SHALL BE MASURED AT THE INSULATION MARKET.
- L SOUTCHORN PLATES SHALL BE INSTALLED WHERE PRING PASSES THROUGH BLALS, PARTITIONS, FLOORS, CELINGS, ETC. SECURCIEGON PLATES SHALL BE ALL BETA, CONSTRUCTION ON OF STANDARD DE PROCE DESCI. IN FINISHED AREAS, THR' PART, HANCERS CHORDE THROUGH FINISHED CELINGS SHALL HAVE CHROBE-PLATE WASHEDS.
- CHINGRE-FLATED WAITCHES SOLDER AND BAZZING VETALS: 1. SOLDER WETAL SHALL BE A COMPOSITE OF 95% TH AND 5% ANTWORY OR 95.5% TH, 4% COPPER AND DASK SLAVER. 2. BRAZING WETAL SHALL BE A COMPOSITE OF 45% (+1%) SILVER, 25% (+2%) ZINC AND 30% (+1%) COPPER
- AND 302 (118) COPPER. D. FRE STOP SEAMT: I. UNHAULATED PRIVE PERTAINANCES: THE ANNUAL SPECE SHALL DE UNHAULATED PRIVE PERTAINANCES: THE ANNUAL SPECE SHALL DE UNHAULATED PRIVE PERTAINAL SHALL BE UND TO ACHEVE A RE BANGED EQUAL TO DR GRAFTER THAN THAT OF THE SEPARATION RENA PROTECTED. MULATED PRIVE AND UNLITED PERTAINANCES, PROVIDE ONE LACE OF MULATED PRIVE AND UNLITED PERTAINANCES, PROVIDE ONE LACE OF MULATED PRIVE AND UNLITED PERTAINANCES SHALL DE COMPETITIES DISCOMMENDATION AND RECOMMENDATIONS MORTALINE COMPETITIES THE SANGED EQUAL TO DR GRAFTER THAT THAT OF THE SEPARATION RENA PROTECTED. THE SETALATION SHALL BE NOTIFIED SECONFERENCES DISCOMMENDATIONS IN THAT OF THE SEPARATION RENA PROTECTED. THE SETALATION SHALL BE IN COMPLET SEPARATION RENA PROTECTED. THE SETALATION SHALL BE IN COMPLET SEPARATION RENA PROTECTED. THE SETALATION SHALL BE IN COMPLET SEPARATION RENA PROTECTED. THE SETALATION SHALL BE IN COMPLET SEPARATION RENA PROTECTED. THE SETALATION SHALL BE IN COMPLET
- 2.03 FIXTURES
- A WATER CLOSETS: WITREOUS CHINA, ELONGATED BOWL, SPHON JET, TANK TYPE, WHITE NO. 9500HSSE ELONGATED BEAT WITH SELF-SUSTAINING CHECK HINGES. PROVIDE § h-159-LC KONGG-PATTED BBARS, $3/4^{\circ}$ LOSE KEY SUPPLY. 1. WC-1: §2183.100(LET HAND TRP LEVER) CADET ELONGATED WATER SAVER, 16° HEGH 10 FML.
- HACH TO RM. I. UNATORS OF MIL PROSED THAP AND SUPPLIES: PROVIDE \$1355. CONSTRAINTS AND 1-1/4" THAPPECE, PROJED PREMARPED HEAVE OST BAASS 11/4" X1 1/2" AD USTARE FILMA, TO DUCE SUMJESS THAL UND RESS SML 2800 ETHINGO MILTEL HANDLE HISLANDIG COVIES AND H-135-LE CHROME-FAITED BASSS, 3/4" IDD -11/4" DOSS: 2012 USE SML 253 THAL UND SML 2012 DISTINGUIS MILTEL HANDLE HISLANDIG COVIES AND H-135-LE CHROME-FAITED BASSS, 3/4" IDD -11/4" DOSS: 2012 USE SML 253 THAL UND SML 2012 DISTINGUIS MILTEL HANDLE HISLANDIG COVIES AND H-135-LE CHROME-FAITED BASSS, 3/4" IDD -11/4" DOSS: 2012 USE SML 2012 DISTINGUIS CHAN, SML 2012 DISTINGUIS MILTEL TURING HISLANDIG HISLANDIG HISLANDIG THALE SML 2012 DISTINGUIS MILTEL TURING HISLANDIG HISLANDIG HISLANDIG HISLANDIG MILTEL TURINGUIS AND HISLANDIG HISLANDIG MILTEL TURINGUIS AND HISLANDIG MILTEL ENCLOSUE AND HISLANDIG HISLANDIG MILTEL ENCLOSUE AND HISLANDIG MILTEL ENCLOSUE AND HISLANDIG MILTEL ENCLOSUE AND HISLANDIG MILTEL TURINGUIS AND HISLANDIG MILTEL TURINGUIS AND HISLANDIG MILTEL ENCLOSUE AND HISLANDIG MILTEL ENCLOSUE AND HISLANDIG MILTEL ENCLOSUE AND HISLANDIG MILTEL ENCLOSUE AND HISLANDIG MILTEL TURINGUIS AND HISLANDIG MILTEL ENCLOSUE AND HISLANDIG MILTEL TURINGUIS AND HISLANDIG MILTEL TURIN
- VACUUM BREAKERS: WHERE REQUIRED, PROMDE AND INSTALL VACUUM BREAKERS, BREAKER SHALL IN: CHROME-PLATED WHERE USED WITH CHROME TRM AND INSTALLED IM ACCORDANCE WITH MANUFACTURERS DIRECTORS.
- D. SHOCK ARRESTERS: PROVIDE PISTON TYPE, MECHANICAL SHOCK ARRESTERS FOR ALL FIXTURE GROUPS AND FOR RENOTE INDIVIDUAL FIXTURES.
- E. TRAPS: TRAPS: TRAPS SHALL BE CAST BRASS WITH A CROWIND STIMEL CORT AND CLEMONT PLUE, PROMOE CHROME FINDER TO ALL TRAPS KITL CORTED WITH SAFETY INSULTON. MONOBINION TRAPS SHALL BE PROMOED WHERE REQUIRED BY LAW IN LIEU OF TRAPS SPECIFED.
- BY LAW IN LIEU ON THAN'S SPECTRED. F. THAN ALL THAN SUPPLYS AND ALL IMMEDIATELY EXPOSED PIPHO AT FOTURES & EDUIMENT SHALL BE CHROME-PLATED ON FINISHED BRASS OR ON COPERE ECEPT WRERE SVETT INSULATION IS INSTALLED. ALL FAURCHTS SHALL HAW REDVORKE UNITS AND REMOVABLE SEATS. ALL HOT AND COLD WRITE SUPPLIES TO PRIVILES AND EQUIPHENT SHALL ES INTERD WITH STORES IN ADDITION TO BRANCH SAILT-OFTS.
- G. FIXTURE SUPPORTS: PROVIDE AND INSTALL CONCEALED ARM, FOOT SUPPORT CHAIR CARRIERS FOR ALL WALL HUNG FIXTURES AS FOLLOWS: LAVATORIES ~ #2-1231.
- PART 3 EXECUTION
- 3.01 EXAMINATION A STUDY ALL DRAWINGS AND SPECIFICATIONS, WSIT THE SITE AND BECOME ACQUINITED WITH EXISTING COMMITIONS AND THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. NO CLAIM WILL BE RECORRECTED TO RETRA COMPRESATION DUE TO FALLURE TO BECOME FAMILARIZED WITH THE CONDITIONS AND EXTENT OF PROPOSED WORK.
- 3.02 ERECTION, INSTALLATION AND APPLICATION

- SALE ERCLIDER, RESILIER AND WERTCHORN AND PROVIDE RE REIN CONCELLENT BURGEMPES, MET TO BE RUN FAMILIEL THEY SHALL BE LOCATED AS GLOSE AS UNE REINFEST AND THE REINF FAMILIEL THEY SHALL BE LOCATED AS GLOSE AS I. ALL BATT PRIME SHALL BE RUN AT A MORTHER FITCH OF I FOR 50-07 TO DRAW VAXES. MO ALL PRIME SHALL BE RUN WITHIN THE KEATED SPACE OF DRAWAGE CONNECTORS. J. MILL AND THE RUN AT A POSTME FITCH TO DRAW BACK TO THE DRAWAGE CONNECTORS. J. SWITART DRAWAGE THEM & " AND LARGER SHALL BE RUN AT 1/4" PER FOOT (OKE PERCENT) FITCH.
- B. ALL FLOOR CLEANOUTS SHALL BE SET PARALLEL TO AND FLUSH WITH THE SURROUNDING FLOOR.
- C. ALL FOCTURES SHALL BE INSTALLED LEVEL AND FLUSH TO WALLS AND FLOORS AS APPLICABLE.
- A ALL POTUDES SHALL BE SEALED WATER TIGHT WITH CAULK TO ALL ADJACENT SURFACES. THIS SHALL INCLUDE BUT NOT BE LIMITED TO SEALING WAIL-HING LANATORES TO WAILS AND WATER CLOSEST TO FLOORS. CAULKING SHALL BE OF THE APPROPRIATE TYPE FOR THE GREN APPLICATION AND SHALL BE INSTALLED IN ACCORRANCE WITH THE WAILWACTURERS INSTRUCTIONS AND RECOMMENDATIONS.
- E. ALL FORTURES AND EQUIPMENT SHALL BE SUPPORTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS UNLESS OTHERMISE DETAILED.
- PROVIDE SERVICE SHUT-OFF VALVES AND UNIONS ON ALL INLETS AND OUTLETS TO ALL FOLIDMENT INSTALLED UNDER THIS SECTION
- G. ALL SHUT-OFF VALVES SHALL BE IN ACCESSIBLE LOCATIONS. ALL VALVES ABOVE CELLINGS SHALL BE OPERABLE WITHIN 18" OF THE CELLING THE PLANE.
- H. PROVIDE 3"-O" MINIMUM SERVICE SPACE IN FRONT OF ALL CONTROL PANELS, ACCESS PANELS, MOTORS AND EQUIPMENT WHICH REQUIRES PERIODIC MAINTENANCE AND/OR
- I. THE ENTIRE PLUMBING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE STATE OF MANY INTERNAL PLUMBING CODE AND ALL LOCAL CODES
- J. THE ENTIRE GAS INSTALLATION SHALL COMPLY WITH NEPA 54 AND 58 AND ALL LOCAL CODES.
- 3.03 TESTS
- 3.00 IESIS ALL RESISTENCE OF STELEG IN THE BULGHED, INVITE THE LOCULA A TEST AND PROVE TIGHT ALL PRIPING SYSTEMS IN THE BULGHED, INVITE THE LOCULA AND AND ALL INVITED ALL AND ALL ALL AND ALL ALL AND ALL ALL AND ALL AND
- 3.04 STERUZATION
- A AFTER TESTING, ALL DAPHRAGES SHALL BE REMOVED FROM FLUSH VALVES AND ALL ARAITORS REMOVED FROM FAUCETS AND THE FAUCETS OPENED FULLY TO ALLOW ALL WHER PIPME DE FLUSHED WITH WATER WITH. NO VISIELY DRITY WATER APPEARS AT THE OUTLETS. AFTER FLUSHING ALL DAPHRAGES AND ARAITORS SHALL BE REMOVED FAUL
- THE PRING SYSTEM SHULL BE COMPLETELY FULED WITH WATER CONTINUED NO LESS THAN 50 PARTS FOR MILLON (PPM OR MG/L) OF CHADRING THE SYSTEM SHULL THEN BE VALUED OFF AND ALLOWED TO STAND FOR NO LESS THAT 24 FOURS. A UTERNATIVE CONCENTRATION OF 200 PPM OF CHLORINE ALLOWED TO STAND FOR 2 HOURS MAY BE USED.
- C. AT THE END OF 24 HOURS (OR THE ALTERNATIVE TIME OF 2 HOURS) THE ENTIRE SYSTEM SHALL BE FLUSHED WITH WATER UNTIL NO EXCESS CHLORINE REMAINS IN THE DISTU
- THE SYSTEM. IN 679Y THE ARCHITET A MINUMU OF 2 WORKING DAYS PROR TO THE COMMERCIDENT OF THE AUGUMENT AND STREAM PROCEDURE. SUB-TO THE STANTING AND FINISHING OF AND THE THE TYPE OF CONSIDERTING STANTING AND FINISHING OF AND THE THE TYPE OF CONSIDERTING STANTING AND STREAM OF AND THE THE TYPE OF CONSIDERTING STANTING AND STREAM OF AND THE THE TYPE OF CONSIDERTING STANTING AND STREAM OF AND THE THE STREAM STANTING AND STREAM OF AND THE THE STREAM OF AND THE PARTY RESPONSE FOR STREAM OF RESTREAM ON THE ASSOCIATION STREAM OF AND THE STREAM OF AND THE THE STREAM OF AND THE STREAM STREAM OF AND THE STREAM OF AND THE STREAM OF AND THE STREAM STREAM OF AND THE STREAM OF AND T
- 3.05 CLEANING
- A. AT THE COMPLETION OF WORK ALL FIXTURES AND EQUIPMENT SHALL BE CLEANED IN ACCORDANCE WITH THE APPROPRATE MANUFACTURER'S RECOMMENDATIONS. ALL EXPOSED UNCHROUED PIPMS SHALL BE CLEANED OF ALL DWT, GREASE, OILS, ETC. SUITABLE TO ACCEPT A PRIME COAT OF PANT.
- END OF SECTION



MECHANICAL SPECIFICATIONS

SECTION 15010: GENERAL REQUIREMENTS

- 1.1 DRAWINGS
- DRAWINGS A. THE GENERAL LOCATION OF THE APPARATUS AND THE DETAILS OF THE WORK ARE SHOWN ON THE DRAWINGS. EXACT LOCATIONS NOT INDICATED SHALL SHALL BE DETERMINED AT THE SITE AS THE WORK PROGRESSES AND SHALL BE SUBJECT TO THE REARMINGS SHALL SHOW EVERY PRE. FITTING OR APPLIANCE, BUT SHALL BE A REQUIREMENT TO FURNESH, WITHOUT ADDITIONAL EXPENSE ALL MATTERNA AND LADOR INCESSARY TO COMPLET THE SITSTEMS IN ACCORDANCE WITH THE DESIGN WITENT AND WITH THE HIGHEST POSSIBLE QUALITY AVAILABLE.

1.2 FLECTRIC WORK

- LEURING MORE PROMODED UNDER OMISION 15. EXCEPT AS NOTED, LUIT SWITCHES AND ALL OTHER RELATED ITEMS FOR EQUIP PROMODED UNDER OMISION 15. EXCEPT AS NOTED, ALL REQUIRED UNES SWITCHES, FUED SWITCHES, AND ALL OTHER RELATED ITEMS AND ALL RECESSARY WIRING TO PROPERLY CONNECT ALL EQUIPMENT TO MOTORS AND SWITCHES SHALL BE FURNSHED AND INSTALLED UNDER OMISION 16, ELECTRC.
- 9. PROVIDE COMPLETE WIRING SYSTEM FOR TEMPERATURE CONTROLS.
 C, ALL WIRING SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE
- D. COORDINATE DUCT SMOKE DETECTOR/ROOFTOP UNIT FAN SHUT-DOWN WITH ELECTRICAL CONTRACTOR
- 1.3 REQUIREMENTS
 - COURCENTS ERECT FOUMENT ALGNED, LEVEL AND ADJUSTED TO SATISFACTORY OPERATION, INSTALL SO THAT CONNECTING AND DESCONNECTING OF PIPING AND ACCESSORIES CAN BE MADE REDALY AND SO THAT ALL PARTS ARE EASLY ACCESSIBLE FOR INSPECTIONS, OPERATION, MANTENANCE AND REPAR.
 - B. RESPONSIBILITY FOR CARE AND PROTECTION OF ALL MATERIAL AND MECH. WORK RESTS WITH THE CONTRACTOR AT ALL TIMES UNTIL THE PROJECT HAS BEEN COMPLETED, TESTED AND THE PROJECT ACCEPTED BY THE OWNER. C. AFTER COMPLETION OF THE INSTALLATION WORK THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL TRAINSH NECESSARY MECHANICS OR ENGINEERS FOR THE ADJUSTMENT AND OPERATION OF THE FLANT, AND AT THE END THAT THE FLANT MAY BE PERFECTLY ADJUSTED AND TURKED OVER TO THE OWNER IN PERFECT WORKING ORDER THE CONTRACTOR SHALL FURTHER MISTRUCT THE OWNER'S ANTIANZED MERRESSANT AND DIRECTIONS, AND DIRECTIONS, OPERATION OF THE INSTALLATION, PROVIDED GAL REQUIRED FRAMED INSTRUCTION CHARTS AND DIRECTIONS.
 - D. AFTER THE ENTIRE INSTALLATION IS COMPLETED, READY FOR UPERATION, THE CONTRACTOR SHALL TEST AND BALANCE THE SYSTEM. THE OWNER SHALL PROVOE ALL WATER AND ELECTRIC CURRENT FOR THE TEST. THE CONTRACTOR SHALL PROVODE NECESSARY LABOR, TEST PUMP, GAUGES, METERS, OTHERS INSTRUMENTS AND MATERIALS. PROVIDE FINAL REPORT
- E. THE CONTRACTOR SHALL AFTER AWARD OF CONTRACT AND BEFORE INSTALLATION, SUBMIT FOR APPROVAL SHOP DRAWINGS, BULLETINS, PRODUCT DATA AND ALL OTHER RELATED ENES. SUBMITAL SHALL INCLUDE ALL PHYSICAL DATA AND PERFORMANCE DATA REQUIRED TO VERIFY COMPLANCE WITH THE CONTRACT DOCUMENTS.
- FOR MAINTENANCE PURPOSES, PROVIDE APPROVED SHOP DRAWINGS, PARTS LIST, SPECIFICATIONS AND MFOR MAINTENANCE BULLETINS FOR EACH PIECE OF EQUIPMENT. PROVIDE NAME, ADDRESS AND TELEPHONE NUMBER OF THE MANUARCTURER'S REPRESENTATIVE AND SERVICE COMPANY FOR EACH PIECE OF EQUIPMENT.
- G. REMOVE ALL DEBRIS FROM SITE DAILY. ALL MATERIAL AND PIECES OF EQUIPMENT SHALL BE TURNED OVER TO THE OWNER FREE OF ANY DUST AND DIRT, BOTH INSIDE AND OUT.
- H. COORDINATE STATT-UP OF VARIOUS EQUIVARIENT NO. STSTEM, SNOTTY ARCHITECT/ENDINEER SEVEN DAYS PRIOR H. COORDINATE STATT-UP OF VARIOUS EQUIVARIENT NO. STSTEM, SNOTTY ARCHITECT/ENDINEER SEVEN DAYS PRIOR TOTATOM CONTROL SEQUENCES OR OTHER CONDICING WHICH MAY CAUSE DANAGE VERIFY TATT WIRING AND SUPPORT COMPONENTS FOR EQUIPMENT ARE COMPLETE AND TESTED. EXECUTE STATT-UP UNDER SUPERVISION OF RESPONSIEL MANUFACTUREYS REPRESENTATE IN ACCOMPANCE WITH THE MANUFACTURE'S INSTRUCTIONS, SUBMIT A WRITEN REPORT THAT EQUIPMENT OR SYSTEM HAS BEEN PROPERLY INSTALLED AND IS FUNCTIONING CORRECTLY.

SECTION 15140: SUPPORTS AND ANCHORS

- SECTION TOTAGE SUPPORTS 1.1 PPE KANGERS AND SUPPORTS B. CONFORM TO ASSME B31.9, ASTM F708, MSS SP58, MSSSP69 AND MSS SP89. C. HANGERS FOR PPE SUES 1/2" TO 1-1/2": MALLEABLE IRON, ADJUSTABLE SWAYEL, SPLT RING. D. HANGERS FOR HOT PIPE SIZES 2" TO 4": CARBON STELL, ADJUSTABLE CLEWS. E. HANGERS FOR HOT PIPE SIZES 2" TO 4": CARBON STELL, ADJUSTABLE CLEWS. E. HANGERS FOR HOT PIPE SIZES 2" TO 4": CARBON STELL, ADJUSTABLE CLEWS. E. HANGERS FOR HOT PIPE SIZES 2" TO 4": CARBON STELL, ADJUSTABLE CLEWS. E. HANGERS FOR HOT PIPE SIZES 2" TO 4": CARBON STELL, ADJUSTABLE STELV TOKE. CAST IRON ROLL, DOUBLE HANGER. F. HANGERS RODS: MILD STELL THREADED BOTH ENDS, THREADED ONE END, OR CONTINUOUS THREADED.
- 1.2 INSERTS A. MANUFACTURER: 1. GRIMMELL, 2. B-LINE.
 - B. INSERTS: MALLEABLE IRON CASE OF STEEL SHELL AND EXPANDER PLUG FOR THREADED CONNECTION WITH LATERAL ADJUSTMENT. TOP SLOT FOR REINFORCING RODS, LUGS FOR ATTACHING TO FORMS; SIZE INSERTS TO SUIT THREADED HANGER FOOS.

1.3 EXECUTION

ALLOUTION A PLACE HANGERS WITHIN 12" OF EACH HORIZONTAL ELBOW. USE HANGERS WITH 1-1/2" VERTICAL ADJUSTMENT DESIGN HANGERS FOR PIPE MOVEMENT WITHOUT DESIGNAGEMENT OF SUPPORTED PIPE. DO NOT SUPPORT PIPES FROM OTHER PIPES OR EQUIPMENT. PIPE HANGERS ATTACHED TO BAR JOIST SHALL BE TATACHED TO TOP CHORDS. SIZE PIPE HANGERS TO ACCOMMODATE CONTINUOUS PIPING INSULATION. SUPPORT HORIZONTAL PIPING AS SECHEDULED BELOW:

PIPE SIZE	HANGER ROD MAX. HANGER SPACING	DIAMETER		
1/2" TO 1-1/4"	6.5 FT	3/8"		
2-1/2" TO 3"	10 FT	3/8"		
4" TO 6"	10 FT	5/8"		
8" TO 12"	14 FT	7/8"		

SECTION 15190: MECHANICAL IDENTIFICATION

1.1 NAMEPLATES

A MANUFACTURER: SETON NAME PLATE COMPANY. LAMINATED 3-LAYER PLASTIC WITH ENGRAVED BLACK LETTERS ON LIGHT CONTRASTING BACKGROUND COLDR.

A MANUFACTURER PLASTIC TAGS: SETON NAME PLATE COMPANY. LAMINATED 3-LAYER PLASTIC WITH BURGWED BLACK LETTERS ON LIGHT CONTRASTING BACKGROUND COLOR. TAG SIZE MINIUM 1-1/2" DUMETER.

B. MANUFACTURER METAL TAGS: SETON NAME PLATE COMPANY. BRASS WITH STAMPED LETTERS; TAG MINIMUM 1-12/" DIAMETER WITH SMOOTH EDGES.

1.3 PIPE MARKERS

A MANUFACTURER PLASTIC PIPE MARKER: SETON NAME PLATE COMPANY. FACTORY FABRICATED, FLEXIBLE, SEMI-RIGID PLASTIC, PREFORMED TO FIT AROUND PIPE OR PIPE COVERING. 1.4 INSTALLATION

ISIALIAION (INTANIC GRACES ATTER COMPETING OF COMPENICS, INSTAL TASS USING CORRESPORTSTATT INSTAL DEATINFAIL GRACES ATTER COMPETING OF COMPENICS, INSTAL TASS USING CORRESPORTSTATT CASHING, NEBERARS CONSCIPATE YET USION (INTERVIEW) DEATING, INTERVIEW AND WATER HAVE IN HAVE TO THE PLATE. DEATINFY VALVES IN WAR AND BRACH PIRING WITH HEAT, TASS, USINT PIRES WITH PLASTIC PIRE WARKERS, IDENTIFY SERVER AND PLOW DRECTONAL PROVIDE VALVE TAS CHART, LOCATE IN MECHANICAL ROOM, COORDINATE TASGING NOMENCLATURE WITH OWNER BEFORE ORDERING.

SECTION 15260: PIPING INSULATION

- PIPMG INSULATION A. MANUFACTURER: 1. JOHNS MANYLLE, 2. OWENS CORNING, 3. CERTAINTEED, 4. KNAUF, 4. ARMSTRONG, LAMINATED J-LAYER PLASTIC WITH ENGRAVED BLACK LETTERS ON LIGHT CONTRASTING BACKGROUND COLOR
- 1.2 GLASS FIBER ULAS TIGER A. ATM CS47, RIGID MOLDED, NONCOMBUSTIBLE, K-VALUE 0.24 AT 75 ^{*}, WHITE KRAFT VAPOR BARRIER JACKET WITH GLASS FIBER TARN, BONOED ID ALUMINIZED FLM, MAX. MOISTURE ABSORPTION 0.2% BY VOLUME. VAPOR BARRIER LAP ADHESNE COMPATIBLE WITH INSULATION.

1.3 ELASTOMERIC FOAM

ASIDUENCE FORM ASTW C334, FLEXBLE, CELLULAR ELASTOMERIC, NOLDED OR SHEET, K-VALUE 0.27, MAX. SERVICE TEMPERATURE WITH GLASS FIBER YARN, BONDED TO ALUMINIZED FILM, MAX. MOISTURE ABSORTION 0.2% BY VOLUME. VAPOR 2207, WATERROOF VAPOR BARRIER ADHESSY. AR ORED COMPARISE WITH INSULATION.

1.4 JACKETS

A. ASTM D1784, 1 PIECE MOLDED TYPE FITTING COVERS, OFF WHITE COLOR, 15 MIL THICKNESS, MAX. 150 F SERVICE TEMPERATURE, CONNECTIONS; BRUSHED ON WELDING ADHESIVE COMPATIBLE WITH INSULATION.

1.5 EXECUTION

A PIPMIC SYSTEMS RECOURING INSULATION, TYPE OF INSULATION REQUIRED, AND INSULATION THEORNESS SHALL BE AS LISTED IN THE TABLE BELOW, INSULATE ALL INTINGS, TAMES, AND VINES, EXCEPT VALVES STEEDS, HAND WHEELS AND OPERATORS. USE FACTORY PRE-MOLDED, PRECUT INSULATION OF THE SAME THICKNESS AS USED ON ADJACENT PRIME.

SERVICE	INSULATION VAPOR BARRIE MATERIAL REQUIRED		R INSULATION WALL THICKNESS AT THE FOLLOWING NOMINAL PIPE DIAMETERS				
		1" AND LESS	1-1/4" - 2"	2-1/2" - 4"	5" - 6"	8" AND UP	
DOMESTIC HOT WATER AND RECIRCULATING PIPING	ELASTOMERIC FOAM	NO	1"	1-1/2"	2"	2"	-
	GLASS FIBER	NO	1"	1-1/2"	2"	2"	
DOMESTIC COLD WATER AND CONDENSATE PIPING	ELASTOMERIC FOAM	NO	1"	t"	1-1/2"	1-1/2"	1-1/2"
	GLASS FIBER	YES	1"	1"	1-1/2"	1-1/2	1-1/2"

- B. INSTALL PER NAIMA AND MANUFACTURER'S INSTRUCTIONS. PIPE EXPOSED IN MECHANICAL ROOMS FINISH WITH PVC JACKET AND FITTING COVERS.
- C. INSULATED PIPES CONVEYING FLUIDS BELOW AMBIENT TEMPERATURE: INSULATE ENTIRE SYSTEM INCLUDING FITTINGS, VALVES, UNIONS, FLANGES AND STRAINERS. PROVIDE VAPOR BARRER JACKET.
- D. GLASS FIBER INSULATED PIPES CONVEYING FLUIDS ABOVE 140 F: INSULATE ENTIRE SYSTEM INCLUDING FITTINGS, VALVES, UNIONS, FLANGES, STRAINERS AND EQUIPMENT. PROVIDE STANDARD JACKET.
- E. INSERTS AND SHIELDS: PROMOE ON PIPES 2" AND LARGER. SHIELDS SHALL BE CALVANIZED. INSERTS SHALL BE MINIMUM 6" LONG, SAME THICKNESS AS INSULATION, HYDROUS CALCIUM SILICATE OR OTHER HEAVY DENSITY INSULATING WATERAL.

SECTION 15290 - DUCTWORK INSULATION

PART 1 - PRODUCTS

1.1 MANUFACTURERS

A. JOHNS MANVILLE B. OWENS CORNING C. CERTAINTEED. D. KNAUF.

1.2 GLASS FIBER, FLEXIBLE

- A. INSULATION: 1-1/2 INCH THICK, ASTM C553; FLEXIBLE, NONCOMBUSTIBLE BLANKET.
- 1. 'K' ('KSI') VALUE: ASTM C518, 0.27 AT 75F (0.39 AT 24C).
- 2. MAXIMUM SERVICE TEMPERATURE: 250F (121C) FACED AND 350F (176C) UNFACED.
- 3. MAXIMUM MOISTURE ABSORPTION: 0.20 BY VOLUME.
- B. VAPOR BARRIER JACKET:
- 1. KRAFT PAPER WITH GLASS FIBER YARN AND BONDED TO ALUMINIZED FILM.
- 2. MOISTURE VAPOR TRANSMISSION: ASTME96; 0.02 PERM.
- 3. SECURE WITH PRESSURE SENSITIVE TAPE.
- C. VAPOR BARRIER TAPE: KRAFT PAPER REINFORCED WITH GLASS FIBER YARN AND BONDED TO ALUMINIZED FILM, WITH PRESSURE SENSITIVE RUBBER BASED ADHESIVE.
- D. THE WIRE: ANNEALED STEEL 16 GAGE (1.5 MM)

1.3 GENERAL

- A. ALL INSULATION MATERIAL SHALL BE ASBESTOS FREE. NO FIBERS SHALL BE RELEASED FROM ANY MATERIAL WITH DIMENSIONS SIMILAR TO ASBEST OS FIBERS.
- PART 2 EXECUTION
- 2.1 EXAMINATION
- A. COORDINATION: VERIFICATION OF EXISTING CONDITIONS BEFORE STARTING WORK.
- B. VERIFY THAT DUCTWORK HAS BEEN TESTED BEFORE APPLYING INSULATION MATERIALS.
- C. VERIFY THAT SURFACES ARE CLEAN, FOREIGN MATERIAL REMOVED, AND DRY.
- 2.2 INSTALLATION
- A. QUALITY CONTROL: MANUFACTURER'S INSTRUCTIONS
- B. INSTALL IN ACCORDANCE WITH NAIMA NATIONAL INSULATION STANDARDS.
- C. INSULATED DUCTWORK CONVEYING AIR BELOW AMBIENT TEMPERATURE
- 1. PROVIDE INSULATION WITH VAPOR BARRIER JACKETS.
- 2. FINISH WITH TAPE AND VAPOR BARRIER JACKET.
- 3. CONTINUE INSULATION THROUGH WALLS, SLEEVES, HANGERS, AND OTHER DUCT PENETRATIONS.
- 4. INSULATE ENTIRE SYSTEM INCLUDING FITTINGS, JOINTS, FLANGES, FIRE DAMPERS, FLEXIBLE CONNECTIONS, AND EXPANSION JOINTS.
- D. INSULATED DUCTWORK CONVEYING AIR ABOVE AMBIENT TEMPERATURE:
- 1. PROVIDE WITH OR WITHOUT STANDARD VAPOR BARRIER JACKET.
- 2. INSULATE FITTINGS AND JOINTS. WHERE SERVICE ACCESS IS REQUIRED, BEVEL AND SEAL ENDS OF INSULATION. E. DUCTWORK EXPOSED BELOW 10 FEET (3 METERS) ABOVE RNISHED FLDOR IN MECHANICAL EQUIPMENT ROOMS DR BELOW B FEET (2.4 METERS) ABOVE RNISHED FLOOR IN FINISHED SPACES: RNISH WITH CAMASA JACKET SZED FOR RNISH PANTING.
- F. EXTERIOR APPLICATIONS: PROVIDE INSULATION WITH VAPOR BARRIER JACKET. COVER WITH CALKED ALUMINUM JACKET WITH SEAMS LOCATED ON BOTTOM SIDE OF HORIZONTAL DUCT SECTION.
- G. EXTERNAL DUCT INSULATION APPLICATION:
- 1. SECURE INSULATION WITH VAPOR BARRIER WITH WIRES AND SEAL JACKET JOINTS WITH VAPOR BARRIER ADHESIVE OR TAPE TO MATCH JACKET.
- 2. SECURE INSULATION WITHOUT VAPOR BARRIER WITH STAPLES, TAPE, OR WIRES
- J. INSTALL WITHOUT SAG ON UNDERSIDE OF DUCTWORK. USE ADHESIVE OR MECHANICAL FASTENERS WHERE NECESSARY TO PREVENT SAGGING. UFT DUCTWORK DFF TRAPEZE HANGERS AND INSERT SPACERS.
- 4. SEAL VAPOR BARRIER PENETRATIONS BY MECHANICAL FASTENERS WITH VAPOR BARRIER ADHESIVE.
- 5. STOP AND POINT INSULATION AROUND ACCESS DOORS AND DAMPER OPERATORS TO ALLOW OPERATION WITHOUT DISTURBING WRAPPING.
- H. ENSURE SURFACE IS CLEAN AND DRY PRIOR TO INSTALLATION. ENSURE INSULATION IS DRY BEFORE AND DURING APPLICATION. FINISH WITH SYSTEM AT OPERATING CONDITIONS.
- ENSURE INSULATION IS CONTINUOUS THROUGH INSIDE WALLS. PACK AROUND DUCTS WITH FIREPRODE SELF-SUPPORTING INSULATION MATERIAL, PROPERLY SEALED.
- J. FINISH INSULATION NEATLY AT HANGERS, SUPPORTS AND OTHER PROTRUSIONS
- K. LOCATE INSULATION OR COVER SEAMS IN LEAST VISIBLE LOCATIONS
- L. REPAIR SEPARATION OF JOINTS OR CRACKING OF INSULATION DUE TO THERMAL MOVEMENT OR PODR WORKMANSHIP
- M. STANDING SEAMS, SUPPORTING ANGLES AND FLANGES ON ALL INSULATED DUCTWORK SHALL BE INSULATED WITH THICKNESS EQUAL TO THE DUCT AND ALL EDGES SHALL BE FINISHED AND VAPOR SEALED.

0. FOR SUPPLY OR RETURN DUCTWORK WHICH IS REQUIRED TO BE INSULATED, INSULATION SHALL BE CONTINUOUS AND SHALL INCLUDE THE INSULATING DF REGISTER, GRILLE AND DIFFUSER CONNECTION PLENUMS/BOOTS.

N. MECHANICAL FASTENERS SHALL NOT BE RIVETED OR SCREWED TO THE DUCT AND SHALL NOT PENETRATE THE METALWORK.

			DANSION 16 - ELECTRICAL PART 1 - GENERAL	
			1.1 SECTION INCLUDES A BASE ELETRICA, REQUIREMENTS B. INTERT IS REVOKE AND INSTALLAL, MATERIALS & LABOR TO INFLEMENT THE DESIGN AS INTERDED FOR A COMPLETE WORKING ELECTRICAL STSTEM.	
<complex-block></complex-block>			 III ACCOMEDANCE WITH NEED, CRITERIA AND ANDONE BOARD OF PIRE UNDERWRITERS. THE OWNER AND ARCHITECT. III SECTIONAL STATUS SHALL BE FERMANENTLY AND PERCIFICALY GROUNDED IN ACCOMPANY THE OWNER WITH THE OWNERTH CHARMANERS AND A THE CHINE ELECTRICAL STATUS SHALL BE FERMANENTLY AND PERCIFICALY GROUNDED IN ACCOMPANY THE AND AND AND AND AND AND AND A THE OWNER DECOMPANY THE WORK OF ELECTRICAL TRES AND MADE IN ADDRESS AND A THE OWNER DECOMPANY THE WORK AND FELSION IN SUCH LODONS AS A THE OWNER DECOMPANY THE WORK AND FELSION IN SUCH LODONS AS AND ANY OF INSIGN 18. A PARAMENT DO EXCITING AND AND AND AND AND AND AND ACCOMPANY DECOMPANY THE WORK AND AND AND AND AND AND ACCOMPANY DECOMPANY THE WORK AND AND AND AND AND AND ACCOMPANY DECOMPANY THE WORK AND AND AND AND AND AND ACCOMPANY DECOMPANY TO AND AND AND AND AND AND ACCOMPANY THE AND HE SAFETY STATUS AS REQUIRED TO MAINTAIN SAFE OCCUPANCY. INTELEPHONE, AND HE SAFETY STATUS AND REQUIRED TO MAINTAIN SAFE OCCUPANCY. INTELEPHONE, WORK AND FEROMENT DO AND AND AND AND AND AND AND AND AND AND AND AND AND AND	
<complex-block></complex-block>			2.1 DEVECTS 2.1 DEVECTS A. RECETRICUES SHALL BE NEWA 5-20R. SWITCHES SHALL BE 277 VOLT RATED. B. ALL DEVECTS SHALL BE SPECIFICATION ORAGE (HUBBELL HBL 221, 5342, 073300, etc). C. AUTOMATE HALL SWITCHES WALL BE MAINTSUPPER TOF-200 SERIES OR EQUAL SET TO DEVERTIGEL LIGHTS AND EXHILT REMAINTSUPPER TOF-200 SERIES OR EQUAL SET TO DEVERTIGEL LIGHTS AND EXHILT REMAINTSUPPER TOF-200 SERIES OR EQUAL SET TO DEVERTIGEL LIGHTS AND EXHILT REMAINTSUPPER TOF-200 SERIES OR EQUAL SET TO	
<complex-block></complex-block>			anone over durit	
<complex-block></complex-block>			 2.3 PANELBOARDS 2.4 PANELBOARDS 4. ACCEPTIAGE MANUFACTURES: WESTINGHOUSE, I-T-E SIEMENS, GENERAL ELECTRIC, SQUARE D. 2.4 BRANCH PANELBOARDS 2.4 BRANCH PANELBOARDS 4. LIGHTIKG, AND AFF LANCE BUANCH CIRCUIT FAMELBOARDS, CIRCUIT BREAKER AC LIGHTIKG, AND AFF LANCE BURGENDE TOR FOUR WHEE SCUD HEUTRAL BO CYCLE SERVICE ANTED FOUR WHEE SCUD HEUTRAL BO CYCLE SERVICE RATED FOUR WHEE SCUD HEUTRAL BO CYCLE SERVICE B. DICLOSHIKE, HEMA TYPE I EUCEPT AS NOTED CODE GUALE GUAVANZED STELL BOZS AND DAUT SERVICE AS NOTED. CODE GUALE GUAVANZED STELL BOZS AND DAUT SERVICE AND NEUTRAL SCUT PANELBOARDS. 	
<complex-block></complex-block>			CONCENSIVE TO ASSUME INTERNAL INTONIAL ELECTRICAL CODE CONCENSIVE ANTIMUM INTONIAL ELECTRICAL CODE ELECTRICAL DATA S SCHEDULED ON POWINGS. PROVIDE SUBFEED LUSS AS REQUIRED. LUGS DESIGNED FOR USE FOR BOTH COMPER AND ALUMENTI CONDUCTORS. INTO A CONCENSION OF A CONCENSION D. NEUTRIL BAY, FULL SEE INSULATED FOR THE CANCENT AND ROMOBED ELECTRICAL DATA SCHEDULEY ATTACHED TO THE CANCENT THAT AND ROMOBED ELECTRICAL DATA SCHEDULEY ATTACHED TO THE CANCENT WITH LUGS AS REQUIRED TO RECEIVE THE BONDING CONDUCTORS. F. MINUTAL INTEGRATES SHOT CIRCUIT RETAKETS INTO AMPERES RAS 6. MOLDED CASE CIRCUIT BREAKERS: TOGLE TYPE THERMAL-MARCHED. CIRCUMANT, DIVERSION FOR CIRCUIT RETAKETS: CONCENTION OF AN EXAMPLE AND WITH COMMENT THP FOR MULTIPOLE CIRCUITS. BREAKERS SINCLI NAVE A LUSTED AS TYPE STOP OF SWITCHINGS.	
 A minimum of an and a minimum of	/ SERVICE DROP BY		2.3 DURI: MADE, ULL LUTYON, AL ALME PHOTOELETING TYPE LISTED BY UL PER ULZBAA A WITH INTERPAAL FORM I O MONIALLY DOPI AND NORMALLY CLOSED CONTACTS. SHARE DETECTIONS SHALL BE RATED FOR 120 MID BE COMPLETE WITH HOUSING SAMPING TUBES AND OTHER COMPUNENTS AS REQUIRED FOR A COMPLETE WITH HOUSING SAMPING COORDMARTE SAMPING TUBE SIZE AND LOCATION WITH DUCT. B COORDMARTE SAMPING THE SIZE AND LOCATION WITH DUCT. B COORDMARTE SAMPING THE SIZE AND LOCATION WITH DUCT. B COORDMARTE SAMPING WITH A SHARE ALMAN LINET LOCATED AS INDICATED OF DRAMINGS, READING WITH A SHARE ALMAN LINET LOCATED AS INDICATED OF DRAMINGS, READING WITH A MEDITE ALMAN LINET LOCATED AS INDICATED OF DRAMINGS, READING CHARTE WITH A READING EAVAIL BE CAMPARE OF YSULA AND AUDINE. INDICATION OF SUCH SAMPING DIFFERING WITH BECOMPORIOS. D. COORDMARTE LOCATION OF DUCT SAMPING DIFFERENCE WITH A CONTRACTOR.	
 44/var/4e-21/70 44/var/4e-21	Marine Second	CONNECT TO AND EXTEND	 A BATERY LIFE SAUL BE 120/1/2002 WITH OWNER OF WHILE IN SAURE STEEL OR THE OWNER SAURE SAURE STEEL OR THE OWNER SAURE S	
 MAT 3 - DECINANT MATT 3 - DECINANT MAT			 A. PROMORE MAY INTERES AS REQUIRED AND AS INDICATED ON DRAWINGS. REPER TO THE LIGHTING FRALMER SCHEDULE FOR FRALMERS AND FARMINGS. REPER TO BOOK LISTING OFTLET SNAL THAT FRALMENT AND FARMINGS. AND FARMS. TO: STELES FOR FRALMES SNALL BE CUT OR LIGHTINGHED TO GAR INSUMITION REGARD AND REQUIRED. C. ALL LAWS SNALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. EACH FRALME SNALL HAVE A COMPLETE COMPLEXITY OF UNES AT THE THE OF OWNER ACCOPTANCE OF SNALL HAVE A COMPLETE COMPLEXITY OF THE THE OF OWNER ACCOPTANCE OF MANUFACTURERS SNALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. EACH FRALME SNALL HAVE A COMPLETE COMPLEXIES SNALL BE CHRONE OF THE STATE OF OWNER ACCOMPLETE COMPLEXIES SNALL BE CHRONE OF THE CONTRACTOR. EACH FRALME SNALL HAVE A COMPLETE COMPLEXIES SNALL BE CHRONE OF THE STATE OWNER/THERE'S LANDER. D. ALL FRALMES SNALL BE CHRONED BY UNDERWRITER'S LABORATORES, INC., AND BEAR UNDERWRITER'S LABORATED ON DOWNINGS. E. PROVIDE SNALL BE APPROVED BY UNDERWRITER'S LABORATORES, INC., AND BEAR UNDERWRITER'S LABORATED ON DOWNINGS. F. FROMER SNALL BE APPROVED BY UNDERWRITER'S LABORATORES, INC., AND BEAR UNDERWRITER'S LABORATED ON DOWNINGS. 	
 A LU WRIES SHULL BE RUN H CONDUCT SEE SHULL BE SAUNA REDUCTION AND RECORDERS. A LU WRIES SHULL BE RUN H CONDUCT SEE SHULL BE SAUNA RECORDERS. A LU WRIES SHULL BE RUN H CONDUCT SEE SHULL BE SAUNA RECORDERS. A LU WRIES SHULL BE RUN H CONDUCT SEE SHULL BE SAUNA RECORDERS. A DOTES: A SEE DRAWING EOO.1 FOR PAREL SCHEDULES AND REQUIREMENTS. A DOTAL WRIES SHULL BE SOURCE ID CONSTRUCTION MADE ADJOINT OF DEAL STREED. A DE RUN H CONDUCT SEE SHULL BE SOURCE ID DEAL STREED. A DE RUN H CONDUCT SEE SHULL BE SOURCE ID DEAL STREED. A DE RUN H CONDUCT SEE SHULL BE SOURCE ID DEAL STREED. A DE RUN H CONDUCT SEE SHULL BE SOURCE ID DEAL STREED. A DE RUN H CONDUCT SEE SHULL BE SOURCE ID DEAL STREED. A DE RUN H CONDUCT SEE SHULL AND REQUIREMENTS. A DOORDHATE ALL DEFINE S WILL HAVE 12XA HANN BEAKCR. A COORDHATE ALL DEFINE ALL DEFINE SWILL HAVE 12XA HANN BEAKCR. A COORDHATE ALL DEFINE AND REQUIREMENTS WITH CENTRAL MANE POWER CO. 			3.1 YORKUMSER AND MISTALIJON 3.1 YORKUMSER AND MISTALIJON DECTROL, MERCENT, POLOW MANUFACTURES INSTALATOM RECOMMENDATION, POLOW MANUFACTURES INSTALATOM RECOMMENDATION, WORK BY LOCASED DECTROLMS B. PERFORM ALL ELECTROLM, WORK BY LOCASED DECTROLMS MI THE ROLD AND SUPPRYSED BY A MASTER ELECTROLM. 3.2 INSTALATION SHALL NAVE AN UNROWED PREPORT MARPLATE AND A TYPED DIRECTORY A SOCIEDED TOTAL TOTAL TOTAL OF THE OF LOCA AND AND AREA SERVED.	
まます NOTES: 1. SEE DRAWING EDD.1 FOR PAREL SCHEDULES AND REQUIREMENTS. 2. MODULAR HETERING SHALL BE SOLARE D. EXA STRES. WITH 225A TAR BOX MID 225A METER SECTIONS: EACH METER SHALL HAVE 125A MAIN BREAKER. 3. COORDINATE ALL DETALS AND REQUIREMENTS WITH CENTRAL MANE POWER CO.		LOCATE METER PACK ON EXTERIOR REAR WALL ADJACENT SHARE MANTENANCE	b. ALL WHING SHALL BE CONCELED IS SHOLD BE SHALL IN FILLY. I. ALL WHING SHALL BE CONCELED IS SHALL BE SHALL IN FILLY. I. ALL WHING SHALL BE RUNN W CONDUCT OR DUCT STREAM WITH BOTH ENDS TAGGED, ININUUM CONDUT SZE SHALL BE I/Z' UNLESS WHICATED OTHERMISE. F. ALL WHING TO LIGHTING FRUINES SHALL BE IN CONDUCT DISCOT PORST TO FXTURES. DROPS (WHINS) TO LIGHT FXTURES SHALL BE IN CONDUCT DISCOT PORST TO FXTURES. DROPS (WHINS) TO LIGHT FXTURES SHALL BE IN CONDUCT DISCOT PORST TO FXTURES. DROPS (WHINS) TO LIGHT FXTURES SHALL BE IN CONDUCT. ANALY SHALL BE N. DUTLET BOXES TOR ALL CONCEALED WORK SHALL BE SUFFACE. N. DUTLET BOXES TOR ALL CONCEALED WORK SHALL BE INHINUM A " SQUARE, WITH RASED CONCESS AS REQUIRED TO DICTION FLUST TO FINISHED SUFFACE.	
	₹₹₹	1. SEE DRAWING EDO.1 FUR PANEL SCHEDULES AND REQUIREMENTS. 2. Modular Netering Shall be square d etal serves, with 225A TAP Box And 225A Neter Sections. Lech Metter Shall May 135A Main Breaker.	 Itesting and adjusting Testing and adjusting The instalation shall be preference of the architects on their mproper grounds. Test in the presence of the architects on their bepresentations. Representations. Repr	

