PROJECT NOTES:

- 1. NO UTILITY RELOCATION INVOLVEMENT IS ANTICIPATED. SHOULD ANY CONFLICTS BE ENCOUNTERED DURING CONSTRUCTION REQUIRING ADJUSTMENT AND/OR RELOCATION OF THE AGENCIES' EXISTING FACILITIES, THE NECESSARY RELOCATION WORK SHALL BE ACCOMPLISHED BY THE RESPECTIVE AGENCIES' FORCES, AS DIRECTED BY THE DISTRICT ENGINEER. ANY ADJUSTMENT AND/OR RELOCATIONS OF MUNICIPALLY OWNED FACILITIES SHALL BE DONE BY THE STATES CONTRACTOR IN ACCORDANCE WITH THE RESPECTIVE AGENCIES STANDARD SPECIFICATIONS AS DIRECTED BY THE DISTRICT ENGINEER.
- 2. NO ENVIRONMENTAL PERMITS ARE REQUIRED FOR THIS WORK PROVIDED NO JURISDICTIONAL WETLANDS OR WATERS ARE IMPACTED. IF THERE IS ANY QUESTION AS TO WHETHER OR NOT A WATER OR WETLAND IS JURISDICTIONAL, CONTACT THE DEL DOT ENVIRONMENTAL SECTION AT 302-760-2264.
- 3. IT IS ANTICIPATED THAT ALL WORK WILL OCCUR WITHIN DELDOT'S EXISTING RIGHT OF WAY OR EASEMENTS AREAS. SHOULD THE NEED OCCUR TO TRESPASS ONTO PRIVATE PROPERTY: IT WILL BE THE RESPONSIBILITY OF THE PROJECT MANAGER TO SECURE SUCH TRESPASS NEEDS.
- 4. IT IS ANTICIPATED THAT ALL WORK WILL OCCUR WITHIN DELDOT'S RIGHT OF WAY. SHOULD THE NEED OCCUR TO TRESPASS ONTO RAILROAD PROPERTY, INCLUDING THE HIGHWAY-RAIL CROSSING: IT WILL BE THE RESPONSIBILITY OF THE THE PROJECT MANAGER TO CONTACT THE RAILROAD CHIEF ENGINEER AND OBTAIN WRITTEN AUTHORIZATION BEFORE ENTERING.
- 5. THE PROJECT MANAGER SHALL BE RESPONSIBLE FOR COORDINATION WITH THE TRAFFIC SECTION RELATING TO ANY IMPACTS TO TRAFFIC SECTION FACILITIES (INCLUDING BUT NOT LIMITED TO TRAFFIC LOOPS, JUNCTION WELLS ETC.) AT LEAST 4 WEEKS IN ADVANCE OF THE THE START OF THE ACTIVITY. PRIOR TO INITIATING ANY WORK ON THIS CONTRACT (OR SITES). THE PROJECT MANAGER SHALL BE RESPONSIBLE FOR PREPARING AND SUBMITTING FOR APPROVAL OF THE SAFETY SECTION, A MAINTENANCE OF TRAFFIC PLAN. SUFFICIENT TIME SHALL BE PROVIDED FOR THE REVIEW AND APPROVAL OF THE PLAN. THE MAINTENANCE OF TRAFFIC PLAN SHALL INCLUDE PROPOSED TIME RESTRICTIONS ON THE CLOSURE OF TRAVEL LANES SUBJECT TO THE APPROVAL OF THE SAFETY SECTION.
- 6. THE PROJECT MANAGER IS RESPONSIBLE FOR ENSURING ANY REQUIRED DOCUMENTS AND ANALYSIS AS PART OF THE ADOPTED WORK ZONE SAFETY AND MOBILITY PROCEDURES AND GUIDELINES HAS BEEN COMPLETED PRIOR TO ANY WORK STARTING ON THIS CONTRACT.

PREPARED BY THE CONSULTING FIRM OF	Constant of the second
JOHNSON, MIRMIRAN & THOMPSON	SEAL
<i>Engineering A Brighter Future</i> 121 Continental Drive, Suite 300 Newark, Delaware 19713	
302-266-9600	5/18/2018
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g McClusky	07.31.18
MAINTENANCE ENGINEER	DATE
	7-31-18
DISTRICT ENGINEER	DATE
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ASSISTANT DIRECTOR STATEWIDE SUPPORT SERVICES	DATE
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DIRECTOR, MAINTENANCE & OPERATIONS	DATE

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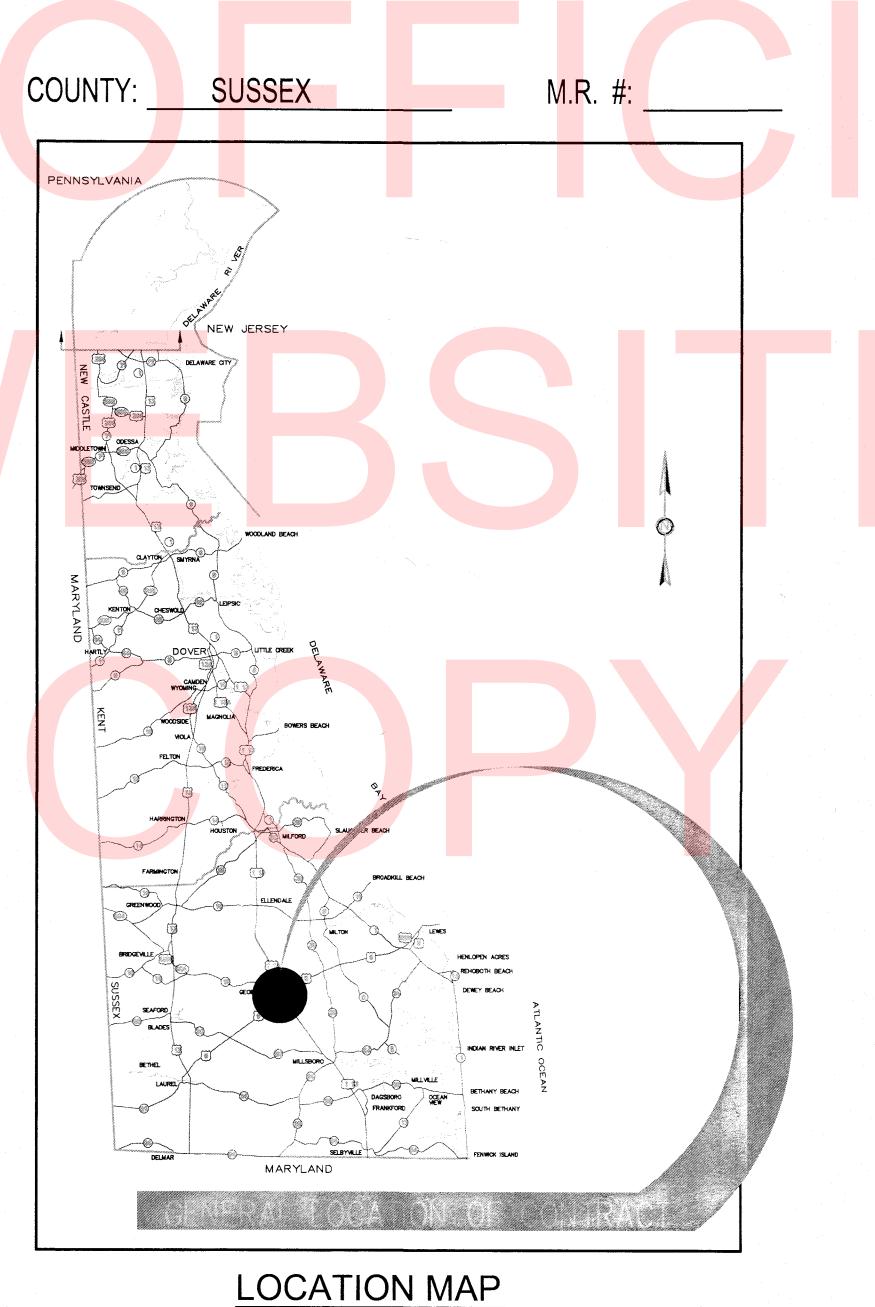
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THE STATE OF DELAWARE **DEPARTMENT OF TRANSPORTATION**



GRAVEL HILL SIGN SHOP IMPROVEMENTS

CONTRACT NUMBER: T201880104



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	T-1	1	TITLE		······································		· · · · · · · · · · · · · · · · · · ·
	A-001	2	LIFE SAFETY PLAN AN	ID GENERAL NOT	ES		
	A101	3	NEW WORK PLANS				
	M-001	4	MECHANICAL LEGENE	D, ABBREVIATION	S, & NOTES		
	M-101	5	MECHANICAL DEMOLI	ITION AND NEW W	/ORK PLAN		· · · · ·
	M-501	6	MECHANICAL DETAIL	S, SCHEDULES &	CONTROLS		
	P-001	7	PLUMBING LEGEND, /	ABBREVIATIONS,	& NOTES		
	P-101	8	PLUMBING DEMOLITIC	ON WORK PLAN			
	P-102	9	PLUMBING NEW WOR	RK PLAN	· · · · · · · · · · · · · · · · · · ·		
	P-501	10	PLUMBING DETAILS, S	SCHEDULES, & RI	SER DIAGRAMS		
	E-001	11	ELECTRICAL GENERA	AL NOTES, LEGEN	DS, & ABBREVIATIONS		
	ED-101	12	ELECTRICAL DEMOLI	TION WORK PLAN		la se	
	EP-101	13	ELECTRICAL NEW WO	ORK PLAN			
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ABBREVIATIONS

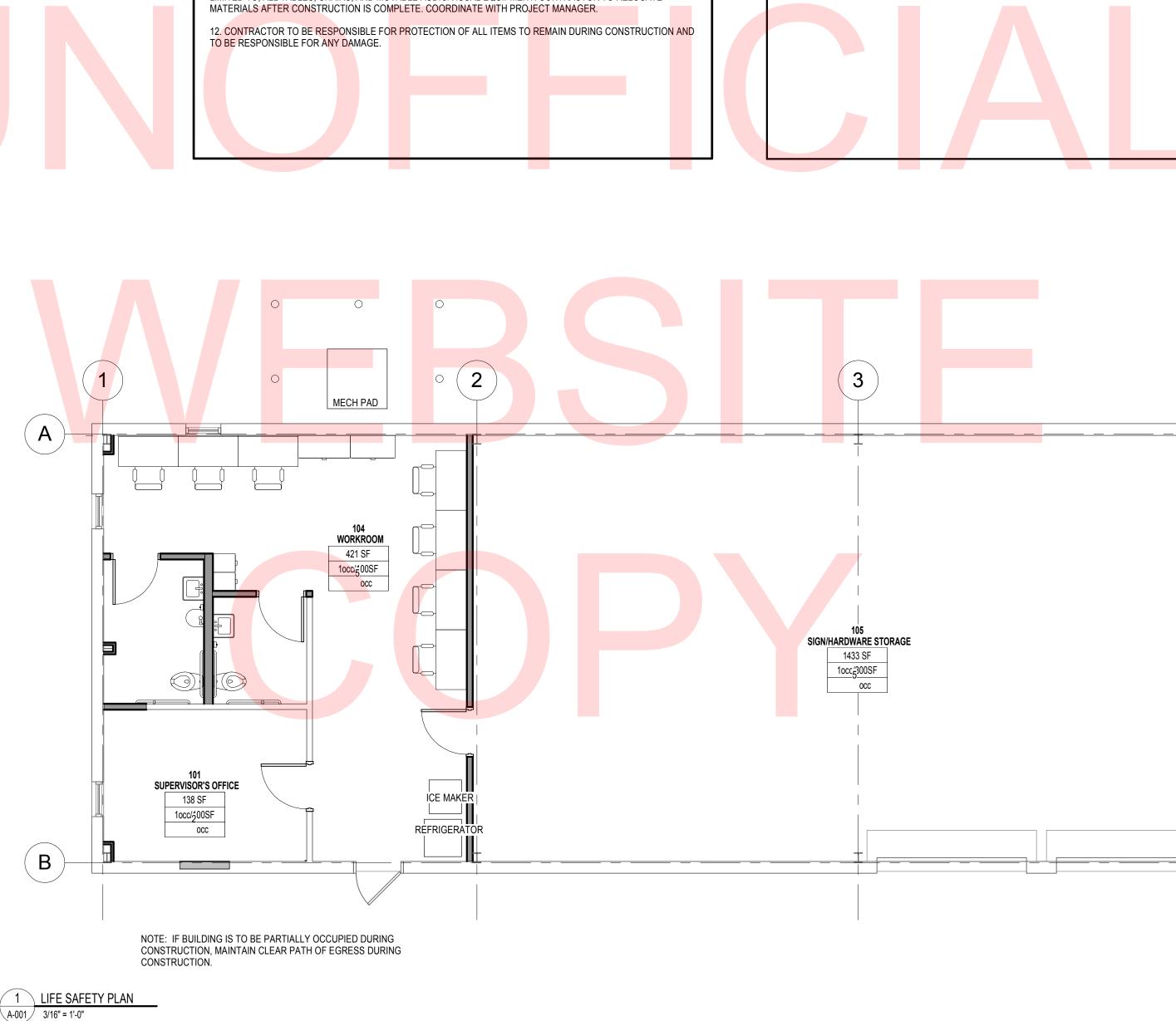
@	At
Ø	Diameter
A	Air
A.D.	Area Drain
ACOUS.	Acoustical
ACT	Acoustical Ceiling Tile
ADJ.	Adjacent
ADJUST.	Adjustable
AFF	Above Finish Floor
AGGR.	Aggregate
ALUM.	Aluminum
APPROX.	Approximate
ARCH.	Architectural
ASB.	Asbestos
ASPH.	Asphalt
AUTO.	Automatic
AWC	Acoustical Wall Cover
B.R.	Bumper Rail
BD.	Board
BITUM.	Bituminous
BLDG.	Building
BLK.	Block
BLKG.	Blocking
BM.	Beam
BOT.	Bottom
C.I. C.J. CAB. CB CC CCT CEM. CER. CFCI	Cast Iron Control Joint Cased Opening Cabinet Carpet Base Cubical Curtain Cubical Curtain Track Cement Ceramic Contractor Furnished & Contractor
CG CHAM. CLG. CLO. or CL. CLR CM CMU CNTR. COL. CONC. CONC. CONSTR. CONT. CORR. CPT CR CRT CT CT CTR. CTSK.	Installed Corner Guard Chamfer Ceiling Closet Clear Crowm Molding Concrete Masonry Unit Counter Column Concrete Connection
D.F.	Drinking Fountain
D.O.	Door Opening
D.S.P.	Dry Standpipe
DBL	Double
DEPT.	Department
DET.	Detail
DIA.	Diameter
DIM.	Dimension
DIS.	Dispenser
DN.	Down
DR.	Door
DS.	Downspout
DWG.	Drawing
DWR.	Drawer
E. E.C.R. E.J. E.P. EA. EL. ELEC. ELEV. EMER. ENCL. EO EOR EQ EQUIP. ETR EWC Exist. or Ex. EXP. EXPAN. EXT.	East Existing Contractor Relocated Expansion Joint Electrical Panelboard Each Elevation Electrical Elevator Emergency Enclosure Emergency Electrical Outlet Existing Owner Relocated Equal Equipment Existing to Remain Existing Water Cooler
F.A. F.B. F.O.C. F.O.F. F.O.S. F.S. FAB	Fire Alarm Flat Bar Floor Drain Face of Concrete Face of Floor Face of Studs Full Size Fabric

FDN. FE FEC FHC FIN. FLAS. FLOUR. FLR. FPRF. FR FT. FTG. FURR. FUR. FUT. FWC	Foundation Fire Extinguisher Fire Extinguisher Cabinet Fire Hose Cabinet Finish Flashing Flourecent Floor Fireproof Fire Resistant Foot or Feet Footing Furring Future Fabric Wall Covering
G.B. GA. GL? GND. GR. GRNT. GWB GYP.	Grab Bar Guage Galvanized Glass Type Ground Grade Granite Gypsum Wall Board Gypsum
H.B. H.C. H.M. H.R. H/C HDWD. HDWR. HGT. HORIZ.	Hose Bibb. Hollow Core Hollow Metal Hand Rail Handicap Hardwood Hardware Height Horizontal
I.D. I.V.T. INSUL. INT. ISOL.	Inside Diameter (Dim.) I. V. Track Insulation Interior Isolation
J.C. JAN. JT.	Janitor Closet Janitor Joint
KIT.	Kitchen
LAB. LAM. LAV. LIN. LKR. LN LT.	Laboratory Laminate Lavatory Linoleum Locker Line Light
M. M.C. MAC. MAT MAX. MECH. MECH. MET. MFR. MFR. MIN. MIN. MIN. MIN. MIN. MIN. MIN. MIN	Monitor Medicine Cabinet Masonry Opening Walk Off Mat Maximum Mechanical Membrane Metal Manufacturer Manhole Minimum Mirror Miscellaneous Modular Mounted Mullion
N2 N. N.C.F.I. N.I.C. N.T.S. N/A NO. NOM.	Nitrous North or Nitrogen New Contractor Furnished & Installed Not In Contract Not to Scale Not Applicable Number Nominal
02 0.A. 0.C. 0.D. 0.F.C.I. 0.F.O.I. 0.F.O.I. 0.R. 0BS. 0FF. 0PER. 0PG. 0PP. P. PNT P.T.S. PARAB.	Oxygen Overall On Center Outside Diameter Owner Furnished, Contractor Installed Over Flow Drain Owner Furnished, Owner Installed Operating Room Obscure Office Operator Opening Opposite Paint Pneumatic Tube Station Parabolic
PL. PLAM.	Plate Plastic Laminate

DELAWARE

DEPARTMENT OF TRANSPORTATION

PLAS. PLYWD. PR. PRCST. PT PTD PTN. PVC PWC	Plaster Plywood Pair Pre-cast Porcelain Tile Painted Partition Solid Vinyl Protective Wall Covering
Q.T.	Quarry Tile
R R.B. R.D. R.O. RAD. REF. REFR. REINF. REQ'D RES. RESIL REV. RGTR. RM. RWD.	Riser Resilient Base Roof Drain Rough Opening Rain Water Conductor Radius Reference Refregerator Reinforced Required Resinous Resilient Reverse Register Room Redwood
S.D. S.M.S. S.N.D. S.N.R. S.SK. SCHED. SECT. SH. SHR.	Soap Dispenser Sheet Metal Screw Sanitary Napkin Dispenser Sanitary Napkin Receptacle Service Sink Schedule Section Shelf Shower
SHT. SIM.	Sheet Similar
SPEC. SQ. SR SRV SS SSCG ST ST.STL. STA. STD. STL. STD. STL. STD. STUCT. SURG. SUSP. SV SYM.	Specification Square Sheet Rubber Slip Resistant Vinyl Solid Surface Stainless Steel Corner Guard Stain Stainless Steel Station Standard Steel Storage Structural Surgical Suspended Sheet Vinyl Symmetrical
T. & G.	Tongue and Groove
T.B. T.C. T.O.S. T.P. T.P.D. T.W. TELE. TER. TER. THK. TRANSF. TRD. TS TV TYP.	Towel Bar Top Of Curb Top of Steel or Top of Slab Top of Pavement Toilet Paper Dispenser Top of Wall Telephone Terrazzo Thick
U.C. U.L. U.O.N. UNF. UR.	Undercounter or Cabinet Underwriter's Laboratory Unless Otherwise Noted Uniform Urinal
V or VAC. V.B. VCT VERT. VEST. VIF VWB VWC VYL	Vacume Vinyl Base Vinyl Composition Tile Vertical Vestibule Verify in Field Vinyl Wall Border Vinyl Wall Covering Vinyl
W. W.C. W.G. W/ WD WD. WP WPF WSCT. WT.	West or Width Water Closet Wall Glaze With Without Waste Basket Wood Wall Panel Waterproof Wainscot Weight



DEMOLITION NOTES

. SEPARATE CONSTRUCTION AREAS FROM NON CONSTRUCTION AREAS BY CONSTRUCTING DUST PARTITIONS. KEEP DUST PARTITIONS TIGHT WITH TAPED POLY, AND SEAL DUCT INTAKES AS REQUIRED TO PREVENT SYSTEM CONTAMINATION FROM DUST. COORDINATE FINAL LOCATIONS OF DUST PARTITIONS WITH PROJECT MANAGER. ALL LUMBER AND POLY REQUIRED TO BE FIRE RETARDANT TYPE. LOCATE OPENINGS AS REQUIRED.

2. COORDINATE EXTENT OF DEMOLITION WORK WITH REQUIREMENTS SET FORTH ON FLOOR PLANS FOR NEW WORK.

3. FIELD VERIFY ALL EXISTING CONSTRUCTION RELATED CONDITIONS PRIOR TO STARTING DEMOLITION OR NEW CONSTRUCTION. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT OR OWNER'S REPRESENTATIVE.

4. FOR CONSTRUCTION THAT REMAINS AFTER DEMOLITION, REMOVE ALL EXISTING MORTAR, ANCHORS, FINISH MATERIAL, ETC. AND PATCH, FILL HOLES, CLEAN, PREPARE, PRIME, AND APPLY NEW FINISH SO THAT COMPLETED WORK IS INDISTINGUISHABLE FROM ADJACENT WORK.

5. REMOVE ANY EXISTING CONDUIT, WIRING, OR OTHER SURFACE MOUNTED ITEMS THAT DO NOT SERVE ANY PURPOSE/FUNCTION. REPAIR/REINSTALL ANY UNSIGHTLY SURFACE MOUNTED WIRING AS REQUIRED.

6. EXIT ACCESS IN NON CONSTRUCTION AREAS SHALL BE MAINTAINED DURING CONSTRUCTION.

7. WHERE RUBBER/VINYL BASE AND ADHESIVE IS REMOVED, PREPARE REMAINING SURFACE TO RECEIVE NEW BASE. 8. COORDINATE WITH THE OWNER, ALL DEMOLITION AND CONSTRUCTION ACTIVITIES, TO MINIMIZE DISRUPTION

OF THE NORMAL DAILY FUNCTIONING OF THE OWNER'S OCCUPIED AREAS.

9. MAINTAIN THE BUILDING IN A WATERTIGHT CONDITION AT ALL TIMES.

10. DO NOT REMOVE TEMPORARY WALLS UNTIL ALL FINISHED WORK IS COMPLETED OR UPON OWNER APPROVAL. UPON REMOVAL OF TEMPORARY PARTITIONS, PATCH TO MATCH EXISTING ADJACENT CONSTRUCTION.

11. CONTRACTOR WILL COORDINATE AND BE RESPONSIBLE FOR RELOCATING FURNISHINGS INCLUDING, BUT NOT LIMITED TO, ALL TABLES, CHAIRS, AND MOVABLE AUDIO/VISUAL EQUIPMENT. CONTRACTOR TO RELOCATE

GENERAL CONSTRUCTION NOTES

1. CONTRACTOR SHALL VERIFY AS SOON AS POSSIBLE AFTER WALK-THRU, THE ACCURACY OF ALL EXISTING DIMENSIONS AND ELEVATIONS WHICH ARE REFERENCED ON THESE DOCUMENTS. REPORT ANY DISCREPANCIES TO THE ARCHITECT.

2. CONTRACTOR TO PROVIDE BLOCKING AS NECESSARY IN WALLS TO SUPPORT ALL CASEWORK, WALL MOUNTED DEVICES, AND EQUIPMENT. WOOD BLOCKING REQUIRED TO BE FIRE RETARDANT TREATED.

3. ALL DIMENSIONS ARE TO FACE OF DRYWALL, UNLESS NOTED OTHERWISE.

4. CONTRACTOR TO PROVIDE ALL EQUIPMENT. CASEWORK, ETC INDICATED ON THE PLANS UNLESS SPECIFICALLY STATED NOT IN CONTRACT (NIC). CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS RESULTING FROM DIMENSIONAL CHANGES IN EQUIPMENT, CASEWORK, ETC AND ANY ELECTRICAL/MECHANICAL/PLUMBING CHANGES.

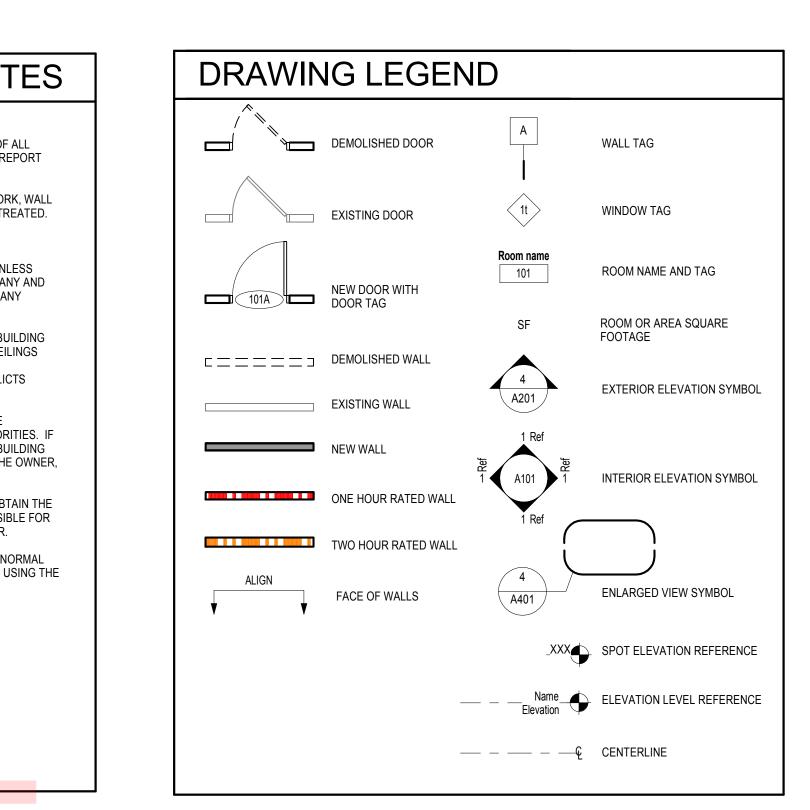
5. ALL CONTRACTORS SHALL COORDINATE LOCATIONS, CLEARANCES, AND ELEVATIONS OF BUILDING STRUCTURE, ELECTRICAL WORK, LIGHT FIXTURES, MECHANICAL WORK, PLUMBING WORK, CEILINGS AND THE LIKE WITH THEIR RESPECTIVE WORK PRIOR TO FABRICATION AND INSTALLATION. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR POTENTIAL CONFLICTS BEFORE PROCEEDING WITH THE WORK.

6. ALL WORK SHALL CONFORM TO LOCAL BUILDING CODES AND REGULATIONS AND SHALL BE INSTALLED ACCORDING TO THE JOINT REQUIREMENTS AND DECISIONS OF ALL LOCAL AUTHORITIES. IF ANY CONTRACTOR OR SUBCONTRACTOR PERFORMS ANY WORK CONTRARY TO THE LOCAL BUILDING CODE AND ORDINANCES, RULES AND REGULATIONS, WITHOUT PRIOR WRITTEN NOTICE TO THE OWNER, HE SHALL BEAR ALL COSTS ARISING THEREFROM.

7. WHERE DISCREPANCIES EXIST BETWEEN VARIOUS DRAWINGS. THE CONTRACTOR WILL OBTAIN THE ARCHITECT'S INTERPRETATION BEFORE PROCEEDING. THE CONTRACTOR WILL BE RESPONSIBLE FOR IMPLEMENTING ANY REASONABLE INTERPRETATION AT NO ADDITIONAL COST TO THE OWNER.

8. COORDINATE AND SCHEDULE WORK WITH THE OWNER TO ACCOMMODATE THE OWNER'S NORMAL ACTIVITIES AND TO MAINTAIN THE SAFETY OF THE OWNER'S PROPERTY, STAFF AND OTHERS USING THE SITE.

ADDENDUMS / REVISIONS		CO
	GRAVEL HILL SIGN SHOP	
	RENOVATION	C
		SL



CODE ANALYSIS SITE LOCATION: DELAWARE DEPARTMENT OF TRANSPORTATION GRAVEL HILL YARD SIGN SHOP BUILDING 24450 LEWES GEORGETOWN HWY GEORGETOWN, DE 19947 BUILDING OWNER: DELAWARE DEPARTMENT OF TRANSPORTATION (DELDOT) APPLICABLE CODES: INTERNATIONAL BUILDING CODE 2012 NFPA 101 LIFE SAFETY CODE 2015 DELAWARE ARCHITECTURAL ACCESSIBILITY STANDARDS USE & OCCUPANCY: S-2 - STORAGE CONSTRUCTION TYPE: **VB COMBUSTIBLE** NON-SPRINKLED TOTAL BUILDING AREA 2,300 SF, EXISTING NONE REQUIRED, EXISTING ALLOWABLE AREA: AREA MODIFICATIONS: TOTAL BUILDING STORIES: TOTAL BUILDING STORIES: 1/ 16FT, EXISTING ALLOWABLE STORIES: 2 / 40 FT ALLOWABLE STORIES: OCCUPANT LOAD: 12, BASED ON IBC T1004 EXITS REQUIRED: 1 EXITS REQUIRED/ 1 PROVIDED MAXIMUM TRAVEL DISTANCE: 100' MAX / 83' ACTUAL COMMON PATH OF EGRESS: 100' MAX / 83' ACTUAL



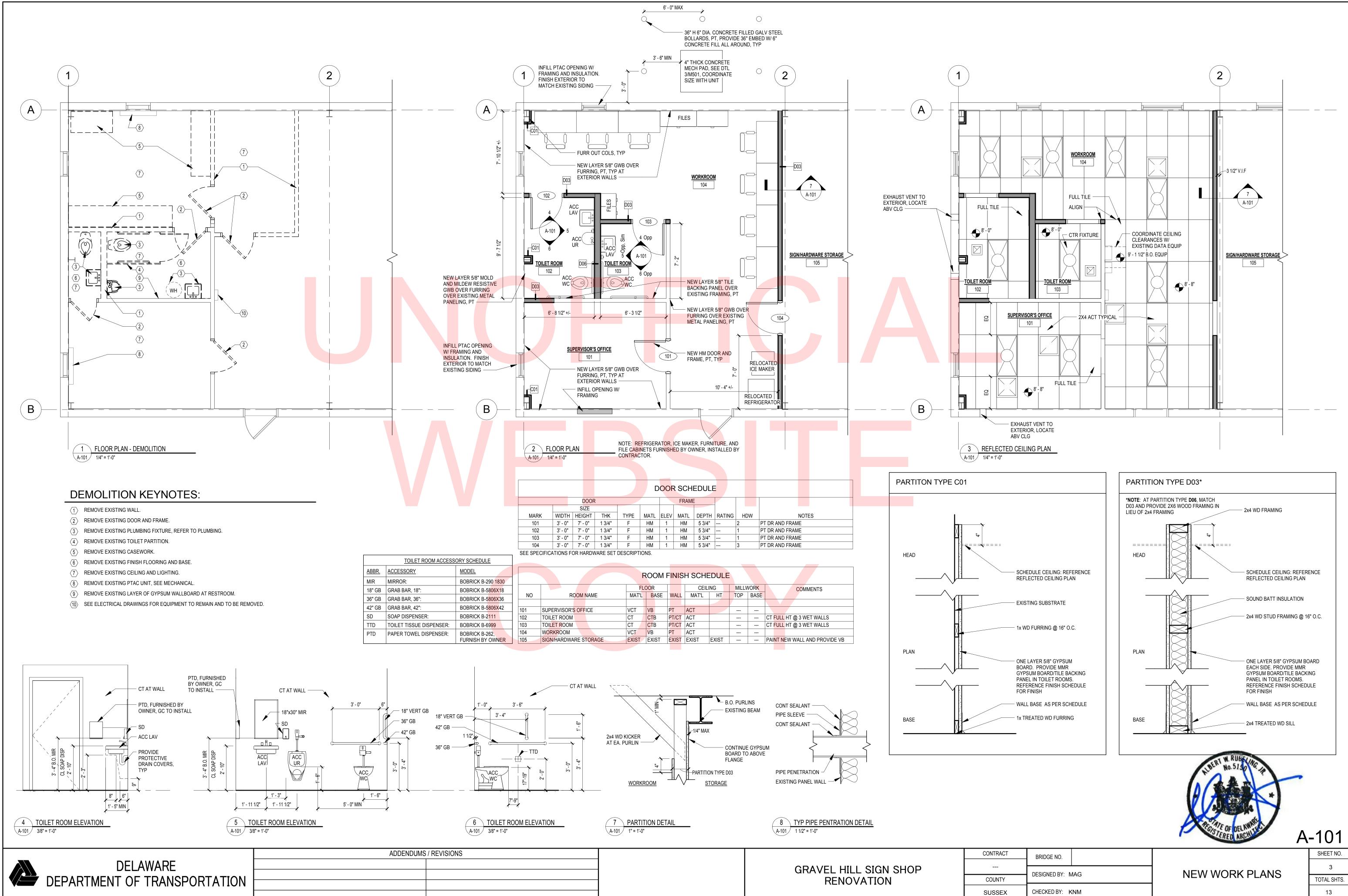
CONTRACT	BRIDGE NO.		
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LIFE SAFETY PLAN AND **GENERAL NOTES**

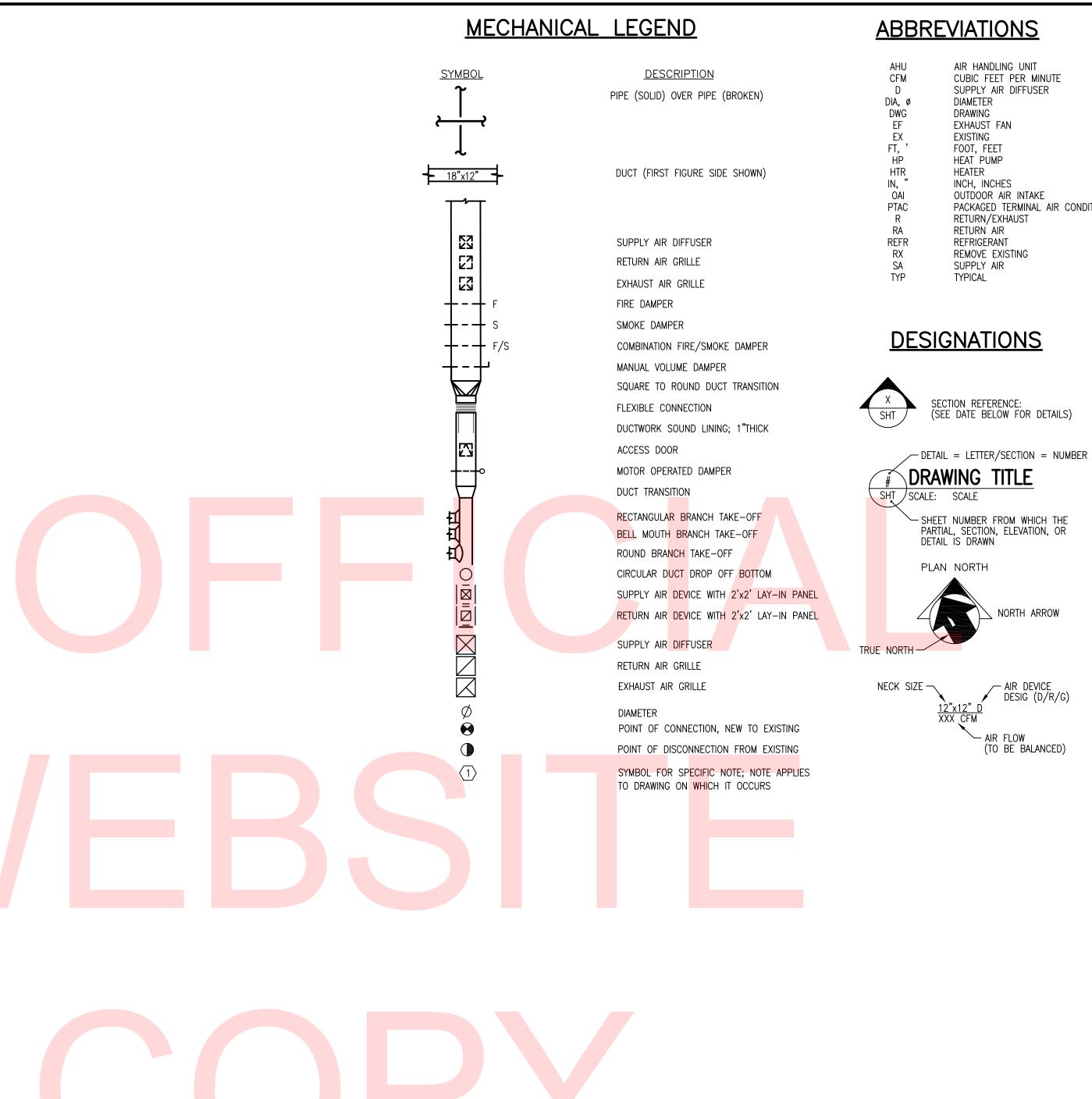
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2
TOTAL SHTS.

13





ADDENDUMS / REVISIONS



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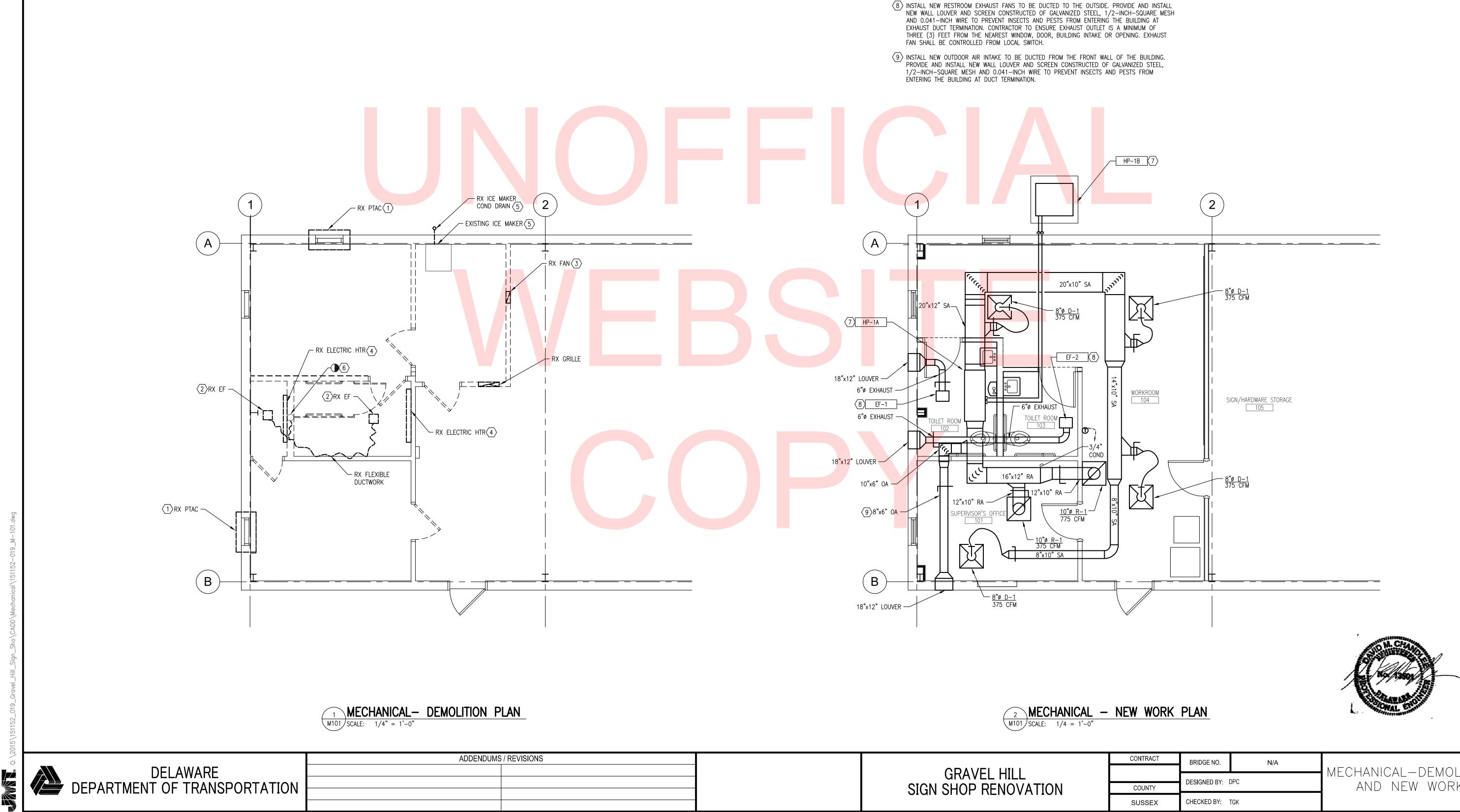
PACKAGED TERMINAL AIR CONDITIONER

GENERAL NOTES

- WORK SHALL CONFORM TO THE CONTRACT DRAWINGS, SPECIFICATIONS AND THE 1. LATEST APPLICABLE INTERNATIONAL MECHANICAL CODE. WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA AND NATIONAL SAFETY CODE REQUIREMENTS.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL APPLICATIONS AND FEES ASSOCIATED WITH APPLICABLE PERMITS FOR CONSTRUCTION.
- 3. THE SCOPE OF WORK INDICATED IN THESE DOCUMENTS SHALL INCLUDE MECHANICAL SYSTEMS, FULLY ADJUSTED, TESTED AND READY TO USE. PROVIDE ITEMS NECESSARY TO COMPLETE THE SYSTEMS. EXAMINE WORK INDICATED FOR TRADES IN ORDER TO DETERMINE THE EXTENT OF THE WORK REQUIRED TO BE COMPLETED.
- 4. IT IS THE INTENTION OF THESE DRAWINGS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN "FURNISH AND INSTALL COMPLETE, TESTED AND READY FOR USE."
- 5. THE DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW EVERY COMPONENT AND/OR ACCESSORY REQUIRED FOR A COMPLETE INSTALLATION. THE CONTRACTOR SHALL PROVIDE ITEMS NECESSARY FOR A PROPERLY WORKING SYSTEM IN COMPLIANCE WITH ACCEPTED INDUSTRY STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
- PRIOR TO BID, THE CONTRACTOR SHALL VISIT THE SITE AND IDENTIFY ITEMS 6. THAT MAY AFFECT THEIR BID. PRIOR TO THE INSTALLATION, FABRICATION, REMOVAL, OR RELOCATION OF ANY WORK, THE CONTRACTORS SHALL REVIEW THE ACTUAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND SHALL COORDINATE WORK WITH THE PLANS, EXISTING EQUIPMENT AND SYSTEMS, BUILDING STRUCTURE AND WORK OF OTHER TRADES. WHERE CONFLICTS OCCUR, OR IF CONNECTIONS THERETO CAN NOT BE MADE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER PRIOR TO MATERIAL FABRICATION OR INSTALLATION.
- 7. WHERE THE WORK OF VARIOUS TRADES WILL BE INSTALLED IN CLOSE PROXIMITY TO ONE ANOTHER OR WHERE THERE IS EVIDENCE THAT THE WORK OF ONE TRADE WILL INTERFERE WITH WORK OF ANOTHER, THE CONTRACTOR SHALL WORK OUT SPACE CONDITIONS TO MAKE A SATISFACTORY ADJUSTMENT. IF THE CONTRACTOR ALLOWS ONE TRADE TO INSTALL HIS WORK BEFORE COORDINATING WITH WORK OF OTHER TRADES THE CONTRACTOR SHALL MAKE NECESSARY CHANGES TO CORRECT THE CONDITIONS IN A MANNER ACCEPTABLE TO THE OWNER AND THE CONTRACTOR SHALL BEAR THE COST OF SUCH CORRECTIONS.
- 8. THE CONTRACTOR SHALL LOCATE EQUIPMENT WHICH MUST BE SERVICED, OPERATED, OR MAINTAINED IN FULLY ACCESSIBLE POSITION. EQUIPMENT SHALL INCLUDE, BUT NOT BE LIMITED TO, VALVES, MOTORS, CONTROLLERS, DRAIN PANS, ETC. IF REQUIRED FOR ACCESSIBILITY, FURNISH ACCESS DOORS FOR THE PURPOSE. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ALLOW FOR BETTER ACCESSIBILITY.
- 9. WORK IN OCCUPIED SPACE SHALL BE COORDINATED WITH THE OWNER. SHOULD ANY OUTAGES BE REQUIRED IN THE COURSE OF THIS PROJECT, THE CONTRACTOR SHALL COORDINATE SUCH OUTAGES WITH THE OWNER'S DESIGNATED REPRESENTATIVE, SCHEDULING ANY OUTAGES DURING THE NON WORKING HOURS, SO AS NOT TO AFFECT FACILITY OPERATIONS, 5 BUSINESS DAYS NOTICE WILL BE REQUIRED PRIOR TO ANY OUTAGE. NO OUTAGE MAY BE EXECUTED PRIOR TO APPROVAL OF THE OWNER'S DESIGNATED REPRESENTATIVE AND THE FACILITY MANAGER.
- 10. THE CONTRACTOR SHALL LEAVE THE ENTIRE MECHANICAL SYSTEM INSTALLED UNDER THIS CONTRACT IN PROPER WORKING ORDER AND SHALL, WITHOUT CHARGE, REPLACE ANY WORK OR MATERIALS WHICH DEVELOP DEFECTS, EXCEPT FROM ORDINARY WEAR AND TEAR, WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.
- 11. THE CONTRACTOR SHALL, DURING THE ONE YEAR WARRANTY PERIOD, BE RESPONSIBLE FOR PROPER REPAIR AND ADJUSTMENTS OF MECHANICAL SYSTEMS AND EQUIPMENT, APPARATUS, DEVICES ETC. INSTALLED BY HIM, AND DO WORK NECESSARY TO ENSURE EFFICIENT AND PROPER FUNCTIONING.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR, AND SHALL INCUR FINANCIAL RESPONSIBILITIES FOR, ANY DAMAGES CAUSED BY OR RESULTING FROM DEFECTS IN HIS WORK.
- 13. WHEREVER PIPES, CONDUITS, OR OTHER ITEMS PASS THROUGH FIRE RATED WALLS AND FLOORS, THE SPACE BETWEEN THE ITEM AND THE MASONRY OR THE SPACE BETWEEN THE ITEM AND THE SLEEVE SHALL BE ADEQUATELY FIRE STOPPED WITH A NON COMBUSTIBLE, NON MELTING MATERIAL IN ACCORDANCE WITH NFPA STANDARDS.
- 14. WALL OPENINGS RESULTING FROM DEMOLITION SHALL BE CLOSED AND FINISHED TO MATCH EXISTING.
- 15. FINISHES DAMAGED DURING THE PROJECTS SHALL BE REPAIRED TO MATCH EXISTING.
- 16. THE ENTIRE MECHANICAL INSTALLATION SHALL CONFORM TO THE LOCAL CODE, STATE LAWS, AGA, IBC, NBFU, NFPA, ASME, AND ALL OTHER GOVERNING AUTHORITIES.
- 17. INSTALL NEW EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS.



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CONTRACT	BRIDGE NO.	N/A		SHEET NO
			MECHANICAL—LEGEND,	4
	DESIGNED BY:	DPC	ABBREVIATIONS, &	
COUNTY			,	TOTAL SHTS
SUSSEX	CHECKED BY:	TGK	NOTES	13



SHEET KEYNOTES:

- (1) REMOVE EXISTING PTAC AND EXISTING ELECTRICAL CONNECTION BACK TO SOURCE. PROVIDE PTAC UNIT TO DELDOT FOR REUSE.
- $\langle 2 \rangle$ REMOVE EXISTING EXHAUST FAN, ASSOCIATED DUCTWORK AND EXISTING ELECTRICAL CONNECTION BACK TO SOURCE.
- $\langle 3 \rangle$ REMOVE EXISTING THROUGH WALL EXHAUST FAN TO SHOP AREA. REMOVE ELECTRICAL CONNECTION BACK TO SOURCE.
- $\langle 4 \rangle$ remove existing electric heaters and existing electrical connection back to source.
- $\overline{(5)}$ REMOVE AND PROTECT ICE MACHINE FOR REINSTALLATION FOLLOWING CONSTRUCTION COMPLETION. EXISTING CONDENSATE PIPING TO BE REMOVED WHEN ICE MAKER IS RELOCATED AND CONDENSATE OPENING WILL BE PATCHED.
- $\overline{(6)}$ REMOVE EXISTING FLEXIBLE DUCTWORK CONNECTED TO EXHAUST FAN, MAINTAIN EXISTING VENT THROUGH ROOF FOR RECONNECTION TO NEW SANITARY VENT. REFER TO PLUMBING DRAWINGS.
- $\langle 7 \rangle$ install indoor and suspended from roof structure above finished ceiling and OUTDOOR CONDENSING UNIT PER MANUFACTURER REQUIREMENTS. ROUTE REFRIGERANT PIPING ABOVE CEILING. PROVIDE NEW CONCRETE EQUIPMENT PAD FOR NEW OUTDOOR CONDENSING UNIT. CONTRACTOR TO COORDINATE CONCRETE PAD LOCATION WITH EXISTING STORM DRAIN.

2 MECHANICAL – NEW WORK PLAN SCALE: 1/4 = 1'-0"			WAL ELANDER			
				\mathbb{M} —	101	
	CONTRACT	BRIDGE NO.	N/A		SHEET NO.	
HILL				MECHANICAL-DEMOLITION	5	
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	SUSSEX	CHECKED BY: TGK			13	

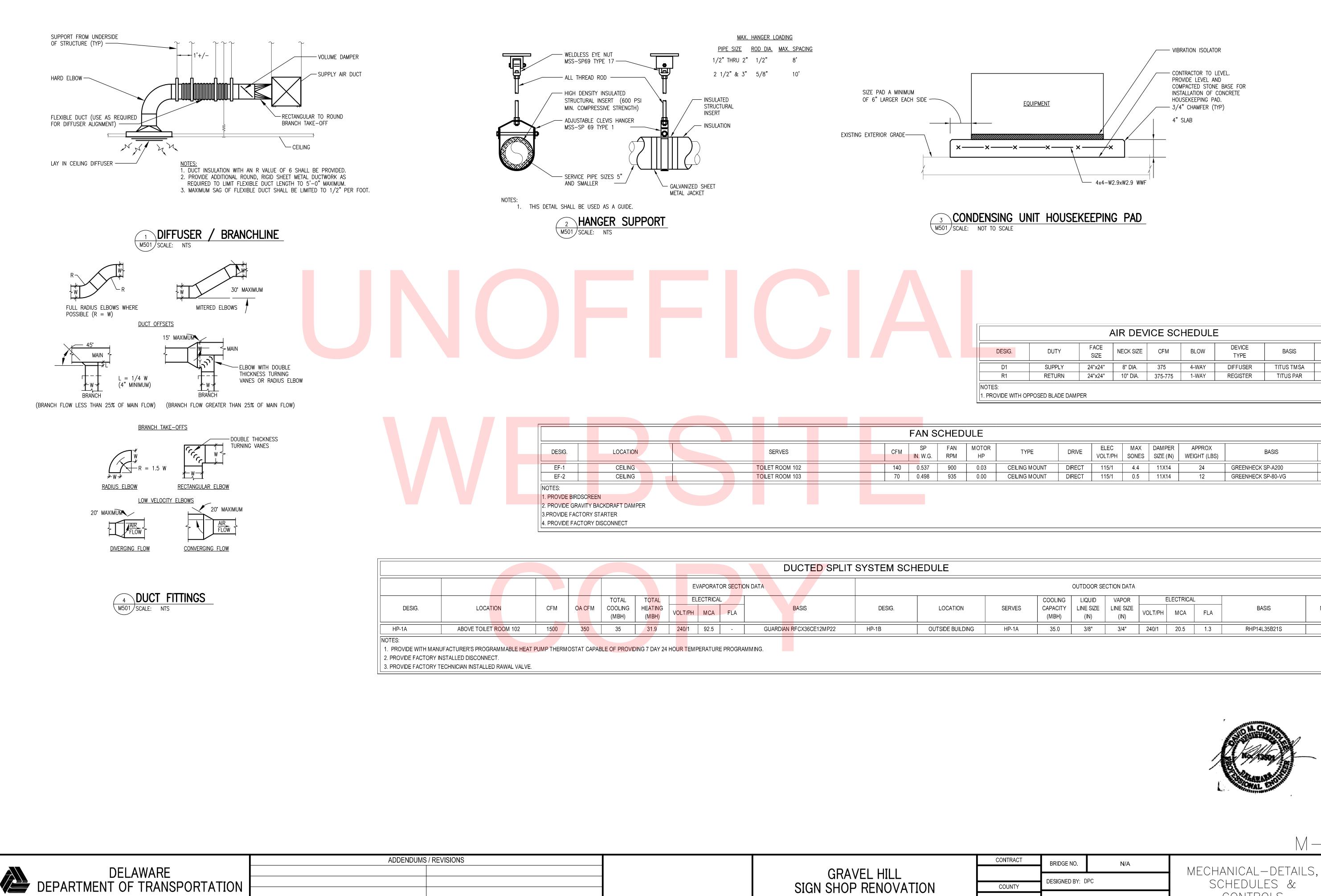
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	GRAVEL HILL	
	SIGN SHOP RENOVATION	

1. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.

GENERAL SHEET NOTES:

2. DEMOLITION SHALL INCLUDE REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE MECHANICAL AND RELATED ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS ..

- 3. UNLESS OTHERWISE NOTED, MECHANICAL ITEMS SHOWN HEAVY SOLID BE EXISTING AND MECHANICAL ITEMS SHOWN HEAVY DASHED (- - -) SHALL BE REMOVED.
- 4. DO NOT LOCATE DUCTWORK OR PIPING ABOVE ELECTRICAL PANELS OR EQUIPMENT.



BASIS NOTE
IS)
GREENHECK SP-A200 1,2,3,
GREENHECK SP-80-VG 1,2,3

	DUCTED SPLIT SYSTEM SCHEDULE																			
					E	VAPORATOF	SECTION D	ATA						OUTDOOR SE	CTION DATA					
LOCATION	CFM		TOTAL COOLING (MBH)	T <mark>OTAL</mark> HEATING (MBH)	V <mark>OLT/PH</mark>	MCA	FLA		BASIS	DESIG.	LOCATION	SERVES	COOLING CAPACITY (MBH)	LIQUID LINE SIZE (IN)	VAPOR LINE SIZE (IN)	VOLT/PH	ELECTRICAL	- FLA	BASIS	NOTES
ABOVE TOILET ROOM 102	1500	350	35	31.9	240/1	92.5	-	GUARDIAN	RFCX36CE12MP22	HP-1B	OUTSIDE BUILDING	HP-1A	35.0	3/8"	3/4"	240/1	20.5	1.3	RHP14L35B21S	1,2,3

IS		C
	GRAVEL HILL	
	SIGN SHOP RENOVATION	
		:

AIR DEVICE SCHEDULE								
DESIG.	DUTY	FACE SIZE	NECK SIZE	CFM	BLOW	DEVICE TYPE	BASIS	NOTES
D1	SUPPLY	24"x24"	8" DIA.	375	4-WAY	DIFFUSER	TITUS TMSA	1
R1	RETURN	24"x24"	10" DIA.	375-775	1-WAY	REGISTER	TITUS PAR	1

SU

			$M - \xi$	501
NTRACT	BRIDGE NO.	N/A		SHEET NO.
			MECHANICAL-DETAILS,	6
	DESIGNED BY: DPC			Ű
OUNTY	DESIGNED DT. DTO		SCHEDULES &	TOTAL SHTS.
JSSEX	CHECKED BY: 1	GK	CONTROLS	13



ADDENDUMS / REVISIONS



	GRAVEL HILL	Г
	SIGN SHOP RENOVATION	

DOMESTIC COLD WATER DOMESTIC WATER HEATER DOMESTIC HOT WATER REMOVE EXISTING

(SEE DATE BELOW FOR DETAILS)

- DETAIL = LETTER/SECTION = NUMBER

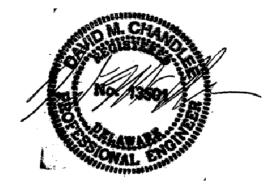
- NORTH ARROW

GENERAL NOTES 1. WORK SHALL CONFORM TO THE CONTRACT DRAWINGS, SPECIFICATIONS AND THE LATEST APPLICABLE INTERNATIONAL PLUMBING CODE. WORK SHALL BE

- PERFORMED IN ACCORDANCE WITH OSHA AND NATIONAL SAFETY CODE REQUIREMENTS. 2. THE SCOPE OF WORK INDICATED IN THESE DOCUMENTS SHALL INCLUDE PLUMBING SYSTEMS, FULLY ADJUSTED, TESTED AND READY TO USE. PROVIDE ITEMS NECESSARY TO COMPLETE THE SYSTEMS. EXAMINE WORK INDICATED FOR TRADES IN ORDER TO DETERMINE THE EXTENT OF THE WORK REQUIRED TO BE COMPLETED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL APPLICATIONS AND FEES ASSOCIATED WITH APPLICABLE PERMITS FOR
- 3. IT IS THE INTENTION OF THESE DRAWINGS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN "FURNISH AND INSTALL COMPLETE, TESTED AND READY FOR USE."

CONSTRUCTION.

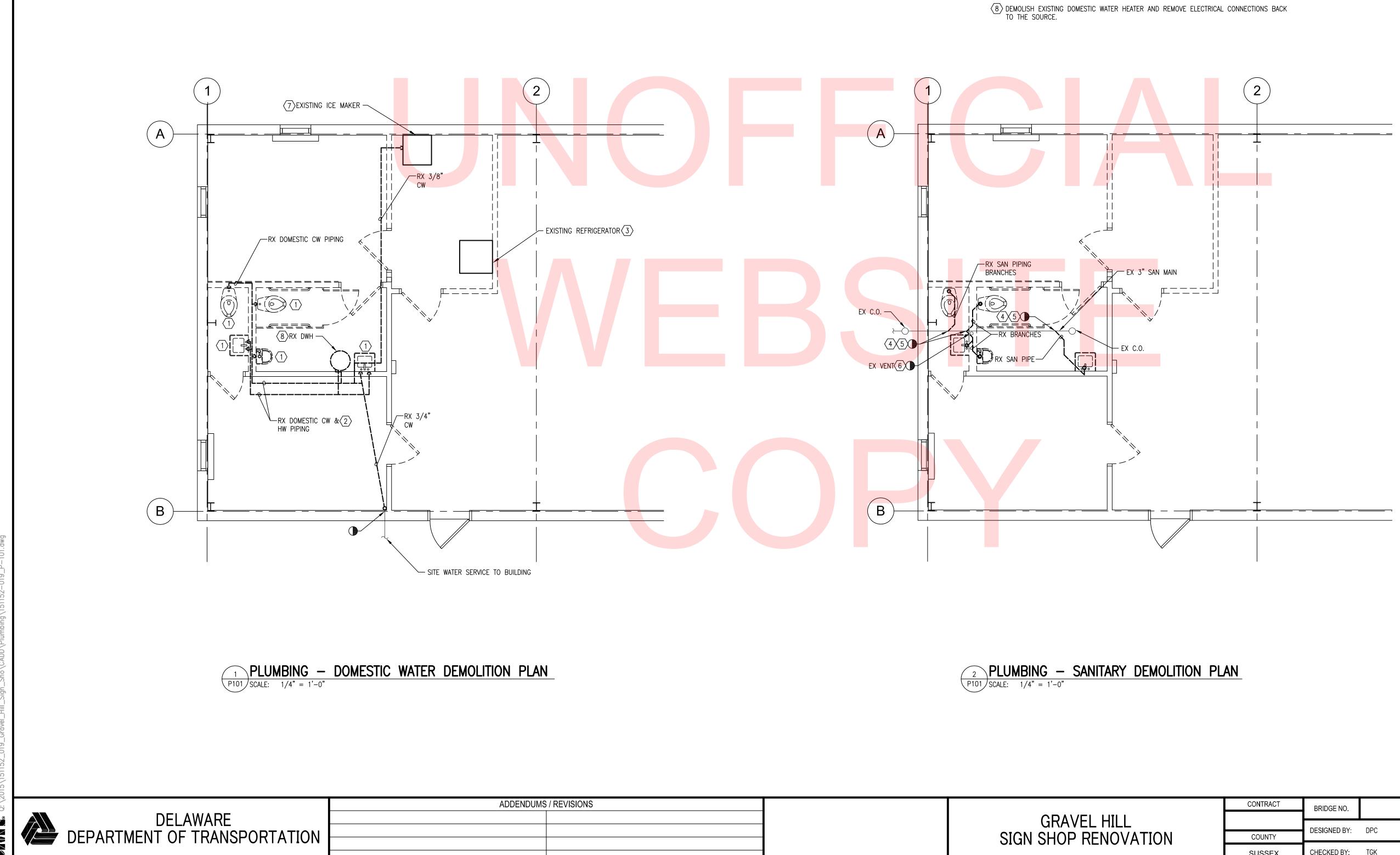
- 4. THE DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW EVERY COMPONENT AND/OR ACCESSORY REQUIRED FOR A COMPLETE INSTALLATION. THE CONTRACTOR SHALL PROVIDE ITEMS NECESSARY FOR A PROPERLY WORKING SYSTEM IN COMPLIANCE WITH ACCEPTED INDUSTRY STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
- 5. PRIOR TO BID, THE CONTRACTOR SHALL VISIT THE SITE AND IDENTIFY ITEMS THAT MAY AFFECT THEIR BID. PRIOR TO THE INSTALLATION, FABRICATION, REMOVAL, OR RELOCATION OF ANY WORK, THE CONTRACTORS SHALL REVIEW THE ACTUAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND SHALL COORDINATE WORK WITH THE PLANS, EXISTING EQUIPMENT AND SYSTEMS, BUILDING STRUCTURE AND WORK OF OTHER TRADES. WHERE CONFLICTS OCCUR, OR IF CONNECTIONS THERETO CAN NOT BE MADE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER PRIOR TO MATERIAL FABRICATION OR INSTALLATION.
- WHERE THE WORK OF VARIOUS TRADES WILL BE INSTALLED IN CLOSE PROXIMITY TO ONE ANOTHER OR WHERE THERE IS EVIDENCE THAT THE WORK OF ONE TRADE WILL INTERFERE WITH WORK OF ANOTHER, THE CONTRACTOR SHALL WORK OUT SPACE CONDITIONS TO MAKE A SATISFACTORY ADJUSTMENT. IF THE CONTRACTOR ALLOWS ONE TRADE TO INSTALL HIS WORK BEFORE COORDINATING WITH WORK OF OTHER TRADES THE CONTRACTOR SHALL MAKE NECESSARY CHANGES TO CORRECT THE CONDITIONS IN A MANNER ACCEPTABLE TO THE OWNER AND THE CONTRACTOR SHALL BEAR THE COST OF SUCH CORRECTIONS.
- 7. THE CONTRACTOR SHALL LOCATE EQUIPMENT WHICH MUST BE SERVICED, OPERATED, OR MAINTAINED IN FULLY ACCESSIBLE POSITION. EQUIPMENT SHALL INCLUDE, BUT NOT BE LIMITED TO, VALVES, MOTORS, CONTROLLERS, DRAIN PANS, ETC. IF REQUIRED FOR ACCESSIBILITY, FURNISH ACCESS DOORS FOR THE PURPOSE. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ALLOW FOR BETTER ACCESSIBILITY.
- 8. ALL WORK SHALL BE PERFORMED AT SUCH A TIME AND IN SUCH A MANNER AS WILL LEAST INTERFERE WITH MAINTENANCE AND OPERATION OF OWNER'S ACTIVITIES. PROVISIONS SHALL BE MADE TO PERMIT OWNER'S USE OF ALL THE BUILDING AND OF EXISTING SYSTEMS AT ALL TIMES. WORK IN OCCUPIED SPACE SHALL BE COORDINATED WITH THE OWNER. SHOULD ANY OUTAGES BE REQUIRED IN THE COURSE OF THIS PROJECT, THE CONTRACTOR SHALL COORDINATE SUCH OUTAGES WITH THE OWNER'S DESIGNATED REPRESENTATIVE, SCHEDULING ANY OUTAGES DURING THE NON WORKING HOURS, SO AS NOT TO EFFECT FACILITY OPERATIONS, 72 HOURS NOTICE WILL BE REQUIRED PRIOR TO ANY OUTAGE. NO OUTAGE MAY BE EXECUTED PRIOR TO APPROVAL OF THE OWNER'S DESIGNATED REPRESENTATIVE AND THE FACILITY MANAGER.
- 9. THE CONTRACTOR SHALL LEAVE THE ENTIRE PLUMBING SYSTEM INSTALLED UNDER THIS CONTRACT IN PROPER WORKING ORDER AND SHALL, WITHOUT CHARGE, REPLACE ANY WORK OR MATERIALS WHICH DEVELOP DEFECTS, EXCEPT FROM ORDINARY WEAR AND TEAR, WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.
- 10. THE CONTRACTOR SHALL, DURING THE ONE YEAR WARRANTY PERIOD, BE RESPONSIBLE FOR PROPER REPAIR AND ADJUSTMENTS OF PLUMBING SYSTEMS AND EQUIPMENT, APPARATUS, DEVICES ETC. INSTALLED BY HIM, AND DO WORK NECESSARY TO ENSURE EFFICIENT AND PROPER FUNCTIONING.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR, AND SHALL INCUR FINANCIAL RESPONSIBILITIES FOR, ANY DAMAGES CAUSED BY OR RESULTING FROM DEFECTS IN HIS WORK.
- 12. WHEREVER PIPES, CONDUITS, OR OTHER ITEMS PASS THROUGH FIRE RATED WALLS AND FLOORS, THE SPACE BETWEEN THE ITEM AND THE MASONRY OR THE SPACE BETWEEN THE ITEM AND THE SLEEVE SHALL BE ADEQUATELY FIRE STOPPED WITH A NON COMBUSTIBLE, NON MELTING MATERIAL IN ACCORDANCE WITH NFPA STANDARDS.
- 13. WALL OPENINGS RESULTING FROM DEMOLITION SHALL BE CLOSED AND FINISHED TO MATCH EXISTING.
- 14. FINISHES DAMAGED DURING THE PROJECTS SHALL BE REPAIRED TO MATCH EXISTING.



CONTRACT	BRIDGE NO.	N/A	
			PLUMBING-LEGEND,
	DESIGNED BY:	PC	,, ,, ,, ,, ,, ,, ,, , ,, , , , , , , , , , , , , , , , , , , ,
COUNTY	BEGIGITED B1. E		ABBREVIATIONS, &
SUSSEX	CHECKED BY: 1	GK	NOTES

P - 00SHEET NO. 7 TOTAL SHTS.

13



SHEET KEYNOTES:

- $\langle 1 \rangle$ REMOVE EXISTING FIXTURES AND ASSOCIATED DOMESTIC WATER PIPING.
- (2) EXISTING DOMESTIC WATER PIPING LOCATIONS ARE APPROXIMATE AND MUST BE CONFIRMED BY THE CONTRACTOR PRIOR TO DEMOLITION. REMOVE DOMESTIC WATER PIPING CURRENTLY LOCATED IN EXISTING WALL. CONTRACTOR SHALL BE RESPONSIBLE FOR OPENING AND REPAIRING WALL AS REQUIRED TO COMPLETE THIS WORK. PIPING SHOWN OUTSIDE WALL FOR CLARITY.
- $\overline{\langle 3 \rangle}$ REMOVE AND PROTECT REFRIGERATOR FOR REINSTALLATION FOLLOWING CONSTRUCTION COMPLETION.
- $\langle 4 \rangle$ existing sanitary piping locations are approximate and must be confirmed by the contractor prior to demolition. Contractor is responsible for opening and REPAIRING CONCRETE FLOOR AS REQUIRED.
- $\langle 5 \rangle$ remove existing branch sanitary and vent piping. Maintain sanitary main for RECONNECTION OF NEW PLUMBING FIXTURES. CONTRACTOR SHALL CLOSE AND SEAL ANY AND ALL CONNECTION POINTS TO THE SANITARY MAIN.
- $\overline{(6)}$ REMOVE EXISTING VENT PIPING UP TO POINT OF DISCONNECT IMMEDIATELY BELOW ROOF PENETRATION, CONTRACTOR SHALL MAINTAIN EXISTING VENT THROUGH ROOF FOR RECONNECTION AND REUSE WITH NEW RESTROOM VENT.
- $\langle 7 \rangle$ remove and protect ice machine and associated filter assembly for reinstallation FOLLOWING CONSTRUCTION COMPLETION. CONTRACTOR TO REMOVE EXISTING CONDENSATE PIPING & PATCH OPENING THROUGH WALL.

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	GRAVEL HILL	
	SIGN SHOP RENOVATION	(
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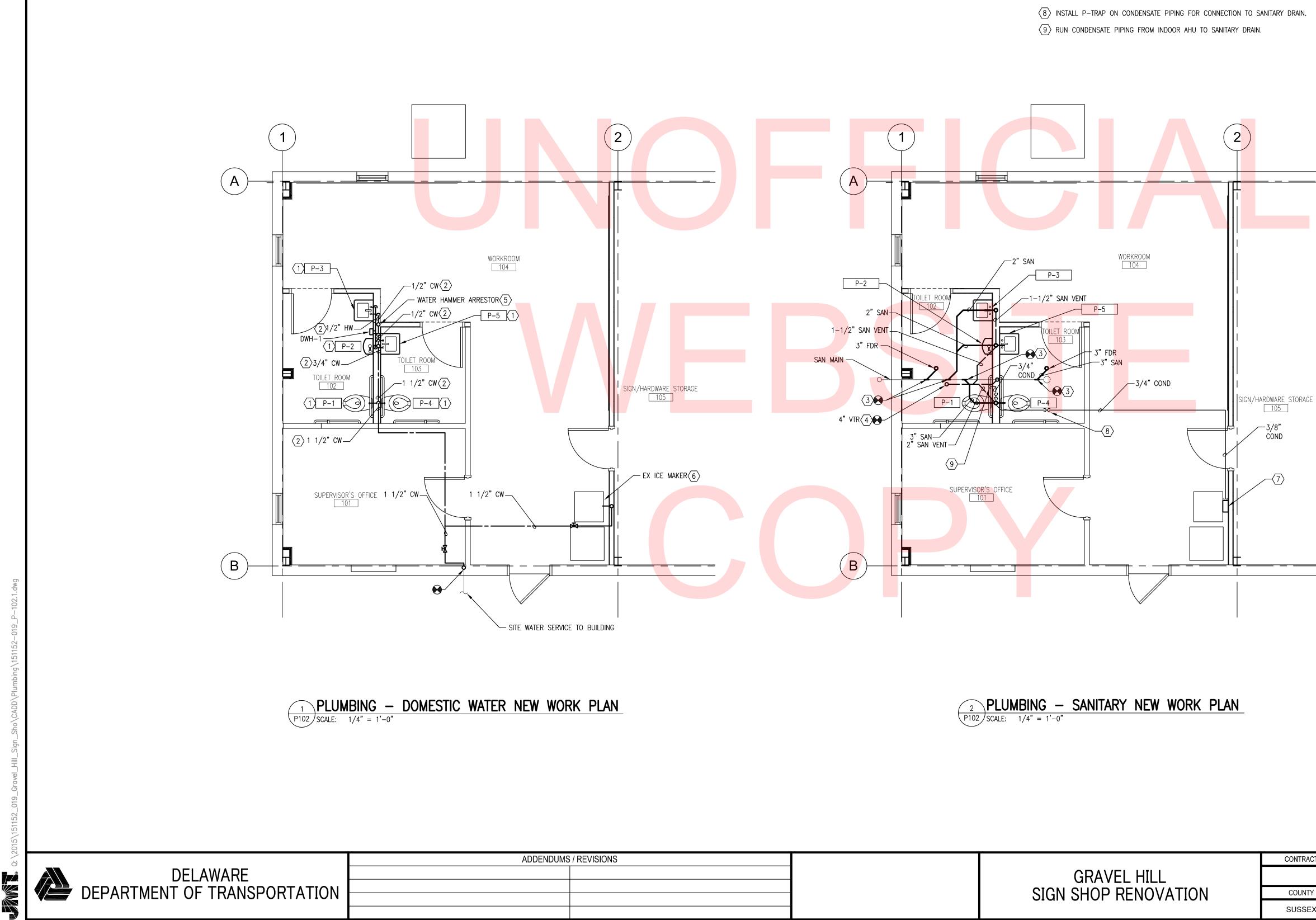
GENERAL SHEET NOTES:

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- 2. DEMOLITION SHALL INCLUDE REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE ANY MECHANICAL AND RELATED ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
- 4. DO NOT LOCATE ABOVE ELECTRICAL PANELS OR EQUIPMENT.



	SHEET NO.
UMBING-DEMOLITION	8
WORK	TOTAL SHTS.
	13

JUNITRACT	BRIDGE NO.	N/A
COUNTY	DESIGNED BY:	DPC
SUSSEX	CHECKED BY:	TGK



SHEET KEYNOTES:

- (1) INSTALL NEW PLUMBING FIXTURES AND ASSOCIATED DOMESTIC WATER PIPING.
- 2 ALL PIPING SHOULD BE LOCATED WITHIN THE WALL STRUCTURE OR ABOVE THE FINISHED CEILING. CONTRACTOR SHALL CONFIRM EXISTING DOMESTIC WATER PIPE SIZES PRIOR TO INSTALLATION OF NEW WORK.
- $\overline{\langle 3 \rangle}$ install new plumbing fixtures and associated sanitary piping. Connect all sanitary BRANCHES TO EXISTING SANITARY MAIN. CONTRACTOR SHALL CONFIRM EXISTING SANITARY PIPE SIZES PRIOR TO INSTALLATION OF NEW WORK.
- $\langle 4 \rangle$ install new vent piping through roof and altar existing roof penetration to fit SPECIFIED VENT PIPE SIZE.
- (5) INSTALL NEW SOUIX CHIEF WATER HAMMER ARRESTOR OR APPROVED EQUAL PER MANUFACTURER INSTRUCTIONS.
- $\langle 6 \rangle$ REINSTALL EXISTING ICE MACHINE WITH ASSOCIATED FILTER ASSEMBLY.
- (7) INSTALL LITTLE GIANT VCMX CONDENSATE PUMP OR APPROVED EQUAL. CONDENSATE SHALL BE PUMPED ABOVE CEILING. HORIZONTAL CONDENSATE PIPING SHALL HAVE A CONTINUOUS 1% SLOPE ON THE HORIZONTAL RUN TOWARD THE SANITARY CONNECTION.

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	SIGN SHOP RENOVATION	

GENERAL SHEET NOTES:

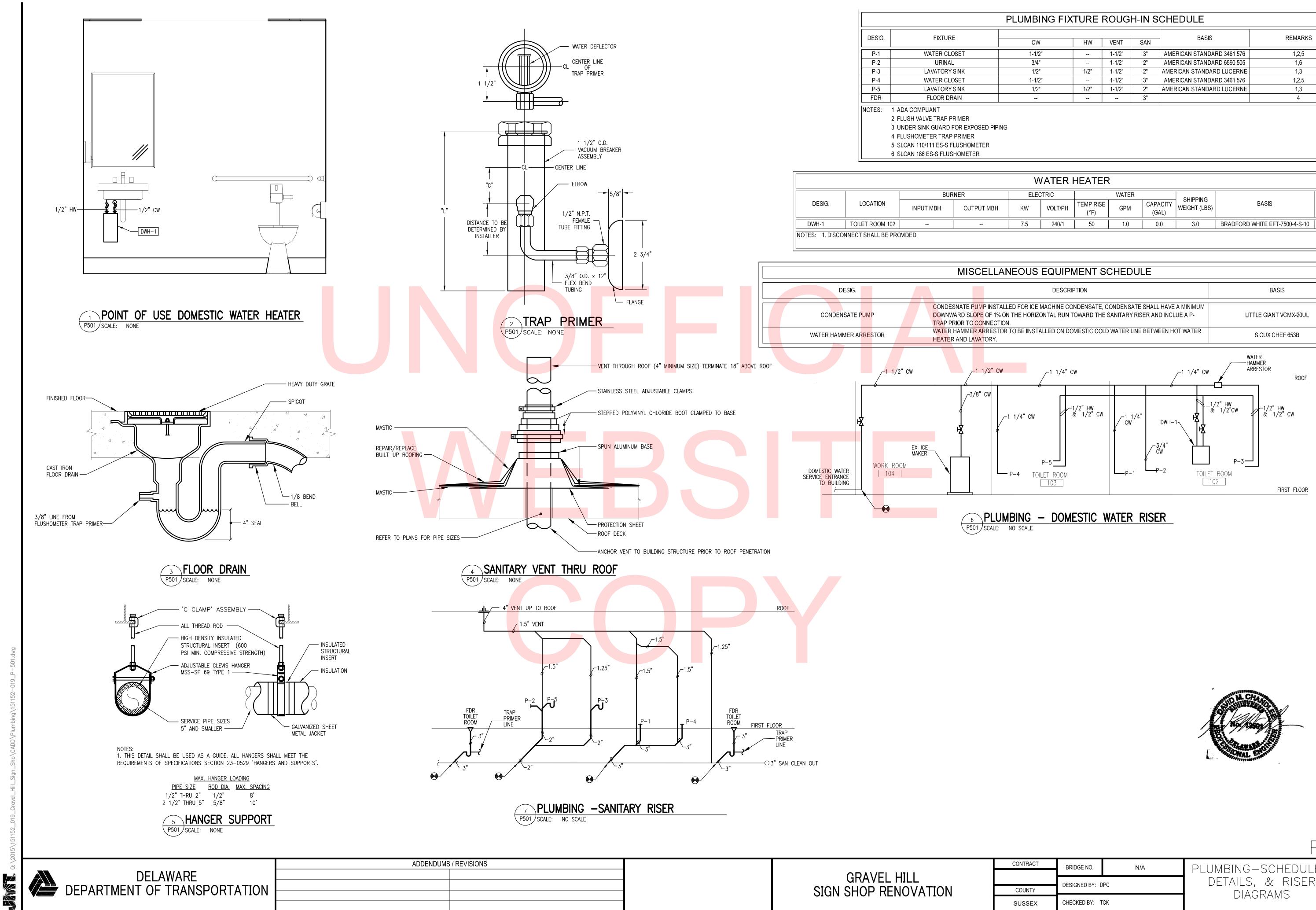
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2. UNLESS OTHERWISE NOTED, PLUMBING ITEMS SHOWN HEAVY SOLID

3. DO NOT LOCATE DUCTWORK OR PIPING ABOVE ELECTRICAL PANELS OR EQUIPMENT.



			P-1	02
CONTRACT	BRIDGE NO. N/A			SHEET NO.
				9
COUNTY	DESIGNED BY:	DPC	PLUMBING-NEW WORK	TOTAL SHTS.
SUSSEX	CHECKED BY: TGK		13	



	GRAVEL HILL	
		_
	SIGN SHOP RENOVATION	

				BASIS	
CW	HW	VENT	SAN	BASIS	REMARKS
1-1/2"		1-1/2"	3"	AMERICAN STANDARD 3461.576	1,2,5
3/4"		1-1/2"	2"	AMERICAN STANDARD 6590.505	1,6
1/2"	1/2"	1-1/2"	2"	AMERICAN STANDARD LUCERNE	1,3
1-1/2"		1-1/2"	3"	AMERICAN STANDARD 3461.576	1,2,5
1/2"	1/2"	1-1/2"	2"	AMERICAN STANDARD LUCERNE	1,3
			3"		4

	V	ATER I	HEATER					
ELECTRIC		WATER			SHIPPING			
	KW	VOLT/PH	TEMP RISE (°F)	GPM	CAPACITY (GAL)	WEIGHT (LBS)	BASIS	NOTES
	7.5	240/1	50	1.0	0.0	3.0	BRADFORD WHITE EFT-7500-4-S-10	1

NEOUS EQUIPMENT SCHEDULE					
DESCRIPTION	BASIS				
LED FOR ICE MACHINE CONDENSATE, CONDENSATE SHALL HAVE A MINIMUM N THE HORIZONTAL RUN TOWARD THE SANITARY RISER AND INCLUE A P- N.	LITTLE GIANT VCMX-20UL				
R TO BE IINSTALLED ON DOMESTIC COLD WATER LINE BETWEEN HOT WATER	SIOUX CHEF 653B				

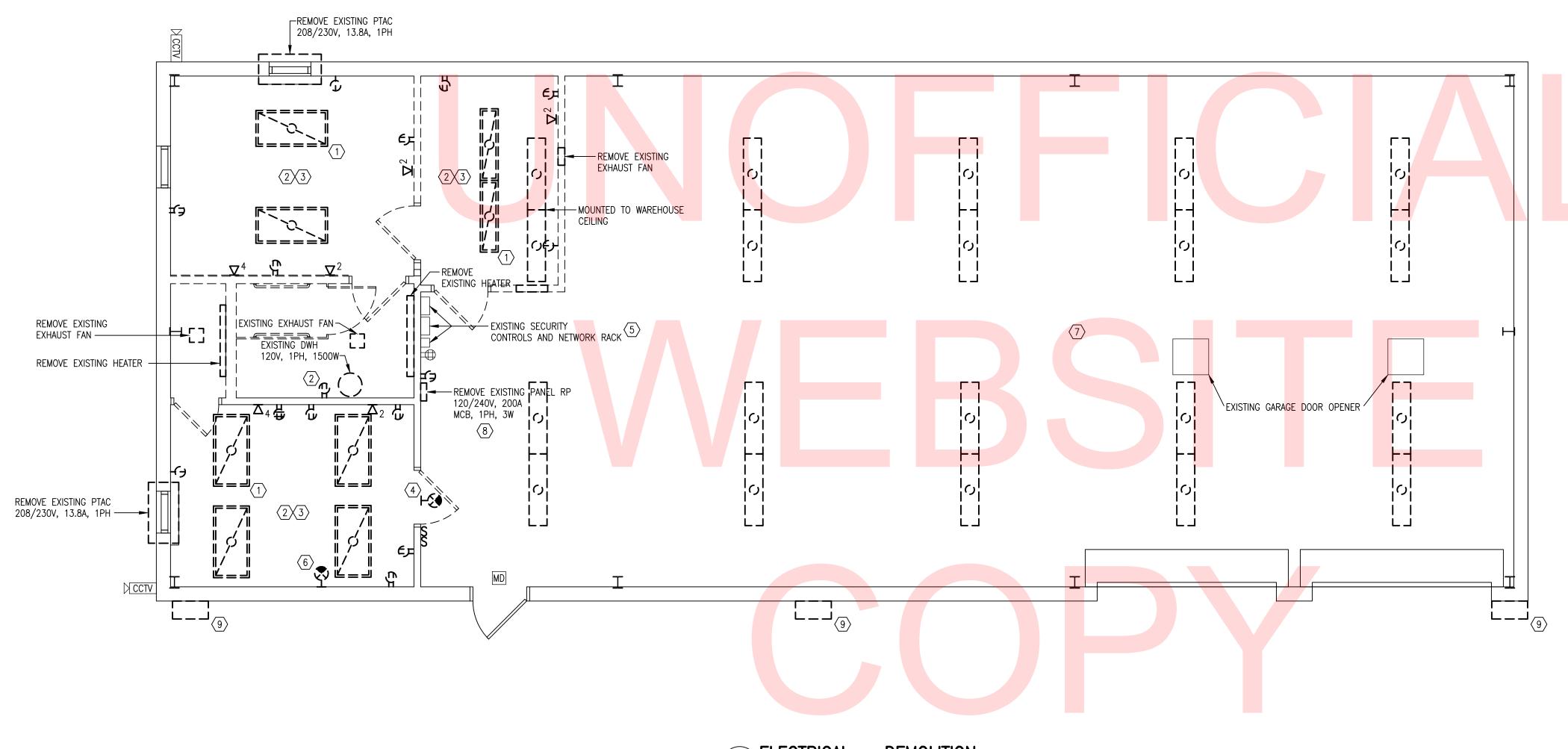
			$P-\xi$	501
CONTRACT	BRIDGE NO.	N/A	PLUMBING-SCHEDULES,	SHEET NO.
-				10
	DESIGNED BY: D	PC	DETAILS, & RISER	
COUNTY	BEORONEB BT. B		DIAGRAMS	TOTAL SHTS.
SUSSEX	CHECKED BY: TGK	DIAGNAMIS	13	

Γ			SYMBOL	LEGEND			GENERAL NOTES CONTINUED			
	SYMBOL	DESCRIPTION	MOUNTING HEIGHT	ELECTRICAL	CONVENTIONS		IE LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND REQUIRE COORDINATION WITH ALL OT F EXISTING CONDITIONS. ROUTING OF CONDUIT IS DIAGRAMMATIC IN NATURE AND NOT INTENDED TO S			
		PANELBOARD, SURFACE MOUNTED	= =	LIGHTING		AN CC	ND DETAILS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING ASSOCIATED DORDINATE THE LOCATION OF ALL EQUIPMENT WITH THE ENGINEER. CONTRACTOR IS RESPONSIBLE FOR ADES' DRAWINGS AND SPECIFICATIONS AND COORDINATING WITH ALL OTHER TRADES DURING BIDDING	EQUIPMENT AND CONDITIONS.		
	a	2' X 4' RECESSED MOUNTED LIGHT FIXTURE	= =	LUMINAIRE TYPE – SEE	LUMINAIRE SCHEDULE	11. MA	AINTAIN CONTINUITY OF ALL POWER, CONTROL, AND COMMUNICATION FUNCTIONS TO ALL AREAS AFFEC W CONSTRUCTION.			
	\mathbf{a}	LED EXIT SIGN — WALL OR CEILING MOUNTED (NUMBER OF FACES AND ARROWS AS INDICATED ON DRAWING)	AS INDICATED			12. CC	W CONSTRUCTION. ONTRACTOR SHALL NOT CUT ANY ACTIVE ELECTRICAL OR COMMUNICATIONS LINES DURING CONSTRUCTION COLDENTALLY CUTS A LINE, THEY SHALL CONTACT THE ENGINEER IMMEDIATELY BEFORE PROCEEDING W			
	φ	125 VOLT, 2 POLE, 3 WIRE, 20 AMP RECEPTACLE "2" DENOTES CIRCUIT NUMBER	CORD. WITH FURNATURE		GNATION H EMERGENCY BATTERY PACK		PAIR AND PATCH ANY DISTURBED AREAS TO MATCH EXISTING CONDITIONS.	THE FORMER WORK.		
	φ	250 VOLT, 2 POLE, 3 WIRE, 20 AMP SIMPLEX RECEPTACLE	CORD. WITH FURNATURE			PR	HERE ELECTRICAL SYSTEMS PASS THROUGH AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, S' ROTECTED TO PREVENT DAMAGE AND THE SYSTEMS RESTORED TO NORMAL OPERATION. ANY OUTAGES DORDINATED WITH THE ENGINEER.			
	P	125 VOLT, 2 POLE, 3 WIRE, 20 AMP DOUBLE DUPLEX	CORD. WITH	GENERAL ABE		15. CC	ONTRACTOR SHALL SUBMIT FOR APPROVAL, SHOP DRAWINGS FOR ALL EQUIPMENT AND MATERIALS USE	ED ON THE PROJECT.		
		RECEPTACLE 125 VOLT, 2 POLE, 3 WIRE, 20 AMP DUPLEX RECEPTACLE	FURNATURE CORD. WITH	A AMPERES ADA AMERICANS WITH DISABILITIES ACT	KVA KILOVOLT AMPER KW KILOWATTS	DR CC	FORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FRO RAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INCLUDE ACTUAL EXISTING CONDITIONS IN DNTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICAT	DETAIL OR DIMENSION. THE		
	Ħ	EQUIPPED WITH INTEGRAL GROUND CURRENT FAULT INTERRUPTER	FURNATURE	ADT SECURITY AFF ABOVE FINISH FLOOR AFG ABOVE FINISH GRADE	LTG LIGHTING LFMC LIQUID TIGHT FL MAU MAKE-UP AIR U	EXIBLE METAL CONDUIT	NY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATE MEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE W	VORK.		
	S _{3,0S}	SWITCH, TOGGLE OS = DENOTES OCCUPANCY SENSOR WALL SWITCH	48"	AHJ AUTHORITY HAVING JURISDICTION AHU AIR HANDLING UNIT	MC METAL CLAD CAN MCB MAIN CIRCUIT BI	BLE 5:(NY WORK THAT MAY POTENTIALLY CAUSE ANY OUTAGE SHALL BE PERFORMED DURING NON PEAK HOU OO AM. ALL EQUIPMENT OUTAGES SHALL BE COORDINATED WITH BUILDING OPERATIONS, DRBA AND T AST 10 DAYS ADVANCE WRITTEN NOTICE FOR ANY EQUIPMENT OUTAGES.			
		"3" DENOTES 3-WAY SWITCH		AIC AMPERE INTERRUPTING CAPACITY AL ALUMINUM	MCC MOTOR CONTROL MCP MOTOR CIRCUIT	PROTECTOR AS	ECTRICAL EQUIPMENT AND DEVICES WITHIN DEMOLITION AREA SHOWN TO BE DEMOLISHED, SHALL BE SOCIATED FEEDER BRANCH CIRCUITS AND CONDUITS, UNLESS OTHERWISE NOTED. WIRING SHALL BE	REMOVED BACK TO SOURCE.		
	OS	CEILING MOUNTED OCCUPANCY SENSOR	= =	ANSI AMERICAN NATIONAL STANDARDS INSTITUTE ARCH ARCHITECT	MISC MISCELLANEOUS MLO MAIN LUGS ONL'		EMOVE ALL CONDUITS ASSOCIATED WITH DEMOLISHED EQUIPMENT EXCEPT CONDUIT CONCEALED IN WAL DNTRACTOR SHALL DISCONNECT, MAKE SAFE, AND REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT AN THIN THIS AREA. THE OWNER SHALL HAVE FIRST RIGHTS TO ALL DEMOLISHED EQUIPMENT AND FIXTU	ND ALL ASSOCIATED CIRCUITRY JRES. UPON THE WRITTEN		
	J	JUNCTION BOXES	= =	ATS AUTOMATIC TRANSFER SWITCH ATC AUTOMATIC TEMPERATURE CONTROL	NC NORMALLY CLOS	RIC CODE	FUSAL, REMOVE ALL DEMOLISHED ITEMS AND DEBRIS FROM THE WORK SITE AND DISPOSE OF PROPE JPPLY CIRCUITS FOR DEMOLISHED AND RELOCATED EQUIPMENT. UPDATE ALL PANELBOARD DIRECTORI RCUIT BREAKER POSITIONS AND SHOW DATE WHEN SPARE WAS CONFIRMED. FIELD VERIFY ALL SUPP DUIPMENT LOCATED IN WORK AREAS.	ES. IDENTIFY ALL SPARE		
				AWG AMERICAN WIRE GAUGE BFG BELOW FINISH GRADE BLDG BUILDING		PROTECTION ASSOCIATION 19. DIS	SCONNECT AND MAKE SAFE ANY EQUIPMENT TO BE REMOVED BY OTHERS (I.E. MOTORS, ETC.). COO	RDINATE REMOVAL OF		
	PP	POWER PACK MOUNTED ABOVE CEILING		C CONDUIT CASS CONTROLLED ACCESS SECURITY SYSTEM	NTS NOT TO SCALE		ANY AREA REQUIRING THE PERFORMANCE OF ANY TRADE'S WORK, CAREFULLY REMOVE AND STORE A			
	⊻	COMBINATION DATA/VOICE OUTLET	CORD. WITH FURNATURE	CAT CATALOG CB CIRCUIT BREAKER	P POLE PB PUSH <mark>BUTT</mark> ON	AF	PATH OF WORK, REINSTALLING AND RECONNECTING SAME AS REQUIRED, IN ACCORDANCE WITH THE TER COMPLETION OF OTHER TRADE'S WORK IN THAT AREA.	,		
	×	"X" DENOTES NUMBER OF RJ-45 JACKS	CORD. WITH FURNATURE	CBM CERTIFIED BALLAST MANUFACTURERS CKT CIRCUIT		EPARTMENT OF TRANSPORTATION	RIOR TO THE START OF DEMOLITION, CONTRACTOR SHALL FIELD VERIFY ALL BRANCH CIRCUITS AND MATTER OUTSIDE OF THE SCOPE OF WORK.			
	S _M	MANUAL MOTOR DISCONNECT	= =	CL CENTERLINE CLF CURRENT LIMITING FUSE COL COLUMN	PVC POLYVINYL CHLC PWR POWER QTY QUANTITY	OF	TER RENOVATING EXISTING ELECTRICAL WORK, THE CONTRACTOR SHALL ENSURE THAT ALL REMAINING PERATE PROPERLY.			
		HOMERUN TO PANELBOARD, ARROWS INDICATE NUMBER OF CIRCUITS, LETTERS INDICATE PANEL DESIGNATION AND	= =	COL COLUMN CPT CONTROL POWER TRANSFORMER CT CURRENT TRANSFORMER		NG/RELOCATED EXISTING	L ELECTRICAL WORK INDICATED TO REMAIN SHALL DE SUTADET PROTECTED TO PREVENT ANT DAMAGE	<u> </u>		
	RPB1-2	NUMBER INDICATE CIRCUIT DESIGNATION		CU COPPER DWG DRAWING	REX REMOVE EXISTIN RMC RIGID METAL CO					
	CCTVK	SECURITY CAMERA	= =	EC ELECTRICAL CONTRACTOR ECB ENCLOSED CIRCUIT BREAKER	RMS ROOT MEAN SQU RNMC RIGID NON-MET/					
	MD	MOTION DETECTOR	= =	EF EXHAUST FAN EM EMERGENCY	RTU ROOF TOP UNIT					
	ل AF/NF/P/3R	NON-FUSED DISCONNECT SWITCH, SIZE AS INDICATED WHERE: "AF" – INDICATES AMPERE SWITCH SIZE	= =	EMT ELECTRICAL METALLIC TUBING EPO EMERGENCY POWER OFF ETR EXISTING TO REMAIN	SW SWITCH SYM SYMMETRICAL TEL TELEPHONE					
		"NF" – DENOTES NON–FUSED "P" – DENOTES POLE "3R" – DENOTES NEMA TYPE ENCLOSURE		EWC ELECTRIC WATER COOLER EX EXISTING		TIC CIRCUIT BREAKER				
		"4X" – DENOTES STAINLESS STEEL ENCLOSURE		F FUSE FA FIRE ALARM	UL UNDERWRITERS V VOLT	ABORATORIES				
ş				FLA FULL LOAD AMPERES FMC FLEXIBLE METAL CONDUIT	VT VOLTAGE TRANSF W WIRE	ORMER				
LEGEND,		ELECTRICAL CONVENTIONS		FT FEET G GROUND OR GROUNDING GRMC GALVANIZED RIGID METALLIC CONDUIT	WH WATER HEATER WP WEATHER PROOF WPS WASHINGTON PR	DFESSIONAL SYSTEMS				
NOTES,	PRESENTATION			HOA HAND, OFF, AUTOMATIC SWITCH IEEE INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS	XFMR TRANSFORMER					
NERAL I	٩	ELECTRICAL EQUIPMENT DESIGNATED BY SOLID HEAV	Y LINE WEIGHT	IMC INTERMEDIATE METAL CONDUIT INT INTERLOCK	✓ WYE Ø PHASE					
01 – GE	٥	ELECTRICAL EQUIPMENT DESIGNATED BY SOLID LIGH INDICATES EXISTING EQUIPMENT TO REMAIN, UNLESS INDICATED.		GENERAL NOTES (APPLICABL	E TO ALL ELECT	RICAL SHEETS)				
al \EG-0	ſ	ELECTRICAL EQUIPMENT DESIGNATED BY DASHED HE		1. PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, COORDIN PROVIDE A COMPLETE AND OPERABLE SYSTEM AS DETAILED O						
\Electric	9	P Sh REPRESENTS EXISTING EQUIPMENT TO BE REMOVED UNLESS INDICATED TO BE REMOUNTED, RELOCATED, OVER TO OWNER.		WORK WITH THE ENGINEER BEFORE THE START OF WORK. 2. ALL WORK SHALL BE PERFORMED BY A QUALIFIED ELECTRICAL DEPUNDENCE AND TYPE UNIT						
Io\CADD	WIRING			PREVIOUSLY PERFORMED WORK OF THIS SIZE AND TYPE UNLE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE. 3. THE CONTRACTOR SHALL THOROUGHLY REVIEW THE DESIGN D						
_Sign_Sh		P2A–1,3,5 HOMERUN TO PANEL "LP2A", CIRCUITS #1,3,5 (VIA	20A–1P C/B'S). PROVIDE	 4. PERFORM WORK AS REQUIRED BY APPLICABLE CODES, REGUL 						
vel_Hill_		INSULATED GROUND CONDUCTOR IN ACCORDANCE W NUMBER OF CIRCUITS INDICATED BY QUANTITY OF A	ITH SPECIFICATIONS.	OTHER AUTHORITIES WITH LAWFUL JURISDICTION. ALL WORK SI ELECTRICAL CODE.						
019_Gra	—	HASH MARKS INDICATE QUANTITY OF #12 AWG COPI IN CONDUIT. WHEN NO HASH MARKS ARE INDICATED CONTAIN (2)#12 WIRES AND (1)#12 GROUND WIRE.	, CONDUIT SHALL	5. MATERIAL AND EQUIPMENT SHALL BE UL, NEMA, ANSI, IEEE, A MATERIAL AND INSTALLATION SHALL MEET REQUIREMENTS OF N	NATIONAL AND STATE ELECTRICAL	CODE.			Martin M. CHA	
151152_1		DIAMETER CONDUIT UNLESS NOTED OTHERWISE. EXA INDICATES 2 HOT, 2 NEUTRAL (LONG LINES), AND 1	MPLE SHOWN AT LEFT	 GIVE NOTICES, FILE PLANS, OBTAIN PERMITS AND LICENSES, F FROM AUTHORITIES THAT HAVE JURISDICTION. IT IS THE CON PERMITS, LICENSES, FEES, BACK CHARGES AND APPROVALS R 	TRACTOR'S RESPONSIBILITY TO D				Contraction of the	V
\$\2015\1		CONCEALED CONDUIT AND/OR WIRING.		7. MAINTAIN RECORD DRAWINGS ON SITE. RECORD SET MUST BE REQUESTED. SUBMIT PROJECT AS BUILTS FOR ALL WORK AT	COMPLETE AND CURRENT AND	AVAILABLE FOR INSPECTION WHEN MIT HARD COPY AND ELECTRONIC			No. 1350	<u> </u>
ıl∖jmtdf≲ dwg	ANNOTATION			FORMAT THAT IS ACCEPTABLE TO DELDOT. 8. COORDINATE ALL ELECTRICAL ITEMS WITH EXISTING FIELD CON MINOR ADJUSTMENT IN THE FIELD TO SATISFY THE DESIGN IN		APPROXIMATE AND MAY REQUIRE			Callen and the	
sorp.loca		(1) SHEET KEYNOTE NUMBER		9. DAMAGE TO EXISTING FACILITIES AND EQUIPMENT SHALL BE RI ADDITIONAL EXPENSE TO THE OWNER.		ELY BY THE CONTRACTOR AT NO			AL ONAL ET ANT	
\\jmt.(ABBRE\				ADDENDUMS / REVISIONS				CONTRACT	E NO. N/A	
		DELAWARE					GRAVEL HILL SIGN SHOP RENOVATION	COUNTY	ED BY: PDC	ELECTRICAL G
Š [D BY: JWL	



AL GENERAL NOTES, ND ABBREVIATIONS

E - 00SHEET NO. 11 TOTAL SHTS. 13







ADDENDUMS / REVISIONS

1 ELECTRICAL – DEMOLITION ED101 SCALE: 1/4" = 1'-0"

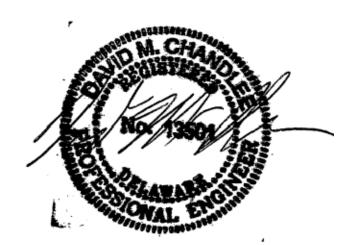
			1.00 C	139719793467435 ⁴	SCALE: 1/4"= 1'-0"	-101
NS		CONTRACT	BRIDGE NO. N/A SHEET NO. DESIGNED BY: PDC ELECTRICAL DEMOLITION PLANS 12 TOTAL SHTS. TOTAL SHTS.			
	GRAVEL HILL					12
		COUNTY	DESIGNED BY: F	PDC	ELECTRICAL DEMOLITION PLANS	12
	SIGN SHOP RENOVATION	SUSSEX	CHECKED BY: JWL			13

GENERAL SHEET NOTES:

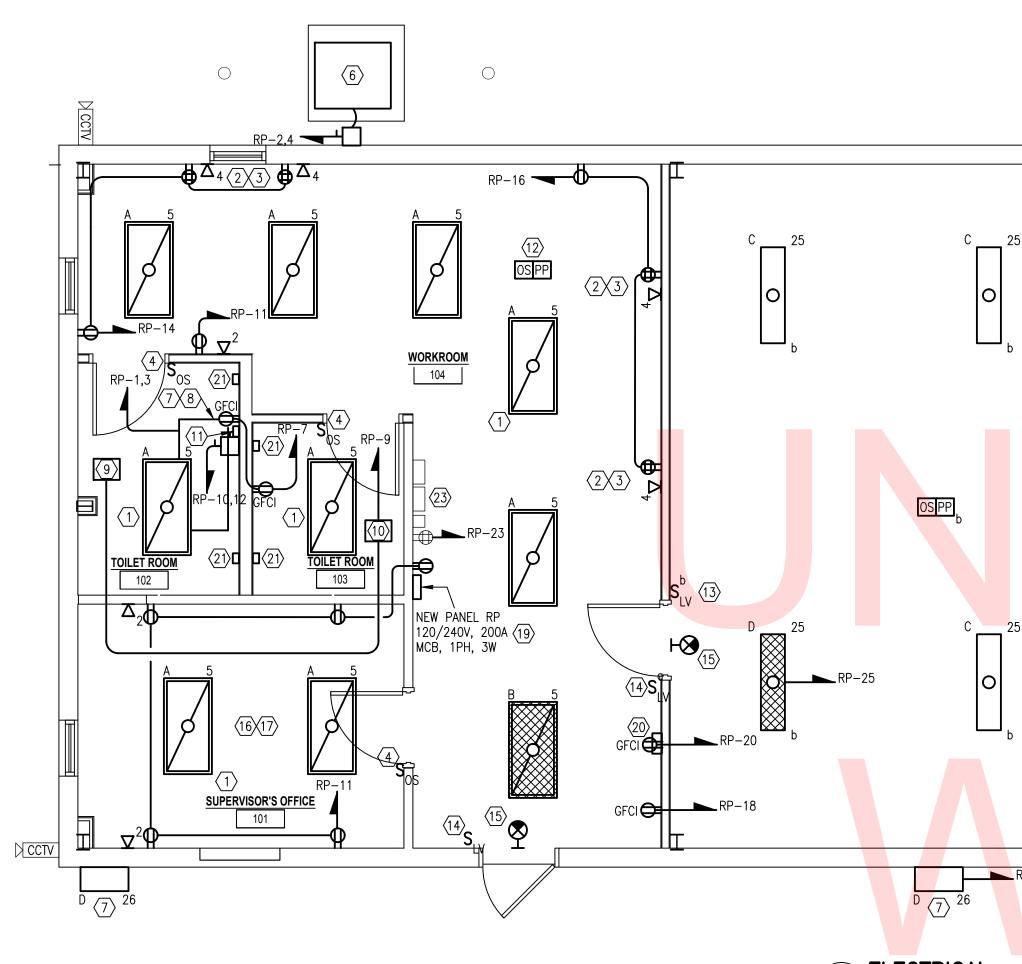
- 1. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAVE BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- FOR ALL MECHANICAL EQUIPMENT, DISCONNECT AND REMOVE ASSOCIATED STARTER/DISCONNECT SWITCH, JUNCTION BOXES, WIRING AND CONDUIT. REMOVE WIRING AND CONDUIT BACK TO SOURCE.

SHEET KEYNOTES:

- (1) REMOVE EXISTING LIGHTING FIXTURES, CONDUIT, WIRE, AND CONTROLS BACK TO SOURCE.
- $\langle 2 \rangle$ REMOVE EXISTING RECEPTACLES IN THIS SPACE AND ASSOCIATED WIREMOLD, CONDUIT AND WIRING BACK TO SOURCE.
- 3 REMOVE EXISTING DATA RECEPTACLES IN THIS AREA, AND ASSOCIATED WIREMOLD, CONDUIT, AND WIRING BACK TO SOURCE.
- (4) REMOVE BOTH SIDES OF EXISTING EXIT SIGN AND ALL ASSOCIATED CONDUIT AND WIRING.
- 5 EXISTING IT EQUIPMENT SHALL BE LEFT UNDISTURBED TO THE GREATEST EXTENT POSSIBLE AND SHALL REMAIN IN PLACE TO BE ABOVE NEW DROP CEILING. MAINTAIN EXISTING CIRCUITS AND DATA CONNECTIONS FOR ALL IT EQUIPMENT AND CAMERAS.
- $\overleftarrow{6}$ remove existing exit sign and associated conduit and wire back to source or next device.
- 7 REMOVE ALL EXISTING LIGHTING FIXTURES, CONTROLS, CONDUIT AND WIRE IN THIS AREA.
- 8 REMOVE EXISTING PANELBOARD RP AND ASSOCIATED CONVENIENCE RECEPTACLE. MAINTAIN EXISTING CONDUIT AND FEEDER FOR RECONNECTION TO NEW PANEL. SEE SHEET EP-101 FOR MORE INFORMATION.
- (9) REMOVE ALL EXISTING WALL PACK FIXTURES ON BUILDING PERIMETER. REMOVE ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE.







1 **ELECTRICAL** -EP101 SCALE: 1/4" = 1'-0"

PANEL: RP								PHASE:	1	3 WIRE + GND
MOUNTING: SURFACE			MAIN:	2	00	Μ			-	AMPS RMS SYM
Branch Circuit	KVAI	_oad	Trip	Ckt.		Ckt.	Trip	KVA	Load	Branch Circuit
Load Description	A	В	Poles	No.	Phase	No.	Poles	A	В	Load Description
3-TON AHU /W ELEC HEAT	9.00		100/2	1	A	2	35/2	2.00		OUTDOOR CONDENSING UNIT
**		9.00	**	3	B	4	**		2.00	**
LIGHTING	0.40		20/1	5	A	6	20/1	0.00		SPARE
BATHROOM RECEP		0.36	20/1	7	B		20/1		0.00	SPARE
EF1, EF2	0.25		15/1	9	Α	10	40/2	3.85		WATER HEATER
PRINTER		0.40	20/1	11	B		**		3.85	**
SUPERVISOR RECEP	0.72		20/1		A	14	20/1	0.90		DESK RECEP 1
GARAGE DOOR OPENER 1		0.70	20/1	15	B		20/1		0.90	DESK RECEP 2
GARAGE DOOR OPENER 2	0.70		20/1		Α	18	20/1	0.60		FRIDGE RECEP
FAUCETS AND FLUSH VALVES		0.17	20/1	19	B	20	20/1		0.40	ICE + COND. PUMP RECEP
PANEL RECEP	0.18		20/1		Α	22	20/1	0.36		STORAGE RECEPS
EXIST. RECEP		0.18	20/1	23	B		20/1		0.00	SPARE
STORAGE ROOM LIGHTS	0.40		20/1		Α	26	20/1	0.20		EXTERIOR WALL PACK LIGHTS
SPARE		0.00	20/1	27	B		20/1		0.00	SPARE
SPARE	0.00		20/1	29	Α	30	20/1	0.00		SPARE
	,							-		
	11.65	10.81	<<	PHAS	SE SUB-TO	DTALS	>>	7.91	7.15	1
										SHALL BE HACR RATED
										PROVIDE THE FOLLOWING:
	1									
PHASE A 19.56	-				7					
PHASE B 17.96	kVA		3	7.52	kVA TO	TAL CO	NNECT	ED LOAE)	
			32	2.56	kVA TO	TAL DE	imand l	OAD		
			L							

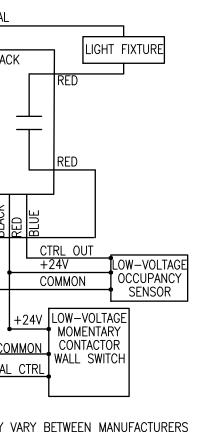
DELAWARE

DEPARTMENT OF TRANSPORTATION

					NEUTRAL LINE	WHITE POWER PACK
	C 25	C 25 O b				DLORS AND CIRCUITING MAY VARY CAL LOW-VOLTAG NONE
	∑ 25 25 b	C 25	D = 25	(18) S _M RP-17 C 25 O	SYN	AS, 8-PIN MODULAR JACK (4) C (4) C (2) DATA MBOL: 2 IONS DATA OUTLET /DATA OUTLET CONE
RP-26						

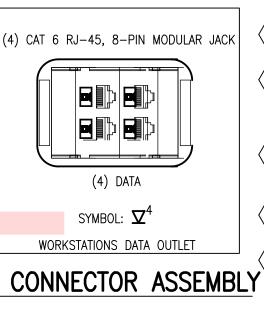
		LIGHTING FIXTURE SCH	EDULE				
FIXTURE TYPE	DESCRIPTION	BASIS OF DESIGN MANUFACTURER & CATALOG NUMBER	ALT. MANUFACTURER & CATALOG NUMBER	LAMPS			
TTPE				TYPE	COLOR TEMPERATURE	VOLTAGE	LUMENS
A	2' x 4' RECESSED MOUNTED, VOLUMETRIC LED, TROFFER; ACRYLIC LINEAR PRISMATIC DIFFUSER; WHITE FINISH; 4000 LUMENS	LITHONIA LIGHTING 2BLT4-40L-ADP-120-EZ1-LP840	COLUMBIA LIGHTING LCAT24-40VLG-ED1U PHILIPS DAY-BRITE 2EVG74L840-4-D-UNV-DIM	34W LED	4000K	120V	4000 MIN.
В	2' x 4' RECESSED MOUNTED, VOLUMETRIC LED, TROFFER; ACRYLIC LINEAR PRISMATIC DIFFUSER; WHITE FINISH; 6000 LUMENS; EMERGENCY BATTERY PACK	LITHONIA LIGHTING 2BLT4-60L-ADP-120-EZ1-LP840-EL14L	COLUMBIA LIGHTING LCAT24-40HLG-ED1U PHILIPS DAY-BRITE 2EVG54L840-4-D-UNV-DIM	53W LED	4000K	120V	6000 MIN.
С	1' x 4' SURFACE MOUNTED, LINEAR LOW–BAY FIXTURE; ACRYLIC LOUVERED PRISMATIC DIFFUSER; WHITE FINISH; 4000 LUMENS	LITHONIA LIGHTING MSL-4000-SBL-MVOLT-GZ10-40K-80CRI-CS93W-WH	COLUMBIA LIGHTING LRO-4-40-LW-E-U	30W LED	4000K	120V	4000 MIN.
D	1' x 4' SURFACE MOUNTED, LINEAR LOW-BAY FIXTURE; ACRYLIC LOUVERED PRISMATIC DIFFUSER; WHITE FINISH; 4000 LUMENS; EMERGENCY BATTERY PACK	LITHONIA LIGHTING MSL-4000-SBL-MVOLT-GZ10-40K-80CRI-CS93W-WH- E10WLCP	COLUMBIA LIGHTING LRO-4-40-LW-E-U-ELL14	30W LED	4000K	120V	4000 MIN.
E	SURFACE MOUNTED WALL PACK LED; ACRYLIC LINEAR PRISMATIC DIFFUSER; BLACK FINISH; PHOTO CELL ADJUSTABLE 1000 TO 5000 LUMENS	LITHONIA LIGHTING TWP-LED-ALO-40K-T3M-MVOLT-PE-DBLXD	COLUMBIA LIGHTING PVL3-180L-3K-U-BL-PTB-1	48W LED	4000K	120V	4000 MIN.
Å	LED EMERGENCY EXIT SIGN; FACE LIT, ACRYLIC PANEL; THERMOPLASTIC HOUSING; RED LETTERS; FACES AND ARROWS AS INDICATED ON DRAWINGS	LITHONIA LIGHTING LQM-S-W-3-R-120/277-GMR-120/277	DUAL LITE EVE-U-R-W PHILIPS CXL-3-R-W	3W LED	RED LED	120V	N/A

		CC
	GRAVEL HILL	
	SIGN SHOP RENOVATION	C
		S



NEUTRAL

TAGE WIRING DIAGRAM



GENERAL SHEET NOTES:

- 1. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- 2. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY SOLID (______) SHALL BE NEW, AND ELECTRICAL ITEMS SHOWN LIGHT SOLID (______) SHALL BE EXISTING TO REMAIN.
- 3. CONTRACTOR SHALL FIELD VERIFY EXISTING CIRCUITS AND MAINTAIN NECESSARY CONNECTIONS.

SHEET KEYNOTES:

- 1 PROVIDE NEW 2'X4' RECESSED LED FIXTURE. SPACE FIXTURES EQUALLY APART IN NEW CEILING GRID. FIXTURES SHALL BE CONTROLLED BY LOCAL SWITCHES AND SENSORS. PROVIDE 2#12 AWG AND 1#12 AWG GROUND IN 3/4" EMT CONDUIT. CIRCUIT FIXTURES TOGETHER TO 20A BREAKER IN PANEL RP.
- (2) PROVIDE NEW 20A DOUBLE DUPLEX RECEPTACLES MOUNTED ABOVE DESKS IN THIS AREA AS SHOWN IN DRAWING. RECEPTACLES SHALL BE INSTALLED BETWEEN DESKS. PROVIDE 2#12 AWG AND 1#12 AWG IN 3/4" EMT CONDUIT AND CIRCUIT TO 20A BREAKER IN PANEL RP.
- 3 PROVIDE NEW 4-PORT ETHERNET DATA RECEPTACLES MOUNTED ABOVE DEKS AND CAT6 CABLE IN THIS AREA AS SHOWN IN DRAWING. RECEPTACLES SHALL BE INSTALLED BETWEEN DESKS. ROUTE DATA CABLE TO NEAREST IT DATA RACK. CABLE SHALL BE IN ACCORDANCE WITH DELAWARE DEPARTMENT OF TECHNOLOGY AND INFORMATION STANDARDS ON CABLING AND INSTALLATION.
- 4 PROVIDE NEW SWITCH WITH BUILT-IN OCCUPANCY SENSOR. PROVIDE REQUIRED WIRING TO CONTROL FIXTURES AND EXHAUST FAN IN THIS SPACE.
- (5) MAINTAIN ANY EXISTING RECEPTACLE CIRCUITS IN THIS AREA. COMBINE AND EXTEND CIRCUITS TO NEW BREAKERS IN PANEL RP AS NECESSARY.
- 6 OUTDOOR CONDENSING UNIT HP-1B. 208/230V, 1PH, 30.8 MCA. PROVIDE 60A/NF/2P/NEMA 3R DISCONNECT. PROVIDE 2#10 AND 1#10 GROUND IN OUTDOOR PVC COATED LIQUID TIGHT FLEXIBLE METAL CONDUIT TO DISCONNECT ON WALL, TRANSITIONING WITH PROPER FITTINGS TO 3/4" EMT CONDUIT INDOORS. PROVIDE 35A, 2P BREAKER IN PANEL RP.
- 7 PROVIDE NEW LED WALL PACK LIGHT FIXTURES ALONG PERIMETER OF BUILDING. PROVIDE 2#12 AND 1#12 GROUND IN 3/4" EMT CONDUIT TO ALL FIXTURES BACK TO NEW 20A BREAKER IN PANEL RP.
- (8) ELECTRIC HEAT HP-1A. 208/230V, 1PH, 92.5A MCA. PROVIDE 2#3 AND 1#8 GROUND IN 1" EMT CONDUIT. PROVIDE 125A, 2P BREAKER IN PANEL RP.
- 9 EXHAUST FAN EF-1. 115V, 1PH, 1.10 FLA. INTEGRAL STARTER AND DISCONNECT PROVIDED WITH MECHANICAL EQUIPMENT UNDER DIVISION 23. PROVIDE 2#12 AND 1#12 GROUND IN 3/4" EMT CONDUIT. PROVIDE 15A, 1P BREAKER IN PANEL RP. PROVIDE REQUIRED WIRING TO OPERATE WITH SWITCH IN THIS SPACE.
- (10) EXHAUST FAN EF-2. 115V, 1PH, 1.10 FLA. INTEGRAL STARTER AND DISCONNECT PROVIDED WITH MECHANICAL EQUIPMENT UNDER DIVISION 23. PROVIDE 2#12 AND 1#12 GROUND IN 3/4" EMT CONDUIT. CIRCUIT TO 15A, 1P BREAKER IN PANEL RP WITH EF-1. PROVIDE REQUIRED WIRING TO OPERATE WITH SWITCH IN THIS SPACE.
- (11) DOMESTIC WATER HEATER DWH-1. 240V, 1PH, 3.5KW. PROVIDE 2#8 AND 1#10 GROUND IN 3/4" EMT CONDUIT. PROVIDE 60A/NF/2P/NEMA 1 DISCONNECT. PROVIDE 40A, 2P BREAKER IN PANEL RP.
- $\langle\!12\rangle$ provide ceiling mounted occupancy sensor and powerpack. Sensor shall control fixtures in the space.
- (13) PROVIDE WALL MOUNTED LOW-VOLTAGE SWITCH TO CONTROL FIXTURES IN STORAGE SPACE. SEE WIRING DIAGRAM 3 ON THIS PAGE FOR MORE INFORMATION.
- 14 PROVIDE LOW VOLTAGE MOMENTARY CONTACT SWITCH TO ACT AS TEMPORARY OVERRIDE OF OCCUPANCY SENSOR FOR CONTROL OF FIXTURES IN WORKROOM. SWITCHES SHALL WORK TOGETHER WITH OCCUPANCY SENSOR AS NECESSARY FOR A COMPLETE LIGHTING CONTROL SYSTEM. SEE DETAIL 3 ON THIS SHEET AND MANUFACTURERS SPECIFICATIONS FOR MORE INFORMATION.
- (15) PROVIDE NEW EXIT SIGN AND CONNECT AHEAD OF SWITCH TO LIGHTING CIRCUIT 5.
- (16) PROVIDE NEW 2-PORT ETHERNET DATA RECEPTACLES AND CABLING. ROUTE CABLE TO NEAREST DATA RACK. CABLE SHALL BE IN ACCORDANCE WITH DELAWARE DEPARTMENT OF TECHNOLOGY AND INFORMATION STANDARDS ON CABLING AND INSTALLATION.
- $\langle 17 \rangle$ provide New Duplex receptacles spaced equally along office walls.
- (18) EXISTING GARAGE DOOR OPENER. 120V, 1/2HP. GARAGE DOOR OPENERS SHALL BOTH BE HARDWIRED TO A SINGLE 20A BREAKER IN PANEL RP. PROVIDE 2#12 AND 1#12 GROUND PER OPENER IN 3/4" EMT CONDUIT. PROVIDE DISCONNECT FOR EACH OPENER.
- (19) PROVIDE NEW 120/240V, 200A, 1PH, 3W, 30-POLE RECESSED PANELBOARD WITH 200A MAIN CIRCUIT BREAKER. ALL CONDUIT SHALL BE RECESSED BEHIND NEW GYPSUM WALL BOARD. PROVIDE NEW 20A DUPLEX CONVENIENCE RECEPTACLE.
- (20) NEW CONDENSATE PUMP SHALL BE POWERED BY GFCI RECEPTACLE.
- (21) PROVIDE 2#12 AND 1#12 GROUND IN 3/4" CONDUIT TO POWER ALL FLUSH VALVE AND FAUCET TRANSFORMERS ON A SINGLE 120V CIRCUIT. PROVIDE 4"x4"x2-1/2" 2-GANG BOXES AS REQUIRED FOR CONNECTION TO ALL TRANSFORMERS, SENSORS, AND SOLENOIDS. COORDINATE LOCATION OF DEVICES WITH PLUMBING DRAWINGS.
- 22 PROVIDE NEW LED LIGHT FIXTURES IN THIS AREA MOUNTED TO EXISTING I-BEAMS. PROVIDE 2#12 AND 1#12 GROUND IN 3/4" CONDUIT. PROVIDE JUNCTION BOXES AND WHIPS TO FIXTURES AS NECESSARY. FIXTURES SHALL BE CONTROLLED BY NEW CEILING MOUNTED OCCUPANCY SENSORS AND WALL MOUNTED LOW-VOLTAGE SWITCH. SEE WIRING DIAGRAM 3 ON THIS PAGE FOR MORE INFORMATION. CIRCUIT TO NEW 20A BREAKER IN PANEL RP.
- 23 EXISTING IT EQUIPMENT. MAINTAIN ALL POWER AND DATA CONNECTIONS. RECONNECT POWER TO NEW PANEL AND RECEPTACLES AS NECESSARY.

2' 0

2'4'



		Stan ONAL ETAN	SCALE: ½"= 1'-0"	-101
CONTRACT	BRIDGE NO.	N/A		SHEET NO.
				13
COUNTY	DESIGNED BY: PDC		ELECTRICAL NEW WORK PLANS	TOTAL SHTS.
SUSSEX	CHECKED BY:	JWL		13