ABBREVIATIONS

& ∠	AND ANGLE	INT. INV.
@ ا	AT CENTERLINE CHANNEL	JAN. JST.
¢ ⊥ ₽ #	DIAMETER PERPENDICULAR PROPERTY LINE NUMBER	JT. KIT. K.P.
ABV.	ABOVE	KO.
ACOUST. A.C.T. A D	ACOUSTICAL ACOUSTIC CEILING TILE AREA DRAIN	L. LAB. LAM.
A.F.F. ADJ.	ABOVE FINISHED FLOOR ADJUSTABLE	L.F. LKR.
AGGR. ALT.	AGGRERGATE ALTERNATE	LG. L.L.V. L.P.
ALU. A.P. APPROX	ACCESS PANEL APPROXIMATE	LT. LT. LT.WT.
ANCH. ARCH.	ANCHOR ARCHITECTURAL	MATL.
ASPH. AUTO.	ASPHALT AUTOMATIC	MAS. MAX. MECH.
BD. BITUM.	BOARD BITUMIOUS	MEM. MTL.
BLDG. BLK.	BUILDING BLOCK	MFR. M.H. MIN
BM. BOT. BRKT.	BOTTOM BRACKET	MISC. M.O.
BSMT. BRG.	BASEMENT BEARING	M.P. MTD.
BEL. BRK.	BELOW BRICK	N.
CAB. C.B.	CABINET CATCH BASIN	N.I.C. NO.
CEM. CER.	CEMENT CERAMIC	NOM. N.T.S.
C.I. C.I.P.	CAST IORN CAST IN PLACE	OA. O.C.
C.J. C.T.	CONTROL JOINT CERAMIC TILE	O.D.
CLG. CL. CLR.	CLOSET CLEAR	О.Н.
CMU. COL.	CONCRETE MASONRY UNIT	OPNG. OP. OW I
CONC. CONN. CONSTR	CONCRETE CONNECTION CONSTRUCTION	OZ.
CONT. CORR.	CONTINUOUS CORRIDOR	PAV. P.C.
CNTR. CTSK.	COUNTER COUNTERSINK	PL. P.LAM PLAS.
DBL.	DOUBLE	PLYWD. PLBG.
DEPT. DET.	DEPARTMENT DETAIL	P.M.F. PR. POI
D.F. DIA. DIM	DRINKING FOUNTAIN DIAMETER DIMENSION	PRCST. PT.
DISP. DMT.	DISPENSER DEMOUNTABLE	PTN.
DN. D.O. DR	DOWN DOOR OPENING DOOR	R.
DWG. DWGS.	DRAWING DRAWINGS	RAD. R.D.
DWR. F	DRAWER	REF. REFR.
EA. EL.	EACH ELEVATION	REINF. REQ.
ELEC. EMER. ENCI	ELECTRICAL EMERGENCY ENCLOSURE	RESIL. RFL.
E.P. EQPT.	ELECTRICAL PANELBOARD EQUIPMENT	RGTR. RM.
E.W.C. EXP.	ELECTRIC WATER COOLER EXPANSION	R.U. S.
EXPO. EXIST.	EXPOSED EXISTING	S.C. SCHED.
EXT.		SECT. S.H. SHT.
F.A. F.B. F.D.	FIRE ALARM FACE BRICK FLOOR DRAIN	SIM. SAN.
FDN. F.E.	FOUNDATION FIRE EXTINGUISER	SPEC. SPKR. SO
F.E.C. F.H.C. FIN.	FIRE EXTINGUISER CABINET FIRE HOSE CABINET FINISH	S.SINK STA.
FL. FLASH.	FLOOR FLASHING	STL. S.S. STOR
FLOUR. F.O.C. F.O.S.	FLOURESCENT FACE OF CONCRETE FACE OF STUD	STRUCT. SUSP.
F.O.W. FPRF.	FACE OF WALL FIREPROOF(ING)	SYM. SYS.
FR. F.S. FURR	FRAME FULL SIZE FURRING	T. TEL.
FUT.	FUTURE	TEMP. T&G. тнк
G.C. GA. GALV.	GAUGE GALANIZED	T.O.C. T.O.P
GL. GND.	GLASS GROUND	T.O.S T.V. T.W.
GR. GYP. BD.	GYPSUM WALLBOARD	TYP.
H.B. H.C.	HOSE BIBB HOLLOW CORE	UNFIN. U.O.N.
HDWR. HDWD.	HARDWARE HARDWOOD	V.B.
HK. HT.	HOOK HEIGHT	VERT. VEST. VCT.
HR. HORIZ.	HANDRAIL HORIZONTAL	VIF.
H.P. HR.	HIGH POINT HOUR HEATING VENTILATION	v. i .K. W.
п.v. A. U.	AIR CONDITIONING	w/ WD.
I.D.	INSIDE DIAMETER/ DIMENSION	w/o WP. WSCT.
INCL. INSUL.	INCLUDE(D) INSULATION	WT. W.W.F.

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	INTERIOR INVERT
	JANITOR JOIST JOINT
	KITCHEN KICK PIPE KNOCKOUT
	LENGTH LABORATORY LAMINATE LIGHT FIXTURE LOCKER LONG LONG LEG VERTICAL LOW POINT LIGHT
	LIGHT WEIGHT MATERIAL MASONRY MAXIMUM MECHANICAL MEMBRANE METAL MANUEACTURER
	MANHOLE MINIMUM MISCELLANEOUS MASONRY OPENING MOP PLAT MOUNTED MULLION
	NORTH NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE
	OVERALL ON CENTER OUTSIDE DIAMETER/ DIMENSION
	OFFICE OPOSITE HAND/ OVERHEAD OPENING OPPOSITE
	OPEN WEB JOIST OUNCE PAVING POURD CONCRETE
	PLATE PLASTIC LAMINATE PLASTER PLYWOOD PLUMBING
	PAIR POLISHED PRECAST POINT PARTITION
	QUARRY TILE
	RADIUS RADIUS ROOF DRAIN ROOF LEADER REFERENCE REFRIGERATOR REINFORCED REQUIRED REVISION RESILIENT REFLECTED REGISTER ROOM ROUGH OPENING
	SOUTH SOLID CORE SCHEDULE SECTION
	SPRINKLER HEAD SHEET SIMILAR SANITARY SPECIFICATION
	SPEAKER SQUARE SERVICE SINK STANDARD STEEL
	STAINLESS STEEL STORAGE STRUCTURAL SUSPENDED SYMMETRICAL SYSTEM
	TREAD TELEPHONE TEMPERATURE TOUNGE AND GROOVE THICK TOP OF CONCRETE
	TOP OF PAVEMENT TOP OF STEEL TELEVISION TOP OF WALL TYPICAL
	UNFINISHED UNLESS OTHERWISE NOTED
	VAFOR BARRIER VERTICAL VESTIBULE VINYL COMPOSTION TILE VERIFY IN FIELD VENT THRU ROOF
	WEST WITH WOOD WITHOUT WATERPROOF WAINSCOT WEIGHT WELDED WIRE FRAME







LIST OF DRAWINGS

ARCHITECTURAL DRAWINGS

	T-000 TITLE SHEET						
T-001	COVER SHEET						
T-002	GENERAL NOTES						
T-003	GENERAL NOTES						
A-	000 GENERAL CODE DATA & SITE PLAN						
A-001	SITE PLAN						
A-002	BUILDING EVALUATION SUMMARY						
A-003	ADA DETAILS (ICC/ANSI)						
	A-100 FLOOR PLANS & WALL DETAILS						
A-101	EXIST FOUNDATION PLAN, EXISTING ROOF PLAN						
A-102	PROPOSED FLOOR PLAN						
A-111	METAL STUD DETAILS						
A-112	METAL STUD DETAILS						
	A-200 SECTIONS & DETAILS						
A-201	SECTIONS, DETAILS						
A-205	BATHROOM PLAN & ELEVS. WINDOW						
	DETAILS						
A-301	ELEVATIONS EIES DEREORMANCE SDECS						
A-311 A-312	STOREFRONT PERFORMANCE SPECS						
	A-400 EGRESS PLAN / RCP						
A-401	EGRESS PLAN RCP PLAN & DETAILS						
-	A-500 SRTUCTURAL FRAMING						
A-501	FRAMING PLAN						
-	SP-600 SITE SAFETY PLAN						
SP-601	SITE SAFTEY PLAN						
^							
\square	\frown \frown \frown \frown \frown \frown						
V V							
PLAN SHALL REQUIREMEN	COMPLY WITH ALL STATE AND LOCAL CODE ITS AND ITS SUPPLEMENTS.						
ND USABLE	BUILDINGS AND FACILITES" (SEE A-003)						
SEPARATE F	ILING AND APPROVAL FROM NASSAU COUNTY FIRE						
ARSHAL IS F	REQUIRED FOR REQUIRED AUTOMATIC SPRINKLER						
VORK.							
ELECTRICITION TO FILE APPLICATION FOR ALL PROPOSED							
LECTRICAL	NORK.						
	PECTIONS REALIBED AS PER 2020 BCoRNIVS SECTIO						

-SPECIAL INSPECTIONS REQUIRED AS PER 2020 BCofNYS SECTION 1705 TO INCLUDE: -STEEL CONSTRUCTION -OPEN-WEB STEEL JOISTS AND JOIST GIRDERS -CONCRETE CONSTRUCTION

-ALL PROPOSED WORK TO COMPLY WITH CHAPTER 33 "SAFEGUARDS DURING CONSTRUCTION" AS PER 2020 BCofNYS. SEE SHEET SP-1 - SITE SAFETY PLAN

PART 1: GENERAL REQUIREMENTS COORDINATION AND PROJECT CONDITIONS

A. COORDINATE SCHEDULING, SUBMITTALS, AND WORK OF THE VARIOUS SECTIONS OF THE PROJECT MANUAL TO ENSURE EFFICIENT AND ORDERLY SEQUENCE OF INSTALLATION OF INTERDEPENDENT CONSTRUCTION ELEMENTS, WITH PROVISIONS FOR ACCOMMODATING ITEMS INSTALLED LATER

B. COORDINATE REQUIRED UTILITY SERVICES CONNECTIONS WITH UTILITY COMPANIES. 1. CONTACT UTILITY COMPANIES TO ARRANGE FOR INSTALLATION OF REQUIRED SERVICES AND SERVICE CONNECTIONS 2. SUBMIT COPY OF CORRESPONDENCE WITH UTILITY COMPANIES TO ARCHITECT; INCLUDE INSTRUCTIONS RECEIVED FROM UTILITIES REGARDING INSTALLATION REQUIREMENTS.

C. VERIFY UTILITY REQUIREMENTS AND CHARACTERISTICS OF OPERATING EQUIPMENT ARE COMPATIBLE WITH BUILDING UTILITIES. COORDINATE WORK OF VARIOUS SECTIONS HAVING INTERDEPENDENT RESPONSIBILITIES FOR INSTALLING, CONNECTING TO, AND PLACING IN SERVICE SUCH EQUIPMENT.

D. COORDINATE SPACE REQUIREMENTS, SUPPORTS, AND INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WHICH ARE INDICATED DIAGRAMMATICALLY ON DRAWINGS. FOLLOW ROUTING SHOWN FOR PIPES, DUCTS AND CONDUIT, AS CLOSELY AS PRACTICABLE, PLACE RUNS PARALLEL WITH LINES OF BUILDING. UTILIZE SPACES EFFICIENTLY TO MAXIMIZE ACCESSIBILITY FOR OTHER INSTALLATIONS, FOR MAINTENANCE AND FOR REPAIRS.

E. IN FINISHED AREAS EXCEPT AS OTHERWISE INDICATED, CONCEAL PIPES, DUCTS, AND WIRING WITHIN THE CONSTRUCTION. COORDINATE LOCATIONS OF FIXTURES AND OUTLETS WITH FINISH ELEMENTS. F. COORDINATE COMPLETION AND CLEAN-UP OF WORK OF SEPARATE SECTIONS IN PREPARATION FOR SUBSTANTIAL COMPLETION. G. AFTER OWNER OCCUPANCY OF PREMISES, COORDINATE ACCESS TO SITE FOR CORRECTION OF DEFECTIVE WORK AND WORK NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS, TO MINIMIZE DISRUPTION OF OWNERS ACTIVITIES.

.2 COORDINATION DOCUMENTS

A. PREPARE COORDINATION DRAWINGS TO ORGANIZE INSTALLATION OF MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL EQUIPMENT, AND SYSTEMS FOR EFFICIENT USE OF AVAILABLE SPACE FOR PROPER SEQUENCE OF INSTALLATION TO IDENTIFY POTENTIAL CONFLICTS B. SHOW ALL SYSTEMS FOR EACH AREA ON SINGLE DRAWING. INDICATE SYSTEMS SHOWING ACTUALLY SIZE INCLUDING SIZE TRANSITIONS, PROPOSED LOCATION, AND ELEVATION.

C. INDICATE CLEARANCES WHERE SYSTEMS CROSS STRUCTURAL FRAMING D. IDENTIFY ELECTRICAL POWER CHARACTERISTICS AND CONTROL WIRING REQUIRED FOR EACH ITEM OF EQUIPMENT. E. REVISE DRAWINGS AS REQUIRED TO ELIMINATE CONFLICTS PREVENTING COMPLETION OF ANY ELEMENT OF THE WORK. F. REQUIRE EACH SUBCONTRACTOR WITH WORK INDICATED ON COORDINATION DRAWINGS TO SIGN DRAWINGS INDICATING ACCEPTANCE OF ASSIGNED LOCATIONS FOR WORK OF EACH SUBCONTRACTOR.

G. MAINTAIN DOCUMENTS FOR THE DURATION OF THE WORK, RECORDING CHANGES DUE TO SITE INSTRUCTIONS, MODIFICATIONS OR ADJUSTMENTS H. AFTER ARCHITECT REVIEW OF ORIGINAL AND REVISED DOCUMENTS, REPRODUCE AND DISTRIBUTE COPIES TO CONCERNED PARTIES.

<u>3 FIELD ENGINEERING</u>

A. EMPLOY A LAND SURVEYOR REGISTERED WHERE THE PROJECT IS LOCATED AND ACCEPTABLE TO OWNER B. LOCATE AND PROTECT SURVEY CONTROL AND REFERENCE POINTS. PROMPTLY NOTIFY ARCHITECT OF ANY DISCREPANCIES DISCOVERED

C. CONTROL DATUM FOR SURVEY SHOWN ON DRAWINGS. D. VERIFY SET-BACKS AND EASEMENTS, CONFIRM DRAWING DIMENSIONS AND ELEVATIONS.

E. PROVIDE FIELD ENGINEERING SERVICES. ESTABLISH ELEVATION LINES, LEVELS AND LOCATIONS OF THE WORK UTILIZING RECOGNIZED ENGINEERING SURVEY PRACTICES. F. MAINTAIN A COMPLETE AND ACCURATE LOG OF CONTROL AND SURVEY WORK AS IT PROGRESSES.

G. PROTECT SURVEY CONTROL POINTS PRIOR TO STARTING SITE WORK, PRESERVE PERMANENT REFERENCE POINTS DURING CONSTRUCTION. H. PROMPTLY REPORT TO ARCHITECT THE LOSS OR DESTRUCTION OF ANY REFERENCE POINT OR RELOCATION REQUIRED BECAUSE OF CHANGES IN GRADES OR OTHER REASONS.

I. REPLACE DISLOCATED SURVEY CONTROL POINTS BASED ON ORIGINAL SURVEY CONTROL. MAKE NO CHANGES WITHOUT PRIOR WRITTEN NOTICE TO ARCHITECT

.4 PRE INSTALLATION MEETING

A. WHEN REQUIRED IN INDIVIDUAL SPECIFICATION SECTIONS CONVENE A PRE INSTALLATION MEETING AT THE SITE PRIOR TO COMMENCING WORK OF THE SECTION B. REQUIRE ATTENDANCE OF PARTIES DIRECTLY AFFECTING OR AFFECTED BY, WORK OF THE SPECIFIC SECTION. C. NOTIFY ARCHITECT 5 DAYS IN ADVANCE OF MEETING DATE.

D. PREDATE AGENDA AND PRESIDE AT MEETING. . REVIEW CONDITIONS OF INSTALLATIONS PREPARATION AND INSTALLATION PROCEDURES.

2. REVIEW COORDINATION WITH RELATED WORK E. RECORD MINUTES AND DISTRIBUTE COPIES WITHIN TWO DAYS AFTER MEETING TO PARTICIPANTS, WITH COPIES TO ARCHITECT, OWNER AND THOSE AFFECTED BY DECISIONS MADE.

5 REQUEST FOR INFORMATION PROCEDURES

A. PUBLISH AGENDA PRIOR TO PROGRESS MEETING, LISTING QUESTIONS TO BE ADDRESSED, SO ARCHITECT CAN BE PREPARED TO SEQUENCE PROVIDE TYPED TABLE OF CONTENTS. ANSWER THE QUESTIONS. B. PRESENT QUESTIONS AT REGULAR PROJECT PROGRESS MEETING.

C. ARCHITECT WILL PROVIDE ANSWERS TO QUESTIONS AT PROJECT PROGRESS MEETING WHEREVER POSSIBLE. RECORD ANSWERS IN MEETING MINUTES D. RFI'S SUBMITTED BEFORE SUBMITTING QUESTION AT PROGRESS MEETING WILL BE RETURNED WITHOUT ACTION FOR CONTRACTORS INTRODUCTION AT NEXT REGULAR PROGRESS MEETING.

E. IDENTIFY DRAWING OR SPECIFICATION REQUIRING CLARIFICATION AND DESCRIBE CONDITION REQUIRING 1. DRAWINGS INCLUDE DRAWING NUMBER DETAILS OR SECTION NUMBER, COLUMN LINE COORDINATES.

AND OTHER INFORMATION TO CLEARLY IDENTIFY AREA OF DRAWING IN QUESTION. 2. SPECIFICATION: INCLUDE SECTION NUMBER, PAGE NUMBER AND ARTICLE, PARAGRAPH AND SUBPARAGRAPH NUMBER AS APPROPRIATE F. ARCHITECT WILL REVIEW RFI AND RESPOND IN WRITING, WHEN REQUIRED, ARCHITECT MAY ISSUE SKETCHES AND REVISED SPECIFICATIONS TO SUPPLEMENT RESPONSE.

G. DISTRIBUTE ARCHITECTS RESPONSE TO THOSE AFFECTED BY RESPONSE. . PROMPTLY ENTER INFORMATION FROM RESPONSE

PART 2: SUBMITTAL PROCEDURES <u>2.1 SUMMERY</u>

A. SECTION INCLUDES 1. SUBMITTAL PROCEDURES.

- 2. PRODUCT DATA 3. SHOP DRAWINGS.
- 4. SAMPLES. 5. DESIGN DATA 6 TEST REPORTS
- 7. CERTIFICATES.
- 8. MANUFACTURERS INSTRUCTIONS 9. MANUFACTURERS FIELD REPORTS.
- 10. ERECTION DRAWINGS. 11. CONSTRUCTION PHOTOGRAPHS.

2.2 SUBMITTAL PROCEDURES

A. TRANSMIT EACH SUBMITTAL WITH ARCHITECT ACCEPTED FORM. B. SEQUENTIALLY NUMBER THE TRANSMITTAL FORM, REVISE SUBMITTALS WITH ORIGINAL NUMBER AND A SEQUENTIAL

ALPHABETICAL SUFFIX. C. IDENTIFY PROJECT, CONTRACTOR, SUBCONTRACTOR AND SUPPLIER, PERTINENT DRAWING AND DETAIL NUMBER, AND

SPECIFICATION SECTION NUMBER AS APPROPRIATE D. APPLY CONTRACTORS STAMP, SIGNED OR INITIALED CERTIFYING THAT REVIEW, APPROVAL, VERIFICATION OF PRODUCTS REQUIRED, FIELD DIMENSIONS, ADJACENT CONSTRUCTION WORK AND COORDINATION OF INFORMATION IS IN ACCORDANCE WITH THE REQUIREMENTS OF THE WORK AND CONTRACT DOCUMENTS. E. SCHEDULE SUBMITTALS TO EXPEDITE THE PROJECT. COORDINATE SUBMISSION OF RELATED ITEMS FOR DELIVERY AT THE SAME

TIME. ALL SUBMITTALS TO BE SUBMITTED NO LATER THAN 6 WEEKS FROM PROJECT START DATE. F. MAKE SUBMITTALS TO PARTIES AS SCHEDULED IN THIS SECTION.

G. FOR FACH SUBMITTAL RECEIVED ALLOW NT LESS THAN SEVEN DAYS FOR REVIEW. SUBMITTALS SHALL BE PROVIDED IN AN ORDER OF PRIORITY BASE ON THEIR IMPACT TO THE PROJECT SCHEDULE. IN THE EVENT THAT AN EXPEDITED OR CONCURRENT REVIEW IS NEEDED TO PREVENT A HINDRANCE TO THE PROJECT SCHEDULE, THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE ARCHITECT AND OWNER PRIOR TO SUBMISSION. H. IDENTIFY VARIATIONS FROM CONTRACT DOCUMENTS AND PRODUCT OR SYSTEM LIMITATIONS WHICH MAY BE DETRIMENTAL TO SUCCESSFUL PERFORMANCE OF THE COMPLETED WORK. SUBMITTALS CONTAINING SUBSTITUTED PRODUCTS WILL BE RETURNED WITHOUT ACTION UNTIL SUCH TIME AS APPROVED SUBSTITUTIONS REQUEST FORM HAS BEEN PROVIDED.

. PROVIDE SPACE FOR CONTRACTOR AND ARCHITECT REVIEW STAMPS. J. WHEN REVISED FOR RESUBMISSION, IDENTIFY ALL CHANGES MADE SINCE PREVIOUS SUBMISSION. K. DISTRIBUTE COPIES OF REVIEWED SUBMITTALS TO AFFECTED PARTIES. INSTRUCT PARTIES TO PROMPTLY REPORT ANY INABILITY TO COMPLY WITH REQUIREMENTS.

... SUBMITTALS NOT REQUESTED WILL NOT BE RECOGNIZED OR PROCESSED. M. A COPY OF ALL APPROVED SUBMITTALS SHALL BE MAINTAINED AT THE PROJECT SITE UNTIL THE CONCLUSION OF THE PROJECT

2.3 PRODUCT DATE

A. PRODUCT DATE: SUBMIT TO ARCHITECT FOR REVIEW FOR THE LIMITED PURPOSE OF CHECKING FOR THE CONFORMANCE WITH THE INFORMATION GIVEN AND THE DESIGN CONCEPT EXPRESSED IN THE CONTRACT DOCUMENTS. B. SUBMIT PRODUCT DATA IN QUANTITIES AS SCHEDULED IN THIS SECTION. TWO COPIES WILL BE RETAINED BY ARCHITECT. C. MARK UP EACH COPY TO IDENTIFY APPLICABLE PRODUCTS, MODELS, OPTIONS AND OTHER DATA, SUPPLEMENT

MANUFACTURERS' STANDARD DATA TO PROVIDE INFORMATION SPECIFIC TO THIS PROJECT D. INDICATE PRODUCT UTILITY AND ELECTRICAL CHARACTERISTICS, UTILITY CONNECTION REQUIREMENTS AND LOCATION OF UTILITY OUTLETS FOR SERVICE FOR FUNCTIONAL EQUIPMENT AND APPLIANCES.

E. MATERIAL SAFETY DATA SHEETS (MSDS) ARE NOT PERMITTED AS SUBMITTAL 1. WHEN REQUIRED BY OWNER, SUBMIT MSDS DIRECTLY TO THE OWNER. F. AFTER REVIEW PROVIDE AND DISTRIBUTE COPIES IN ACCORDANCE WITH SUBMITTAL PROCEDURES ARTICLE AND FOR RECORD 3.5 MANUFACTURERS FIELD SERVICES DOCUMENTS.

2.4 PRODUCT DATE

A. SHOP DRAWINGS: SUBMIT TO ARCHITECT FOR REVIEW FOR HE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH INFORMATION GIVEN AND THE DESIGN CONCEPT EXPRESSED IN THE CONTRACT DOCUMENTS. B. WHEN REQUIRED BY INDIVIDUAL SPECIFICATION SECTIONS, PROVIDE SHOP DRAWINGS SIGNED AND SEALED BY PROFESSIONAL ENGINEER

RESPONSIBLE FOR DESIGNING COMPONENTS SHOWN ON SHOP DRAWINGS. 1. INCLUDE SIGNED AND SEALED CALCULATIONS TO SUPPORT DESIGN 2. SUBMIT DRAWINGS AND CALCULATIONS IN FORM SUITABLE FOR SUBMISSION TO AND APPROVAL BY

AUTHORITIES HAVING JURISDICTION. 2. INDICATE UTILITY AND ELECTRICAL CHARACTERISTICS, UTILITY CONNECTION REQUIREMENTS AND LOCATION OF UTILITY OUTLETS FOR SERVICE FOR FUNCTIONAL EQUIPMENT AND APPLIANCES. D. SUBMIT SHOP DRAWINGS IN THE FORM AND QUANTITIES AS SCHEDULED IN THIS SECTION. REPRODUCIBLE SHOP DRAWINGS

WILL BE RETURNED E. PROVIDE AND DISTRIBUTE COPIES IN ACCORDANCE WITH SUBMITTAL PROCEDURES ARTICLE AND FOR RECORD DOCUMENTS

2.5 SAMPLES

INFORMATION GIVE AND THE DESIGN CONCEPT EXPRESSED IN THE CONTRACT DOCUMENTS. B. SAMPLES FOR SELECTION AS SPECIFIED IN PRODUCTS SECTIONS 1. SUBMIT TO ARCHITECT FOR AESTHETIC, COLOR OR FINISH SELECTION

.1 SELECTION AND PAYMENT WHERE SPECIFIED. 3. AFTER REVIEW PRODUCE DUPLICATES AND DISTRIBUTE IN ACCORDANCE WITH SUBMITTAL PROCEDURES ARTICLE B. CONTRACTOR SHALL EMPLOY AND PAY FOR SERVICES OF AN INDEPENDENT TESTING AGENCY OR LABORATORY ACCEPTABLE AND FOR RECORD DOCUMENTS. TO THE OWNER TO PERFORM SPECIFIED TESTING AS SCHEDULED IN THIS SECTION. C. SUBMIT SAMPLE TO ILLUSTRATE FUNCTIONAL AND AESTHETIC CHARACTERISTIC OF THE PRODUCT, WITH INTEGRAL PARTS AND 1.EMPLOYMENT OF TESTING LABORATORY DOES NOT RELIEVE CONTRACTOR OR OBLIGATION TO PERFORM IN ATTACHMENT DEVICES, COORDINATE SAMPLE SUBMITTALS FOR INTERFACING WORK WHERE AESTHETIC SELECTIONS ARE ACCORDANCE WITH REQUIREMENTS OF CONTRACT DOCUMENTS. REQUIRED SO RELATED SAMPLES ARE SUBMITTED AT SAME TIME D. INCLUDE IDENTIFICATION ON EACH SAMPLE WITH FULL PROJECT INFORMATION.

E. SUBMIT THE NUMBER OF SAMPLES SPECIFIED IN INDIVIDUAL SPECIFICATION SECTIONS, ONE OF WHICH WILL BE RETAINED BY ARCHITECT F. REVIEWED SAMPLES WHICH MAY BE USED IN THE WORK ARE INDICATED IN INDIVIDUAL SPECIFICATION SECTIONS. G. SAMPLES WILL NOT BE USED FOR TESTING PURPOSED UNLESS SPECIFICALLY STATED IN THE SPECIFICATION SECTION.

2.6 DESIGN DATA

A. SUBMIT FOR THE ARCHITECT'S KNOWLEDGE AS CONTRACT ADMINISTRATOR OR FOR THE OWNER IN QUANTITIES AS SCHEDULED IN THIS SECTION. B. SUBMIT FOR INFORMATION FOR THE LIMITED PURPOSE OF ASSESSING CONFORMANCE WITH INFORMATION GIVEN AND THE DESIGN CONCEPT EXPRESSED IN THE CONTRACT DOCUMENTS.

2.7 TEST REPORTS A. SUBMIT FOR THE ARCHITECTS KNOWLEDGE AS THE CONTRACT ADMINISTRATOR OF FOR THE OWNER IN QUANTITIES AS SCHEDULES IN THIS SECTION. B. SUBMIT TEST REPORTS FOR THE INFORMATION FOR THE LIMITED PURPOSE OF ASSESSING CONFORMANCE WITH INFORMATION GIVEN AND THE DESIGN CONCEPT EXPRESSED IN THE CONTRACT DOCUMENTS.

2.8 CERTIFICATES

A. WHEN SPECIFIED IN INDIVIDUAL SPECIFICATION SECTIONS, SUBMIT CERTIFICATION BY THE MANUFACTURER.

SECTION B. INDICATE MATERIAL OR PRODUCT CONFORMS TO OR EXCEEDS SPECIFIED REQUIREMENTS, SUBMIT SUPPORTING REFERENCE DATA, AFFIDAVITS AND CERTIFICATIONS AND APPROPRIATE

2.9 MANUFACTURERS INSTRUCTIONS

A. WHEN SPECIFIED IN INDIVIDUAL SPECIFICATION SECTIONS SUBMIT PRINTED INSTRUCTIONS FOR DELIVERY, STORAGE, ASSEMBLY INSTALLATION START-UP, ADJUSTING AND FINISHING TO ARCHITECT FOR DELIVERY TO OWNER IN QUANTITIES AS SCHEDULED IN THIS SECTION B. INDICATE SPECIAL PROCEDURES, PERIMETER CONDITIONS REQUIRING SPECIAL ATTENTION AND SPECIAL ENVIRONMENTAL CRITERIA REQUIRED FOR APPLICATION OR INSTALLATION.

2.10 MANUFACTURERS FIELD REPORTS

A. SUBMIT REPORTS FOR THE ARCHITECTS BENEFIT AS CONTRACT ADMINISTRATOR FOR THE OWNER IN QUANTITIES AS SCHEDULED IN THIS SECTION B. SUBMIT REPORT IN DUPLICATE WITHIN 5 DAYS OF OBSERVATION TO ARCHITECT FOR INFORMATION C. SUBMIT FOR INFORMATION FOR THE LIMITED PURPOSE OF ASSESSING CONFORMANCE WITH INFORMATION GIVEN AND THE DESIGN CONCEPT EXPRESSED IN THE CONTRACT DOCUMENTS.

2.11 ERECTION DRAWINGS

A. SUBMIT DRAWINGS FOR THE ARCHITECTS BENEFIT AS CONTRACT ADMINISTRATOR OR FOR THE OWNER IN QUANTITIES AS SCHEDULED IN THIS SECTION B. SUBMIT FOR INFORMATION FOR THE LIMITED PURPOSE OF ASSESSING CONFORMANCE WITH INFORMATION GIVEN AND THE DESIGN CONCEPT EXPRESSED IN THE CONTRACT DOCUMENTS. C. DATA INDICATING INAPPROPRIATE OR UNACCEPTABLE WORK MAY BE SUBJECT TO ACTION BUY THE ARCHITECT OR OWNER.

2.12 CONSTRUCTION PHOTOGRAPHS

A. PROVIDE PHOTOGRAPHS OF SITE AND CONSTRUCTION THROUGHOUT PROGRESS OF WORK PRODUCED BY EXPERIENCED, COMMERCIAL PHOTOGRAPHER ACCEPTABLE TO ARCHITECT. 1. TAKE PHOTOGRAPHS USING DIGITAL FORMAT B. SUBMIT PHOTOGRAPHS WITH EACH APPLICATION FOR PAYMENT. 2. TAKE UP TO EIGHT PHOTOGRAPHS FROM LOCATIONS AS DIRECTED BY ARCHITECT INDICATING THE RELATIVE PROGRESS OF THE WORK, 10 DAYS MAXIMUM TO SUBMITTING EACH APPLICATION FOR PAYMENT. D. IDENTIFY PHOTOGRAPHS WITH THE DATE, TIME, ORIENTATION AND PROJECT IDENTIFICATION E. DELIVER DIGITAL FILES TO OWNER WITH PROJECT RECORD DOCUMENT. CATALOG AND INDEX FILES IN CHRONOLOGICAL

A. DELIVER TO LABORATORY AT DESIGNATED LOCATION, ADEQUATE SAMPLES OF MATERIALS PROPOSED TO BE USED WHICH A. THE ARCHITECTS REVIEW IS FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT EXPRESSED IN THE CONTRACT E. PROVIDE TABLE OF CONTENTS AND ASSEMBLE IN THREE D SIDE RING BINDER WITH DURABLE PLASTIC COVER. REQUIRE TESTING ALONG WITH PROPOSED MIX DESIGNS. DOCUMENTS. APPROVAL OF A PARTICULAR ELEMENT DOES NOT CONSTITUTE APPROVAL OF AN ASSEMBLY OF WHICH THE F. SUBMIT WARRANTIES AND BONDS B. COOPERATE WITH LABORATORY PERSONNEL, AND PROVIDE ACCESS TO THE WORK AND TO MANUFACTURERS FACILITIES. 1. FOR EQUIPMENT OR COMPONENT PARTS OF EQUIPMENT PUT INTO SERVICE DURING CONSTRUCTION WITH OWNERS FI FMFNTS IS A PART . PROVIDE INCIDENTAL LABOR AND FACILITIES TO PROVIDE ACCESS TO WORK TO BE TESTED TO OBTAIN AND HANDLE SAMPLE AT B. MARKING OR COMMENTS SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR FROM COMPLIANCE WITH THE CONTRACT PERMISSION. SUBMI THE SITE OR AT SOURCE OF PRODUCTS TO BE TESTED TO FACILITATE TESTS AND INSPECTIONS, STORAGE AND CURING OF TESTS DOCUMENTS NOR PERMITTING CONTRACTORS DEVIATION FROM CONTRACT DOCUMENTS. DOCUMENTS WITHIN TEN DAYS AFTER ACCEPTANCE . THE CONTRACTOR REMAINS ONLY SOLELY RESPONSIBLE FOR SUBMITTAL DETAILS, DIMENSIONS, ACCURACY AND QUANTITIES 2. MAKE OTHER SUBMITTALS WITHIN TEN DAYS AFTER DATE OF SUBSTANTIAL COMPLETION, PRIOR TO FINAL D. NOTIFY LABORATORY 24 HOURS PRIOR TO EXPECTED TIME FOR OPERATING REQUIRING INSPECTION AND TESTING SERVICES. INSTALLATION AND PERFORMANCE OF EQUIPMENT AND SYSTEMS DESIGNED BY THE CONTRACTOR FOR SELECTING FABRICATION APPLICATION FOR PAYMENT. COORDINATE SCHEDULE WITH LABORATORY TO ENSURE TESTING AND INSPECTION PERSONNEL ARE AVAILABLE AT THE SITE PROCESSES FOR TECHNIQUES, OF ASSEMBLY FOR CONSTRUCTION MEANS, METHODS SEQUENCE AND PROCEDURES AND FOR WHEN REQUIRED WORK IN PROGRESS PERFORMING THE WORK IN A SAFE MANNER E. ARRANGE WITH LABORATORY AND PAY FOR ADDITIONAL SAMPLES AND TESTS REQUIRED BY CONTRACTOR BEYOND SPECIFIED 8.7 MAINTENANCE SERVICE D. ARCHITECT WILL REVIEW EACH ORIGINAL SUBMITTAL AND ONE RESUBMITTAL OF EACH ORIGINAL SUBMITTAL AT NO CHARGE TO REQUIREMENTS CONTRACTOR COST TO ARCHITECT TO REVIEW ADDITIONAL RESUBMITTALS WILL BE PAID BY OWNER AND REIMBURSED BY A. FURNISH SERVICE AND MAINTENANCE OF COMPONENTS INDICATED IN SPECIFICATION SECTIONS FOR ONE YEAR FROM DATE OF CONTRACTOR BY CHANGE ORDER REDUCING CONTRACT SUM BY AMOUNT EQUAL TO ARCHITECTS COST E. ARCHITECT WILL MARK EACH SUBMITTAL WITH REVIEW STAMP AND INDICATE ACTION REQUIRED OF CONTRACT ARCHITECTS B. EXAMINE SYSTEM COMPONENTS AT A FREQUENCY CONSISTENT WITH RELIABLE OPERATION CLEAN ADJUST AND LUBRICATE AS MARKING WIL PART 5: EXISTING CONDITIONS AND UTILITIES

BE SIMILAR TO THE FOLLOWING NOTE: REFER TO SHEET A-001 AND MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL NOTES. APPROVED OR NO EXCEPTIONS TAKEN: WORK INDICATED BY SUBMITTAL MAY PROCEED. 2. APPROVED AS NOTED OR MAKE CORRECTIONS NOTED: WORK INDICATED BY SUBMITTAL MAY PROCEED PROVIDED PART 6: PRODUCT REQUIREMENT WORK COMPLIES WITH 1 SUMMER

ARCHITECTS COMMENTS ON SUBMITTAL 3. REJECTED OR REVISE AND RESUBMIT: MAKE CORRECTION NOTED ON SUBMITTAL AND RESUBMIT WORK INDICATED ON SUBMITTAL MAY NOT PROCEED UNTIL SUBSEQUENT RESUBMITTAL IS REVIEWED BY THE ARCHITECT AND MARKED TO PERMIT WORK TO PROCEED

PART 3: QUALITY REQUIREMENTS

.1 QUALITY CONTROL AND CONTROL OF INSTALLATION A. MONITOR QUALITY CONTROL OVER SUPPLIERS , MANUFACTURERS, PRODUCTS SERVICES, SITE CONDITIONS AND WORKMANSHIP, TO PRODUCE WORK OF SPECIFIED QUALITY B. COMPLY WITH MANUFACTURERS INSTRUCTIONS INCLUDING EACH STEP IN SEQUENCE C. WHEN MANUFACTURERS INSTRUCTIONS CONFLICT WITH CONTRACT DOCUMENTS, REQUEST CLARIFICATION FROM ARCHITEC BEFORE PROCEEDING D. COMPLY WITH SPECIFIED STANDARDS AS MINIMUM QUALITY FOR THE WORK EXCEPT WHERE MORE STRINGENT TOLERANCES, CODES OR SPECIFIED REQUIREMENTS INDICATE HIGHER STANDARDS OR MORE PRECISE WORKMANSHIP. E. PERFORM WORK BY PERSONS QUALIFIED TO PRODUCED REQUIRED AND SPECIFIED QUALITY F. VERIFY THAT FIELD MEASUREMENTS ARE AS INDICATED ON SHOP DRAWINGS OR AS INSTRUCTED BY THE MANUFACTURER. G. SECURE PRODUCTS IN PLACE WITH POSITIVE ANCHORAGE DEVICES DESIGNED AND SIZED TO WITHSTAND STRESSES,

VIBRATION, PHYSICAL DISTORTION OR DISFIGUREMENT.

3.2 TOLERANCES

A. MONITOR FABRICATION AND INSTALLATION TOLERANCE CONTROL OF PRODUCTS TO PRODUCE ACCEPTABLE WORK DO NOT PERMIT TOLERANCES TO ACCUMULATE B. COMPLY WITH MANUFACTURERS TOLERANCES WHEN MANUFACTURERS TOLERANCE CONFLICT WITH CONTRACT DOCUMENTS, REQUEST CLARIFICATION FROM ARCHITECT BEFORE PROCEEDING. C. ADJUST PRODUCTS TO APPROPRIATE DIMENSIONS, POSITION BEFORE SECURING PRODUCTS IN PLACE.

3.3 REFERENCES

SPECIFIC DATE IS ESTABLISHED BY CODE. ARCHITECT BEFORE PROCEEDING ARCHITECT SHALL BE ALTERED FROM THE CONTACT DOCUMENTS BY THE MENTION OR INFERENCE OTHERWISE IN ANY REFERENCE DOCUMENTS.

3.4 MOCK-UP REQUIREMENTS

A. ASSEMBLE AND ERECT ITEMS SPECIFIED IN INDIVIDUAL SECTIONS WITH SPECIFIED ATTACHMENT AND ANCHORAGE DEVICES, FLASHING SEALS AND FINISHES. B. ACCEPTED MOCK-UPS SHALL BE A COMPARISON STANDARD FOR THE QUALITY OF THE WORK. C. WHERE MOCK-UP HAS BEEN ACCEPTED BY ARCHITECT AND IS SPECIFIED IN PRODUCT SPECIFICATION SECTIONS TO BE REMOVED; REMOVE MOCK-UP AND CLEAR AREA WHEN DIRECTED TO DO SO BY ARCHITECT.

QUALITY OF WORKMANSHIP, MAINTENANCE AND TO INITIATE INSTRUCTIONS WHEN NECESSARY

3.6 EXAMINATION

A. PRODUCTS SPECIFIED BY REFERENCE STANDARD OR BY DESCRIPTION ONLY: ANY PRODUCT MEETING THOSE STANDARDS OR DESCRIPTION. B. PRODUCTS SPECIFIED BY NAMING ONE OF MORE MANUFACTURERS, PRODUCTS OF ONE MANUFACTURERS NAMED AND MEETING A. VERIFY THAT EXISTING SITE CONDITIONS AND SUBSTRATE SURFACES ARE ACCEPTABLE FOR SUBSEQUENT WORK. BEGINNING SPECIFICATIONS NO OPTIONS OR SUBSTITUTIONS ALLOWED NEW WORK MEANS ACCEPTANCE OF EXISTING CONDITIONS. PRODUCTS SPECIFIED BY NAMING ONE OR MORE MANUFACTURERS WITH A PROVISION FOR SUBSTITUTIONS: SUBMIT A REQUEST B. VERIFY THAT EXISTING SUBSTRATE IN CAPABLE OF STRUCTURAL SUPPORT OF ATTACHMENT OF NEW WORK BEING APPLIED OR FOR SUBSTITUTION FOR ANY MANUFACTURER NOT NAMED IN ACCORDANCE WITH THE FOLLOWING ARTICLE. ATTACHED 1. HAS INVESTIGATED PROPOSED PRODUCT AND DETERMINED THAT IT MEETS OR EXCEEDS THE QUALITY LEVEL OF C. VERIFY TOLERANCES OF EXISTING SUBSTRATE FOR PLUMB. LEVEL, PLANE AND LINE ARE ACCEPTABLE FOR ATTACHMENT OF THE SPECIFIED PRODUCT NEW WORK 2. WILL PROVIDE THE SAME WARRANTY FOR THE SUBSTITUTION AS FOR THE SPECIFIED PRODUCT D. EXAMINE AND VERIEV SPECIFIC CONDITIONS DESCRIBED IN INDIVIDUAL SPECIFICATION SECTIONS 3. WILL COORDINATE INSTALLATION AND MAKE CHANGES TO OTHER WORK WHICH MAY BE REQUIRED FOR E. VERIFY THAT UTILITY SERVICES ARE AVAILABLE OF THE CORRECT CHARACTERISTICS AND IN THE CORRECT LOCATIONS. TO BE COMPLETE WITH NO ADDITIONAL COST TO OWNER. 4. WAIVES CLAIMS FOR ADDITIONAL COSTS OR TIME EXTENSION WHICH MAY SUBSEQUENTLY BECOME APPARENT

3.7 PREPARATION A. SAMPLES SUBMIT TO ARCHITECT FOR REVIEW FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH NEW MATERIAL OR SUBSTANCE IN CONTACT OR BOND. 2. SUBMIT SAMPLES OF FINISHES FROM THE FULL RANGE OF MANUFACTURERS' STANDARD COLORS, TEXTURES PART 4: TESTING REQUIREMENTS AND PATTERNS FOR ARCHITECT SELECTION. INCLUDE CUSTOM COLORS AND OTHER PRODUCT CHARACTERISTICS

INSTALLATION/APPLICATION SUBCONTRACTOR OR THE CONTRACTOR TO ARCHITECT IN QUANTITIES AS SCHEDULED IN THIS

A. FOR PRODUCTS OR WORKMANSHIP SPECIFIED BY ASSOCIATION TRADE, OR OTHER CONSENSUS STANDARDS, COMPLY REQUIREMENTS OF THE STANDARD, EXCEPT WHEN MORE RIGID REQUIREMENTS ARE SPECIFIED OR ARE REQUIRED BY APPLICABLE

B. CONFORM TO REFERENCE STANDARD BY DATE OF ISSUE CURRENT ON DATE OF CONTRACT DOCUMENTS EXCEPT WHERE A C. WHEN SPECIFIED REFERENCE STANDARDS CONFLICT WITH CONTRACT DOCUMENTS, REQUEST CLARIFICATION FROM THE D. NEITHER THE CONTRACTUAL RELATIONSHIPS, DUTIES OR RESPONSIBILITIES OF THE PARTIES IN CONTRACT NOR THOSE OF THE

A. WHEN SPECIFIED IN INDIVIDUAL SPECIFICATION SECTIONS, REQUIRE MATERIAL OR PRODUCT SUPPLIERS OR MANUFACTURERS TO PROVIDE QUALIFIED STAFF PERSONNEL TO OBSERVE SITE CONDITIONS, CONDITIONS OF SURFACES AND INSTALLATION, B. REPORT OBSERVATIONS AND SITE DECISIONS OR INSTRUCTIONS GIVEN TO APPLICATORS OR INSTALLERS THAT ARE SUPPLEMENTAL OR CONTRACT TO MANUFACTURERS WRITTEN INSTRUCTIONS. C. SUBMIT REPORT OF FIELD SERVICES WITHIN 5 DAYS OF OBSERVATION.

A. CLEAN SUBSTRATE SURFACES PRIOR TO APPLYING NEXT MATERIAL OR SUBSTANCE. B. SEAL CRACKS OR OPENINGS OF SUBSTRATE PRIOR TO APPLYING NEXT MATERIAL OR SUBSTANCE C. APPLY MANUFACTURER REQUIRED OR RECOMMENDED SUBSTRATE PRIMER, SEALER OR CONDITIONER PRIOR TO APPLYING ANY

4.2 QUALITY ASSURANCE

A. LABORATORY: AUTHORIZED TO OPERATE IN STATE IN WHICH PROJECT IS LOCATED PART 7: OWNER FURNISHED ITEMS B. LABORATORY STAFF: MAINTAIN A FULL TIME REGISTERED ENGINEER ON STAFF TO REVIEW SERVICES C. TESTING EQUIPMENT: CALIBRATED AT REASONABLE INTERVALS WITH DEVICES OF AN ACCURACY TRACEABLE TO EITHER NOTE: REFER TO CONTRACT WITH OWNER FOR OWNER PROVIDED ITEMS. .C. TO COORDINATE WITH OWNER ON OWNER SUPPLIED NATIONAL BUREAU OF STANDARDS OR ACCEPTED VALUES OF NATURAL PHYSICAL CONSTANTS. PURCHASED, AND INSTALLED ITEMS PART 8: EXECUTION REQUIREMENTS

4.3 CONTRACTOR SUBMITTALS A. PRIOR TO THE START OF WORK, SUBMIT TESTING LABORATORY NAME, ADDRESS, TELEPHONE AND NAMES OF FULL TIME REGISTERED ENGINEER AND RESPONSIBLE OFFICER.

4.4 LABORATORY RESPONSIBILITIES

A. THE INDEPENDENT FIRM WILL PERFORM TEST, INSPECTIONS AND OTHER SERVICES SPECIFIED IN INDIVIDUAL SPECIFICATION SECTIONS 1. PERFORM ADDITIONAL INSPECTIONS AND TESTS REQUIRED BY OWNER OR ARCHITECT. B. TESTING, INSPECTORS AND SOURCE QUALITY CONTROL, MAY OCCUR ON OR OFF THE PROJECT SITE, PERFORM OFF-SITE TESTING AS REQUIRED BY THE ARCHITECT OR THE OWNER.

C. TEST SAMPLES OF MIXES SUBMITTED BY CONTRACTOR. D. PROVIDE QUALIFIED PERSONNEL AT SITE COOPERATE WITH OWNER AND CONTRACTOR IN PERFORMANCE OF SERVICES. .. PERFORM SPECIFIED INSPECTION, SAMPLING, AND TESTING OF PRODUCTS IN ACCORDANCE WITH SPECIFIED STANDARDS. 5. ASCERTAIN COMPLIANCE OF MATERIALS AND MIXES WITH REQUIREMENTS OF CONTRACT DOCUMENTS

G. PROMPTLY NOTIFY OWNER, ARCHITECT AND CONTRACTOR F OBSERVED IRREGULARITIES OR NON CONFORMANCE OF WORK OR PRODUCTS H. ATTEND PRE CONSTRUCTION CONFERENCES AND PROGRESS MEETINGS AS REQUIRED

4.5 LABORATORY REPORTS

A. AFTER EACH INSPECTION AND TEST, PROMPTLY SUBMIT COPIES OF LABORATORY REPORT TO THE FOLLOWING: 1. ARCHITECT, TWO COPIES 2. OWNER, ONE COPY

3. CONTRACTOR, TWO COPIES 4. LOCAL AUTHORITY HAVING JURISDICTION, ONE COPY

- B. INCLUDE 1. DATE ISSUED
 - 2. PROJECT TITLE AND NUMBER 3. NAME OF INSPECTOR
 - 4. DATE AND TIME OF SAMPLING OR INSPECTION 5. IDENTIFICATION OF PRODUCT AND SPECIFICATION SECTION.
 - 6. LOCATION IN THE PROJECT. 7. TYPE OF INSPECTION OR TEST
 - 8. DATE OF TEST. 9. RESULTS OF TESTS

10 CONFORMANCE WITH CONTRACT DOCUMENTS C. WHEN REQUESTED BY OWNER OR ARCHITECT, PROVIDE INTERPRETATION OF TEST RESULTS.

6 CONTRACTOR RESPONSIBILITIES

6. MANUFACTURERS INSTRUCTION FOR ASSEMBLY, INSTALLATION AND ADJUSTING. A. DELIVER TO LABORATORY AT DESIGNATED LOCATION, ADEQUATE SAMPLES OF MATERIALS PROPOSED TO BE USED WHICH 7. REQUESTS FOR INTERPRETATION. REQUIRE TESTING ALONG WITH PROPOSED MIX DESIGNS. B. COOPERATE WITH LABORATORY PERSONNEL, AND PROVIDE ACCESS TO THE WORK AND TO MANUFACTURERS FACILITIES. C. PROVIDE INCIDENTAL LABOR AND FACILITIES TO PROVIDE ACCESS TO WORK TO BE TESTED TO OBTAIN AND HANDLE SAMPLE AT 8.5 SPARE PARTS AND MAINTENANCE PRODUCTS THE SITE OR AT SOURCE OF PRODUCTS TO BE TESTED TO FACILITATE TESTS AND INSPECTIONS, STORAGE AND CURING OF TESTS A. PROVIDE SPARE PARTS, MAINTENANCE AND EXTRA PRODUCTS IN QUANTITIES SPECIFIED IN INDIVIDUAL SPECIFICATION SAMPI FS D. NOTIFY LABORATORY 24 HOURS PRIOR TO EXPECTED TIME FOR OPERATING REQUIRING INSPECTION AND TESTING SERVICES. B. DELIVER TO PROJECT SITE AND PLACE IN LOCATION AS DIRECTED: OBTAIN RECEIPT PRIOR TO FINAL PAYMENT COORDINATE SCHEDULE WITH LABORATORY TO ENSURE TESTING AND INSPECTION PERSONNEL ARE AVAILABLE AT THE SITE WHEN REQUIRED WORK IN PROGRESS 8.6 PRODUCT WARRANTIES AND PRODUCT BONDS E. ARRANGE WITH LABORATORY AND PAY FOR ADDITIONAL SAMPLES AND TESTS REQUIRED BY CONTRACTOR BEYOND SPECIFIED REQUIREMENTS.

4.7 TESTING AND INSPECTION SCHEDULE

A. SECTION INCLUDES: 1.PRODUCTS

2. PRODUCT DELIVERY REQUIREMENTS 3. PRODUCT STORAGE AND HANDLING REQUIREMENTS

4. PRODUCT OPTIONS 5. PRODUCTS SUBSTITUTION PROCEDURES

6.2 PRODUCTS

A. PROVIDE PRODUCTS OF QUALIFIED MANUFACTURERS SUITABLE FOR INTENDED USE PROVIDE PRODUCTS OF WHICH TYPE BY A SINGLE MANUFACTURER UNLESS SPECIFIED OTHERWISE B. DO NOT USE MATERIALS AND EQUIPMENT REMOVED FROM EXISTING PREMISES, EXCEPT AS SPECIFICALLY PERMITTED BY THE CONTRACT DOCUMENTS C. PROVIDE INTERCHANGEABLE COMPONENTS OF THE SAME MANUFACTURER FOR COMPONENTS BEING REPLACED.

6.3 PRODUCTS DELIVERY REQUIREMENTS

A. PACKAGE PRODUCT FOR PROTECTION DURING SHIPMENT, HANDLING AND STORAGE, PROTECT SENSITIVE EQUIPMENT AND FINISHES AGAINST IMPACT, ABRASION AND OTHER DAMAGE B. TRANSPORT AND HANDLE PRODUCTS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

C. ARRANGE DELIVERIES OF PRODUCTS IN ACCORDANCE WITH PROJECT SCHEDULE ALLOW TIME FOR INSPECTION PRIOR TO INSTALLATION D. COORDINATE DELIVERIES TO AVOID CONFLICT WITH WORK AND CONDITIONS AR THE SITE, LIMITATIONS ON STORAGE SPACE, AVAILABILITY OF PERSONNEL AND HANDLING EQUIPMENT, AND OWNERS USE OF PREMISES. E. DELIVER PRODUCTS IN UNDAMAGED, DRY CONDITION, IN ORIGINAL UNOPENED CONTAINERS OR PACKAGING WITH IDENTIFYING

LABELS INTACT AND LEGIBLE F. CLEARLY MARK PARTIAL DELIVERIES ON COMPONENT PARTS OF EQUIPMENT TO IDENTIFY EQUIPMENT AND CONTENTS TO PERMIT EASY ACCUMULATION OF PARTS AND TO FACILITATE ASSEMBLY. G. PROMPTLY INSPECT SHIPMENTS TO ENSURE THAT PRODUCTS COMPLY WITH REQUIREMENTS, QUANTITIES ARE CORRECT AND PRODUCTS ARE UNDAMAGED H. PROVIDE EQUIPMENT AND PERSONNEL TO HANDLE PRODUCTS BY METHODS TO PREVENT SOILING, DISFIGUREMENT, OF DAMAGE.

6.4 PRODUCT STORAGE AND HANDLING REQUIREMENTS

A. STORE AND PROTECT PRODUCTS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. B. STORE WITH SEALS AND LABELS INTACT AND LEGIBLE.

C. STORE SENSITIVE PRODUCTS IN WEATHER TIGHT, CLIMATE CONTROLLED ENCLOSURES IN AN ENVIRONMENT FAVORABLE TO PRODUCT D. FOR EXTERIOR STORAGE OF FABRICATED PRODUCTS, PLACE ON SLOPED SUPPORTS ABOVE GROUND

E. PROVIDE OFF-SITE STORAGE AND PROTECTION WHEN SITE DOSE NOT PERMIT ON-SITE STORAGE OR PROTECTION. . COVER PRODUCTS SUBJECT TO DETERIORATION WITH IMPERVIOUS SHEET COVERING. PROVIDE VENTILATION TO PREVENT CONDENSATION AND DEGRADATION OF PRODUCTS G. STORE LOOSE GRANULAR MATERIAL ON SOLID FLAT SURFACES IN A WELL-DRAINED AREA, PREVENT MIXING WITH FOREIGN MATTER H. PROVIDE EQUIPMENT AND PERSONNEL TO STORE PRODUCTS BY METHODS TO PREVENT SOILING, DISFIGUREMENT, OR DAMAGE. I. ARRANGE STORAGE OF PRODUCTS TO PERMIT ACCESS FOR INSPECTION PERIODICALLY INSPECT TO VERIFY PRODUCTS ARE UNDAMAGED AND ARE MAINTAINED IN ACCEPTABLE CONDITION.

6.5 PRODUCT OPTIONS

A. PRODUCTS SPECIFIED BY REFERENCE STANDARD OR BY DESCRIPTION ONLY: ANY PRODUCT MEETING THOSE STANDARDS OR DESCRIPTION B. PRODUCTS SPECIFIED BY NAMING ONE OF MORE MANUFACTURERS, PRODUCTS OF ONE MANUFACTURERS NAMED AND MEETING SPECIFICATIONS, NO OPTIONS OR SUBSTITUTIONS ALLOWED. C. PRODUCTS SPECIFIED BY NAMING ONE OR MORE MANUFACTURERS WITH A PROVISION FOR SUBSTITUTIONS: SUBMIT A REQUEST FOR SUBSTITUTION FOR ANY MANUFACTURER NOT NAMED IN ACCORDANCE WITH THE FOLLOWING ARTICLE.

6.6 PRODUCTS SUBSTITUTION PROCEDURES

E. SUBSTITUTIONS WILL NOT BE CONSIDERED:

1. WHEN THEY ARE INDICATED OR IMPLIED ON SHOP DRAWING OR PRODUCT AND PROPOSED DATA SUBMITTALS WITHOUT SEPARATE WRITTEN REQUEST

- 2. WHEN ACCEPTANCE WILL REQUIRE REVISION TO CONTRACT DOCUMENTS. 3. WHEN REQUEST IS FROM A SOURCE OTHER THAN CONTRACTOR.
- F. SUBSTITUTION SUBMITTAL PROCEDURE: 1. SUBMIT ONE COPY OF REQUEST FOR SUBSTITUTION FOR CONSIDERATION
- 2. SUBMIT SIDE-BY-SIDE COMPARISON OF FEATURES OF SPECIFIED PRODUCT AND PROPOSED SUBSTITUTION. BURDEN OF PROOF THAT PROPOSED SUBSTITUTION IS EQUIVALENT TO SPECIFIED PRODUCT IS ON PROPOSAL 3. SUBMIT SHOP DRAWINGS, PRODUCT DATA AND CERTIFIED TEST RESULTS ATTESTING TO THE PROPOSED PRODUCT EQUIVALENCE 4. THE ARCHITECT WILL NOTIFY CONTRACTOR IN WRITING OF DECISION TO ACCEPT OR REJECT REQUEST
- 5. ARCHITECT WILL CONSIDER ONLY ONE REQUEST FOR SUBSTITUTION FOR EACH PRODUCT. IF REQUEST IS NOT ACCEPTED PROVIDE SPECIFIED PRODUCT.

8.1 CLOSEOUT PROCEDURES

A. SUBMIT WRITTEN CERTIFICATION THAT CONTRACT DOCUMENTS HAVE BEEN REVIEWS, WORK HAS BEEN INSPECTED AND THAT WORK IS COMPLETE IN ACCORDANCE WITH CONTRACT DOCUMENTS AND READY FOR ARCHITECTS REVIEW. B. PROVIDE SUBMITTALS TO ARCHITECT THAT ARE REQUIRED BY GOVERNING OR OTHER AUTHORITIES.

C. SUBMIT FINAL APPLICATION FOR PAYMENT IDENTIFYING TOTAL ADJUSTED CONTRACT SUM, PREVIOUS PAYMENTS, AND SUM REMAINING DUE D. OWNER WILL OCCUPY THE PROJECT AT SUBSTANTIAL COMPLETION.

8.2 FINAL CLEANING

A. EXECUTE FINAL CLEANING PRIOR TO FINAL PROJECT ASSIGNMENT B. CLEAN BUILDING AND SITE AREA AFFECTED BY CONSTRUCTION OPERATIONS

- C. CLEAN INTERIOR AND EXTERIOR GLASS, SURFACES EXPOSED TO VIEW: REMOVE TEMPORARY LABELS, STAINS AND FOREIGN SUBSTANCES POLISH TRANSPARENT AND GLOSSY SURFACES, VACUUM CARPETED AND SOFT SURFACES. D. CLEAN EQUIPMENT AND FIXTURES TO A SANITARY CONDITION WITH CLEANING MATERIALS APPROPRIATE TO THE SURFACE AND
- MATERIAL BEING CLEANED. E. CLEAN PERMANENT AND REPLACE DISPOSABLE FILTERS OF OPERATING EQUIPMENT USED DURING PROGRESS OF WORK.
- F. CLEAN DEBRIS FROM ROOFS, GUTTERS, DOWN SPOUTS AND DRAINAGE SYSTEMS. G. CLEAN SITE; SWEEP PAVED AREAS, RAKE CLEAN LANDSCAPED SURFACES.
- H. REMOVE WASTE AND SURPLUS MATERIALS, RUBBISH AND CONSTRUCTION FACILITIES FROM THE SITE

8.3 PROTECTING INSTALLED CONSTRUCTION

A. PROTECT INSTALLED WORK AND PROVIDE SPECIAL PROTECTION WHERE SPECIFIED IN INDIVIDUAL SPECIFICATION SECTIONS. B. PROVIDE TEMPORARY AND REMOVABLE PROTECTION FOR INSTALLED PRODUCTS. CONTROL ACTIVITY IN IMMEDIATE WORK AREA TO PREVENT DAMAGE

C. PROVIDE PROTECTIVE COVERINGS AT WALLS. PROJECTIONS, JAMBS, SILLS AND SOFFITS OR OPENINGS D. PROTECT FINISHED FLOORS, STAIRS AND OTHER SURFACES FROM TRAFFIC, DIRY, WEAR, DAMAGE OR MOVEMENT OF HEAVY OBJECTS BY RECOMMENDATIONS FOR PROTECTION FROM WATERPROOFING OR ROOFING MATERIAL MANUFACTURER. F. PROHIBIT TRAFFIC FROM LANDSCAPED.

8.4 PROTECT RECORD DOCUMENTS

A. MAINTAIN ON SITE ONE SET OF THE FOLLOWING RECORD DOCUMENTS, RECORD ACTUAL REVISION TO THE WORK 1. DRAWINGS

2. SPECIFICATIONS.

- 3. ADDENDA. 4. CHANGE ORDERS AND OTHER MODIFICATIONS TO THE CONTRACT.
- 5. REVIEWED SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.

A. OBTAIN WARRANTIES AND BONDS EXECUTED IN TRIPLICATE BY RESPONSIBLE SUBCONTRACTORS, SUPPLIERS AND

- MANUFACTURERS B. EXECUTE AND ASSEMBLE TRANSFERABLE WARRANTY DOCUMENTS AND BONDS FROM SUBCONTRACTORS, SUPPLIERS AND MANUFACTURERS.
- C VERIFY THAT DOCUMENTS ARE IN PROPER FORM, CONTAIN FULL INFORMATION AND ARE NOTARIZED. D. CO-EXECUTE SUBMITTALS WHEN REQUIRED.

C. INCLUDE SYSTEMATIC EXAMINATION ADJUSTMENT, AND LUBRICATION OF COMPONENTS, REPAIR OR REPLACE PARTS WHENEVER REQUIRED. USE PARTS PRODUCED BY THE MANUFACTURER OF THE ORIGINAL COMPONENT. D. DO NOT ASSIGN OR TRANSFER MAINTENANCE SERVE TO ANY AGENT OR SUBCONTRACTOR WITHOUT PRIOR WRITTEN CONSENT OF THE OWNER.

PART 9: CUTTING AND PATCHING PART 11: BUILDING INSULATION PART 13: FIRE STOPPING MATERIALS 9.1 SUMMARY <u>11.1 SUMMARY</u> 13.1 SUMMARY A. SECTION INCLUDES: A. SECTION INCLUDES: A. SECTION INCLUDES: 1. REQUIREMENTS AND LIMITATIONS FOR CUTTING AND PATCHING OF THE NEW WORK AND EXISTING 1. BOARD INSULATION AT PERIMETER FOUNDATION WALL 1. FIRESTOPPING FOR THROUGH PENETRATIONS AND JOINTS IN FIRE RATED ASSEMBLIES. FACILITIES. 2. BATT INSULATION IN EXTERIOR WALL CONSTRUCTION. 2. FIRE RESISTANT JOINTS IN FIRE RATED FLOOR, ROOF, AND WALL ASSEMBLIES 3. FIRE RESISTANT JOINTS BETWEEN FLOOR SLABS AND EXTERIOR WALLS. 9.2 SUBMITTALS 11.2 ENVIRONMENTAL REQUIRMENTS **13.2 SYSTEM DESCRIPTION** A. SUBMITTAL PROCEDURES A. PRODUCT REQUIREMENTS B. SUBMIT WRITTEN REQUEST IN ADVNCE FO CUTTING OR ALTERATION WHCI AFFECTS: A. THROUGH PENETRATION FIRESTOPPING OF FIRE RATED ASSEMBLIES: ASTM E814 WITH 0.10 INCH WATER GAGE B. DO NOT INSTALL ADHESIVE WHEN TEMPERATURE OR WEATHER CONDITIONS ARE DETRIMENTAL TO SUCCESSFUL 1. STRUCTURAL INTEGRITY OF ANY ELEMENT OF A PROJECT. MINIMUM POSITIVE PRESSURE DIFFERENTIAL TO ACHIEVE FIRE F-RATING AND TEMPERATURE T-RATINGS AS INSTALLATION. 2. INTEGRITY OF WEATHER EXPOSED OF MOISTURE RESISTANT ELEMENT. INDICATED ON DRAWINGS, BUT NOT LESS THAN 1 HOUR. **11.3 BOARD INSULATION** 3. EFFICIENCY, MAINTENANCE OR SAFETY OF ANY OPERATIONAL ELEMENT 1. WALL PENETRATIONS: FIRE F-RATING AS INDICATED ON DRAWINGS, BUT NOT LESS THAN 1 HOUR. 4. VISUAL QUALITIES OF SIGHT EXPOSED ELEMENTS. A. MANUFACTURERS 2. FLOOR AND ROOF PENETRATIONS: FIRE F-RATINGS AND TEMPERATURE T-RATINGS AS INDICATED ON 5. WORK OF OWNER OF SEPARATE CONTRACTOR. 1. DOW CHEMICAL COMPANY: STYROFOAM SQUARE EDGE. DRAWINGS, BUT NOT LESS THAN 1 HOUR. 6. CONTINUOUS OPERATION OF UTILITIES, BUILDING SERVICES, FIRE SUPPRESSION, FIRE ALARM OR 2. OWENS CORNING; FOAMULAR 250 A. FLOOR PENETRATIONS WITHIN WALL CAVITIES: T-RATING IS NOT REQUIRED SECURITY SYSTEM 3. PACTIVE BUILDING PRODUCTS; GREENGUARD CM INSULATION BOARD. B. FIRE RESISTANT JOINTS IN FIRE RATED FLOOR ROOF AND WALL ASSEMBLIES: UL 2079 TO ACHIEVE FIRE C. INCLUDE IN REQUEST: 4. PRODUCT REQUIREMENTS. RESISTANT RATING AS INDICATED ON DRAWINGS FOR ASSEMBLY IN WHICH JOINT IS INSTALLED. 1. IDENTIFICATION OF PROJECT B. BOARD INSULATION: ASTM 0578, TYPE IV EXTRUDED POLYSTYRENE LABELED BY AN APPROVED AGENCY, C. FIRE RESISTANT JOINTS BETWEEN FLOOR SLABS AND EXTERIOR WALLS: ASTM E119 WITH 0.10 INCH WATER GAGE 2. LOCATION AND DESCRIPTION OF AFFECTED WORK. CONFORMING TO THE FOLLOWING: 3. NECESSITY FOR CUTTING OR ALTERATION. 1. THERMAL RESISTANCE R OF 5.0 PER INCH THICKNESS MINIMUM AT 75 DEGREES F, ASTM 0518. FOR FLOOR ASSEMBLY. 4. DESCRIPTIONS OF PROPOSED WORK AND PRODUCTS TO BE USED D. SURFACE BURNING CHARACTERISTICS: CLASS A WHEN TESTED IN ACCORDANCE WITH ASTM E84 FOR MATERIALS 2. COMPRESSIVE STRENGTH: MINIMUM 25 PSI, ASTM D162 5. ALTERNATIVE TO CUTTING AND PATCHING 3. WATER ABSORPTION: MAXIMUM 0.1 PERCENT BY VOLUME, ASTM D272. EXPOSED TO BUILDING INTERIOR IN COMPLETED CONSTRUCTION. 6. EFFECT ON WORK OF OWNER OR SEPARATE CONTRACTOR 4. EDGES: SQUARE EDGES. 13.3 PERFORMANCE REQUIREMENTS WRITTEN PERMISSION OF AFFECTED SEPARATE CONTRACTOR. 5. FLAME/SMOKE PROPERTIES: 25/450 MAXIMUM IN ACCORDANCE WITH ASTM E84. 8. DATE AND TIME WORK WILL BE EXECUTED. 11.4 BATT INSULATION TESTING SERVICES (WARNOCK HERSEY LISTED). 9.3 WARRENTY B. PROVIDE CERTIFICATE OF COMPLIANCE FROM AUTHORITY HAVING JURISDICTION INDICATING APPROVAL OF A. MANUFACTURERS: A. PERFORM CUTTING AND PATCHING IN A MANNER TO PRESERVE CONDITIONS SUITABLE FOR EXECUTING 1. OWENS CORNING THERMAL SPREAD 25 INSULATION MATERIALS USED. SPECIFIED WARRANTIES AND MAINTAINING PREVIOUSLY ISSUED WARRANTIES FOR THE WORK. 2. CERTAINTEED; FLAME RESISTANT FOIL INSULATION (FSK-25) **13.4 ENVIRONMENTAL REQUIREMENTS** 3. JOHNS MANSVILLE; FSK-25 FIBER GLASS THERMAL INSULATION. 9.4 EXAMINATION A. PRODUCT REQUIREMENTS. 4. KNAUF FIBER GLASS; FSK-25 BATT INSULATION. B. DO NOT APPLY MATERIALS WHEN TEMPERATURE OF SUBSTRATE MATERIAL AND AMBIENT AIR IS BELOW 60 A. EXAMINE EXISTING CONDITIONS PRIOR TO COMMENCING WORK, INCLUDING ELEMENTS SUBJECT TO DAMAGE OR 5. PRODUCT REQUIREMENTS. DEGREES F MOVEMENT DURING CUTTING AND PATCHING. 11.5 ACCESSORIES C. MAINTAIN THIS MINIMUM TEMPERATURE BEFORE, DURING, AND FOR MINIMUM 3 DAYS AFTER INSTALLATION OF B. AFTER UNCOVERING EXISTING WORK, ASSESS CONDITIONS AFFECTING PERFORMANCE OF WORK. MATERIALS A. ADHESIVE: GUN GRADE MASTIC TYPE, AS RECOMMENDED BY INSULATION MANUFACTURER FOR APPLICATION C. BEGINNING OF CUTTING OR PATCHING MEANS ACCEPTANCE OF EXISTING CONDITIONS. D. PROVIDE VENTILATION IN AREAS TO RECEIVE SOLVENT CURED MATERIALS B. TAPE: BRIGHT ALUMINUM SELF-ADHERING TYPE FOR FOIL FACED INSULATION. <u>9.5 PREPERATION</u> C. WIRE MESH: GALVANIZED STEEL, HEXAGONAL WIRE MESH. 13.5 FIRESTOPPING D. SPINDLE FASTENERS: TYPE RECOMMENDED BY INSULATION MANUFACTURER TO SUIT APPLICATION. A. PROVIDE TEMPORARY SUPPORTS TO ENSURE STRUCTURAL INTEGRITY OF THE WORK PROVIDE DEVICES AND A. MANUFACTURERS PART 3 EXECUTION METHODS TO PROTECT OTHER PORTIONS OF PROJECT FROM DAMAGE. 1. NELSON B. PROVIDE PROTECTION FROM ELEMENTS FOR AREAS WHICH MAY BE EXPOSED BY UNCOVERING WORK. 11.6 INSTALLATION-FOUNDATION-BOARD INSULATION 2. 3M FIRE PROTECTION PRODUCTS. C. MAINTAIN EXCAVATIONS FREE OF WATER. C. COLOR: DARK GRAY A. ADHERE A 6 INCH WIDE STRIP OF POLYETHYLENE SHEET OVER CONSTRUCTION JOINTS WITH DOUBLE BEADS OF <u>9.5 PREPERATION</u> ADHESIVE EACH SIDE OF JOINT. 13.6 FIRESTOPPING 1. TAPE SEAL JOINTS. A. PROVIDE TEMPORARY SUPPORTS TO ENSURE STRUCTURAL INTEGRITY OF THE WORK PROVIDE DEVICES AND A. FILL, VOID AND CAVITY MATERIALS: ONE OR MORE OF THE FOLLOWING TYPES, AS APPROPRIATE FOR 2. EXTEND SHEET FULL HEIGHT OF JOINT. METHODS TO PROTECT OTHER PORTIONS OF PROJECT FROM DAMAGE. PARTICULAR CONSTRUCTION CONDITIONS. B. APPLY ADHESIVE TO INSULATION IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. B. PROVIDE PROTECTION FROM ELEMENTS FOR AREAS WHICH MAY BE EXPOSED BY UNCOVERING WORK. 1. SILICONE FOAM MATERIAL, ROOM TEMPERATURE, VULCANIZING, 14 TO 20 LB/CU FT DENSITY. C. INSTALL BOARDS ON FOUNDATION WALL PERIMETER. C. MAINTAIN EXCAVATIONS FREE OF WATER. 2. SILICONE SEALANT MATERIAL, EXCEPT ON FINISHED SURFACES TO BE PAINTED. 1. PLACE BOARDS IN A METHOD TO MAXIMIZE CONTACT BEDDING 9.6 CUTTING 3. CAULK TYPE MATERIAL BUTT EDGES AND ENDS TIGHT TO ADJACENT BOARD AND TO PROTRUSIONS. 4. PUTTY TYPE MATERIAL D. EXTEND BOARDS OVER CONTROL AND EXPANSION JOINTS, MINIMUM THREE INCHES ON ONE SIDE OF JOINT. A. EXECUTE WORK BY METHODS TO AVOID DAMAGE TO OTHER WORK, AND WHICH WILL PROVIDE PROPER 5. COMPOSITE SHEET TYPE MATERIAL, 1/4 INCH NOMINAL THICKNESS, FOIL-FACED. BOND INSULATION TO ONLY ONE SIDE OF EACH JOINT SURFACES TO RECEIVE PATCHING AND FINISHING. 6. WRAP STRIP TYPE MATERIAL, 1/4 IN NOMINAL THICKNESS, INTUMESCENT ELASTOMERIC. E. CUT AND FIT INSULATION TIGHT TO PROTRUSIONS OR INTERRUPTIONS TO THE INSULATION PLANE. B. IDENTIFY HAZARDOUS SUBSTANCES OR CONDITIONS EXPOSED DURING THE WORK TO THE ARCHITECT OF 7. MORTAR AS SPECIFIED IN SECTION 04065 WHERE PERMITTED BY APPLICABLE CODE. DECISION OR REMEDY. **11.7 INSTALLATION-BATT INSULATION** B. PACKING MATERIALS: ONE OR MORE OF THE FOLLOWING TYPES, AS APPROPRIATE FOR PARTICULAR C. EXECUTE CUTTING AND FITTING TO COMPLETE THE WORK. CONSTRUCTION CONDITIONS. A. INSTALL IN EXTERIOR WALLS WITHOUT GAPS OF VOIDS FLUFF INSULATION TO FULL THICKNESS FOR SPECIFIED R-D. UNCOVER WORK TO INSTALL IMPROPERLY SEQUENCED WORK 1. CERAMIC FIBER BLANKET, 4 LB/CU FT. DENSITY. VALUE BEFORE INSTALLATION. DO NOT COMPRESS INSULATION. E. REMOVE AND REPLACE DEFECTIVE OR NON-CONFORMING WORK 2. CERAMIC FIBER INSULATION, MINIMUM 1 INCH THICK, 8 LB/CU FT MINIMUM DENSITY. B. TRIM IN INSULATION NEATLY TO FIT SPACES, INSULATE MISCELLANEOUS GAPS AND VOIDS F. REMOVE SAMPLES OF INSTALLED WORK FOR TESTING WHEN REQUESTED. 3. MINERAL WOOL BATT INSULATION, 6.0 LB/CU MINIMUM DENSITY. C. FIT INSULATION TIGHT TIN SPACES AND TIGHT TO EXTERIOR SIDE OF MECHANICAL AND ELECTRICAL SERVICES G. PROVIDE OPENINGS IN THE WORK FOR PENETRATION OF MECHANICAL AND ELECTRICAL WORK. C. FORMING MATERIALS: AS REQUIRED BY TESTED DESIGN FOR PARTICULAR CONSTRUCTION CONDITIONS. WITHIN THE PLACE OF INSULATION. H. NEW CONSTRICTION: EMPLOY ORIGINAL INSTALLER TO PERFORM CUTTING FOR WEATHER EXPOSED AND D. INSTALL WITH FACTORY APPLIED VAPOR RETARDER MEMBRANE FACING WARM SIDE OF BUILDING SPACES LAP 13.7 ACCESSORIES MOISTURE RESISTANT ELEMENTS AND SIGHT EXPOSED SURFACES. ENDS AND SIDE FLANGES OF MEMBRANE OVER FRAMING MEMBERS. TAPE IN PLACE. A. PRIMER: TYPE RECOMMENDED BY FIRESTOPPING MANUFACTURER FOR SPECIFIC SUBSTRATE SURFACES AND I. FOR SIGHT EXPOSED SURFACES: E. TAPE SEAL BUTT ENDS, LAPPED FLANGES AND TEARS OR CUTS IN MEMBRANE SUITABLE FOR REQUIRED FIRE RATINGS. 1. CUTTING NEW WORK: EMPLOY ORIGINAL INSTALLER. F. RETAIN INSULATION IN PLACE WITH WIRE MESH SECURED TO HORIZONTAL FRAMING MEMBERS WHERE 2. CUTTING EXISTING FACILITIES TO ACCOMMODATE NEW WORK: EMPLOY QUALIFIED INSTALLER B. DAM MATERIAL FOR PERMANENT INSTALLATION. REQUIRED J. CUT RIGID MATERIALS USING POWER SAW OR CORE DRILL. PNEUMATIC TOOLS NOT ALLOWED WITHOUT PRIOR 1. MINERAL FIREBOARD. G. EXTEND VAPOR RETARDED RIGHT TO FILL PERIMETER OF ADJACENT WINDOW AND DOOR FRAMES AND OTHER 2. MINERAL FIBER MATTING. APPROVAL. ITEMS INTERRUPTING THE PLACE OF MEMBRANE. TAPE SEAL IN PLACE. 3. SHEET METAL 0.6 PATCHING PART 12: JOINT SEALERS 4. PLYWOOD OR PARTICLE BOARD. A. EXECUTE PATCHING TO COMPLIMENT ADJACENT WORK 5. ALUMINA SILICATE FIRE BOARD. <u>12.1 SUMMARY</u> B. FOR PRODUCTS TOGETHER TO INTEGRATE WITH OTHER WORK A. SECTION INCLUDES C. FOR SIGHT-EXPOSED SURFACES. DEVICES REQUIRED TO POSITION AND RETAIN MATERIALS IN PLACE 1. SEALANTS AND JOINT BACKING. 1. PATCHING NEW WORK: EMPLOY ORIGINAL INSTALLER. 13.8 APPLICATION 2. PATCHING EXISTING FACILITIES TO ACCOMMODATE NEW WORK: EMPLOY QUALIFIED INSTALLER. 12.2 ENVIRONMENTAL REQUIREMENTS D. RESTORE WORK WITH NEW PRODUCTS IN ACCORDANCE WITH REQUIREMENTS OF CONTRACT DOCUMENTS. A. PRODUCTS REQUIREMENTS SLEEVES, PIPING, DUCTWORK CONDUIT AND OTHER ITEMS, REQUIRING FIRESTOPPING. E. FIT WORK TO PIPES, SLEEVES, DUCTS, CONDUIT AND OTHER PENETRATIONS THROUGH SURFACES. B. MAINTAIN TEMPERATURE AND HUMIDITY RECOMMENDED BY SEALANT MANUFACTURER DURING AND AFTER F. AT PENETRATIONS OF FIRE RATED WALL, PARTITIONS, CEILING OR FLOOR CONSTRUCTION, COMPLETELY SEAL B. APPLY PRIMER WHERE RECOMMENDED BY MANUFACTURER FOR TYPE OF FIRESTOPPING MATERIAL AND INSTALLATION. SUBSTRATE INVOLVED, AND AS REQUIRED FOR COMPLIANCE WITH REQUIRED FIRESTOPPING C. APPLY FIRESTOPPING MATERIAL IN SUFFICIENT THICKNESS TO ACHIEVE REQUIRED FIRE AND SMOKE RATING. G. REFINISH SURFACES TO MATCH ADJACENT FINISH FOR CONTINUES SURFACES, REFINISH TO NEAREST 12.3 JOINT SELERS 1. INSTALL MORTAR TO FULL THICKNESS OF MASONRY WALL AND CONCRETE FLOORS. INTERSECTION OR NATURAL BREAK. FOR AN ASSEMBLY, REFINISH ENTIRE UNIT. A. SEALANT MANUFACTURERS D. REMOVE DAM OR FORMING MATERIAL NOT REQUIRED TO REMAIN OF THE SYSTEM, AFTER FIRESTOPPING 1. PECORA CORPORATION PART 10: BENTONITE WATERPROOFING MATERIAL HAS CURED SUFFICIENTLY TO REMAIN IN PLACE. 2. GENERAL ELECTRIC SILICONES. <u>10.1 SUMMERY</u> PART 14: APPLIED FIRE PROOFING (FOR USE w/ ADD ALT #1) B. SILICONE EXTERIOR JOINTS: ASTM C920. TYPE S. GRADE NS. CLASS 25: NT. M. G. A AND O: SINGLE COMPONENT A. SECTION INCLUDES: NEUTRAL CURING, NONSTAINING.NON BLEEDING COLOR AS SELECTED 14.1 SUMMARY 1. BENTONITE FLOOR SLAB WATERPROOFING. 1. GENERAL ELECTRIC: SILPRUF. A. SECTION INCLUDES: 0.2 PERFORMANCE REQUIREMENTS 2. APPLICATIONS: USE FOR EXTERIOR NON-TRAFFIC BEARING JOINTS, INCLUDING EIFS JOINTS **1. CEMENTITIOUS FIREPROOFING** A. CONTROL AND SOFT JOINTS IN MASONRY. A. WATERPROOFING SYSTEM: CAPABLE OF PREVENTING MOISTURE MIGRATION TO INTERIOR 14.2 PERFORMANCE REQUIREMENTS B. JOINT BETWEEN CONCRETE OR STONE AND OTHER MATERIALS. 1. REFER TO SUBSURFACE INVESTIGATION REPORT FOR THE EXPECTED WATER HEAD AND WATER TABLE C. JOINTS BETWEEN METAL FRAMES AND OTHER MATERIALS. A. APPLIED (SPRAYED-ON) FIREPROOFING SYSTEMS: PROVIDE FIRE RATED ASSEMBLY RATINGS IN ACCORDANCE DEPTH C. ACRYLIC INTERIOR JOINTS: ASTM C834; SINGLE COMPONENT, SOLVENT CURING, NONSTAINING, NONBLEEDING WITH FM, UL, OR, WH TESTED. DESIGNS, CONFORMING TO APPLICABLE CODE. 2. SOIL CONTAINING ACID, ALKALI, BRINE OF GROUND WATER CONTAMINATION SHOULD HAVE SOUL NONSAGGING COLOR AS SELECTED; B. AIR EROSION: MAXIMUM ALLOWABLE WEIGHT LOSS OF FIREPROOFING SHALL BE 0.025 GRAM/SQ. FT WHEN SAMPLES SUBMITTED TO A BENTONITE CLAY WATERPROOFING PANEL MANUFACTURER FOR ANALYSIS AND 1. TREMCO: ACRYLIC LATEX. **TESTED IN ACCORDANCE WITH ASTM E859** RECOMMENDATIONS FOR SUITABILITY OF BENTONITE CLAY WATERPROOFING CAPABILITY. C. CORROSION: APPLIED FIREPROOFING SHALL NOT CONTRIBUTE TO CORROSION OF STEEL TEST PANELS WHEN 2. APPLICATIONS: USE FOR INTERIOR JOINTS ONLY 0.3 QUALIFICATIONS A. INTERIOR WALL AND CEILING CONTROL JOINTS. TESTED IN ACCORDANCE WITH ASTM E937. B. INTERIOR JOINTS BETWEEN DOOR AND WINDOW FRAMES AND WALL SURFACES. A. MANUFACTURER COMPANY SPECIALIZING IN MANUFACTURING PRODUCTS SPECIFIED IN THIS SECTION WITH EITHER ASTM C665 REQUIREMENTS FOR FUNGI RESISTANCE OF INSULATION OR ASTM 621. C. OTHER INTERIOR JOINTS FOR WHICH NO THERE TYPE OF SEALANT IS INDICATED. MINIMUM FIVE YEARS DOCUMENTED EXPERIENCE. D. POLYURETHANE TRAFFIC JOINTS: ASTM C920, TYPE M, GRADE P, CLASS 25; SELF LEVELING, TWO 14.3 ENVIRONMENTAL REQUIREMENTS 0.4 WARRENTY COMPONENT, CHEMICAL CURING, NON STAINING NONBLEEDING, CAPABLE OF CONTINUOUS WATER A. MAINTAIN MINIMUM AMBIENT AND SUBSTRATE TEMPERATURE OF 40 DEGREES F DURING AND FOR MINIMUM 24 B. PROVIDE FIVE YEAR MANUFACTURER LABOR AND MATERIAL WARRANTY FOR WATERPROOFING FAILING TO IMMERSION, COLOR AS SELECTED: HOURS AFTER APPLICATION OF FIREPROOFING, UNLESS OTHERWISE RECOMMENDED BY MANUFACTURER. RESIST PENETRATION OF WATER. 1. TREMCO, THC-900 2. APPLICATIONS: USE FOR INTERIOR AND EXTERIOR HORIZONTAL TRAFFIC BEARING JOINTS 10.5 FLOOR SLAB WATERPROOFING TO DRY APPLIED MATERIAL A. JOINTS IN CONCRETE FLOORS AND PAVING. C. PROVIDE TEMPORARY ENCLOSURE TO PREVENT SPRAY FROM CONTAMINATING AIR. A. MANUFACTURERS: B. OTHER TRAFFIC BEARING JOINTS FOR WHICH NO OTHER SEALANT IS INDICATED. 1. COLLOID ENVIRONMENTAL TECHNOLOGIES COMPANY (CETCO); VOLTEX E. EXTERIOR METAL LAP JOINT SEALANT: ASTM C1311. BUTYL OR POLYISOBUTYLENE. NONDRYING, NON SKINNING. 14.4 APPLIED CEMENTITIOUSE FIREPROOFING-LOW DENSITY 2. CARLISLE COATINGS AND WATERPROOFING; MIRCLAY NON-CURING, COLOR AS SELECTED A. MANUFACTURERS FIREPROOFING (TYPE 1- FOR INTERIOR APPLICATIONS ONLY CONCEALED FROM VIEW). B. WATERPROOFING SHEET (CONTRACTORS OPTION): 1. TREMCO. THC-900 1. GRACE CONSTRUCTION PRODUCTS: ZONOLITE MONOKOTE, MK-6/HY AND MK-65. 1. (TYPE 1): COMPOSITE WOVEN AND NON-WOVEN POLYPROPYLENE GEOTEXTILE FABRIC FACINGS, CORE 2. APPLICATIONS: USE FOR INTERIOR AND EXTERIOR HORIZONTAL TRAFFIC BEARING JOINTS 2. ISOLATEK INTERNATIONAL: CAFCO 300. FILLED WITH SELF EXPANDING A. CONCEALED SEALANT BEAD IN SHEET METAL AND FLASHING WORK 3. SOUTHWEST FIREPROOFING PRODUCTS CO.; TYPE 5GP OR TYPE 5EF. BENTONTINE CLAY GRANULES: B. CONCEALED SEALANT BEAD IN SIDING OVERLAPS. B. APPLIED FIREPROOFING (TYPE 1-REFER DRAWINGS FOR LOCATION): LOW DENSITY CEMENTITIOUS TYPE, A. NOMINAL SHEET SIZE: 4 X 15 FEET C. CONCEALED SEALANT BEAD IN THROUGH WALL FLASHING FACTORY MIXED, ASBESTOS FREE, BLENDED FOR UNIFORM TEXTUE, NON-FIBROUS MATERIALS; CONFORMING TO B. MINIMUM BENTOTINE FILL: 1.0 LB/SQ. FT. D. OTHER CONCEALED SEALANT JOINTS WHERE SPECIFIED IN OTHER SECTIONS. THE FOLLOWING REQUIREMENTS: C. PRODUCT: VOLTEX OR MIRCLAY 1. COMPRESSIVE STRENGTH: ASTM E761, MINIMUM 1,440 PSF. 2. (TYPE 2): COMPOSITE SHEET WITH SPUN POLYPROPOLENE ON ONE FACE AND HIGH DENSITY 12.4 ACCESSORIES 2. DRY DENSITY; ASTM E605, MINIMUM AVERAGE DENSITY OF 15 LB/CU FT. POLYETHYLENE ON OTHER FACE, CORE FILLED WITH SELF EXPANDING BENTOTINE CLAY GRANULES: A. PRIMER; NON-STAINING TYPE RECOMMENDED BY SEALANT MANUFACTURER TO SUIT APPLICATION.

A. NOMINAL SHEET SIZE: 4 X 15 FEET

B. MINIMUM BENTOTINE FILL: 1.0 LB/SQ. FT. C. PRODUCT: VOLTEX OR MIRCLAY

10.6 COMPONENTS

A. WATERSTOP: FLEXIBLE STRIP OF BENTOTINE WATERPROOFING COMPOUND IN COIL FORM FOR JOINTS IN CONCRETE CONSTRUCTION.

1. WATERSTOP-RX 101, MANUFACTURED BY CETCO.

2. MIRASTOP MANUFACTURED BY CARLISLE COATING & WATERPROOFING. 3. TREMCO SEALANT/WEATHERPROOFING DIVISION: SUPERSTOP 3/4 INCH.

0.7 ACCESSORIES

A. BENTOTINE MASTIC: TROWELABLE GRADE BENTOTINE WATERPROOFING FOR APPLIOCATION AT JOINTS AND PENETRATIONS.

B. LIQUID FLASHIN: TROWELABLE GRADE HIGH SOLIDS BITUMEN MODIFIED POLYURETHANE WATERPROOFING MEMBRANE. C. FASTENERS: GALVANIZED NAILS.

D. ADHESIVE: MANUFACTURER'S RECOMMENDED TYPE.

E. TAPE: MANUFACTURER'S RECOMMENDED TYPE.

F. FLEXIBLE FLASHINGS: TYPE RECOMMENDED BY WATERPROOFING MANUFACTURER TO MEET OR EXCEED SPECIFIED AND DESIGN REQUIREMENTS.

0.INSTALLATION-UNDER SLABS ON GRADE

A. APPLY WATERPROOFING IN MATERIALS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. B. APPLY WATERPROOFING MEMBRANE WITH EDGES OVERLAPPED 4 INCHES. SECURE PANELS TO PREVENT

DISPLACEMENT, STAGGER JOINTS OF ADJOINING PANEL ROWS. C. SEAL PENETRATIONS WITH MINIMUM 2 INCHES OF DRY GRANULAR BENTOTINE. CUT WATERPROOFING SHEET TO FIR TIGHT AROUND PENETRATIONS. SEAL SHEET JOINTS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. D. DO NOT EXTEND BENTOTINE PANELS OVER PILE CAPS OF FOOTINGS SUPPORTING SLAB EDGES.

E. EXTEND WATERPROOFING MEMBRANE UNDER FOOTING AND GRADE BEAMS. PROVIDE MINIMUM 6 INCH OVERLAP BETWEEN UNDER SLAB AND VERTICAL WALL WATERPROOFING

F. INSPECT WATERPROOFING BEFORE PLACING CONCRETE SLAB TO ENSURE PRODUCTS ARE NOT DAMAGED.

B. JOINT CLEANER: NON-CRROSIVE AND NON-STAINING TYPE; RECOMMENDED BY SEALANT MANUFACTURER; COMPATIBLE WITH JOINT FORMING MATERIALS. C. JOINT BACKING: ROUND FOAM ROD COMPATIBLE WITH SEALANT; OVERSIZED 30 TO 50 PERCENT LARGER THAN JOINT WIDTH; RECOMMENDED BY SEALANT MANUFACTURER TO SUIT APPLICATION. D. BOND BREAKER; PRESSURE SENSITIVE TAPE RECOMMENDED BY SEALANT MANUFACTURER TO SUIT

APPLICATION. 12.5 INSTALLATION

A. PERFORM INSTALLATION IN ACCORDANCE WITH ASTM C1193. B. MEASURE JOINT DIMENSIONS AND SIZE JOINT BACKERS TO ACHIEVE WIDTH-TO-DEPTH RATIO, NECK DIMENSION AND SURFACE BOND AREA AS RECOMMENDED BY MANUFACTURER, EXCEPT WHERE SPECIFIC DIMENSIONS ARE INDICATED

C. INSTALL BOND BREAKER WHERE JOINT BACKING IS NOT USED. D. INSTALL SEALANT FREE OF AIR POCKETS, FOREIGN EMBEDDED MATTER, RIDGES AND SAGS. E. APPLY SEALANT WITHIN RECOMMENDED APPLICATION TEMPERATURE RANGES. CONSULT MANUFACTURER WHEN SEALANT CANNOT BE APPLIED WITHIN THESE TEMPERATURE RANGES. F. TOOL JOINTS AS DETAILED.

- MINIMUM POSITIVE PRESSURE DIFFERENTIAL TO ACHIEVE FIRE RESISTANT RATING AS INDICATED ON DRAWINGS
- A. FIRESTOPPING DESIGNS: CONFORM TO ASSEMBLIES LISTED WITH UNDERWRITERS LABORATORIES OR INTERTEK

- C. INSTALLATION ACCESSORIES: PROVIDE CLIPS, COLLARS, FASTENERS, TEMPORARY STOP OR DAMS AND OTHER
- A. INSTALL MATERIAL AT FIRE RATED CONSTRUCTION PERIMETERS AND OPENINGS WHICH CONTAIN PENETRATING

- D. MOLD RESISTANCE: MATERIAL TO SHOW RESISTANCE TO FUNGI GROWTH WHEN TESTED IN ACCORDANCE WITH
- B. PROVIDE VENTILATION IN AREAS TO RECEIVE FIREPROOFING DURING APPLICATION AND 24 HOURS AFTERWARD

- 3. BOND STRENGTH: ASTM E736, 339 PSF WHEN SET AND DRY.
- 4. BOND IMPACT: ASTM E760, NO CRACKING, FLAKING OR DELAMINATION.

AS NECESSARY TO COVER WITH MONOLITHIC BLANKET OF UNIFORM DENSITY AND TEXTURE.

F. APPLY OVERCOAT OR SEALER AT RATE RECOMMENDED BY FIREPROOFING MANUFACTURER

E. IN EXPOSED LOCATIONS, TROWEL SURFACE SMOOTH AND FORM SQUARE EDGES, USING TOOLS AND

- 5. SURFACE BURNING CHARACTERISTICS: MAXIMUM FLAME SPREAD OF 0 AND MAXIMUM SMOKE DEVELOPED 0. PER ASTM E84.
- C. APPLICATIONS: INTERIOR CONCEALED LOCATIONS, EXCEPT WHERE OTHER FIREPROOFING PRODUCTS ARE SPECIFIED.
- 14.5 ACCESSORIES

G. PATCH DAMAGED WORK.

OF

A. PRIMER, ADHESIVE, BONDING AGENT, OR COATING: TYPE RECOMMENDED BY FIREPROOFING MANUFACTURER. B. OVERCOAT OR SEALER: AS RECOMMENDED BY MANUFACTURER OF FIREPROOFING MATERIAL C. METAL LATH: EXPANDED METAL LATH: 3.4 LB/SQ. FT. GALVANIZED FINISH; CONFORM WITH ASTM C847. D. WATER: CLEAN, POTABLE.

14.6 APPLICATION-CEMENTITIOUS FIREPROOFING

IN ACCORDANCE WITH FIRE RATED DESIGN INDICATED ON DRAWINGS.

PROCEDURES RECOMMENDED BY FIREPROOFING MANUFACTURER

A. INSTALL METAL LATH OVER STRUCTURAL MEMBERS AS INDICATED OR AS REQUIRED BY FIRE RATED ASSEMBLY DESIGN NUMBERS B. APPLY SELECTED SYSTEM IN ACCORDANCE WITH FIRE RATED DESIGN INDICATED ON DRAWINGS.

C. APPLY PRIMER, ADHESIVE OR COATING AS REQUIRED, FIREPROOFING AND OVERCOAT OR SEALER AS REQUIRED

D. APPLY FIREPROOFING IN SUFFICIENT THICKNESS TO ACHIEVE REQUIRED FIRE RATINGS, WITH AS MANY PASSES

PART 15: CONCRETE & FOUNDATION NOTES

A. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS TO BE AS FOLLOWS: a) FOOTINGS, PIERS, FOUNDATION WALLS: F'C = 3,000 P.S.I. STONE CONCRETE.

b) SLAB ON GROUND: F'C = 2,500 P.S.I. CONCRETE.

c) SUPERSTRUCTURE, SLAB: F'C = 3,000 P.S.I. CONCRETE

B. PERFORM REQUIRED ALTERATIONS TO EXISTING CONCRETE. NEW WORK INSTALLED ADJACENT TO AND CONNECTING WITH PRESENT WORK SHALL MATCH EXISTING. JOINTS BETWEEN NEW AND EXISTING WORK SHALL BE TROWELED SMOOTH AND EVEN. PROVIDE EXPANSION JOINTS AS REQUIRED.

C. FOOTINGS AT DIFFERENT LEVELS SHALL BE STEPPED SO THAT THE CLEAR DISTANCE BETWEEN ADJACENT BOTTOM EDGES SHALL NOT EXCEED A SLOPE OF ONE VERTICAL TO TWO HORIZONTAL

D. CONCRETE FOUNDATIONS SHALL BE POURED CONTINUOUSLY. IF POUR IS INTERRUPTED A VERTICAL KEY SHALL BE PROVIDED. HORIZONTAL JOINTS ARE NOT PERMITTED. E. CONTRACTOR SHALL VERIFY DIMENSIONS AND LOCATIONS OF SLOTS, PIPE SLEEVES, INSERTS, ANCHOR BOLTS,

ELECTRIC CONDUITS, ETC. AS REQUIRED FOR TRADES BEFORE PLACING CONCRETE. F. ANTI-HYDRO SHALL BE ADDED IF POURING TAKES PLACE AT 32 DEGREES F OR LESS

G. CONCRETE FOOTINGS SHALL BE PROTECTED FROM FREEZING DURING DEPOSITING AND FOR A PERIOD OF NOT LESS THAN 5 DAYS THEREAFTER. WATER SHALL NOT BE ALLOWED TO FLOW THROUGH THE DEPOSITED CONCRETE H. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH CHAPTER 18 OF THE NYSBC



(4) AREA MAP NTS

LOT AREA - 21,832 SF

ZONING ANALYSIS & CALCULATIONS - VILLAGE OF VALLEY STREAM

	SEC: 37 BLOCK: 103	LOT: 16-27 ZONE: C-2		
CODE	ZONING ITEM	REQUIRED/PERMMITED	EXISTING	COMMENTS
99-1301 (B)	PERMITTED USE		BUSINESS OFFICE USE	EXISTING
99-1302 (A)	LOT REQUIREMENTS	BLDG AREA MAX 80% = 17,466SF	54.69% = 11,940 SF	EXISTING
99-1303 (A)	BUILDING HEIGHT	3 STORIES OR 45'	(+/-) 15'-10 T.O. PARAPET	EXISTING
			(+/-) 22'-4" T.O. ATRIUM	EXISTING
99-1304 (A.1)	FYSB - E MERRICK	7'	5'	EXISTING
99-1304 (A.1)	FYSB - GROVE	10' MIN	0.2'	EXISTING
99-1304 (A.2)	RYSB	10' MIN	38.7'	EXISTING
99-1304 (A.2.c)	SYSB	10' MIN	0.2'	EXISTING

		$\searrow \checkmark \checkmark$						
	OCCUF	PANCY CA	ALCULAT	TIONS	PARKI	NG CALCUL	ATIONS	
$\left \right\rangle$	FOR F	PROPOSE		FION	ART XXII; SEC. 99-2201 - E	BUSINESS OFFICE USES	S AND PROFESS	SIONAL
\geq	BUSINESS = 1 PE	R 150 SF GROSS	- Table 1004.5		USES - 1 PARKING SPACE	FOR EVERY 200 SQUAF IEREOF	RE FEET OF GRO	DSS FLOOR
$\langle $	SPACE	AREA (SF)	FACTOR	OCC LOAD				
7	SUITE 101	1,055		7.03		NG PARKING CALCULAT	ED AT 1/400 AS	PER
\geq	SUITE 102	942		6.28				
(SUITE 103	1,022		6.81	FLOOR	AREA (net)	REQD	COMMENTS
	SUITE 104	1,046		6.97	EXIST 1ST FLR	10588 / 400	= 26.47	
7	SUITE 105	1,045	150 C	6.97				
\geq	SUITE 106	1,046	150 G	6.97				
[[SUITE 107	1,045		6.97				
	SUITE 108	1,046		6.97				
7	SUITE 109	1,000		6.67	TOTAL PARKING	REQD.	27	
\geq	SUITE 110	984		6.56	TOTAL PARKING	EXIST/PROP	23	EXISTING
[[COMMON AREA	1110		7.40			20	LAIOTINO
$\left\{ \right\}$		TOTAL OCCU	JPANT LOAD =	75.60 = 76 MAX				
٦		\checkmark	\sim	\sim			\checkmark	

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EXISTING DRYWELL CALCULATIONS								
EXISTING (BASED ON ESTIMATED 3" RAINFALL PER HOUR)								
ITEM	AREA (SF)	CALCULATION		REQUIRED (CF)				
PRINCIPLE BUILDING	10,423 sf	3(in) / 12(in/ft) x 104	23(sf) :	= 2605.75 cf				
PARKING & SIDWALK 8,589 sf 3(in) / 12(in/ft) x 8589(sf) = 2147.25 cf								
EXISTING DRAINAGE PROVIDED FOR = 4.753 cf								

1 PROPOSED SITE PLAN 3/32" = 1'-0"

LINCOLN AVENUE

COMMERCIAL BUILDING ANALYSIS DOTE: VOCKERT Fig. 220 DECEMPTOR 199,		2020 E	BUILDING CODE C	F NE		K STATE ANAL	YSIS
Image: Norw Construction (No. Image: Norw Construction (Norw Construction) (Norw Construction (Norw Construction) (Norw		COMMERCIAL BL DATE: NOVEMBER 19th DESIGNED BY: John F. ADDRESS: 159 Doughty TELEPHONE: 516-239-8 FAX: 516-239-0449 PROJECT: Interior Altera to Finish an LOCATION: 40 E. Merric Valley Strea	JILDING ANALYSIS n, 2020 Capobianco, RA / Blvd. Inwood, NY 11096 3775 ation & Exterior Alteration id Windows ck Road am, NY 11580		2020 B 2020 F 2020 E CODE 2020 M 2020 P 2020 E 2020 F	GENERAL NOT UILDING CODE of NEW YORK IRE CODE of NEW YORK STA NERGY CONSERVATION CO of NEW YORK STATE ECHANICAL CODE of NEW YOR LUMBING CODE of NEW YOR XISTING BUILDING CODE of UEL GAS CODE of NEW YOR	ES TO LIS STATE STATE NSTRUCTION ORK STATE RK STATE NEW YORK ST K STATE
NO. TOPIC CODE STATUTION REQUIRED / ALLOWED 1 Dukting Classification DON'S Table 1004.5 Category I 2 Fload Palm BON'S 103.17 Not in Fload Zane Zane "X-T" 3 Classification of Wwik EBON'S 103.17 Not in Fload Zane Zane "X-T" 4 Docugency Uses BON'S 303.00 LEBON'S 100.1 Alloration Change in Company Group B 4 Docugency Uses BON'S Table 1001.6 Change In Company Group B 7 Type of Construction BON'S Table 001 Billing Element FRX (Hours) FRX (Hours) FRX (Hours) 7 Height & Fluiding Elements BON'S Table 001 Billing Element 1 1 7 Height & Fluiding Area BON'S Table 002 Coup B 114.000 af (max) 1 7 Height & Fluiding Area BON'S Table 003.1 Billing State Sta	[] New Construction	[X] Alteration (NYSEBC)	<u>TYP</u>	E OF WOR	CK ns (NYSEBC) Building (NYSEBC)	[] Fa
No. TOPIC CODE SECTION REDURED / ALLOWED 1 Building Classification BC/YS 1able 106.5 - Category 1 2 Fland Plain BC/YS 1able 106.5 - Category 1 Category 1 3 Classification of Work EBC/YS 1001 Affinitian - Work 1000 Zone Corcupancy FR.X (Hours) FR.X (Hours) FR.X (Hours) FR.X (Hours) Top FR.X (Corcupancy FR.X (Hours) FR.X (Hou		X] Renovations (NYSEBC)	[] Butler Building		[] Change	of Occupancy (NYSEBC)	[] Re
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Image of construction Dentify 602 Anti-Amplify Elements FRX (Hours) F				λ	SHEET A-001 FOR FULL	BREAKDOWN OF SPACE USE.	
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WidthBCNYS- 1009.3 (2)48" min (44" min w/ sprinkler system)44" min prHeadroomBCNYS- 1011.380" minShall ComVertical RiseBCNYS- 1011.812' Between floors/landingsShall ComHand RailsBCNYS- 1014.234" min / 38" max36" ProvidGuard RailsBCNYS- 1015.342" min42" ProvidLandings (Clear Area)BCNYS- 1011.3Width of stairs served (min)44" min pr15Energy ConservationEBCNYS- 907New Alterations shall Comply w/ ECCNYSShall Com		Tread (Min)	BCNYS- 1011.5	1	1" min Com / 10'	' min Res	Shall Com
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VentueDefitiseDefitiseDefitiseShall ComHand RailsBCNYS- 1014.234" min / 38" max36" ProvidGuard RailsBCNYS- 1015.342" min42" ProvidLandings (Clear Area)BCNYS- 1011.3Width of stairs served (min)44" min provid15Energy ConservationEBCNYS- 907New Alterations shall Comply w/ ECCNYSShall Com		Headroom	BCNYS-1011.3	8			Shall Com
Guard Rails BCNYS- 1015.3 42" min 42" Provid Landings (Clear Area) BCNYS- 1011.3 Width of stairs served (min) 44" min provid 15 Energy Conservation EBCNYS- 907 New Alterations shall Comply w/ ECCNYS Shall Comply w/ ECCNYS			BCNYS- 1011.0 BCNYS- 1014 2	1: 	∠	5//anuings 	
Landings (Clear Area) BCNYS- 1011.3 Width of stairs served (min) 44" min plant 15 Energy Conservation EBCNYS- 907 New Alterations shall Comply w/ ECCNYS Shall Comply w/ ECCNYS		Guard Rails	BCNYS- 1015.3				42" Provid
15 Energy Conservation EBCNYS- 907 New Alterations shall Comply w/ ECCNYS Shall Com			BCNYS- 1011.3	<u>-</u>	/idth of stairs ser		44" min pr
	15	Energy Conservation	EBCNYS- 907	N	ew Alterations s	hall Comply w/ ECCNYS	Shall Com

/SIS]		\sim γ \sim γ \sim	γ γ γ		Ý ~
010		_		1	N	o. of Plumbing Fixtu	res PC
					Required PE	R SUITE	
STATE	(BCNYS)		Classification	Occupancy	Water Closets	Lavatories	Drink. F
Ē	(FCNYS)		Business	<15 PER SUITE	(1 per suite) = 10	(1 per suite) = 10	
STRUCTION				76			1 D
	(ECCCNYS)			IPC §403.2.2 Separate Fac	cilities other than malls.	Separate facilities shall n	ot be requir
STATE	(MCNYS)			occupant load, including bo Drinking fountain to be a Hi	th employees and custom ah-Low fountain to compl	iers, of 15 or fewer. (SEE v with ADA requirements.	SHEET A-
EW YORK STATE	(EBCNYS)						
STATE	(FGCNYS)	<u> </u>		\sim	\checkmark \checkmark \sim	\land \land \sim	\land ~
 [] Factory Manufact [] Panel Constructio [] Relocate Structure 	ured n e (NYSEBC)						
PROPOSED		-					
Category I		_					
Zone "X" - FEMA Ref# 360590	C0212G	\wedge					
Alteration - Level 3							
Group B	<u> </u>						
		-					
- 75.07		-2				GROUN	
TOTAL OCCUPANT LOAD =	76 <u>MAX</u>						
Type IV-A					1		
FR-X (Hours)							
1		-					
2		-		CONNECTION T	O SEWER TRAF	·	
-		-				_	
		-					
1		_				4" \/TR	
0		_					
1		_					
1		_	SUITE 109	- 3" SUITE 107	SUITE 105	- 3" SUITE 103	
+/-22'-4" - 1 Stories		_	3"	3"	3"	3"	
11,940 sf							
Class "B"			-2" -2"	2" 2"	⊢2" _2"	2" 2"	
Class "C"							
		-					
Automatic Sprinkler System Ex	kisting,	-					
and to be Modified to Proposed	d Plans.	GROUND LVL	2"/+4"	2"/] 4"	2 / + 4"		·///
Eviatian Chall Canada			4"	4"	4"	4"	\square
Existing - Shall Comply		_		4"			
2 Exits Provided		_					
See A-401		_			LUMBING RISER DI	AGRAM	
Shall Comply				(1) $\frac{1}{N}$	ITS		
Shall Comply							
		-					
RSHAL							
		_					
Shall Comply							
Merrick Ave Elev - 530sf / 136	5sf = 38.9%						
S Groce St Elev - 360sf / 1715	5sf = 21.0%						
S Groce St Elev - 325sf / 1280	-	1					
Side Elev - 140sf / 790sf = 17							
Nat. & Artificial Ventilation P	rovided	-					
Nat. & Artificial Lighting Prov	vided						
44" min provided							
32" min provided							
44" min provided		1					
		-					
44" min provided		1					
1hr rating min provided		-					
		-					
		-					
		-					
		-					
		-					
		-					
36" Provided		-					
42" Provided		-					
44" min provided		-					
Shall Comply]					

NOTE: V.I.F. LOCATION OF EXISTING CONDITIONS PRIOR TO WORK. CONTACT ARCHITECT OF ANY DISCREPANCIES.

				1	
ZAY FIRE RATE		TA EXTERIOR	VVALL	-	
6" MTL SUD STC - 52 (MIN)	18 GA CONTINUOUS TOP RUNNER UNDERSIDE OF DECK	FIRE RATING = 1HR R-VALUE = R-28.5	UNDERSIDE OF STRUCTURE		
1 HR RATED		R-21 CAVITY R-7.5 CONTINUOUS	ACOUSTICAL CEILING TILE		
UL U407		6" MTL SUD			
	5/8" GYP BOARD ON BOTH SIDES. 6", 18 GA MTL STUD @ 16" O C. (Non-load		5-1/2" (R-21) FOIL FACED		
	bearing - ASTM C 645)		5/8" TYPE-X GYPSUM (ASTM C 36)		
	18 GA CONTINUOUS BOT TRACK FASTENED		16 GA CONTINUOUS BOT TRACK FASTENED		
	O.C. MAX (TYP)		O.C. MAX (TYP)		
2B FIRE RATE	D INTERIOR PARTITION - SOUND RETARDANT		WALL		
3-5/8" MTL SUD 	18 GA CONTINUOUS TOP RUNNER UNDERSIDE OF	FIRE RATING = 1HR	ROOF ASSEMBLY		
1 HR RATED		R-VALUE = R-28.5 R-21 CAVITY R-7.5 CONTINUOUS			
UL U407		6" MTL SUD	ACOUSTICAL CEILING TILE		
	5/8" GYP BOARD ON BOTH SIDES. 3-5/8", 18 GA MTL STUD		5-1/2" (R-21) FOIL FACED		
	bearing - ASTM C 645)		5/8" TYPE-X GYPSUM (ASTM C 36)		
	18 GA CONTINUOUS BOT TRACK FASTENED		6", 18 GA MTL STUD @ 16" O.C. (Non-load bearing - ASTM C 645)		
	WITH 0.177"ø @ 24" O.C. MAX (TYP)		FASTEN METAL STUD TO FLOOR		
	PARTITION		PARTITION - WET CHASE WALL		
6" MTL SUD	18 GA CONTINUOUS TOP RUNNER UNDERSIDE OF	(2) 3-5/8" MTL SUD	18 GA CONTINUOUS TOP RUNNER		
			0'-13/4" GAP		
	5/8" GYP BOARD ON BOTH SIDES.		5/8" GYP BOARD ON BOTH SIDES.		
			3-5/8", 18 GA MTL STUD		
	18 GA CONTINUOUS BOT TRACK FASTENED		(@ 16° O.C. (Non-load bearing - ASTM C 645) 18 GA CONTINUOUS BOT TRACK FASTENED	DOOR TYPE	
	WITH 0.177"ø @ 24" O.C. MAX (TYP)		WITH 0.177"ø @ 24" O.C. MAX (TYP)		
				A	SEE SCHE
	PARTITION	1D FURRING W	ALL OVER EXISTING EXITERIOR		
3-5/8" MTL SUD	18 GA CONTINUOUS TOP RUNNER UNDERSIDE OF	1.5" FURRING CHANNEL 2" CI - R-10	1-1/2" 18 GA CONTINUOUS FURRING CHANNEL FASTENED WITH 0.177"ø @ 24" O.C. MAX (TYP)		SCHED.
				В	
					3" ;
	5/8" GYP BOARD ON BOTH SIDES. 3-5/8", 18 GA MTL STUD 16" O.C. (Non-load bearing	 	5/8" GYP BOARD	с	EE SCHED.
	ASTM C 645)				
	18 GA CONTINUOUS BOT TRACK FASTENED		1-1/2" 18" FURRING HAT CHANNEL		
	WITH 0.177"ø @ 24" O.C. MAX (TYP)		FURRING CHANNEL FASTENED WITH 0.177*ø @ 24" O.C. MAX (TYP)	D	SEE SCHEI
		•	DOOR SCHEDUAI		
Туре	e Mark Type Count Width Height	Thickness	Material Tappered Glass Fire Rating & Class	\sim	
1	D 10 3' - 0" 7' - 0"	1 3/4" ALUMIN	NUM & GLASS YES N/A P	USH / PULL	
2 3	A 11 3' - 0" 7' - 0" B 1 6' - 0" 7' - 0" C 2 2' - 0" 0' - 0"	1 3/4" SOLID 1 3/4" ALUMIN 1 3/4" ALUMIN	WOOD N/A N/A K NUM & GLASS YES N/A K	NOB HANDI EY/BUZZER	EL w/ L R ENTR
4	<u> </u>	LI 3/4 ALUMIN			vvi PULI

2	DOOR IMAGE	DOOR SPECIFICATIONS & DESCRIPTIONS
	SEE SCHED.	SINGLE LEAF FLUSH PANEL DOOR Interior: Solid Core Wood Door with frames finished to match adjacent wall material or selected finish scheme wood plasplastic laminate color. Hardware: White Metal with Satin Finish (Typical)
	BEE SCHED.	DOUBLE LEAF ALUM. & GLASS DOOR W/ ALUM. FRAMES PAINTED TO MATCH ADJ. WALL MATERIAL. Hardware: White Metal with Satin Finish (Typical)
	SEE SCHED.	SINGLE LEAF ALUM. & GLASS DOOR W/ ALUM. FRAMES PAINTED TO MATCH ADJ. WALL MATERIAL. Hardware: White Metal with Satin Finish (Typical)
	SEE SCHED.	ALUMINUM FRAME, GLASS DOOR Hardware: Vertical Pull, Top/Bottom Pivot Hinge and Patch Lock where RQD. White Metal with Satin Finish (Typical)

PULL HANDEL, BOLT LOCK, SELF CLOSING

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HANDEL w/ LOCK JZZER ENTRY w/ PULL BAR, PANIC PUSH PADDEL (OR BAR), BOLT LOCK, SELF CLOSING NTRY w/ PULL BAR, PANIC PUSH PADDEL (OR BAR), BOLT LOCK, SELF CLOSING

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CSI SECTION 07 24 00 - Exterior Insulation & Finish System (EIFS) - Class PB

The building interior shall be separated from the insulation board by in (12.7 mm) of gypsum board or equivalent 15 minute thermal barrier.

a. System to meet the performance and testing requirements of the

International Code Council Acceptance Criteria AC 219 Shall meet the testing requirements of the Parex Product Performance Sheet.

a. Shall be engineered to withstand applicable design loads including required

Maximum deflection of substrate system under positive or negative design loads shall not exceed L/240 of span except as otherwise approved in writing by Parex USA

Substrate dimensional tolerance: Flat within $\frac{1}{4}$ in (6.4 mm) in any 4 ft (122 cm) radius. Surface irregularities: Sheathing not over 1/8 in (3 mm); masonry not over

Impact Resistance Classification: Parex Standard System shall be classified in accordance with ASTM E2486 classification and impact ranges as follows. Standard Impact Resistance, 25-49 in-lbs (2.8 - 5.6 J) Impact Range Medium Impact Resistance, 50-89 in-lbs (5.7-10.1 J) Impact Range High Impact Resistance, 90-150 in-lbs (10.2-17.0 J) Impact Range Ultra High Impact Resistance, >150 in-lbs (> 17.0 J) Impact Range Expansion Joints: Continuous expansion joints shall be installed at the

following locations in accordance with manufacturer's recommendations: At building expansion joints. At substrate expansion joints.

At floor lines in wood frame construction.

Where Parex EIFS panels abut one another.

Where Parex EIFS abuts other materials.

Where significant structural movement occurs, such as at

Changes in building shape and/or structural system. Where substrate changes. (For exceptions to joints at substrate changes, contact the Parex USA Technical Department)

Substrate movement and expansion and contraction of Parex EIFS and adjacent materials shall be taken into account in design of expansion joints, with proper consideration given to sealant properties, installation conditions, temperature range, coefficients of expansion of materials, joint width to depth ratios, and other material factors. Minimum width of expansion

(1) $\frac{1}{2}$ in (12.7 mm) where EIFS abuts other materials.

 $\frac{3}{4}$ in (19 mm) when EIFS abuts the EIFS.

Larger width where indicated on drawings.

a. Parex EIFS latest published information shall be followed for standard detai

b. Non-standard detail treatments shall be as recommended by Parex USA, approved by Project Designer and be part of the Contract Documents. 7. Building Code Conformance: Parex EIFS shall be acceptable for use on this project under building code having jurisdiction.

A. General: Submit Samples, Evaluation Reports and Certificates in accordance with Division 01 General Requirements Submittal Section. B. Samples: Submit samples for approval. Samples shall be of materials

specified and of suitable size as required to accurately represent each color and texture used on project. Prepare each sample using same tools and techniques for actual project application. Maintain and make available, at job site,

C. Manufacturer's Warranty: Submit sample copies of Manufacturer's Warranty

Manufacturer: Shall have marketed Exterior Insulation and Finish Systems in United States for at least ten years.

Shall have completed projects of same building size and type as

a. Shall have attended a Parex USA Educational Seminar for installation

Shall possess a current certificate of education. Shall be experienced and competent in installation of plaster-like

1. Insulation Board: Shall be produced and labeled under a third party quality program as required by applicable building code.

A. Delivery: Deliver Parex Standard System products in original packaging

Storage: Store EIFS materials supplied by Parex USA in a cool, dry location, out of sunlight, protected from weather and other harmful environment,

and at a temperature above 40 °F (4°C) and below 110 °F (43°C) in accordance with manufacturer's instructions. Store insulation board flat.

A. Installation Ambient Air Temperature: Minimum of 40 (4°C) and rising,

Substrate Temperature: Do not apply Parex materials to substrates whose temperature are below 40 °F (4°C) or contain frost or ice.

C. Inclement Weather: Do not apply Parex materials during inclement weather, unless appropriate protection is employed.

D. Sunlight Exposure: Avoid, when possible, installation of the Parex materials in direct sunlight. Application of Parex Finishes in direct sunlight

in hot weather may adversely affect aesthetics. E. Parex materials shall not be applied if ambient temperature exceeds 120°F (49°C) or falls below 40 °F (4°C) within 24 hours of

application. Protect base coat from uneven and excessive evaporation

F. Prior to installation, the wall shall be inspected for surface

contamination, or other defects that may adversely affect the performance of the Parex materials and shall be free of residual moisture.

A. Coordination: Coordinate Parex Standard System installation with other

Warranty: Upon request, at completion of installation, provide Parex Standard System Limited Warranty. See Parex's warranty schedule for

A. Manufacturer: Parex USA, Inc., 4125 E. La Palma Ave., Suite 250,

Components: Obtain components of Parex Standard System from authorized distributors. No substitutions or additions of other materials are permitted without prior written permission from Parex USA for this project. 2.2 MATERIALS

A. Adhesives Parex 121 Base Coat & Adhesive: 100% acrylic polymer based, 1. requiring the addition of portland cement; used as an adhesive to laminate EPS Insulation Board to the substrate. Not for use with wood based sheathing

2. Parex 121 Dry Base Coat & Adhesive: Copolymer based, factory blend of cement and proprietary ingredients; requiring the addition of water only, used as an adhesive to laminate EPS Insulation Board to the substrate. Not for use with wood based sheathing

3. Parex 302 ABC-N1 Base Coat & Adhesive: 100% acrylic polymer base, ready to use, applied without the addition of cement. 4. Parex 303 Sheathing Adhesive: 100% acrylic polymer based; ready to

use, applied without the addition of cement; used as an adhesive to laminate EPS Insulation Board to gypsum sheathing, glass mat gypsum sheathing and wood based sheathing. B. Insulation Board: In compliance with manufacturer's requirements for

Standard System EIFS. 1. Produced and labeled under a third party quality program as required by

applicable building code; and produced by a manufacturer approved by Parex USA.

Shall conform to ASTM C578 and ASTM E 2430, Type I and the Parex 2. USA specification for Molded Expanded Polystyrene Insulation board. Maximum size shall be 2 ft x 4 ft (610 mm x 1219 mm). 3

Thickness: ³/₄ in, minimum (19 mm)

C. Base Coats: 121 Base Coat: 100% acrylic polymer base, requiring the addition of 1.

portland cement. 121 Dry Base Coat: Copolymer based, factory blend of cement and 2.

proprietary ingredients requiring addition of water. 302 ABC-N1 Base Coat & Adhesive: 100% acrylic polymer base,

ready to use, applied without the addition of cement. D. Parex Reinforcing Mesh:

1. 355 Standard Mesh: Weight 4.5 oz. per sq. yd. (153 g/sq m); coated for protection against alkali. Standard reinforcement of Parex EIFS, or for use with

High Impact 358.14 Mesh, or Ultra High Impact 358.20 Mesh.

356 Short Detail Mesh: Reinforcing mesh used for backwrapping and details. 352 Self Adhesive Detail Mesh: Reinforcing mesh used for complex details. 358.10 Intermediate Impact 10 Mesh: Weight 12 oz per sg. vd. (407 g/sg m) Reinforcing mesh used with Parex Standard System, to achieve ASTM E2486 intermediate impact strength.

358.14 High Impact 14 Mesh: Weight 15 oz. per sq. yd. (509 g/sq m) Reinforcing mesh used with Parex Standard System; to achieve ASTM E2486 high impact strength.

6. 358.20 Ultra High Impact 20 Mesh: Weight 20 oz. per sq. yd. (678 g/sq m) Reinforcing mesh used with Parex Standard System; to achieve ultra-high impact strenath

357 Corner Mesh: Reinforcing mesh used as corner reinforcement; required when using Ultra-High Impact 20 Mesh

PART 2 - PRODUCTS 2.1 MANUFACTURERS

A. Manufacturer: Parex USA, Inc., 4125 E. La Palma Ave., Suite 250, Anaheim, CA 92807

Components: Obtain components of Parex Standard System from B authorized distributors. No substitutions or additions of other materials are permitted without prior written permission from Parex USA for this project.

2.2 MATERIALS A. Adhesives

Parex 121 Base Coat & Adhesive: 100% acrylic polymer based, requiring the addition of portland cement; used as an adhesive to laminate EPS Insulation Board to the substrate. Not for use with wood based sheathing

 Parex 121 Dry Base Coat & Adhesive: Copolymer based, factory blend of cement and proprietary ingredients; requiring the addition of water only, used as an adhesive to laminate EPS Insulation Board to

the substrate. Not for use with wood based sheathing 3. Parex 302 ABC-N1 Base Coat & Adhesive: 100% acrylic polymer base, ready to use, applied without the addition of cement.

4. Parex 303 Sheathing Adhesive: 100% acrylic polymer based; ready to use, applied without the addition of cement; used as an adhesive to laminate EPS Insulation Board to gypsum sheathing, glass mat gypsum sheathing and wood based sheathing.

Insulation Board: In compliance with manufacturer's requirements for Standard System EIFS.

1. Produced and labeled under a third party quality program as required by applicable building code; and produced by a manufacturer approved by Parex USA.

2. Shall conform to ASTM C578 and ASTM E 2430, Type I and the Parex USA specification for Molded Expanded Polystyrene Insulation board. Maximum size shall be 2 ft x 4 ft (610 mm x 1219 mm).

Thickness: ³/₄ in, minimum (19 mm)

Base Coats:

C. 1. 121 Base Coat: 100% acrylic polymer base, requiring the addition of portland cement

2. 121 Dry Base Coat: Copolymer based, factory blend of cement and proprietary ingredients requiring addition of water.

3. 302 ABC-N1 Base Coat & Adhesive: 100% acrylic polymer base, ready to use, applied without the addition of cement.

D. Parex Reinforcing Mesh: 1. 355 Standard Mesh: Weight 4.5 oz. per sq. yd. (153 g/sq m); coated for protection against alkali. Standard reinforcement of Parex EIFS, or for use with High Impact 358.14 Mesh, or Ultra High Impact 358.20 Mesh.

2. 356 Short Detail Mesh: Reinforcing mesh used for backwrapping and details. 352 Self Adhesive Detail Mesh: Reinforcing mesh used for complex details. 358.10 Intermediate Impact 10 Mesh: Weight 12 oz per sq. yd. (407 g/sq m) Reinforcing mesh used with Parex Standard System, to achieve ASTM E2486

intermediate impact strength. 5. 358.14 High Impact 14 Mesh: Weight 15 oz. per sq. yd. (509 g/sq m) Reinforcing mesh used with Parex Standard System; to achieve ASTM E2486 high impact strength.

6. 358.20 Ultra High Impact 20 Mesh: Weight 20 oz. per sq. yd. (678 g/sq m) Reinforcing mesh used with Parex Standard System; to achieve ultra-high impact strength.

7. 357 Corner Mesh: Reinforcing mesh used as corner reinforcement; required when using Ultra-High Impact 20 Mesh.

; ASTM E2486 Impact Classification:

E. Parex Primers:

Locations:

310 Primer: 100% acrylic based coating to prepare surfaces for Parex finishes. 313 Sanded Primer: 100% acrylic based coating to prepare surface for Parex Cerastone and Spraystone finishes. F. Parex Finish:

Parex DPR Optimum Finish: Factory blended, 100% acrylic polymer based finish, integrally colored.. Finish type, texture and color as selected by Project Designer а.

-OR-1. Parex DPR Standard Finish: Factory blended, 100% acrylic polymer based finish, integrally colored.

Finish type, texture and color as selected by Project Designer. a.

-OR-Parex E-LagitEinish: Factory blended, 100 % acrylic polymer based elastomeric textured finish, integrally colored.

a. Finish type, texture and color as selected by Project Designer

G. Parex 369 DrainEdge[™]: Pre-punched strip of non-woven fabric to allow for drainage at the head of system penetrations.

Water: Clean, cool, potable water н

Portland Cement: ASTM C150, Type I or Type I-II. 2.3 RELATED MATERIALS AND ACCESSORIES

Substrate Materials: Α.

- Glass mat gypsum sheathing: Minimum $\frac{1}{2}$ in thick, conforming to ASTM C1177.
- Cement Fiber Sheathing: Minimum ¹/₂ in thick, conforming to ASTM C1325 Gypsum Sheathing: Minimum ¹/₂ in thick, core-treated, weather-resistant, exterior
- gypsum sheathing complying with ASTM C1396. 4. Plywood: Minimum 7/16 in thick, Minimum 4-ply APA-Engineered Wood
- Association Exposure 1 or Exterior grade C-D or better. Installed with C or better side out gapped 1/8 in at all edges
- Oriented Strand Board (OSB): 7/16 in 1/2 in Wall-16 or Wall-24, approved by the APA, TECO, or PSI/PTL. Stamped as Exposure 1 or Exterior Sheathing
- with a PS2 or PRP-108 rating. Concrete Masonry Units (CMU): Non-painted (uncoated).
- Concrete (poured or pre-cast).
- Other Approved by Parex USA in writing prior to the project.
- Flashing: Refer to Division 07 Flashing Section for flashing materials. C. Sealant System:
- Sealant for expansion joints between panelized Parex EIFS sections shall be ultra-low modulus designed for minimum 100% elongation and minimum 50% compression and as selected by Project Designer.
- 2. Sealant for perimeter seals around window and door frames and other
- wall penetrations shall be low modulus, designed for minimum 50% elongation and minimum 25% compression, and as selected by Project Designer.
- Sealants shall conform to ASTM C920, Grade NS.
- Expansion joints between sections of Parex EIFS shall have a minimum width 4.
- of ³/₄ in (19 mm).
- Perimeter seal joints shall be a minimum width of in (12.7 mm).
- Sealant backer rod shall be closed-cell polyethylene foam. Apply sealant to tracks or base coat of Parex EIFS.
- Refer to Parex USA current bulletin for listing of sealants which have been
- tested and have been found to be compatible with Parex EIFS.
- Color shall be as selected by Project Designer.
- 10. Joint design, surface preparation, and sealant primer shall be based on sealant manufacturer's recommendations and project conditions.

3.1 EXAMINATION

A. Verify project site conditions under provisions of Section 01 00 00.

- Compliance: Comply with manufacturer's instructions for installation of Parex Standard.
- Substrate Examination: Examine prior to Parex Standard System C.
- installation as follows: Substrate shall be of a type approved by Parex USA . Plywood and OSB substrates shall be gapped 1/2 in (3.2 mm) at all edges. Cut edges (non-factory edges)
- must also be sealed with a Parex USA water-resistive coating. Substrate shall be examined for soundness, and other harmful conditions. 2
- Substrate shall be free of dust, dirt, laitance, efflorescence, and other harmful contaminants. 4. Substrate construction in accordance with substrate material manufacturer's
- specifications and applicable building codes.
- D. Sealants and Backer Rod: To be installed, where required, in accordance with the sealant manufacturer's specifications and published literature, and using the sealant
- manufacturer's recommended primers.
- Advise Contractor of discrepancies preventing installation of the Parex Standard System. Do not proceed with the Parex Standard System Assembly

work until unsatisfactory conditions are corrected. 3.2 PREPARATION

- Protection: Protect surrounding material surfaces and areas during installation of system.
- Clean surfaces thoroughly prior to installation.
- Prepare surfaces using the methods recommended by the manufacturer
- for achieving the best result for the substrate under the project conditions.

3.3 MIXING

- Mix Parex proprietary products in accordance with manufacturer's instructions. Α. 3.4 APPLICATION
 - General: Installation shall conform to this specification and Parex EIFS Application
 - Guide, written instructions and drawing details. Plywood and OSB substrate cut edges (non-factory edges) must be sealed with a Parex USA water-resistive coating.
 - Insulation Board В.
 - Install back-wrap mesh or edge-wrap mesh at system terminations. Apply Parex adhesive to backs of insulation boards with a Parex drainage 2.
 - notched trowel, with ribbons of adhesive oriented in a vertical direction
 - (parallel to the 2 ft (61 mm) dimension of the EPS board).

Install insulation board without gaps in a running bond pattern and interlocked at corners.

- Rasp irregularities off insulation board after adhesive has dried a minimum of 4 24 hours..
- C. Apply base coat and fully embed mesh in base coat; include diagonal mesh patches at corners of openings and reinforcing mesh patches at joints of track sections. Apply multiple layers of base coat and mesh where required for specified impact resistance classification.
- D. Apply primer to base coat after drying. Primer may be omitted if it is not required by the manufacturer's product data sheets for the specified finish coat or otherwise specified for the project.
- Finish Coat: Apply finish coat to match specified finish type, texture, and color. Do not apply finish coat to surfaces to receive sealant. Keep finish out of sealant joint gaps. 3.5 CLEAN-UP
 - Removal: Remove and legally dispose of Parex Standard System component debris
 - material from job site.
 - Clean EIFS surfaces and work area of foreign materials resulting from EIFS В.

operations. 3.6 PROTECTION

- Provide protection of installed materials from water infiltration into or behind them.
- Provide protection of installed stucco from dust, dirt, precipitation, and freezing during installation.
- C. Provide protection of installed finish from dust, dirt,
- precipitation, freezing and
- continuous high humidity until fully cured and dry.
- D. Clean exposed surfaces using materials and methods recommended by the
- manufacturer of the material or product being cleaned. Remove
- and replace work that
- cannot be cleaned to the satisfaction of the Project
- Designer/Owner.

END OF SECTION

Disclaimer: This guide specification is intended for use by a

- qualified designer. The guide
- specification is not intended to be used verbatim as an actual specification without appropriate
- modifications for the specific use intended. The guide
- specification must be integrated into and coordinated with the procedures of each design firm,
- and the requirements of a specific project

⁽³⁾ Usage not meeting above criteria shall be approved by Parex USA in writing prior to installation.

WIND SPEED CONVERSIONS TABLE 1609.3.1											
V _{ult}	100	110	120	130	140	150	160	170	180	190	200
V _{asd}	78	85	93	101	108	116	124	132	139	147	155

	SECTION 08/113 (08/10)	2 02 Matorials
		A. Aluminum (145 Frame and Components):
2020 BUILDING CODE OF NEW YORK STATE - TABLE 2406.2(1) (MINIMUM CATEGORY CLASSIFICATION OF GLAZING)	145 ALUMINUM STOREFRONT	 Material Standard: Extruded Aluminum, ASTM B 221, 6063-15 alloy and ter Member Wall Thickness: Each framing member shall have a wall thickness of
	 Types of CAPITOL 145 Non-Thermal Aluminum Frame System, 3/4" x 4 1/2" nominal dimension, center glazed, weather-seal, shear block, stick or punched 	 Tolerances: Reference to tolerances for wall thickness and other cross-section dimensions of storefront members are nominal and in compliance
EXPOSED SURFACE GLAZING IN STORM GLAZING IN GLAZED PANELS GLAZED PANELS DOORS AND SLIDING GLASS AREA OF ONE SIDE OF OR COMBINATION DOORS REGULATED BY REGULATED BY ENCLOSURES DOORS PATIO TYPE	opening fabrication	Standards and Data. 4 Trim Metal: All interior and exterior trim metal shall be extruded aluminum se
ONE LITE DOORS (Category Class) SECTION 2406.4.3 SECTION 2406.4.2 REGULATED BY (Category Class) (Category Class) SECTION 2406.4.5	ED NOTE: Below related sections are specified elsewhere, however, CAPITOL	and shall not be less than .060" in wall thickness. Brake metal
(Category Class)	recommends single source responsibility for all of these sections as indicated in 2.07 source quality control.	2.03 Accessories
9 square feet or less I I I NO REQUIREMENT I II II	Δ Related sections:	 A. Fasteners: 1. Aluminum, non-magnetic stainless steel or other materials warranted by
More than 9 square feet II II II II	1. Section 085113 - Aluminum Windows	manufacturer to be non-corrosive and compatible with compone
	 Section 087100 - Hardware Section 084413 - Aluminum Curtain Wall System 	matching items fastened.
	 Section 088000 - Glazing Section 079200 - Sealants 	 For concealed locations, provide manufacturer's standard fasteners. B. Glazing Gaskets:
2020 BUILDING CODE OF NEW YORK STATE - FIGURE 1609.3(1)		1. Compression type design, replaceable, molded or extruded neoprene, or ethy propylene diene monomer (EPDM)
CLIIMATE DESIGN WIND SI EEDS, FOR RISK CATEGORI II DOILDINGS	1.02 References (Industry Standards)	 Profile and hardness as necessary to maintain uniform pressure for watertight
	ED NOTE: Refer to index for any and all applicable standards.	 Provide in manufacturer's standard black color. C. Expansion Anchor Devices: Lead-shield or toothed-steel, drilled-in, expansic
95(42) 100(45) 105(47)	1.03 System Description	
101(49)	 Frames The aluminum frames shall be constructed from 1 3/4" x 4 1/2" tubular aluminum 	2.04 Related Materials
90(40)	members. 2. The door stop shall be designed to snap into a recess in the frame and no	A. Glass and Glazing Accessories:1. Refer to Section 088000.
105(47) 120(54)	screws for attaching the stop or anchors for the frame shall be exposed.	 B. Sealants 1. Refer to Section 079200.
114(51) The The 130(58)	vinyl gasket.	2.05 System Exhrication
140(63)	 Door stops shall have vinyl weather-stripping. Glazing members shall be of such design that is snapped in. Screw applied glass 	A. Take accurate field measurements to verify required dimensions prior to fabri
107(48)	retainer shall be unacceptable.	B. Fabricate components in accordance with approved shop drawings. Remove and smooth edges. Shop fabricate to greatest extent practicable to mi
		cutting, splicing and assembly. Disassemble only to extent necessary
184 (19) 140(63)	1.04 Submittals	durability. (Fabricate custom extrusions indicated and as necessary fo
90(40)	 A. General: Submit in accordance with Section 013000. B. Product Data: 	D. Provide structural reinforcing within framing members where required to main accommodate design loads.
95(42)	 Submit manufacturer's descriptive literature for each manufactured product. Shan Drawinger 	E. Allow for adequate clearance around perimeter of system to enable proper in thermal movement within system
100(45) 105(47)	 Shop Drawings: Submit drawings indicating elevations, detailed design, dimensions, member profiles, 	F. Separate dissimilar metals with protective coating to prevent contact and corr
150(67) 130(58) 105(47) 105(47)	joint locations, arrangement of units and member connections. 2. Show following items:	2.06 Aluminum Finishes
103(46) 103(46) 160(72) 170(76)	a. Details of special shapes.	A. Clear Anodized 30-Minute Velo Class II AA-M12-C22-A31 Clear Anodized 60-Minute Velo Class I AA-M12-C22-A41
105(47) 110(49)	c. Anchor system.	Dark Bronze Anodized 2-step Class I AA-M12-C22-A44
115(51) [*] 150(67) 120(54) 140(63)	 Interfacing with building construction. Provisions for expansion and contraction. 	FloroponR (70% PVDF)** AAMA 2605
110(49)	3. Indicate typical glazing details, (locations of various types and thickness of glass), and internal sealant requirements as recommended by sealant manufacturer	DuranarR, DuranarR XL (70%PVDF)** AAMA 2605 AcroflurTM (50% PVDF)**
120(54)	 Clearly indicate locations of fasteners and joints for Architect's acceptance. 	AcrynarRFX (50% PVDÉ)** AAMA 2604
130(58) Special Wind Region	 Certificates: Submit manufacturer's certification stating that installed system is in compliance with 	DuracronR** AAMA 2603
160(72) 160(72) Location Vmph (m/s) 150(67) 160(72) 150(72) 150(72) 150(72)	specified requirements. E. Qualification Data:	**manufacturer's standard colors
Virgin Islands 165 (74) 160(72) American Samoa 160 (72)	 Submit installer qualifications verifying years of experience. Include list of projects baying similar scope of work identified by name, location, date 	2.07 Source Quality Control A Source Quality: Provide aluminum 145 frame specified herein from a sing
	reference name and phone number.	1. Building Enclosure System: When aluminum 145 frame is part of a building
	 F. Manufacturer's Instructions: 1. Submit manufacturer's printed installation instructions. 	and related products, provide building enclosure system products fron
	G. Warranty: 1 Submit specified warranties	PART 3 - EXECUTION
AS PER 2020 BCNYS. ALL STORFRONT GLAZING SHALL BE DESIGNED TO CONFORM WITH CHAPTER 16 & CHAPTER 24 OF THE CODE. SPECIFICALLY, ALL STORFRONT GLAZING WILL BE DESIGNED TO WITHSTAND THE 130 MPH WIND SPEED AS PER SEC. 1609.3.1.& TABLE	1 05 Warranty	2.01 Examination
1609.3.1 AND SHALL BE DESIGNED TO PROVIDE THE PROPER SAFETY GLASS IN ACCORDANCE WITH TABLE 2406.2(1) OF THE 2020 BCNYS.	A. Project Warranty: Refer to "Conditions of the Contract" for project warranty provisions.	A. Site Verification of Conditions: Verify substrate conditions (which have beer
	B. Manufacturer's Product Warranty: Submit, for Owner's acceptance, manufacturer's warranty for Storefront frame system as follows:	installed under other sections) are acceptable for product installation ir manufacturer's instructions. Verify openings are sized to receive Stor
	1. Warranty Period: One (1) year from last date of shipment by Capitol Aluminum and	sill plate is level in accordance with manufacturer's acceptable tolerances.
WIND SPEED CONVERSIONS TABLE 1609.3.1		field measurements before fabrication; show recorded measurements
	A. Qualifications:	construction delays.
V_{ult} 100 110 120 130 140 150 160 170 180 190 200	1. Installer Qualifications: Installer experienced to perform work of this section who has specialized in the installation of work similar to that required for this project and who is	3.02 Installation
$ _{U}$	acceptable to product manufacturer.	A. General: Install Storefront frames plumb. Level and true to line, without w
Vasd 78 85 93 101 108 116 124 132 139 147 155	Z. Manufacturer Quantications: Manufacturer capable of providing field service representation during construction, approving acceptable installer and approving application method.	and anchor in place.
	 Per-Installation Meeting: Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer's installation instructions and manufacturer's warran 	 Dissimilar materials: Provide separation of aluminum materials from sound of corrosion or electrolytic action contact points.
	requirements.	2. Weather-tight construction: Install sill members and other members in a sealant or with joint filler or daskets, to provide weather tight construct
		with wall flashings and other components of construction.
	A. Ordering: Comply with manufacturer's ordering instructions and lead time requirements to avoid	 Related Products Installation Requirements: Sealants (Perimeter): Refer to Division 7 Joint Treatment (Sealants) Sectors
	construction delays. B. Packing, shipping, handling and unloading. Deliver materials in manufacturer's original, unopened	 Glass:Refer to Division 8 Glass and Glazing Section. a. Reference: ANSI Z97.1. CPSC 16 CFR 1201 and GANA Glazing Manual
	undamaged containers with identification labels intact.	3 03 Protection and Cleaning
	 Storage and protection. Store materials protected from exposure to harmful weather conditions. Handle Storefront frame material and components to avoid damage. 	A. Protection: Protect installed Storefront systems finish surfaces from damage
	PART 2 - PRODUCTS	construction. (i.e. grinding, polishing compounds, plaster, lime, acid, cement, harmful contaminants).
	201 Monufacturero (Accontable Manufacturero (Draducta)	B. Cleaning: Remove temporary coverings and protection of adjacent work and replace damaged installed products. Clean installed products in accordance with
	A. Acceptable manufacturers:	manufacturer's instructions prior to owner's acceptance. Remove construction
	 Capitol Aluminum & Glass Corporation, 1276 W. Main Street, Bellevue, OH 44811 (419)483-7050 - (419)483-7830 fax 	debris from project site and legally dispose of debris.

Proprietary Product(s)/System(s): CAPITOL 145 Non-Thermal Aluminum Frame System Finish/Color (See Section 2.06 Aluminum Finishes)

DISCLAIMER STATEMENT This guide specification is intended to be used by a qualified construction specifier. The guide specification is not intended to be verbatim as a project specification without appropriate modifications for the specific use intended. The guide specification must be used and coordinated with the procedures of each design firm, and the particular requirements of a specific construction project.

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mpliance with AA Aluminum

inum sections e metal or formed

omponents being fastened. finish

, or ethylene

atertight seal.

xpansion bolt anchors.

to fabrication.

- Remove burrs
- ble to minimize field cessary for shipping and handling limitations.
- ppearance, strength or
- ssary for complete installation.) to maintain rigidity and

roper installation and for

and corrosion.

- n a single source.
- a building
- dows, curtain wall framing icts from a single source manufacturer.

- ve been previously lation in accordance with ve Storefront frame system and
- ements on shop drawings. struction progress to avoid
- thout warp or rack of ion instructions. Provide support
- om sources
- ers in a bed of onstruction. Coordinate installation
- ts) Section.
- nual.

- damage during ement, or other
- work areas. Repair or e with
- on

_ 2-1/2" 20 ga MTL STUDS @ _ 4'-0" O.C. MAX FURRING CHANNEL

