TIPP CITY GOVERNMENT BUILDING INFILL

280 SOUTH GARBER DRIVE, TIPP CITY, OHIO 45371

BID DOCUMENTS



VTED ON: 2/6/2023 11:21:44 AM

02/02/2023





ARCHITECTS

MECHANICAL, ELECTRICAL & PLUMBING ENGINEERS

LANDSCAPE ARCHITECTS

TECHNOLOGY DESIGNERS

INTERIOR DESIGNERS



38 SOUTH LINCOLN DRIVE PO BOX 71 MINSTER, OHIO 45865 419.628.4240

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555 METRO PLACE NORTH SUITE 320 DUBLIN, OHIO 43017 614.502.4240 2 WEST MAIN STREET CARMEL, INDIANA 46032 317.343.9343







OCCUPANCY TABULATION PER 2017 OBC TABLE 1004.1.2 - L1					
ROOM	NAME	AREA (GROSS)	AREA (NET)	OCCUPANT LOAD FACTOR	OCCUPANT(S)
A101	CORRIDOR	456 SF	456 SF	0	
A102	STORAGE	860 SF	860 SF	300	3
A103	RESTROOM	54 SF	54 SF	0	
A104	SERVER ROOM	506 SF	506 SF	300	2
A105	IT OFFICE	432 SF	432 SF	100	5
A106	CORRIDOR	79 SF	79 SF	0	
A107	OFFICE	161 SF	161 SF	100	2
A108	OFFICE	166 SF	166 SF	100	2
A201	STORAGE	884 SF	884 SF	300	3
					17

CODE PLAN LEGEND

X - OCCUPANT LOAD THROUGH EXIT

 🛥 CLEAR EXIT WIDTH XXX ALLOWABLE NUMBER OF OCCUPANTS THROUGH EXIT

OCCUPANCY GROUPS USED

- A ASSEMBLY
- B BUSINESS I INSTITUTIONAL

N

- S STORAGE
- 1 HOUR FIRE BARRIER (1FB) 2 HOUR FIRE BARRIER (2FB)



(1.	51	C
	1.	51	C

UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. CHOICE ONE ENGINEERING MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN-SERVICE OR ABANDONED. CHOICE ONE ENGINEERING FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH CHOICE ONE ENGINEERING DID LOCATE AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. CHOICE ONE ENGINEERING HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

THIS SURVEY WAS COMPLETED WITHOUT A FULL TITLE SEARCH. EASEMENTS SHOWN WERE FOUND IN OUR RESEARCH OF THE PROPERTY, BUT CHOICE ONE ENGINEERING MAKES NO GUARANTEE ALL EASEMENTS ON THE PROPERTY ARE SHOWN.

LEGEND

—985—	EXISTING CONTOURS		
O I.P.F.	IRON PIN FOUND	CB	EXISTING ROUND CATCH BASIN
Å. ∕å.	TRAVERSE POINT	[CB]	EXISTING CATCH BASIN
*** ** **	CONIFEROUS SHRUBS SIZE ON DRAWING	DS	EXISTING DOWN SPOUT
$\left\{ \begin{array}{c} \\ \\ \\ \end{array} \right\}$	DECIDUOUS TREE SIZE ON DRAWING	(\bigcirc)	EXISTING STORM MANHOLE
	CONIFEROUS TREE SIZE ON DRAWING	G	EXISTING STORM EXISTING GAS LINE
∑ ∑	EXISTING FLAG POLE	۲G ف	EXISTING GAS MARKER FXISTING GAS VALVE
Þ	EXISTING UTILITY POLE	GR	EXISTING GAS REGULATOR
É	EXISTING LIGHT POLE	(C)	EXISTING GAS METER
Ā	EXISTING TELEPHONE POLE	۲	EXISTING FILL PORT
C	EXISTING GUY ANCHOR	ЧŢ	EXISTING TELEPHONE MARKER
——— E ———	EXISTING UNDERGROUND ELECTRIC LINE	Ē	EXISTING TELEPHONE RISER
0.H.U	EXISTING OVER HEAD UTILITY	T	EXISTING UNDERGROUND TELEPHONE
•	EXISTING ELECTRICAL OUTLET		EXISTING CABLE RISER
冠	EXISTING PULL BOX	ЧC	EXISTING CABLE MARKER
E	ELECTRICAL RISER	F	EXISTING 1-POST SIGN
(E)	EXISTING ELECTRICAL MANHOLE	F	EXISTING 2-POST SIGN
Ē	EXISTING ELECTRICAL METER	C R	EXISTING POST
1	EXISTING ELECTRIC TRANSFORMER	G.	EXISTING HANDICAP SYMBOL
¥,	EXISTING FIRE HYDRANT	↓ Æ	FXISTING FLOOD LIGHT
(W)	EXISTING WATER VALVE	\cap	
W	-EXISTING WATER MAIN		EXISTING WALL
(@)	EXISTING CLEANOUT	— 0.H.T —	EXISTING OVERHEAD TELEPHONE
(SA)	EXISTING SANITARY MANHOLE	— 0.H.E —	EXISTING OVERHEAD ELECTRIC
	EXISTING SANITARY	—1025 —	INDEX CONTOUR
	EXISTING MONITORING WELL		INTERMEDIATE CONTOUR
OWELL	EXISTING WELL	XX	EXISTING FENCE
(\mathbf{W})	EXISTING WATER MANHOLE	~~~~~	BRUSH LINE
8	EXISTING WATER INDICATOR POST VALVE		



ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON NAVD 88 (ODOT VRS GEOID 18).

GENERAL NOTES AND DETAILS

ALL CONSTRUCTION METHODS, MATERIALS, AND SPECIFICATIONS SHALL COMPLY WITH THE LATEST VERSION OF THE CITY OF TIPP CITY STANDARDS, DRAWINGS AND SPECIFICATIONS AND/OR THE LATEST VERSION OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION STANDARDS AND SPECIFICATIONS (INCLUDING CURRENT SUPPLEMENTAL SPECIFICATION 800), WHICHEVER IS MORE RESTRICTIVE AS DETERMINED BY THE CITY.

UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC. EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION ACCORDING TO THE BEST AVAILABLE DATA. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING THEM IN THE FIELD PRIOR TO CONSTRUCTION AND WILL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THEM. CONTRACTOR TO CONTACT OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 48 HOURS PRIOR TO CONSTRUCTION.

NON-MEMBERS MUST BE CALLED DIRECTLY.

UTILITY OWNERSHIP

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

TELEPHONE

CABLE

3691 TURN RD.

937-3966-8611

541-390-3910

DAYTON, OH 45415

ATTN: MARY EVANS

CHARTER COMMUNICATION

FRONTIER COMMUNICATION

ATTN: CHARLES BERNACCHI

10 MULBERRY STREET

CENTERPOINT ENERGY

CENTERVILLE, OH 45459

6500 CLYO ROAD

937-312-2565

BROOKVILLE, OH 45309

STREETS AND STORM SEWER CITY OF TIPP CITY 260 S. GARBER ST. TIPP CITY, OH 45371

937-667-6305 ATTN: ERIC MACK

WATER AND SANITARY

CITY OF TIPP CITY 260 S. GARBER ST. TIPP CITY, OH 45371 937-667-6305 ATTN: ERIC MACK

ELECTRIC

CITY OF TIPP CITY 301 NORTH SIXTH ST TIPP CITY, OH 45371 937-667-0519 ATTN: JERRY GEE

OHIO UTILITIES PROTECTION SERVICE 2 WORKING DAYS BEFORE YOU DIG CALL TOLL FREE 800-362-2764

UTILITY INTERFERENCE

IF. DURING THE CONSTRUCTION, INTERFERENCE ARISES WITH EXISTING UTILITIES IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY AND COORDINATE AS NEEDED WITH THE UTILITY COMPANY INVOLVED. ANY AND ALL WORK REQUIRED FOR PRIVATE UTILITIES SHALL BE COORDINATED WITH AND, IF REQUIRED, DONE BY THEIR RESPECTIVE OWNERS. UNLESS OTHERWISE NOTED ON THESE PLANS. THE CONTRACTOR SHALL NOTIFY. AT LEAST 7 DAYS BEFORE BREAKING GROUND, ALL PUBLIC SERVICE CORPORATIONS HAVING WIRES, POLES, PIPES, CONDUITS, MANHOLES, OR OTHER STRUCTURES THAT MAY BE AFFECTED BY THIS OPERATION, INCLUDING ALL STRUCTURES WHICH ARE AFFECTED AND NOT SHOWN ON THESE PLANS.

EXISTING TILE HOOKUPS

THE DRAINAGE TILE CURRENTLY CONNECTED TO THE EXISTING STORM SEWER SHALL BE CONNECTED TO THE PROPOSED STORM SEWER. ANY DRAINAGE TILE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR TO A CONDITION EQUAL TO OR BETTER THAN ITS ORIGINAL CONDITION. ALL TILE REMOVED, REPLACED AND/OR CONNECTED TO THE STORM SEWER SHALL BE NOTED ON THE RECORD DRAWINGS AND SHALL BE INSPECTED BY THE OWNER'S REPRESENTATIVE/CITY OF TIPP CITY BEFORE THEY ARE COVERED.

ALL FIELD OR STORM DRAINS WHICH ARE ENCOUNTERED DURING CONSTRUCTION SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS OR PLUGGED AS APPROVED AND DIRECTED BY THE OWNER'S REPRESENTATIVE/CITY OF TIPP CITY. CONNECTION OF INTERSECTING DRAIN TILES AND THE PROPOSED STORM SEWER SHALL BE THROUGH MANUFACTURED TEES, UNLESS OTHERWISE APPROVED BY THE OWNER'S REPRESENTATIVE/CITY OF TIPP CITY. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTORS OVERALL LUMP SUM BID FOR THE PROJECT.

GEOTECHNICAL ENGINEERING REPORT

CONTRACTOR SHALL REVIEW THE GEOTECHNICAL REPORT FOR THE PROPOSED PROJECT AND PERFORM ALL GEOTECHNICAL WORK IN ACCORDANCE WITH THIS REPORT.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO. OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT. OR EXISTING APPURTENANCE TO BE CONNECTED. DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, OWNER'S REPRESENTATIVE/CITY OF TIPP CITY SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT THE EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN. OWNER'S REPRESENTATIVE/CITY OF TIPP CITY SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTORS OVERALL LUMP SUM BID FOR THE PROJECT.

MUD

THE TRACKING OR SPILLAGE OF MUD. DIRT. OR DEBRIS UPON PUBLIC STREETS IS PROHIBITED AND ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR.

EXISTING UTILITY CONFLICT NOTE

IF A CONFLICT ARISES WITH EXISTING UTILITIES, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE AND APPROPRIATE UTILITY COMPANY TO GET THE CONFLICT RESOLVED.

UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. CHOICE ONE ENGINEERING CORPORATION MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN-SERVICE OR ABANDONED. CHOICE ONE ENGINEERING CORPORATION FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. CHOICE ONE ENGINEERING CORPORATION HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

CAD FILE DISCLAIMER

THE CAD FILE ASSOCIATED WITH THESE CONSTRUCTION PLANS IS A NON-CERTIFIED DOCUMENT. ANY USE OF THE INFORMATION OBTAINED OR DERIVED FROM THE ASSOCIATED CAD FILE WILL BE AT THE RECEIVING PARTY/USER'S RISK. CHOICE ONE ENGINEERING CORP. OFFERS NO WARRANTY AS TO THE ACCURACY OF THE INFORMATION IN THE CAD FILE OR THAT REVISIONS HAVE BEEN ISSUED AFTER THE CAD DRAWING WAS RELEASED. RECEIVING PARTIES/USERS SHALL HOLD HARMLESS TO THE MAXIMUM EXTENT ALLOWED BY LAW CHOICE ONE ENGINEERING CORP. FROM ANY USE OF THE CAD FILE BY THE RECEIVING PARTY/USER. IN ALL CIRCUMSTANCES, AND AT ALL TIMES, THE PUBLISHED PAPER AND/OR PDF DRAWINGS FOR THE PROJECT SHALL SUPERSEDE THE CAD FILES. IN THE CASE OF AN INCONSISTENCY BETWEEN THE PUBLISHED PAPER/PDF DRAWINGS AND THE ASSOCIATED CAD FILE. THE PUBLISHED PAPER/PDF DRAWINGS SHALL GOVERN THE PROJECT AND ALL WORK.

SAFETY

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE. MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.

CONCRETE/MASONRY COLLAR

A CONCRETE COLLAR SHALL BE PROVIDED WHERE PROPOSED STORM SEWER PIPE IS CONNECTED TO AN EXISTING PIPE. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

DEWATERING AND BY-PASS PUMPING

ANY DEWATERING, COFFERDAMS, OR PUMPING NECESSARY FOR THE CONSTRUCTION OF ANY ITEMS SHALL BE INCIDENTAL TO THOSE PARTICULAR CONSTRUCTION ITEMS AND SHALL BE INCLUDED IN THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

CLEAN WATER NOTE

ROOF DRAINS, FOUNDATION DRAINS, AND ALL OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SYSTEM ARE PROHIBITED.

SANITARY SEWER/LATERAL NOTE

ALL SANITARY SEWER LINES AND SANITARY LATERALS MUST BE INSTALLED WITH 40 INCHES MINIMUM OF COVER OR BELOW FROST DEPTH WHICHEVER IS GREATER.

STORM SEWER INSTALLATION

THIS WORK CONSISTS OF CONSTRUCTING STORM SEWER. THE CONTRACTOR SHALL PROVIDE ALL TOOLS AND EQUIPMENT REQUIRED FOR INSTALLING THESE ITEMS. THE WORK ALSO INCLUDES FURNISHING ALL MATERIALS, EXCAVATING, BEDDING, LAYING PIPE, JOINTING, BACKFILLING, REMOVAL AND RESTORATION OF DISTURBED FACILITIES AND SURFACES, CURB REPAIR, SIDEWALK REPAIR, PAVEMENT REPAIR (i.e. PAVEMENT IN STREETS, ALLEYS AND DRIVEWAYS), DISPOSAL OF ALL SURPLUS EXCAVATION AND DISCARDED MATERIALS, AND OTHER WORK NECESSARY TO COMPLETE THE ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD LOCATE ALL EXISTING STORM SEWER, AND OTHER UTILITIES, PRIOR TO INSTALLING THE PROPOSED STORM SEWER SYSTEM. THE EXISTING STORM SEWER AND LATERALS SHOWN ON THE PLANS ARE IN THE APPROXIMATE LOCATION AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE PROPOSED TIE-INS TO THE EXISTING STORM PRIOR TO ANY STORM SEWER CONSTRUCTION. ALL TIE-INS SHALL BE THROUGH PREMANUFACTURED TEES OR HOLES INSTALLED USING A CORING MACHINE. PIPE MAY BE ANY OF THE PIPE TYPES LISTED BELOW UNLESS OTHERWISE SPECIFIED ON THE PLANS.

TYPES OF PIPE PERMITTED ODOT MATERIALS NUMBERS CORRUGATED POLYETHYLENE SMOOTH-LINED PIPE (CPSLP) 707.33 POLYPROPYLENE CORRUGATED DOUBLE WALL PIPE (PCDWP) 707.65 POLYVINYL CHLORIDE SOLID WALL PIPE (SDR-35) 707.45 REINFORCED CONCRETE PIPE (RCP) 706.02

GENERAL NOTES

1. ALL UTILITIES SHALL BE INSTALLED, TESTED, AND COMPLY WITH THE LATEST VERSION OF THE CITY OF TIPP CITY STANDARDS AND SPECIFICATIONS.

2. ALL DISTURBED AREAS AND ALL NON-PAVEMENT AREAS SHALL HAVE A MINIMUM OF 6" OF TOP SOIL PLACED AND ARE TO BE SEEDED AND MULCHED PER SEEDING SPECIFICATIONS.

3. CONTRACTOR TO BE RESPONSIBLE FOR ANY PERMITS OR FEES THAT MAY BE NECESSARY FOR THE COMPLETION OF THE SITE WORK.

4. ALL WORK SHALL CONFORM WITH ALL FEDERAL, STATE, AND LOCAL ADA REGULATIONS AND STANDARDS.

STORM AND SANITARY CONDUITS/STRUCTURES AND RELATED WORK

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 611. PIPE CULVERTS. SEWERS. DRAINS. AND DRAINAGE STRUCTURES. EXCEPT AS HEREIN MODIFIED.

THE INSTALLATION OF ALL STORM SEWER, SANITARY SEWER, AND ALL CORRESPONDING STRUCTURES SHALL BE PER MANUFACTURER'S RECOMMENDATIONS OR AS NOTED ON THE PLANS. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN A HIGH STANDARD OF WORK. CONTRACTOR IS RESPONSIBLE TO ENSURE ALL WORK IS PERFORMED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR AS NOTED ON THE PLANS. CONTRACTOR SHALL ALSO ENSURE THAT ALL ITEMS ARE FULLY AND PROPERLY FUNCTIONAL. AND TO A QUALITY ACCEPTABLE TO THE OWNER.

ALL PIPE CULVERTS, CONDUITS, SEWERS, DRAINS, AND DRAINAGE STRUCTURES (CATCH BASINS, YARD DRAINS, MANHOLES, ETC.) SHALL MEET THE MATERIAL REQUIREMENTS OF THIS ITEM. THE FOLLOWING ITEMS WILL NOT BE REQUIRED UNLESS OTHERWISE NOTED: 1) INSTALLATION PLAN, 2) CONSTRUCTION INSPECTION FORMS, 3) PERFORMANCE INSPECTIONS AND REPORTS, 4) CONDUIT AND DRAINAGE STRUCTURE EVALUATIONS.

THE CONTRACTOR SHALL ENSURE THE CONDUIT BEDDING AND BACKFILL COMPACTION DENSITY MEETS ASTM D698 (98% STANDARD PROCTOR). TESTING MAY BE REQUIRED IF DEEMED NECESSARY BY THE OWNER OR THE OWNER'S REPRESENTATIVE.

MAINTAINING TRAFFIC

EXCAVATIONS WITHIN PUBLIC RIGHT-OF-WAY LIMITS SHALL BE CLOSED AT TIMES WHEN WORK IS NOT BEING PERFORMED.

LOCAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT DURING THE TIME THAT AN APPROVED CLOSURE AND DETOUR IS ALLOWED BY THE GOVERNING AUTHORITY.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING NECESSARY TRAFFIC CONTROL DEVICES AND PAVEMENT REPAIR MATERIALS TO MAINTAIN THE TRAVELED PAVEMENT SAFELY.

NO SHUT DOWN OF ANY OWNER FACILITY DRIVE, ROADWAY OR PARKING LOT WILL BE ALLOWED WITHOUT WRITTEN CONSENT FROM THE OWNER. ALL OWNER ROADWAYS MUST HAVE AT LEAST ONE LANE OPEN AT ALL TIMES. NO STAGING OF TRUCKS OUTSIDE OF CONSTRUCTION LIMITS WILL BE PERMITTED WITHOUT CONSENT FROM THE OWNER.

SUBCONTRACTOR SUPERVISION

MORE THAN ONE SAWCUT MAY BE NECESSARY TO ENSURE A CLEAN CUT. JUST PRIOR TO ASPHALT OR CONCRETE PLACEMENT, ASPHALT MATERIAL SHALL BE PLACED ON THE VERTICAL FACE OF SAWCUT JOINTS PRIOR TO PAVING AS PER 401.14. AFTER THE ASPHALT WORK IS COMPLETED, THE TRANSVERSE JOINTS SHALL BE SEALED WITH LIQUID ASPHALT.

WATER LINE CROSSING SEPARATION

CONTRACTOR SHALL LOWER/DIP ANY EXISTING OR PROPOSED WATER LINES AS NEEDED TO OBTAIN AN 18" MINIMUM SEPARATION DISTANCE FROM THE WATER LINE TO ANY STORM OR SANITARY SEWER. WATER LINE SHALL BE LAID AT LEAST 10' HORIZONTALLY FROM ANY SEWERS. WHENEVER A SANITARY OR STORM SEWER AND WATER LINE MUST CROSS, THE SEWER AND WATER SHALL BE LAID AT SUCH AN ELEVATION THAT THERE IS AT LEAST 18" OF SEPARATION BETWEEN THE OUTSIDE WALLS OF THE TWO PIPES. ALSO ONE FULL LENGTH OF WATERLINE SHALL BE LOCATED SO THE JOINTS ARE AS FAR FROM THE STORM AND SANITARY SEWERS AS POSSIBLE. IF IT IS ABSOLUTELY IMPOSSIBLE TO MAINTAIN THE 18" VERTICAL SEPARATION, THE SEWER SHALL BE CONSTRUCTED OF WATER LINE TYPE MATERIALS WHICH WOULD BE ABLE TO WITHSTAND A 100 PSI PRESSURE TEST (NOTE: DO NOT PRESSURE TEST SEWER TO 100 PSI). THESE REQUIREMENTS WILL EXTEND FOR THE DISTANCE OF THE ENTIRE SPAN. NO CHANGE OF MATERIALS ARE ALLOWED MID-SPAN. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

DOWNSPOUTS

CONTRACTOR SHALL INSTALL AND/OR COORDINATE THE INSTALLATION OF GAS. ELECTRIC. TELEPHONE. CABLE TELEVISION. FIBER OPTIC. ETC. AS REQUIRED AND AS SHOWN ON UTILITY PLANS AND ARCHITECTURAL SHEETS. CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES PRIOR TO INSTALLATION OF ANY FACILITIES. ALL UTILITIES SHALL BE INSTALLED PER EACH PARTICULAR UTILITY COMPANY'S STANDARDS AND PROCEDURES. CONTRACTOR TO VERIFY ACTUAL SIZES, LOCATIONS (POINTS OF ENTRY INTO THE BUILDING) AND INVERTS OF ALL UTILITIES TYING INTO THE BUILDING WITH ALL ARCHITECT PLANS (BUILDING, PLUMBING, ELECTRICAL, ETC.) BEFORE CONSTRUCTION.

ChoiceOne

Engineering

SIDNEY, OHIO 937.497.0200

LOVELAND, OHIO 513.239.8554

www.CHOICEONEENGINEERING.com

MAINTAIN TRAFFIC AS INDICATED IN THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", ALSO THE FOLLOWING REQUIREMENTS SHALL APPLY.

THE CONTRACTOR IS REQUIRED TO HAVE SOMEONE ON-SITE TO SUPERVISE THE SUBCONTRACTOR FOR QUALITY CONTROL PURPOSES AND TO PROVIDE ANY NECESSARY ASSISTANCE TO THE SUBCONTRACTOR TO ENSURE QUALITY WORK. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

SAWCUT PAVEMENT JOINTS

THE CONTRACTOR SHALL CONNECT ANY DOWNSPOUTS AS SHOWN ON THE SITE PLAN OR TO THE CLOSEST STORM PIPING OR CATCH BASINS USING CPSLP OR PVC SDR-35 SEWER OR APPROVED EQUAL.

UTILITIES



REVIEW OF DRAINAGE FACILITIES

BEFORE FINAL ACCEPTANCE BY THE OWNER, REPRESENTATIVES OF THE OWNER, AND THE CONTRACTOR, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. ALL EXISTING SEWERS INSPECTED BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO PRE-EXISTING CONDITION OF THE SEWER. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE/CITY OF TIPP CITY.

ALL NEW CONDUITS, UNDERDRAINS (INCLUDING THE STONE BACKFILL ABOVE THE UNDERDRAIN PIPING), INLETS, CATCH BASINS, MANHOLES, SWALES/DITCHES, AND DETENTION/RETENTION BASINS CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER (INCLUDING SEDIMENT) AND IN A CLEAN CONDITION AND FULLY AND PROPERLY FUNCTIONAL BEFORE THE PROJECT WILL BE ACCEPTED BY THE OWNER.

MODIFICATIONS

ANY MODIFICATIONS TO THE SPECIFICATIONS OR CHANGES TO THE WORK AS SHOWN ON THE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE OWNER'S REPRESENTATIVE.

RESTORATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY DISTURBED AND/OR DAMAGED AREAS, INCLUDING PAVEMENT, TO CONDITIONS EQUAL TO OR BETTER THAN CONDITIONS PRIOR TO CONSTRUCTION OR TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.

MISCELLANEOUS

THE INTENT OF THESE DRAWINGS IS TO INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK BY THE CONTRACTOR. PERFORMANCE BY THE CONTRACTOR SHALL BE REQUIRED TO THE EXTENT CONSISTENT WITH THE CONTRACT DOCUMENTS AND REASONABLY INFERABLE FROM THEM AS BEING NECESSARY TO PRODUCE THE INTENDED RESULTS.

IN THE CASE OF AN INCONSISTENCY BETWEEN DRAWINGS AND SPECIFICATIONS OR WITHIN EITHER DOCUMENT, THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED IN ACCORDANCE WITH THE OWNER'S REPRESENTATIVE'S INTERPRETATION.

CONTRACTORS SHALL VERIFY ALL GRADES, ELEVATIONS, AND EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

CONTRACTOR'S LUMP SUM BID PRICE SHALL INCLUDE ALL ITEMS AND OPERATIONS NEEDED, REQUIRED AND NECESSARY FOR THE PROPER EXECUTION OF THE PROJECT AND TO COMPLETE ALL WORK.

GRAFFITI AND VANDALISM

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF ALL WORK/ITEMS, INCLUDING ANY CONCRETE WORK, UNDER THIS CONTRACT WHICH IS DEEMED UNACCEPTABLE BY THE OWNER'S REPRESENTATIVE DUE TO GRAFFITI OR VANDALISM DAMAGE.

OWNER COORDINATION NOTES

THE CONTRACTOR SHALL COORDINATE THE PROPOSED WORK WITH THE OWNER'S REPRESENTATIVE PRIOR TO PERFORMING ANY WORK ON SITE. IF THE CONTRACTOR IS TO ENGAGE IN ANY OPERATIONS THAT AFFECT THE EXISTING FACILITY OPERATIONS, THE CONTRACTOR SHALL COORDINATE THE SCHEDULING OF SUCH ACTIVITIES WITH THE OWNER'S REPRESENTATIVE PRIOR TO PERFORMING ANY SUCH OPERATIONS OR ACTIVITIES.

THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SUPPORT, BRACING, AND OTHER DEVICES AS MAY BE REQUIRED OR AS DIRECTED BY OWNER'S REPRESENTATIVE OR THE ENGINEER TO PROTECT THE SAFETY OF THE PUBLIC, ADJACENT STRUCTURES, ROADWAY AND/OR UTILITIES. ALL WORK TO BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.

ITEM 611 SANITARY SE

THIS ITEM OF WORK SHALL CONSIST OHIO DEPARTMENT OF TRANSPORTA SEWERS AND DRAINS, EXCEPT AS H

THIS WORK SHALL CONSIST OF EXC AND INSTALLATION OF THE NEW PV INCLUDING ALL BEDDING, BACKFILL, (STRUCTURAL OR NATIVE) AND ALL AND SPECIFICATIONS AND PER THE AND SPECIFICATIONS. THIS ITEM SH EXISTING SANITARY. ITEM SHALL AL NECESSARY FOR INSTALLATION OF

WHEN A NEW SANITARY SEWER MAI SEWER MAIN, A FERNCO COUPLING THE COUPLING AND ASSOCIATED WO COST OF THE PROPOSED SANITARY

IF NEEDED, THE CONTRACTOR SHAL THE EXISTING SANITARY SEWER IN OF THE NEW SANITARY SEWER. CO EXISTING FLOW FROM MANHOLE TO DURING CONSTRUCTION. CONTRACTOR PUMP AND NECESSARY PUMP LINE CONTRACTOR SHALL COORDINATE W REPRESENTATIVE ON THE PROCEDU

ALL SANITARY SYSTEM WORK, MATE AND TESTING SHALL BE PER PER 1 SPECIFICATIONS AND PER CITY OF SPECIFICATIONS.

PAYMENT OF ITEM 611, SANITARY S OPERATIONS DESCRIBED ABOVE SHA BID PRICE AND SHALL INCLUDE ALL REQUIRED TO COMPLETE THIS ITEM



PROPOSED CONDUIT

PROVIDE ADEQUATE STON TO SUPPORT REPLACED S PIPE, ODOT 703.11, T COMPACTED WASH

NOTES

- A. CONCRETE REPAIRS
- B. ANY DRAINAGE TILE I BETTER THAN ITS OR NOTED ON THE AS-B
- C. ALL FIELD OR STORM OR PLUGGED AS APP

REPAIR OF

	-		
EWER, AS PER PLAN, FOR THE WORK AS DESCRIBED IN TION ITEM 611, PIPE CULVERTS, TEREIN MODIFIED. AVATION, STRUCTURAL BEDDING TO SDR-35 SANITARY SEWER, COMPACTION OF BACKFILL TESTING PER THE PROJECT PLANS CITY OF TIPP CITY STANDARDS ALL ALSO INCLUDE CONNECTION TO SO INCLUDE DEWATERING SANITARY. N CONNECTS TO AN EXISTING SHALL BE INSTALLED. THE COST OF DRK SHALL BE INCLUDED IN THE SEWER. L BE RESPONSIBLE FOR KEEPING SERVICE DURING THE CONNECTION DNTRACTOR MAY NEED TO PUMP NEXT DOWNSTREAM MANHOLE DR IS TO HAVE ON SITE ONE SPARE IN CASE OF EMERGENCY. THE ITH THE CITY/OWNER'S RE THE CONTRACTOR WILL USE. ERIALS, PROCEDURES, INSTALLATION THE PROJECT PLANS AND TIPP CITY STANDARDS AND SEWER, AS PER PLAN, FOR ALL ALL BE INCLUDED IN THE LUMP SUM LABOR, MATERIAL AND EQUIPMENT OF WORK		 NOTES A. CLEANOUT REQUIRED AT ALL R/W OR EASLINES. B. CLEANOUT MATERIALS SHALL BE SCHEDULGLUED JOINTS OR SDR-35 PVC MATCHINGLATERAL PIPE SIZE DIAMETER. C. CLEANOUT FRAME AND LID SHALL BE EQUINEENAH R-1976 OR EJIW 1578, HEAVY DUTHE LID MARKED "STORM" CLEANOUT STORM CLEANOUT LID LID TO BE MARKED "STORM" 	SEMENT E 40 THE AL TO JTY WITH
TRENCH DETAIL FOR OPER BACKFILLING	NT REPAIR, TYPE DEPENDENT ON STING MATERIAL E CHART BELOW)		
	EXISTING PIPE MATERIAL	JOINT REPAIR STAINLESS STEEL SOLID SLEEVE PLASTIC TO PLASTIC, PVC COUPLING ASTM D-3034/F-1336PSM OR EQUAL	
	OTHER THAN PVC (CLAY, DUCTILE, ETC.)	STAINLESS STEEL SOLID SLEEVE COUPLINGS WITH STAINLESS STEEL BANDS, EACH SIDE, OR EQUAL	
NE BEARING –/ SECTION OF TYPE 3 #57	СМР	CORRUGATED METAL PIPE COUPLING	
HED GRAVEL	RCP	CONCRETE COLLAR	
OR PATCHES ARE UNACCEPTABLE. DAMAGED BY THE CONTRACTOR MU RIGINAL CONDITION. ANYTHING REMO BUILT DRAWINGS AND MUST BE INSP I DRAINS WHICH ARE ENCOUNTERED PROVED AND DIRECTED BY THE MUN FXISTING FIFID TII	ST BE REPLACED BY THE CO VED, REPLACED, AND/OR CO PECTED BY THE INSPECTOR DURING CONSTRUCTION MUS IICIPALITY. FOR STORM	ONTRACTOR TO A CONDITION EQUAL TO OR ONNECTED TO THE STORM SEWER MUST BE BEFORE THEY A RE-COVERED. ST BE PROVIDED WITH UNOBSTRUCTED OUTLETS PIPF DFTAIL	4" SCH. (1) TEE O (2) 22½ (3) CAP U (4) PIPE I 703.1



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Ex. PAVEMENT Ex. AGGREGATE	CLEANOUT NOTES A. CLEANOUT REQUIRED AT THE R/W OR EASEMENT LINE UNLESS OTHERWISE	PVC SDR-35 FEM (S x FPT) A
BASE	B. CLEANOUT MATERIALS SHALL BE SCH. 40 (GLUED JOINTS) OR SDR-35 PVC AND THE DIA. SHALL MATCH THE	
	C. TRACER WIRE REQUIRED FOR EACH SANITARY SEWER LATERAL FROM THE MAIN TO THE CLEANOUT. TRACER WIRE SHALL BE EXTENDED UP THE CLEANOUT RISER TO A POINT JUST BELOW CLEANOUT CAP WHERE A 3/6" HOLE SHALL BE DRILLED THROUGH THE WALL OF THE PIPE.	SHT (SEE PLANS)
	D. CLEANOUT FRAME AND LID SHALL BE NEENAH R—1976 OR EJIW V—1579, WITH THE LID MARKED "SANITARY".	BLE HEIO
S.	E. THE CLEANOUT AND ALL THE COMPONENTS SHOWN IN THE DETAILS SHALL BE INCLUDED IN THE COST OF SANITARY SEWER LATERALS.	VARIA
	ELE MARKED "SANITARY"	ONE-V (NO
		1/2" EXPANSION JOINT ALL AROUND WHEN PLACED IN CONC. PAVEMENT
		(SEE PLANS)
R #67 AGGREGATE), OR OTHER ING BEDDING MATERIAL SHALL BE		HEIGHT
OR NATURAL GRAVEL.		ARIABLE
BY MUNICIPALITY TO BE COMPLETED		>
ERIAL IN 12" MAXIMUM S STONE, ROCKS, ETC.,		
1 (#304 AGGREGATE). JLTS IN "X" BEING		
OF THE BEDDING TO THE		ONE-W (IN
ND THEN SEEDED PER ODOT 659. CH LEGEND. THE TRENCH DETAIL TRACTOR.		
		NTS



NOTES:

CONTRACTOR TO VERIFY EXACT LOCATION, DEPTH AND SIZE OF UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER OF ANY CONFLICTS PRIOR TO THE INSTALLATION OF UTILITIES.

ALL UTILITIES TO BE INSTALLED PER CITY OF TIPP CITY STANDARDS.

CONTRACTOR TO VERIFY AND LOCATE WHERE STORM, SANITARY, AND WATER LATERALS AND ALL OTHER PROPOSED UTILITY SERVICES TIE INTO THE PROPOSED BUILDING PER BUILDING PLANS. CONTRACTOR SHALL ALSO VERIFY THE SIZES AND TYPES OF ALL LATERALS AND HOW THEY MAY TIE INTO THE PROPOSED BUILDINGS.

CONTRACTOR TO FOLLOW ALL PERMIT REQUIREMENTS AND SPECIFICATIONS TO INSTALL THE PROPOSED UTILITIES INCLUDING COORDINATING THE INSTALLATION WITH LOCAL OFFICIALS AS NEEDED AND/OR REQUIRED.

CONTRACTOR TO COORDINATE ALL WORK WITH THE OWNER AS NEEDED/REQUIRED.

DOWNSPOUT PIPING NOTE:

THE CONTRACTOR SHALL CONNECT ANY DOWNSPOUTS AS SHOWN ON THE SITE PLAN OR TO THE CLOSEST STORM PIPING OR CATCH BASINS USING CPSLP OR PVC SDR-35 SEWER OR APPROVED EQUAL.

EXISTING BUILDING STORM, DOWNSPOUTS AND ROOF DRAINS NOTE:

FOR ALL EXISTING ROOF DRAINS AND/OR DOWNSPOUTS FROM THE EXISTING BUILDING THAT ARE ENCOUNTERED OR DISTURBED WITHIN THE PROJECT AREA. CONTRACTOR SHALL REROUTE AND TIE THEM INTO THE PROPOSED STORM SYSTEM. IF THERE ARE ANY ADDITIONAL ROOF DRAINS OR DOWNSPOUTS DISCOVERED AND/OR ENCOUNTERED DURING CONSTRUCTION, CONTRACTOR SHALL TIE THEM INTO THE PROPOSED STORM SEWER AS NEEDED/REQUIRED AND AS DIRECTED BY THE OWNER.

THERE MAY BE EXISTING STORM LINES IN THE AREA OF THE EXISTING BUILDING(S) THAT PICK UP THE EXISTING DOWNSPOUTS FROM THE EXISTING BUILDING(S). THE SIZE, LOCATION, DEPTH, ROUTING OF THESE EXISTING DOWNSPOUT COLLECTOR LINES IS UNKNOWN. CONTRACTOR SHALL BE AWARE OF THAT THIS PIPING MAY BE PRESENT AND SHALL ENSURE ALL EXISTING DOWNSPOUTS AND THEIR RELATED PIPING REMAINS IN SERVICE THROUGHOUT THE PROJECT, UNLESS OTHERWISE NOTED

COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

EXISTING "APPROXIMATE" AND/OR "PER PLANS" UNDERGROUND UTILITIES NOTE:

EXISTING UNDERGROUND UTILITIES LABELED AS "APPROXIMATE" AND/OR "PER PLANS" HAVE BEEN SHOWN BASED ON PREVIOUS PLANS AND OLD SITE INFORMATION AND THEIR EXACT LOCATION, DEPTH, SIZE, TYPE, SLOPE, ETC. ARE UNKNOWN. CONTRACTOR SHALL TAKE THIS INTO ACCOUNT FOR ALL WORK RELATED TO AND/OR INVOLVING THESE UTILITIES AND SHALL FIELD VERIFY AND/OR DETERMINE ALL INFO FOR THESE UTILITIES PRIOR TO CONSTRUCTION.

EXISTING UTILITY NOTES:

CONTRACTOR SHALL DETERMINE THE TYPE OF SERVICE FOR ALL EXISTING UNDERGROUND LINES THAT ARE ENCOUNTERED DURING CONSTRUCTION AND SHALL ENSURE THE FOLLOWING:

1. THAT ALL EXISTING STORM LINES OR ANY OTHER EXISTING CLEAN WATER DRAINAGE LINES THAT ARE DISCOVERED AND/OR ENCOUNTERED DURING CONSTRUCTION AND ARE OR NEED TO REMAIN IN SERVICE ARE ROUTED AS NEEDED TO ENSURE THAT THEY ARE CONNECTED INTO THE PROPOSED OR EXISTING STORM SEWER.

2. THAT ALL EXISTING SANITARY LINES THAT ARE DISCOVERED AND/OR ENCOUNTERED DURING CONSTRUCTION AND ARE TO REMAIN IN SERVICE ARE ROUTED AS NEEDED TO ENSURE THAT THEY ARE CONNECTED INTO ACTIVE EXISTING SANITARY SEWER LINES/STRUCTURES OR INTO PROPOSED SANITARY SEWER LINES/STRUCTURES.

3. THAT ALL EXISTING WATER LINES THAT ARE DISCOVERED AND/OR ENCOUNTERED DURING CONSTRUCTION AND ARE TO REMAIN IN SERVICE ARE ROUTED AS NEEDED TO ENSURE THAT THEY ARE CONNECTED INTO ACTIVE EXISTING WATER LINES OR INTO PROPOSED WATER LINES.

ALL WORK TO BE PER AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND TO BE WITNESSED BY THE OWNER'S REP. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

UNKNOWN EXISTING UNDERGROUND UTILITIES:

CONTRACTOR TO BE AWARE THERE MAY BE OTHER UNKNOWN SERVICES OR UNKNOWN UNDERGROUND UTILITIES OR ITEMS WHICH MAY BE LOCATED WITHIN THE SITE AND MAY REQUIRE REMOVAL OR REROUTING IN ORDER TO PERFORM THE PROPOSED PROJECT. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY OF ANY UNKNOWN UNDERGROUND UTILITIES OR OTHER ITEMS WHICH ARE ENCOUNTERED AND WORK WITH THE OWNER TO DECIDE HOW THESE ITEMS SHOULD BE HANDLED.

ELECTRICAL/MECHANICAL NOTE:

CONTRACTOR SHALL REFER TO THE ELECTRICAL/MECHANICAL DRAWINGS FOR DEMOLITION AND/OR INSTALLATION INFO. OF ALL EXISTING AND PROPOSED ELECTRICAL/MECHANICAL ITEMS FOR THE SITE AND/OR HOW THESE ITEMS ARE TO BE HANDLED AND ADDRESSED.

GAS, ELECTRIC, COMMUNICATION CONFLICT NOTE:

CONTRACTOR TO LOWER/DIP THESE UTILITIES AS NEEDED TO AVOID CONFLICTS WITH ANY PROPOSED OR EXISTING SANITARY OR STORM OR WATER LINES THEY MAY CONFLICT WITH. IF THESE UTILITY LINES CONFLICT WITH ANY PROPOSED OR EXISTING WATERLINES THEN CONTRACTOR TO DETERMINE WHETHER TO LOWER/DIP THE WATERLINE OR LOWER/DIP THE GAS/ELECTRIC/COMMUNICATION LINE(S). CONTRACTOR MAY NEED TO CONSULT WITH AND OBTAIN OWNER'S APPROVAL AS TO WHICH UTILITY WILL BE LOWERED PRIOR TO PERFORMING THIS WORK. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.





NOTES:

CONTRACTOR TO VERIFY EXACT LOCATION, DEPTH AND SIZE OF UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER OF ANY CONFLICTS PRIOR TO THE INSTALLATION OF UTILITIES.

CONTRACTOR TO TIE INTO EXISTING PAVEMENT ELEVATIONS AS REQUIRED WHERE EVER NEW PAVEMENT ABUTS UP TO EXISTING PAVEMENT TO ENSURE A SMOOTH TRANSITION. ALL EX. PAVEMENT ELEVATIONS GIVEN ARE APPROXIMATED AND SHALL BE FIELD VERIFIED. CONTRACTOR SHALL ALSO ENSURE THAT A SMOOTH TRANSITION IS PROVIDED WHERE EVER PROPOSED GRADES MEET EXISTING GRADES THROUGHOUT THE SITE.

ALL DISTURBED LAWN AREAS SHALL BE GRADED TO DRAIN TO THE NEAREST INLET STRUCTURE

CONTRACTOR TO ENSURE ALL AREAS OF THE SITE HAVE POSITIVE DRAINAGE. NO PONDING OR PUDDLING OF WATER IS PERMITTED.

GRADE TIE IN NOTE:

CONTRACTOR TO TIE INTO EXISTING ELEVATIONS THROUGHOUT THE SITE. CONTRACTOR SHALL ENSURE PROPER GRADING AND DRAINAGE IS PROVIDED FOR ALL AREAS WITHIN THE SITE TO DRAIN TO EXISTING OR PROPOSED STORM SYSTEMS OR SWALES. CONTRACTOR SHALL ENSURE THAT DRAINAGE IS PROPERLY DIRECTED AWAY FROM ANY BUILDINGS/STRUCTURES. THIS SHALL INCLUDE ALL TEMPORARY GRADING AS NEEDED INCLUDING INSTALLING TEMPORARY DRAINAGE SWALES AND INSTALLING ALL TEMPORARY STORM SEWER CATCH BASINS, INLETS, PIPING, ETC. AS NEEDED TO ENSURE PROPER DRAINAGE OF THE SITE THROUGHOUT THE COURSE OF CONSTRUCTION. ALL WORK TO BE COORDINATED WITH AND AS DIRECTED BY OWNER'S REPRESENTATIVE.

ALL DISTURBED LAWN AREAS SHALL BE GRADED TO DRAIN TO THE NEAREST INLET STRUCTURE

CONTRACTOR TO ENSURE ALL AREAS OF THIS PORTION OF THE SITE HAVE POSITIVE DRAINAGE. NO PONDING OR PUDDLING OF WATER IS PERMITTED.

GRADING LIMITS NOTE:

CONTRACTOR SHALL VERIFY THE FOLLOWING WITH THE CONSTRUCTION MANAGER AND OWNER'S REPRESENTATIVE:

1. AREAS WHERE GRADING OPERATIONS ARE TO TAKE PLACE.

AREAS WHERE GRADING OPERATIONS ARE NOT TO TAKE PLACE.
 GRADING LIMITS.

4. GRADING TIE-IN POINTS TO EXISTING GRADES.















ANDREW P. HUELSMAN E-78372 MCGISTERS STONAL EN ANDREW P. HUELS LICENSE #E-78 EXPIRATION DATE: 12/	MAN 372 '31/2023
GARMANN MILLER	MINSTER, OHIO COLUMBUS, OHIO INDIANAPOLIS, INDIANA creategm.com
TIPP CITY GOVERNMENT BUILDING INFILL	280 SOUTH GARBER DRIVE, TIPP CITY, OHIO
ISSUANCES/REVISION BID DOCUMENTS	IS 02/02/2023
PROJECT NUMBER: DRAWN BY: 22094.00 MAD	CHECKED BY: KAT
SHEET TITLE:	
SITE DETAI	LS
SHEET NUMBER:	
174	

AB - ANCHOR BOLT	E - EAST
AC - AIR CONDITIONING	EA - EACH
ACC - ACCESSIBLE	EB - EXPANSION BOLT
ACT - ACOUSTICAL ACT - ACOUSTICAL CEILING TILE	EF - EACH FACE EFS - DIRECT APPLIED EXTERIOR FINISH SYSTEM
AD - AREA DRAIN	EIFS - EXTERIOR INSULATION FINISH SYSTEM
ADD - ADDITIONAL	EJ - EXPANSION JOINT
ADJ - ADJUSTABLE AFF - ABOVE FINISHED FLOOR	EL - ELEVATION FLEC - ELECTRICAL
AFP - ACCORDION FOLDING PARTITION	ELEV - ELEVATOR
AGGR - AGGREGATE	EMERG - EMERGENCY
ALT - ALTERNATE	ENCL - ENCLOSURE
ALUM - ALUMINUM ANCH - ANCHOR	ENGR - ENGINEER FP - FLECTRICAL PANELBOARD
ANOD - ANODIZED	EPDM - ETHYLENE PROPYLENE DIENE M-CLASS ROOFIN
AP - ACCESS PANEL	EPX - EPOXY
APPD - APPROVED	EQ - EQUAL
APPROX - APPROXIMATE AR - ACID RESISTANT	ESCAL - ESCALATOR
ARCH - ARCHITECTURAL	EW - EACH WAY
ASPH - ASPHALT	EXH - EXHAUST
	EX / EXIST - EXISTING
AWT - ACOUSTICAL WALL TREATMENT	EXT - EXTERIOR
	EXTN - EXTENSION
3	
BEJ - BRICK EXPANSION JOINT	
3D - BOARD BIT - BITHMINOUS	FA - FIRE ALARM FB - FACE BRICK
BLDG - BUILDING	FC - FACE
3LK - BLOCK	FCO - FLOOR CLEANOUT
BLKG - BLOCKING	FD - FLOOR DRAIN
ым - реами / велистичакк 3/0 - воттом ог	FDV - FIRE DEPARTMENT VALVE
BOT - BOTTOM	FE - FIRE EXTINGUISHER / FINISH END
BRG - BEARING	FEC - FIRE EXTINGUISHER CABINET
35 - BOILER STACK	FF - FINISH FLOOR
3T - BOLT	FH - FLAT HEAD
BUR - BUILT-UP ROOF	FHC - FIRE HOSE CABINET
BYND - BEYOND	FIN - FINISH
	FIXT - FIXTURE
	FLASH - FLASHING
	FLUOR - FLUORESCENT
CAB - CABINET	FM - FILLED METAL
CAT - CATEGORY	FND - FOUNDATION
CB - CATCH BASIN	FP - FIRE PROTECTION
CBD - CHALK BOARD	FPG - FIREPROOFING
CEM - CEMENT	FR - FRAME
CER - CERAMIC	FRTW - FIRE RETARDANT TREATED WOOD
CG - CORNER GUARD	FSSK - FLOOR SERVICE SINK
CH - CABINET HEATER / CEILING HEIGHT	FTG - FOOTING
CI - CAST IRON	FURN - FURNITURE
CIP - CAST IN PLACE	FURR - FURRING FWC - FABRIC WALLCOVERING
CJ - CONTROL JOINT	FWP - FABRIC WALL PANEL
CL - CENTERLINE CLG - CEILING	FVC - FIRE VALVE CABINET
CLR - CLEAR	
CMP - CORRUGATED METAL PIPE	<u>G</u>
CMT - CERAMIC MOSAIC TILE	G - GROUND GA - GALIGE
CNTR - COUNTER	GALV - GALVANIZED
CO - CLEANOUT	GB - GRAB BAR
COL - COLUMN	GC - GENERAL CONTRACTOR
	GERC - GLASS FIBER REINFORCED CONCRETE
CONC - CONCRETE	GFRGU - GLASS FIBER REINFORCED GYPSUM UNIT
COND - CONDITION	GL - GLASS
CONN - CONNECTION	GR - GRADE
CONST - CONSTRUCTION CONT - CONTINUOUS / CONTINUE	עווטטאט - עאו GWB - GYPSUM WALI BOARD
CONTR - CONTRACTOR	
COORD - COORDINATE	<u>H</u>
LUKK - CUKRUGATED / CORRIDOR	HB - HOSE BIBB
CT - CERAMIC TILE	Ης - HULLOW CUKE ΗCP - ΗΔΝΠΙΓΔΡΡΕΓΙ
CTR - CENTER	HDW - HARDWARE
CTSK - COUNTER SINK	HDWD - HARDWOOD
LIYD - COURTYARD	HGT - HEIGHT
CWF - CEMENTITIOUS WOOD FIBER	нм - HOLLOW METAL (STEEL FRAME) HNDRI - НАМОРАЦІ
	HO - HOLD OPEN
	HORIZ - HORIZONTAL
<u></u> D - DEPTH	
DA - DISABLED	HVAC - HEATING, VENTILATING & AIR CONDITIONING
DBL - DOUBLE	HW - HOT WATER
JC - DISPLAY CASE	HWY - HIGHWAY
DEPT - DEPARTMENT	HYDR - HYDRAULIC
DET - DETAIL	1
DF - DRINKING FOUNTAIN	ID - INSIDE DIAMETER
DIM - DIMENSION	ILO - IN LIEU OF
DISE - DISEENSEK DIV - DIVISION	INCAND - INCANDESCENT
DL - DEAD LOAD	INCL - INCLUDE
DMPF - DAMPPROOFING	INFO - INFORMATION INSUL - INSULATION
DMT - DEMOUNTABLE	INT - INTERIOR
	INTERM - INTERMEDIATE
DP - DIMENSION POINT	
DPTN - DEMOUNTABLE PARTITION	IRGWB - IMPACT RESISTANT GYPSUM WALLBOARD
DR - DOOR	
DRN - DRAIN	
- DUWNSPUUT DW - DISHWASHER	JC - JANITORIAL CLOSET
DWC - DRINKING WATER COOLER	JST - JOIST
	JT - JOINT
DWG - DRAWING	

Α - ΕΑCΠ ΓΡ ΕΧΡΔΝΣΙΩΝ ΒΩΙ Τ
F - EACH FACE
FS - DIRECT APPLIED EXTERIOR FINISH SYSTEM
IFS - EXTERIOR INSULATION FINISH SYSTEM
J - EXPANSION JOINT
EL - ELEVATION
ELEC - ELECTRICAL
LEV - ELEVATOR
INCL - ENCLOSORE
P - FIECTRICAL PANELBOARD
PDM - ETHYLENE PROPYLENE DIENE M-CLASS ROOFING
EPX - EPOXY
EQ - EQUAL
QUIP - EQUIPMENT
SCAL - ESCALATOR
EW - EACH WAY
XH - EXHAUST
X / EXIST - EXISTING
XP - EXPANSION
XI - EXTERIOR
XIN - EXTENSION
DC - FIRE DEPARTMENT CONNECTION
DV - FIRE DEPARTMENT VALVE
E - FIRE EXTINGUISHER / FINISH END
EC - FIRE EXTINGUISHER CABINET
F - FINISH FLOOR
F&E - FURNITURE, FINISHES & EQUIPMENT
H - FLAT HEAD
HC - FIRE HOSE CABINET
IN - FINISH
IXT - FIXTURE
ND - FOUNDATION
// - FACE OF
P - FIRE PROTECTION
PG - FIREPROOFING
R - FRAME
RTW - FIRE RETARDANT TREATED WOOD
SR - FLEXIBLE SHEET ROOFING
SSK - FLOOR SERVICE SINK
TG - FOOTING
URN - FURNITURE
URR - FURRING
- GROUND
GA - GAUGE
GALV - GALVANIZED
GB - GRAB BAR
GC - GENERAL CONTRACTOR
GFCMU - GROUND-FACED CONCRETE MASONRY UNIT
GFRC - GLASS FIBER REINFORCED CONCRETE
GFRGU - GLASS FIBER REINFORCED GYPSUM UNIT
GL - GLASS
GR - GRADE

GRD	- GROUND
GWB	- GYPSUM WALLBOARD
н	
HB - H	IOSE BIBB
HC - H	IOLLOW CORE
НСР	- HANDICAPPED
HDW	- HARDWARE
HDWD	- HARDWOOD
HGT	- HEIGHT
HM	- HOLLOW METAL (STEEL FRAME)
HNDRL	- HANDRAIL
HO	- HOLD OPEN
HORIZ	- HORIZONTAL
HRC	- HOSE REEL CABINET
HS - H	IIGH STRENGTH
HVAC	- HEATING, VENTILATING & AIR CONDITIONING
HW	- HOT WATER
HWY	- HIGHWAY
HYDR	- HYDRAULIC
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ID - II	NSIDE DIAMETER
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INCL	- INCLUDE
INFO	- INFORMATION
INSUL	- INSULATION

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ID - II	NSIDE DIAMETER
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- \	KNURLED
KIT -	KITCHEN
(PL	- KICK PLATE
- 0	KNOCKOUT
·	
	LENGIH
AB	- LABORATORY
.AM	- LAMINATE
AV	- LAVATORY
DG	- LANDING
KR	- LOCKER
L -	LIVE LOAD
IН	- LONG LEG HORIZONTAL
IV	
.P1 -	
.I -	
VR	- LOUVER
.W	- LONG WAY
VIAINI	- MAINTENANCE
MAS	- MASONRY
MATL	- MATERIAL
MAX	- MAXIMUM
ИB	- MARKER BOARD
MBL	- MARBLE
MDF	- MEDIUM DENSITY FIBERBOARD
 ∕IFP	- MECHANICAL FLECTRICAL & PLUMBING
VIEZZ	- MEZZANINE
MFR	- MANUFACTURER
ИН	- MOP HOLDER / MAN HOLE
MIN	- MINIMUM / MINUTE
MISC	- MISCELLANEOUS
NO	- MASONRY OPENING
MRGW	B - MOISTURF-RESISTANT GYPSUM WALLBOARD
ART	
	MOUNTED
VIIG	
VIIL	- METAL
MULL	- MULLION
N	
<u>v</u> v -	- NORTH
<u>n</u> - NA -	- NORTH NOT APPLICABLE
N - NA - NC -	- NORTH NOT APPLICABLE NOISE CRITERIA
N - NA - NC -	NORTH NOT APPLICABLE NOISE CRITERIA
N - NA - NC - NIC	NORTH NOT APPLICABLE NOISE CRITERIA - NOT IN CONTRACT
N - NA - NC - NIC NOM	NORTH NOT APPLICABLE NOISE CRITERIA - NOT IN CONTRACT - NOMINAL
N - NA - NC - NIC NOM NTS	NORTH NOT APPLICABLE NOISE CRITERIA - NOT IN CONTRACT - NOMINAL - NOT TO SCALE
N - NA - NC - NIC NOM NTS	NORTH NOT APPLICABLE NOISE CRITERIA - NOT IN CONTRACT - NOMINAL - NOT TO SCALE
N - NA - NC - NIC NOM NTS	NORTH NOT APPLICABLE NOISE CRITERIA - NOT IN CONTRACT - NOMINAL - NOT TO SCALE
N - NA - NC - NIC NOM NTS	NORTH NOT APPLICABLE NOISE CRITERIA - NOT IN CONTRACT - NOMINAL - NOT TO SCALE
N - NA - NC - NIC NOM NTS	NORTH NOT APPLICABLE NOISE CRITERIA - NOT IN CONTRACT - NOMINAL - NOT TO SCALE
N - NA - NC - NIC NOM NTS DA -	NORTH NOT APPLICABLE NOISE CRITERIA - NOT IN CONTRACT - NOMINAL - NOT TO SCALE
N - NA - NC - NIC NOM NTS DA - DA - DC -	NORTH NOT APPLICABLE NOISE CRITERIA - NOT IN CONTRACT - NOMINAL - NOT TO SCALE OUTSIDE AIR ON CENTER
N - NA - NC - NIC NOM NTS DA - DC - DC - DCEW	NORTH NOT APPLICABLE NOISE CRITERIA - NOT IN CONTRACT - NOMINAL - NOT TO SCALE OUTSIDE AIR ON CENTER - ON CENTER EACH WAY
N - NA - NC - NIC NOM NTS DA - DC - DC - DCEW DD -	NORTH NOT APPLICABLE NOISE CRITERIA - NOT IN CONTRACT - NOMINAL - NOT TO SCALE OUTSIDE AIR ON CENTER - ON CENTER EACH WAY OUTSIDE DIAMETER
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N - NA - NA - NC - NIC - NOM - NOM - NTS - DA - DA - DA - DA - DC - PA - P - P - P - P - P - P - P - P	NORTH NOT APPLICABLE NOISE CRITERIA - NOT IN CONTRACT - NOMINAL - NOT TO SCALE OUTSIDE AIR ON CENTER - ON CENTER EACH WAY OUTSIDE DIAMETER - ON CENTER EACH WAY OUTSIDE DIAMETER - OWNER FURNISHED, CONTRACTOR INSTALLED - OWNER FURNISHED, OWNER INSTALLED - OFFICE - OVERHEAD - OPPOSITE HAND - OPENING - OPPOSITE - OVERHEAD - OVERHEAD - OVERHEAD - OVERHEAD - OVERHEAD - OVERHEAD - OVERHEAD - OVERHEAD - OPERABLE WALL PAINT PUBLIC ADDRESS - PAVING - PARTITION - PAPER TOWEL DISPENSER - PARTICLEBOARD PRECAST CONCRETE - PERFORATED - PERIMETER - PERPENDICULAR - PLASTIC LAMINATE - PLASTER PROPERTY LINE / PLATE - PLUMBING - PLYWOOD - PANEL - POLISHED PAIR - PREFABRICATED - PROJECT
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PTR - PAPER TOWEL RECEPTACLE

PVC - POLYVINYL CHLORIDE PIPE

PV - PAVERS

PVMT - PAVEMENT

Q_____ QT - QUARRY TILE

QTY - QUANTITY

<u>R</u>
R - RADIUS
RA – RETURN AIR
RB - RESILIENT BASE
RBR - RUBBER
RCP - REFLECTED CEILING PLAN
RD - ROOF DRAIN
REC - RECESSED
RECOM - RECMMENDED
RECPT - RECEPTACLE
REF - REFERENCE
REFL - REFLECT
REFR - REFRIGERATOR
REG - REGISTER
REINF - REINFORCE
REM - REMOVABLE
REQD - REQUIRED
RESIL - RESILIENT
REV - REVISION
RFG - ROOFING
RM - ROOM
RO - ROUGH OPENING
ROW - RIGHT OF WAY
RTD - RATED
RTG - RATING

<u>s____</u> s - south SA - SUPPLY AIR SAN - SANITARY SC - SOLID CORE SCWD - SOLID CORE WOOD DOOR SCHED - SCHEDULE SD - STORM DRAIN / SMOKE DETECTOR SECT - SECTION SEW - SEWER SFCMU - SPLIT-FACED CONCRETE MASONRY UNIT SFCMU - SPLIT-FACED CONCRETE MASONRY SGFT - STRUCTURAL GLAZED FACING TILE SH - SHOWER SHT - SHEET SIM - SIMILAR SLR - SEALER SM - SHEET METAL SND - SANITARY NAPKIN DISPENSER SPECS - SPECIFICATIONS SPKR - SPEAKER SPH - SPRINKLER HEAD SPR - SPRINKLER SQ - SQUARE SS - STAINLESS STEEL SSE - STRUCTURAL SLAB ELEVATION SSF - SOLID SURFACE SSK - SERVICE SINK ST - STORM / STREET STA - STATION STC - SOUND TRANSMISSION COEFFICIENT STD - STANDARD STE - SUITE STL - STEEL STLJST - STEEL JOIST STN - STAIN STOR - STORAGE STRG - STRINGER STRUCT - STRUCTURAL SUBCAT - SUBCATEGORY SUSP - SUSPENDED SW - SHORT WAY / SIDEWALK SYMM - SYMMETRICAL SYNTH - SYNTHETIC SYS - SYSTEM

T_____ T - TREAD / THERMOSTAT T&B - TOP AND BOTTOM T&G - TONGUE AND GROOVE TA - TOILET ACCESSORY TB - TOWEL BAR TEL - TELEPHONE TEMP - TEMPERATURE TER - TERRAZZO THK - THICKNESS THRES - THRESHOLD THRU - THROUGH TKBD - TACKBOARD TMPD - TEMPERED T/O - TOP OF TPD - TOILET PAPER DISPENSER TS - TRANSITION STRIP TV - TELEVISION TYP - TYPICAL TWS - TACKABLE WALL SURFACE

<u>U</u> UNFIN - UNFINISHED UNO - UNLESS NOTED OTHERWISE UV - UNIT VENTILATOR

UR - URINAL

V - VENTILATION AND AIR CONDITIONING VERT - VERTICAL VEST - VESTIBULE VIF - VERIFY IN FIELD VIT - VITREOUS

- VOL VOLUME
- VR VAPOR RETARDER VRB - VENTED RESILIENT BASE
- VS VENT STACK
- VT VINYL (ENHANCED / COMPOSITION) TILE VWC - VINYL WALL COVERING

W -	WEST / WIDTH
W/	- WITH
W/0	- WITHOUT
WA	- WARDROBE ACCESSORIES
WB	- WOOD BASE
WC	- WATER CLOSET
WD	- WOOD
WDW	- WINDOW
WGT	- WEIGHT
WH	- WATER HEATER
WP	- WATERPROOFING
WPM	- WATERPROOF MEMBRANE
WR	- WATER RESISTANT / REPELLANT
WS	- WEATHERSTRIPPING
WSCT	- WAINSCOT
WSSK	- WALL SERVICE SINK
WT	- WINDOW TREATMENT
WVR	- WOOD VENEER
WW	- WALL TO WALL
WWF	- WELDED WIRE FABRIC

<u>Y</u> YD - YARD / YARD DRAIN

COMMON CHARACTERS # / NO - NUMBER

°/DE	G - DEGREE
Ø / DI	A - DIAMETER
□ / SC) - SQUARE
I	- FEET
н	- INCH
L	- ANGLE
&	- AND
@	- AT
d	- PENNY (NAILS)
=	- EQUAL
COMI	MON MEASUREMENTS
°C	- CELCIUS
°F	- FAHRENHEIT
AC	- ACRES
BTU	- BRITISH THERMAL UNIT
BTUH	- BRITISH THERMAL UNIT PER HOUR
CF	- CUBIC FEET
CFM	- CUBIC FEET PER MINUTE
CI	- CUBIC INCH

CY - CUBIC YARD

Db - DECIBEL

IN - INCH

FT - FEET

HR - HOUR

GAL - GALLONS

KG - KILOGRAM KW - KILOWATT

LB - POUND

M - METER

LF - LINEAR FOOT

MIN - MINUTE

SI - SQUARE INCH

SY - SQUARE YARD

MM - MILLIMETER

GPF - GALLONS PER FLUSH

GPH - GALLONS PER HOUR

KWH - KILOWATT PER HOUR

PLF - POUNDS PER LINEAR FOOT

PSF - POUNDS PER SQUARE FOOT

PSI - POUNDS PER SQUARE INCH

GENERAL

- Α В С
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- F G
- Н
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- J
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- Q
- R
- S
- Т U
- V
- W
- Х
- Y
- AA
- BB CC
- DD
- EE FF
- GG
- HH Ш
-]]

REFERENCE GENERAL CONSTRUCTION NOTES AND REFERENCE SPECIFICATIONS AND DRAWINGS FOR FINISH FIRST FLOOR ELEVATION INDICATED FOR TI DATUM. ELEVATIONS OF EXISTING ELEMENTS REL SHALL NOTIFY THE CONSTRUCTION MANAGER IMI THE STRUCTURE IS DESIGNED TO BE SELF-SUPPOR THE CONSTRUCTION PROCEDURES AND SEQUENC CONSTRUCTION. THIS INCLUDES SHORING, SHEAT THE SITE AND ALL BUILDING ROOFS. CONTRACTOR(S) SHALL MAINTAIN ALL LEGAL EGR	D SPECIFICATIONS FOR MORE INFORMATION AND BID A SPECIAL REQUIREMENTS AND CONDITIONS. HE NEW WORK IS 100'-0". REFERENCE SITE DRAWINGS ATIVE TO 100'-0" SHALL BE FIELD VERIFIED BY THE CON MEDIATELY OF ANY DISCREPANCIES BEFORE PROCEEDIN TING AND STABLE AFTER THE WORK IS COMPLETE. CON SES AND ENSURE THE INTEGRITY OF THE WORK AND ITS FHING, TEMPORARY ENCLOSURES AND TEMPORARY POS ESS FROM THE WORK TO COMPLY WITH APPLICABLE BU	LTERNATES. FOR RELATIONSHIP TO U.S.G.S. ITRACTOR(S). CONTRACTOR(S) NG WITH THE WORK. NTRACTOR(S) SHALL DETERMINE COMPONENT PARTS DURING SITIVE WATER DRAINAGE FROM JILDING CODES, SAFETY		ANDREW P. HUELSMAN E-78372 STONAL ENTRY ANDREW P. HUELSMAN LICENSE #E-78372 EXPIRATION DATE: 12/31/2023
REGULATIONS AND THE DISCRETION OF THE GOVE THE PUBLIC FOR NORMAL ACTIVITIES AND EMERG TEMPORARY WALLS, DOORS, HARDWARE PARTITI EGRESS. CONTRACTOR(S) SHALL VERIFY ALL DIMENSIONS A WORK, BY THE CONTRACTOR(S), CONSTITUTES AC CONSTRUCTION MANAGER IMMEDIATELY OF ANY ALL CIP CONCRETE CURBS AND EQUIPMENT PADS ASSOCIATED WORK. DIFFERENT FLOOR FINISH MATERIALS SHALL MEET DETAILED OTHERWISE. FURNISH AND INSTALL FLOOR DRAINS 1/2" BELOW DRAWINGS FOR EXACT LOCATIONS. FURNISH AND INSTALL CASING BEAD AT ALL LOCA NOTED OR DETAILED OTHERWISE. ALL DIMENSIONS ARE MEASURED TO THE FACE OF FILL IN ALL MASONRY VOIDS WITH MORTAR OR GI ALL CMU'S THAT DO NOT LAY OUT IN FULL OR HAN 4" EXPOSED TO VIEW. ALL CMU CORNERS, HORIZONTAL OR VERTICAL, SH BOTH EXTERIOR AND INTERIOR CMU WORK SHALL SINGLE WYTHE WALLS ARE INDICATED IN ACTUAL IF FRAME WIDTH DOES NOT MATCH WALL WIDTH PASSAGE SIDE OF THE WALL UNLESS NOTED OR DI ROOM SHALL BE FURNISHED AND INSTALLED TO THE THE CENTERLINE OF THE WALL CROSS SECTION. INTERIOR FINISHES SHALL BE FURNISHED AND INSTALLED TO THE THE CENTERLINE OF THE WALL CROSS SECTION.	ERMING LOCAL BOILDING CODE ADTHORTTES FOR THE F GENCY EGRESS FROM THE WORK. THE CONTRACTOR(S) ONS, SCREENS, ENCLOSURES AND PEDESTRIAN PROTEC AND CLEARANCES BEFORE PROCEEDING WITH THE WOR CCEPTANCE OF THE EXISTING CONDITIONS. CONTRACTOR DISCREPANCIES BEFORE PROCEEDING WITH THE WOR SHALL BE FURNISHED AND INSTALLED BY THE CONTRACT TUNDER THE CENTERLINE OF THE DOOR IN THE CLOSED V FLOOR PERIMETER. SLOPE FINISH FLOOR TO FLOOR D TIONS WHERE GYPSUM WALLBOARD ABUTS DISSIMILA F MASONRY OR THE FACE OF STUD UNLESS NOTED OR D ROUT WHERE MASONRY ANCHORS OCCUR. LF BLOCK LENGTHS SHALL BE BALANCED SUCH THAT PIE HALL BE BULLNOSE UNLESS NOTED OR DETAILED OTHER L BE RUNNING BOND UNLESS NOTED OR DETAILED OTHER L BE RUNNING BOND UNLESS NOTED OR DETAILED OTHER L DOOR AND BORROWED LITE FRAMES SHALL BE INSTAL ETAILED OTHERWISE. NON-CORRIDOR OR NON-PASSAG THE SIDE OF THE WALL FACING THE LARGER ROOM. REF E WALL ONLY. DEDICATED WITH THE LOCAL BUILDING CO	HEALTH, SAFETY AND WELFARE OF SHALL FURNISH AND INSTALL ANY TIONS TO MAINTAIN SUCH LEGAL AK. COMMENCEMENT OF THE OR(S) SHALL NOTIFY THE K. CTOR RESPONSIBLE FOR THE OPOSITION UNLESS NOTED OR ORAINS. REFERENCE PLUMBING R MATERIALS. TYPICAL UNLESS OFTAILED OTHERWISE. ECES SHALL HAVE NO LESS THAN RWISE. ECES SHALL HAVE NO LESS THAN RWISE. ERWISE. ELLED TO THE CORRIDOR OR GE FRAMES FROM ROOM TO FERENCE DOOR AND WINDOW FURNISHED AND INSTALLED TO DODE AUTHORITY HAVING		<image/>
JURISDICTION OVER THE WORK, AS WELL AS ALL A REFERENCE FINISH MATERIAL SCHEDULE FOR ALL PROCEEDING WITH THE WORK. THE CONTRACTOR(S) SHALL FURNISH AND INSTAL ACCESSORIES, HANDRAILS, CASEWORK, ETC. COO MANUFACTURERS RECOMMENDATIONS. SUCH W MINIMUM 1/2" DIAMETER EXPANSION BOLTS AT A REFERENCE EQUIPMENT PLANS FOR EQUIPMENT I REFERENCE FLOOR PLANS FOR FIRE EXTINGUISHEF DRAWINGS FOR MOUNTING HEIGHTS. THE ELECTRICAL CONTRACTOR SHALL FURNISH AN BY THE GENERAL TRADES CONTRACTOR, AS OPPO TRADES CONTRACTOR SHALL COORDINATE SUCH I THOSE LOCATIONS BEFORE PROCEEDING WITH TH THE GENERAL TRADES CONTRACTOR IS REQUIRED SERVICE, PLUMBING, MECHANICAL, ELECTRICAL A AND PATCHING INCLUDING CUTTING FLOOR AND/ EXISTING ADJACENT SURFACE TO ACCEPT NEW FIN PERFORMED. THIS INCLUDES ALL AREAS NOT SPER REFERENCE CODE PLANS, FLOOR PLANS, REFLECTE REFERENCE INTERIOR ELEVATIONS FOR LOCATION OPENINGS IN ROOF FOR ROOFTOP EQUIPMENT SF COORDINATE LOCATIONS OF SUCH OPENINGS WIT ASSOCIATE CONTRACTOR AND INSTALLED BY THE REFERENCE PLUMBING DRAWINGS FOR ALL VENT CONTRACTOR(S). REFERENCE MECHANICAL DRAWINGS FOR ALL FLU CONTRACTOR(S). THE CONTRACTOR SHALL PROTECT ALL ROOF DRA CONSTRUCTION. THE CONTRACTOR SHALL INSPEC COMPLETION OF THE WORK AND TO ENSURE THA FUNCTIONING PROPERLY AT PROJECT COMPLETION ALL TYPICAL ROOFING DETAILS ARE SHOWN FOR CO OF THE ROOFING MANUFACTURER. ALL DETAIL M INSTALL ALL FLASHING AND APPROPRIATE CRICKE ALL TOP OF STEEL AND TOP OF BOND BEAM ELEVA	APPLICABLE FEDERAL, STATE AND LOCAL BUILDING COD INTERIOR FINISHES. NOTIFY THE ARCHITECT OF ANY DIS L TREATED WOOD BLOCKING IN WALLS AS REQUIRED TO RDINATE THIS WORK WITH ALL APPROPRIATE CONTRAC /OOD BLOCKING SHALL BE FASTENED TO STRUCTURAL N 48" OC MAXIMUM UNLESS NOTED OR DETAILED OTHER MOUNTING HEIGHTS. R (FE) AND FIRE EXTINGUISHER CABINET (FEC) LOCATION ND INSTALL ELECTRICAL WALL BOXES IN PLAIN-FACE CM SED TO SPLIT-FACE, SOUND-ABSORBING, OR SOUND-DI EXACT LOCATIONS WITH THE ELECTRICAL CONTRACTOR HE WORK. 1 TO CUT AND PATCH ANY OPENINGS LARGER THAN 8" A ND FIRE PROTECTION CONTRACTOR(S) TO FURNISH ANI /OR WALL, EXCAVATING, BACK FILLING, PATCHING AND NISH. REFERENCE ENGINEERING DRAWINGS FOR LOCAT CIFICALLY NOTED BUT REQUIRING CUTTING AND PATCH- ED CEILING PLANS AND WALL SECTIONS FOR RATED ASS IS OF ANY VARYING CMU TYPES WITHIN THE WALLS. HALL BE CUT BY THE ROOFING CONTRACTOR. THE ASSC TH THE ROOFING CONTRACTOR. EQUIPMENT CURBS AF ROOFING CONTRACTOR. STACK LOCATIONS. COORDINATE LOCATIONS OF SUCH PEN INS, SCUPPERS AND DOWNSPOUTS FROM DEBRIS CREA CT AND CLEAR ALL ROOF DRAINS, SCUPPERS AND DOWN ST ALL ROOF TOP PENETRATIONS. ATIONS SHOWN ON THE ARCHITECTURAL DRAWINGS AF	ES AND REGULATIONS. SCREPANCIES BEFORE O SECURE ALL EQUIPMENT, CTORS, SUPPLIERS AND MEMBERS AND CMU(S) WITH WISE. NS. REFERENCE EQUIPMENT U(S), FURNISHED AND INSTALLED FFUSING CMU(S). THE GENERAL A. NOTIFY THE ARCHITECT OF AS REQUIRED FOR ANY FOOD D INSTALL THEIR WORK. CUTTING REPAIR AS REQUIRED TO MATCH TIONS OF WORK TO BE HING. EMBLIES. DCIATED CONTRACTOR SHALL RE TO BE FURNISHED BY THE PENETRATIONS WITH THE ETRATIONS WITH THE ETRATIONS WITH THE ITED DURING DEMOLITION AND NSPOUTS PRIOR TO THE E FREE OF DEBRIS AND ARE ONS SHALL MEET THE APPROVAL L. RE FOR COORDINATION PURPOSE		TIPP CITY GOVERNMENT BUILDING INFIL
ONLY. IN CASE OF DISCREPANCY BETWEEN ARCHI ON THE STRUCTURAL DRAWINGS AND NOTIFY THE CONTRACTOR TO COORDINATE AND MAINTAIN M SIGNAGE. IN THE EVENT OF INCONSISTENCIES WITHIN OR BE QUALITY OR GREATER QUALITY OF WORK AND SH. BASIC DEFINITIONS: 'FURNISH' SHALL MEAN TO P SHALL MEAN TO TAKE FURNISHED PRODUCT AND SHALL MEAN TO FURNISH AND INSTALL.	ITECTURAL AND STRUCTURAL DRAWINGS, CONTRACTOF E CONSTRUCTION MANAGER IMMEDIATELY. IINIMUM 1'-0" WIDE BY 6'-0" HIGH SPACE ON LATCH SIE ETWEEN THE CONTRACT DOCUMENTS, THE CONTRACTO ALL COMPLY WITH THE STRICTER REQUIREMENTS. URCHASE AND DELIVER PRODUCT TO THE SITE READY F ASSEMBLE, ERECT, SECURE IN PLACE, CONNECT IN OPE	R(S) SHALL USE THE ELEVATIONS DE OF ALL DOORS FOR OWNER'S DR SHALL PROVIDE THE BETTER OR INSTALLATION; 'INSTALL' RATION AS APPLICABLE; 'PROVIDE'		ISSUANCES/REVISIONS BID DOCUMENTS 02/02/2023
MATERIAL SYMBOLS USED ON THE CONTRACT	DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOS	SE LISTED BELOW	STUD WALL (PLAN)	
	CONCRETE MASONRY UNIT (PLAN AND SECTION)	SPRAY APPLIED INSULATION	AREA OF REVISION	PROJECT NUMBER: DRAWN BY: CHECKED BY: 22094.00 MDB LKL
GRAVEL, STONE OR DRAINAGE FILL SAND, GROUT,	RIGID, PERIMETER, OR ROOF INSULATION	WOOD - DIMENSIONAL (NOMINAL) WOOD - DIMENSIONAL (RIPPED)		SHEET TITLE:
MORTAR OR PLASTER CONCRETE CUT OR CAST STONE	SHEATHING WOOD (FINISHED) SPLIT-FACE CONCRETE MASONRY UNIT	BATT INSULATION OR SOUND ATTENUATION		GENERAL NOTES, ABBREVIATIONS AND SYMBOLS
RAWING AND MATERIAL SYMBOLS L	EGEND			SHEET NUMBER:







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1 A1.1 FIRST FLOOR PLAN 1/8" = 1'-0"



FIRST FLOOR PLAN ROOM INDEX - OVERALL						
ROOM NUMBER	ROOM NAME	AREA	OCCUPANCY			
A101	CORRIDOR	456 SF				
A102	STORAGE	860 SF	3			
A103	RESTROOM	54 SF				
A104	SERVER ROOM	506 SF	2			
A105	IT OFFICE	432 SF	4			
A106	CORRIDOR	79 SF				
A107	OFFICE	161 SF	2			
A108	OFFICE	166 SF	2			
A201	STORAGE	884 SF	3			



A1.1



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	MINSTER, OHIO COLUMBUS, OHIO INDIANAPOLIS, INDIANA 325 31/5053
TOTAL	MINSTER, OHIO COLUMBUS, OHIO INDIANAPOLIS, INDIANA 31/5053 Creategm.com
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	HARDWARE	ROOM KEY			
LL	SET	SIDE	FUNCTION	LABEL (MIN)	NOTES
	8	-	Interior	45	4
	10	-	Exterior	-	
	9	-	Exterior	-	
-	9	-	Exterior	-	
-	10	-	Exterior	-	
6.1	1	-	Exterior	-	
	5	A101	Interior	-	1
	3	A101	Interior	-	
	4	A101	Interior	-	1, 3
	5	A101	Interior	-	1
	5.1	A105a	Interior	-	1, 3
6.1	1	-	Exterior	-	
-	6	A106	Interior	-	2
	2	B109	Interior	-	
	-	-	Interior	-	
	2	B109	Interior	-	
	-	-	Interior	-	

FIRST FLOOR PLAN ROOM INDEX - OVERALL				
ROOM NAME	AREA	OCCUPANCY		
DOR	456 SF			
GE	860 SF	3		
ООМ	54 SF			
RROOM	506 SF	2		
CE	432 SF	4		
DOR	79 SF			
	161 SF	2		
	166 SF	2		
GE	884 SF	3		

			#	KEYNOT
			02 41 00.14	SALVAGE AND REMOVE EXISTING ACOU
MARK	DESCRIPTION	NOTES		OTHER TRADES - REINSTALL CEILING.
	(2) LAYERS 5/8" GYPSUM CEILING BOARD OVER 3 5/8" METAL STUDS	REFER TO SPEC	07 62 00.B	VENTED METAL SOFFIT SYSTEM WITH SU
		SECTION 09 2116		VENTED PANEL EVERY 5'-0"
А	2' x 4' SUSPENDED ACOUSTICAL PANEL CEILING	REFER TO SPEC	09 51 00.E	RESET EXISTING GRID/TILE CEILING TO V
		SECTION 09 5100	09 91 23.D	PAINTED EXPOSED STRUCTURE, EXPOSE
В	5/8" GYPSUM CEILING BOARD ON SUSPENDED CEILING SYSTEM	REFER TO SPEC		
		SECTION 09 5100		
Е	EXISTING TO REMAIN - PATCH AND REPAIR DAMAGE CEILING TILE AND			
	TRACK DO TO NEW WALL CONSTRUCTION			

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	,			FINISH M	ATERIAL SCHEDULE	
NAME 03 35 11 CON	MANUFACTURER NCRETE FINISHING - SEALED CONCRETE	STYLE	NUMBER	COLOR	SIZE	
SC REF	FER TO SPECIFICATIONS	REFER TO SPECIFICATIONS	-	REFER TO SPECIFICATIONS	-	
06 41 00 - CA CH1 AM	ASEWORK HARDWARE IEROCK	EDGE PULLS	BP36575PN	POLISHED NICKLE	3 3/4"	
09 51 00 ACC	DUSTICAL CEILINGS - SUSPENSION SYSTEM				ar / 1	
		JQUAKE LAY-IN		WHILE	15/16 [°]	
TYPE A ARN	MSTRONG	SCHOOL ZONE FINE FISSURED		WHITE	24" X 48" X 3/4"	
09 65 00 RES	SILIENT FLOORING - VINYL TILE RKETT	IQ EMINENT	-	TO BE SELECTED FROM MANUFACTURERS STA	ANDARDS 12" X 12"	
09 65 13 RES	SILIENT FLOORING - RUBBER BASE					
RB2 TAR	RKETT	JOHNSONITE WALL BASE, BASEWORKS	-	TO BE SELECTED FROM MANUFACTURERS STA	ANDARDS 6"	
09 68 13 CAR CPT1 SHA	RPETING - CARPET TILE AW CONTRACT	PRIMARY TILE	5T123	TO BE SELECTED FROM MANUFACTURERS STA	ANDARD 24" X 24"	
09 69 00 - RA	AISED ACCESS FLOORING	·	·			
ARF REF	FER TO SPECIFICATIONS	REFER TO SPECIFICATIONS	-	REFER TO SPECIFICATIONS	REFER TO SPECIFICATION	5
09 91 23 PAIR EPT1 TO I	NTING - EPOXY PAINT BE SELECTED FROM SHERWIN WILLIAMS STANDARD COLORS	REFER TO SPECIFICAITONS		MATCH PT1		
09 91 23 PAI	NTING - PAINT					
PT2 TO I	DE SELECTED FROM SHERWIN WILLIAMS STANDARD COLORS BE SELECTED FROM SHERWIN WILLIAMS STANDARD COLORS	REFER TO SPECIFICAITONS		WHITE		
12 24 00 WIN	NDOW SHADES- ROLLER SHADE		-	TO BE SELECTED FROM MANUEACTUREDS STA		s
12 36 00 - 50	DLID SURFACE COUNTERTOPS					-
SSM1 COF	RIAN	SOLID SURFACE	-	BASALT TERRAZZO	12MM	
SSM2 COF	RIAN	SOLID SURFACE	-	WHITE	12MM	

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RETEANCHOR (32 U.C.)					TE OF	
	ROOM				STATE OF C	
	NUMBER		AREA	OCCUPANCY	ANDREW	
S (32" O.C.)	A101	CURRIDOR	456 SF		HIFISMAN	
ALL-STEEL ACCESS FLOOR PANEL. FULL	A102	RESTROOM	54 SF	3	E-78372	// ₂₅ //
SHIM AS NECESSARY TO ARREST SHIFTING.	A104	SERVER ROOM	506 SF	2	REGISTERED	
STRINGER	A105	IT OFFICE	432 SF	4	SIONAL F	
	A106	OFFICE	79 SF	2	ANDREW P. HUH	Elsman
	A107 A108	OFFICE	166 SF	2	LICENSE #E- EXPIRATION DATE: 1	78372
	A201	STORAGE	884 SF	3		
<u>ل</u>						
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	TYDICAL	NICHES			~	∀ Z
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	* UNLESS	NOTED OTHERWISE, THESE FINISH SELECTIONS SHALL BE USE	ED EDANICIES TO			IS, IN
	THE ARCHI	TECT'S ATTENTION IMMEDIATELY.			44	APOI
	EXPOSED F					NAN.
	EXPOSED H	VAC ELEMENTS (WALLS) MATCH ADJACENT WAL	L FINISH			IN I
	EXPOSED S EXPOSED N	TRUCTURE (CEILING) MATCH PT2 METAL DECK MATCH PT2			~ –	HIO m.co
	GWB CEILI	NGS AND BULKHEADS PT2				JS, O ateg
	HOLLOW N HOLLOW N	IETAL DOOR FRAMES PT1 IETAL DOORS PT1				cre
	INTERIOR	VOOD DOORS WD1			(7)	COLI
	SWITCH PL CABINET H	ATES AND OUTLET COVERS WHITE ARDWARE CH1				
	WINDOW	SILLS SSM2				OHIO
						STER,
						WIN
	FLOOR FIN	SHES GENERAL NOTES				
— BACKING	A FI	OORING TRANSITIONS AND SEAMS AT DOOR SHALL OCCUR	DIRECTLY UN	DER THE		
	C	ENTERLINE OF CLOSED DOOR UNLESS NOTED OTHERWISE.				
RED	B FI	OURING TRANSITIONS ARE TO BE EASED TO ACHIEVE A SMO RANSITION.	Joth and un	NIFORM		
	D FI	OOR FINISHES SHALL EXTEND UNDER BUILT-IN COUNTER AN	ND EQUIPMEN	IT.		
	E R	EFERENCE THE FINISH MATERIAL SCHEDULE FOR MANUFACT	TURERS, TYPES	5, AND		
	G A	JLOK SELECTIONS. L BASE MATERIALS SHALL BE INSTALLED TIGHT TO FLOOPIN	IG SLIRFACF			
	M E	(POSED CEILING / STRUCTURE TO BE PAINTED, UNLESS NOT	ED OTHERWIS	E		
STRIP	# 09.60.00 A	KEYNOTE DESCRIPTION	CARPET TO R	FMAIN		14537:
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		FLOOR FINISH RF1				
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DER STRIP	*REMARK	NUMBERS COORDINATE WITH "INTERIOR FINISH REMARKS"	" NOTES LEGE	ND ABOVE		
	ΜΛΤΕΡΙΛΙ					
	ROOM MA	RKED UNLESS NOTED OTHERWISE WITH KEYNOTES ON FINIS	SH PLAN OR IN	ITERIOR		
d. <u>A</u> <u>A</u> d	ELEVATIO	IS.				
AB - LEVEL AS	INTERIOR	FINISH REMARKS				
	1 APPLY	WALL PAINT AND RUBBER BASE AT NEWLY CONSTRUCTED W		L OTHER	ISSUANCES/REVIS	IONS
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SPECIAL INSPECTION NOTES

- The OWNER shall employ one or more special inspectors to provide inspections during construction on the types of work itemized below. 2 - Only the required STRUCTURAL Special Inspections have been listed on this sheet . Please refer to architectural drawings and/or specifications for required non-structural Special Inspections, if applicable.

3 - The special inspector shall be a qualified person who shall demonstrate competence, to the satisfaction of the building official, for inspection of the particular type of construction or operation requiring special inspection. 4 - Numbered and lowercase sublettered inspections indicate referenced OBC requirements 5 - Some numbered or lettered special inspection items may not be listed. These items are not required on this project.

6 - The Special Inspections table and other contract documents indicate the special inspections anticipated at the time the documents were approved by the Building Official.

REQUIRED STRUCTURAL SPECIAL INSPECTIONS					
				Additional OBC	
Soils - OBC Table 1705.6	Continuous	Periodic	Referenced Standard	Requirements	Remarks
				N 87 20727 241	Geotechnical Investigation shall include items of Special Inspection
A. Geotechnical Investigations				1803	and Testing as noted in OBC Section 1803
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity		x			Confirm bearing conforms to geotechnical report
2. Verify excavations are extended to proper depth and have reached		A			Commin bearing comorns to geotecrinical report
proper material.	_	x			
		59745			Confirm structural fill materials meet specifications outlined in
3. Perform classification and testing of compacted fill materials.	—	Х		1803.5.1	geotechnical report.
4. Verify use of proper materials, densities and lift thicknesses during	×				Confirm structural fill materials meet specifications outlined in
5. Prior to placement of compacted fill, observe subgrade and verify that	^				Geolechnical report.
site has been prepared properly.	<u></u>	x			report, prior to placing structural fill.
				Additional IBC	-
Concrete Construction, Cast-In-Place - OBC Table 1705.3	Continuous	Periodic	Referenced Standard	Requirements	Remarks
					DETAIL ED EABRICATION AND OLIALITY CONTROL
					PROCEDURES INCLUDING REVIEW FOR COMPLETENESS AND
A. Fabricator Inspections	<u> </u>	х		1704.2.5	ADEQUACY RELATIVE TO THE CODE REQUIREMENTS
	9 <u>.</u>	200			Confirm size and spacing of bars. Tolerances and reinforcing
 Inspect reinforcement and verify placements. 		х	ACI 318 Ch. 20, 25.2, 25.3, 26.6.1-26.6.3.	1908.4	placement per ACI 7.5; spacing limits for reinforcing ACI 7.6
3. Inspect anchors cast in concrete.		х	ACI 318: 17.8.2	—	
					All bolts visually inspected.
					Post-installed anchors shall be qualified for use in cracked concrete
					and shall have passed the Simulated Seismic Tests in accordance
				_	with ACI 355.2. Special inspections apply to anchor product name,
4. Inspect anchors post-installed in hardened concrete members.			ACI 219: 17 9 2 4		type, and dimensions, hole dimensions, compliance with drill bit
a. Auresive anchors installed nonzontally or upwardly inclined orientations	×		AUI 310. 17.0.2.4	1	expiration date, anchor/adhesive installation, anchor, adhesive
b. Mechanical anchors and adhesive anchors not defined in 4 a		х	ACI 318: 17.8.2	1	and tightening torque
	/E			1904.1, 1904.2.	
5. Verify use of required design mix		X	ACI 318:Ch.19, 26.4.3, 26.4.4	1908.2, 1908.3	Tests and submittals per specifications
6. Prior to concrete placement, fabricate specimens for strength tests,					1.0 16
perform slump and air content tests, and determine the temperature of	522				
concrete.	X		ASTM C172, ASTM C31, ACI 318: 26.4, 26.12	1908.1	lests per specifications
7 Inspection of concrete placement for proper application techniques	×		ACI 318: 36 5	1908.6, 1908.7,	Confirm placement conforms to ACI 201
7. Inspection of concrete placement for proper application techniques.	^		ACI 316. 20.5	1906.6	Confirm products conform to approved shop drawings: confirm
8. Verify maintenance of specified curing temperature and techniques.		х	ACI 318: 26.5.3-26.5.5	1908.9	curing performed per specifications
12. Inspect formwork for shape, location, and dimensions of the concrete	1				
member being formed		Х	ACI 318: 26.11.1.2(b)	—	Confirm dimensions per contract drawings
				Additional ODO	
LEVEL 1 Maconny Construction - OPC Table	Continuous	Poriodio	Poferenced Standard	Additional OBC	Pomarka
1. Compliance with required inspection provisions of the construction	Continuous	Periodic	Referenced Standard	Requirements	Remarks
documents and the approved submittals shall be verified	_	×	TMS 602/ACI 530 1/ASCE 6: Art 1 5		
2 Verification of f' and f' or prior to construction except where specifically		~			
exempted by this code	_	×	TMS 602/ACI 530 1/ASCE 6: Art 1 4B		
3. Verification of slump flow and VSI as delivered to the site for self-					
consolidating grout.	x	-	TMS 602/ACI 530.1/ASCE 6: Art. 1.5B.1.b.3		
4. As masonry construction begins, the following shall be verified to ensure					
compliance:		× ×			
a. Proportions of site-prepared mortar.		X	TMS 602/ACI 530.1/ASCE 6: Art. 2.1, 2.6A		Visual inspection of preparation to confirm proportions
5 During construction the inspection program shall verify:		~	TMIS 002/ACT 330. T/ASCE 0. AR. 3.3B		Visual inspection to commin placement of Civio
e. Barning concluded on the inopeople in program on an verify.		(Visual inspection to confirm size and location conforms to contract
a. Size and location of structural elements.	-	х	TMS 602/ACI 530.1/ASCE 6: Art. 3.3F		drawings.
b. Type, size and location of anchors, including other details of anchorage		225			Confirm size, type, and location of anchors conforms to contract
	53 - 55 -	X	TMS 402/ACI 530/ASCE 5: Sec. 1.2.1(e), 6.1.4.3, 6.2.1		drawings.
of masonry to structural members, frames, or other construction.				1	
 d. Preparation, construction and protection of masonry during cold weather (temperature below 40°E) or bot weather (temperature above 					
 d. Preparation, construction and protection of masonry during cold weather (temperature below 40°F)or hot weather (temperature above 90°F). 		x	TMS 602/ACI 530.1/ASCE 6: Art. 1.8C. 1.8D	2104.3, 2104.4	Visually confirm according to ACI 530.1 Article 1.8C and 1.8D
 d. Preparation, construction and protection of masonry during cold weather (temperature below 40°F)or hot weather (temperature above 90°F). 6. Prior to grouting, the following shall be verified to ensure compliance 	_	x	TMS 602/ACI 530.1/ASCE 6: Art. 1.8C, 1.8D	2104.3, 2104.4	Visually confirm according to ACI 530.1 Article 1.8C and 1.8D
 d. Preparation, construction and protection of masonry during cold weather (temperature below 40°F)or hot weather (temperature above 90°F). 6. Prior to grouting, the following shall be verified to ensure compliance a. Grout space is clean 		x	TMS 602/ACI 530.1/ASCE 6: Art. 1.8C, 1.8D TMS 602/ACI 530.1/ASCE 6: Art. 3.2D, 3.2F	2104.3, 2104.4	Visually confirm according to ACI 530.1 Article 1.8C and 1.8D Visually confirm
 d. Preparation, construction and protection of masonry during cold weather (temperature below 40°F)or hot weather (temperature above 90°F). 6. Prior to grouting, the following shall be verified to ensure compliance a. Grout space is clean e. Construction of mortar joints. 		X X X	TMS 602/ACI 530.1/ASCE 6: Art. 1.8C, 1.8D TMS 602/ACI 530.1/ASCE 6: Art. 3.2D, 3.2F TMS 602/ACI 530.1/ASCE 6: Art. 3.3B	2104.3, 2104.4	Visually confirm according to ACI 530.1 Article 1.8C and 1.8D Visually confirm Visual inspection to confirm placement of CMU
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2207 1

DESIGN CRITERIA NOTES

REFERENCED DESIGN CODE: OHIO BUILDING CODE (2017)

ENVIRONMENTAL LOADS: ROOF SNOW LOAD

ROOF SNOW LOAD:	
GROUND SNOW LOAD,	Pg = 20 PSF
FLAT ROOF SNOW LOAD,	Pf = 20 PSF
SNOW EXPOSURE FACTOR,	Ce = 1.0
SNOW LOAD IMPORTANCE FAC	CTOR, Is = 1.1
THERMAL FACTOR,	Ct = 1.0
WIND LOAD:	
BASIC WIND SPEED (3 SECOND	GUST) = 120 MPH
RISK CATEGORY =	III
WIND EXPOSURE =	С

WIND EXPOSURE = INTERNAL PRESSURE COEFFICIENT = +/- 0.18 COMPONENT AND CLADDING TO BE USED FOR ALL ITEMS NOT SPECIFICALLY DESIGNED BY ENGINEER OF RECORD (0.6W, SERVICE) = ROOFS = +20 PSF / -45 PSF

WALLS = +20 PSF / -24 PSF EARTHQUAKE LOAD: SEISMIC IMPORTANCE FACTOR, le = 1.25 MAPPED SPECTRAL ACCELERATION, Ss = 0.172 S1 = 0.072 SITE CLASS = D (ASSUMED) DESIGN SPECTRAL ACCELERATION: Sds = 0.183 Sd1 = 0.116

SEISMIC DESIGN CATEGORY = B BASIC SEISMIC-FORCE-RESISTING SYSTEM (RESPONSE MODIFICATION FACTOR) = [Reference: ASCE 7-10 Table 12.2-1]

A9 ORDINARY REINFORCED MASONRY SHEAR WALLS (R=2.0) PER OBC 3404.4 EXCEPTION, THE EXISTING LATERAL LOAD CARRYING STRUCTURAL ELEMENTS WILL HAVE A DEMAND/CAPACITY INCREASE OF NO MORE THAN 10% AND SHALL BE PERMITTED TO REMAIN UNALTERED.

SEISMIC RESPONSE COEFFICIENT, Cs = 0.114 ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE PROCEDURE DESIGN BASE SHEAR (1.0E) = _____ KIPS

DESIGN UNIFORM LOADS:

ROOF DEAD LOAD: 25 PSF ROOF LIVE LOAD: 25 PSF UNIFORM FLOOR LIVE LOAD : 150 PSF

UNIFORM MEZZANINE LIVE LOAD : 125 PSF

SPECIAL LOADS: SEE PLAN FOR SPECIAL LOADING CONDITIONS

GENERAL STRUCTURAL NOTES

- GENERAL (ALL TRADES) 1. IN ACCORDANCE WITH SECTION 1704 OF THE OHIO BUILDING CODE, SPEC INSPECTIONS WILL BE REQUIRED FOR THIS PROJECT. SPECIAL INSPECTI SHALL BE PERFORMED IN ACCORDANCE WITH THE "SPECIAL INSPECTION REQUIREMENTS" SCHEDULE. ALL FABRICATORS SHALL SATISFY THE "FAE APPROVAL" PROVISIONS IN SECTION 1704.2.5.1 WHICH REQUIRES THE FAI TO MAINTAIN AN AGREEMENT A BOARD RECOGNIZED INDUSTRY TRADE ASSOCIATION CERTIFICATION PROGRAM OR A BOARD RECOGNIZED FABF
- INSPECTION AGENCY PER 4101:7-6-01 OF OHIO ADMINISTRATIVE CODE. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND REPORT ANY CONDITIONS SUBSTANTIALLY DIFFERENT THAN THOSE SHOWN TO THE ENGINEER STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS
- AND SPECIFICATIONS OF ALL OTHER DISCIPLINES. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES, AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.
- THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY
- OF THE CONTRACTOR. SHELL + MEYER ASSOCIATES, INC. SHALL NOT BE RESPONSIBLE FOR THE METHODS, TECHNIQUES, AND SEQUENCES OF PROCEDURES TO PERFORM THE WORK
- FOR THE PURPOSES OF UL FIRE ASSEMBLY RATINGS E119 AND UL 263. THE STRUCTURE SHALL BE CONSIDERED "UNRESTRAINED". UNLESS SPECIFICALLY NOTED IN THE CONSTRUCTION DOCUMENTS PER OBC SECTION 703.2.3.

POST INSTALLED ANCHORS

INSTALL ALL ANCHORS PER THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS (MPII).

- WHERE NOT INDICATED ON THE DRAWINGS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES AS PROVIDED BY HILTI, INC. CONCRETE SUBSTRATE - U.N.O. USE 3/4" DIAM. HILTI 'HAS' THREADED RODS OR
- HIT-Z ANCHOR RODS WITH HIT-HY 200 SAFE SET SYSTEM, ICC ESR-3187. MINIMUM EMBEDMENT 0'-6 3/4".
- REINFORCING INTO CONCRETE U.N.O. USE HILTI HIT-RE 500 V3 EPOXY, ICC ESR-3814. MINIMUM EMBEDMENT INTO CONCRETE 44x BAR DIAMETER U.N.O. GROUTED CONCRETE MASONRY (INSTALLED IN WALL FACE) MIN. 8" GROUT
- AROUND ALL ANCHORS U.N.O. USE 3/4" DIAM. HILTI KWIK BOLT 3 ANCHORS. ICC-ES ESR-1385. MINIMUM EMBEDMENT 0'-4 3/4". GROUTED CONCRETE MASONRY (INSTALLED VERTICALLY IN TOP COURSE OF
- WALL) U.N.O. USE 3/4" DIAM. HILTI KWIK HUS EZ SCREW ANCHORS, ICC-ES ESR-3056. MINIMUM EMBEDMENT 0'-6 1/4". UNGROUTED CONCRETE MASONRY - USE THE HILTI HIT HY-70 ADHESIVE SYSTEM
- ICC-ES ESR-2682. U.N.O. STEEL ANCHORS SHALL BE 1/2" DIAM. HILTI 'HAS-E' CONTINUOUSLY THREADED ROD x 0'-4" MINIMUM EMBEDMENT. USE TWO APPROPRIATELY SIZED MESH SLEEVES PER ANCHOR.

DIVISION 3 - FOUNDATIONS AND CONCRETE

- ALLOWABLE NET SOIL BEARING CAPACITY = 3,000 PSF ; REF. SOILS REPORT DATED MARCH 31. 2000 BY CESO TESTING TECHNOLOGY ALL EXCAVATIONS SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACING
- CONCRETE. CONCRETE WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE LATEST "AMERICAN CONCRETE INSTITUTE" INCLUDING THE REQUIREMENTS OF ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE BUILDINGS". CONCRETE MIXES SHALL BE DESIGNED PER ACI 301, USING PORTLAND CEMENT CONFORMING TO ASTM C150 OR C595, AGGREGATE CONFORMING
- TO ASTM C33, AND ADMIXTURES CONFORMING TO ASTM C494, C1017, C618, C989 AND C260. CONCRETE SHALL BE READY-MIXED IN ACCORDANCE WITH ASTM C94. HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305. COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306.
- CONCRETE SHALL ATTAIN THE FOLLOWING ULTIMATE 28 DAY COMPRESSIVE STRENGTHS: 3,000 P.S.I. FOR FOOTINGS 3,500 P.S.I. FOR FLOOR SLABS ON DECK
- 4,000 P.S.I. FOR INT. SLABS ON GRADE, WALLS 4,500 P.S.I. FOR EXT. SLABS ON GRADE; SLUMP SHALL BE 4" ± 1"
- ALL CONCRETE TO BE PERMANENTLY EXPOSED TO WEATHER SHALL BE AIR ENTRAINED (4.5 FO 7.5%) WITH AN ADMIXTURE THAT CONFORMS TO ASTM C260. MAXIMUM W/C RATIO = 0.45
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 OR ASTM A996, GRADE 60. TOP OF FOOTING ELEVATIONS SHALL BE AS SHOWN ON THE FOUNDATION PLAN. THESE ELEVATIONS ARE A MAXIMUM AND SHALL BE LOWERED AS REQUIRED TO OBTAIN THE
- REQUIRED DESIGN BEARING PRESSURE PER THE GEOTECHNICAL ENGINEER'S SPECIFICATION. REFER TO SCHEDULES AND DETAILS FOR MINMIMUM FOOTING THICKNESSES.

DIVISION 4 - MASONRY

- MASONRY CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR MASONRY STRUCTURES (TMS 602-13)", PUBLISHED BY THE MASONRY SOCIETY.
- HOLLOW LOAD BEARING MASONRY UNITS SHALL CONFORM TO ASTM C90. COMPRESSIVE STRENGTH OF THE BLOCK SHALL BE A MINIMUM 2650 PSI.
- FILL ALL BOND BEAMS AND REINFORCED CELLS SOLIDLY WITH GROUT. GROUT SHALL CONFORM TO ASTM C476 AND SHALL OBTAIN A MINIMUM 28 DAY NET COMPRESSIVE STRENGTH OF 2500 P.S.I. UNDER NO CIRCUMSTANCES SHALL MASONRY MORTAR BE USED IN LIEU OF GROUT. 4
- ALL MORTAR SHALL MEET THE "PROPORTION SPECIFICATION" OF ASTM C-270 AND BE MADE WITH PORTLAND CEMENT/LIME (NON AIR-ENTRAINED). THE USE OF MASONRY CEMENT MORTAR IS STRICTLY PROHIBITED. USE TYPE 'S' FOR WALLS BELOW GRADE AND TYPE 'N' FOR ALL OTHER WALLS. THE MINIMUM 28 DAY NET COMPRESSIVE STRENGTH OF THE MASONRY ASSEMBLY (f
- m) SHALL BE 2000 P.S.I., AS DETERMINED BY THE UNIT STRENGTH METHOD OF ACI 530 1
- PROVIDE STEEL JOIST AND BEAM BEARING PLATES AND OTHER ACCESSORIES AS 2'-8" BELOW ALL BEAM BEARINGS.
- INDICATED. PROVIDE (3) COURSES OF SOLIDLY GROUTED CMU OVER A WIDTH OF HOOK VERTICAL BARS INTO CONTINUOUS BOND BEAMS AT TOP OF WALLS (BELOW JOIST/TRUSS BEARING)

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DIVISION 5 - METALS <u>TRUCTURAL STEEI</u> ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST AISC RECOMMENDATIONS AND CONFORM TO ANSI/AISC 360-10 AND AISC 303-10 INCLUDED IN THE 14TH EDITION OF THE "STEEL CONSTRUCTION MANUAL". STEEL FABRICATORS SHALL BE AN AISC CERTIFIED SHOP AND SHALL SATISFY GENERAL (ALL TRADES) NOTE 1. OTHERWISE SHOP SPECIAL INSPECTIONS WILL BE REQUIRED. UNLESS NOTED OTHERWISE, ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING ASTM SPECIFICATIONS: WIDE FLANGE SECTIONS AND TEES ASTM A992 (50 KSI) STRUCTURAL HSS TUBING A500 Gr.C (50 KSI) STEEL PIPE A500 Gr. C (46 KSI) OTHER ROLLED PLATE/SHAPES A36 (36 KSI) UNLESS NOTED OTHERWISE, BASE PLATE ANCHOR RODS SHALL BE ASTM F1554 (36 4 KSI); USE NONSHRINK GROUT C1107 (8000 PSI). STRUCTURAL STEEL CONNECTIONS SHALL CONSIST OF 3/4" DIAM. HIGH STRENGTH ASTM F-1852 BOLTS AND/OR WELDS WITH E70-XX ELECTRODES. USE SHEAR TYPE CONNECTIONS SELECTED BY THE FABRICATOR FOR THE **FACTORED UNFACTORED**

SHEAR FORCES INDICATED ON PLAN IN ACCORDANCE WITH THE AISC SPECIFICATIONS FOR ALLOWABLE STRESS DESIGN LOAD AND RESISTANCE FACTOR DESIGN, U.N.O. USE 5/16" THICK DOUBLE ANGLE CONNECTIONS, (AS DETAILED IN THE AISC "MANUAL OF STEEL CONSTRUCTION"), U.N.O. ON STRUCTURAL DRAWINGS. UNLESS NOTED OTHERWISE, PROVIDE CONTINUOUS 1/4 FILLET WELDS PER AISC REQUIREMENTS. TYPICAL LINTELS FOR MASONRY OPENINGS SHALL BE AS FOLLOWS, U.N.O. ON PLANS:

L3 1/2 x 3 1/2 x 5/16" ANGLES, EACH 4" WALL WIDTH, 4'-0" OPENINGS OR LESS (8" MINIMUM END BEARING, TYP. EACH END) L5 x 3 1/2 x 5/16" ANGLES, L.L.V., EACH 4" WALL WIDTH, 4'-1" TO 6'-8"

- OPENINGS (8" MINIMUM END BEARING, TYP. EACH END) W8X18 WITH 5/16" PLATE CONTINUOUS (EXTEND PLATE TO END OF BEAM),
- 6'-9" TO 12'-0" CMU OPENINGS. 12" MIN. BR'G. E.E. UNLESS NOTED OTHERWISE. ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE WEATHER, INCLUDING ALL BRICK LINTEL ANGLES AND PLATES, SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153.

COORDINATE ALL ROOF AND FLOOR OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS, FRAME OPENINGS WITH L3x3x1/4" ANGLES TYPICAL U.N.O. CONTRACTOR TO VERIFY UNIT SIZES, WEIGHTS, AND LOCATIONS BEFORE ERECTION. STEEL JOISTS

ALL STEEL JOISTS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH SJI STANDARD SPECIFICATIONS, 2010 EDITION AND DESIGNED FOR THE FOLLOWING: "BEND CHECK" = 200# TOP & BOTTOM CHORD, U.N.O.

JOIST SHOE ROLL OVER (K-LH SERIES JOISTS) = PLF UNLESS NOTED AS AN 'SP' JOIST, THE SNOW DRIFT LOADS INDICATED ON PLAN HAVE BEEN INCLUDED IN THE JOIST SIZE USING THE EQUIVALENT UNIFORM LOAD METHOD. JOIST BRIDGING SHALL CONFORM TO SJI SPECIFICATIONS. PROVIDE DIAGONAL BRIDGING AT ALL BEAMS AND END BAYS. FIELD WELD BRIDGING AT ENDS AND INTERSECTIONS. ALL JOISTS FORTY (40) FEET AND LONGER REQUIRE A ROW OF

- BOLTED CROSS BRIDGING TO BE IN PLACE BEFORE SLACKENING OF HOISTING LINES. a. X-BRIDGING WHERE SHOWN ON PLAN IS IN EXCESS OF THE MINIMUM REQUIRED BY SJI. THIS IS TO ACCOUNT FOR ERECTION SEQUENCING, LIMITING END ANCHORAGE FORCES, MEP COORDINATION, AND FUTURE FLEXIBILITY. BAR JOIST SUPPLIER SHALL NOT OMIT THESE ADDITIONAL X-BRIDGES.
- PROVIDE AN ADDITIONAL ROW OF CONTINUOUS HORIZONTAL BOTTOM CHORD BRIDGING AT THE FIRST PANEL POINT LOCATION AT EACH END OF ALL ROOF JOISTS (TO RESIST WIND UPLIFT). UPLIFT BRIDGING SHALL TERMINATE WITH DIAGONAL BRIDGING AT ALL END BAYS. MAX NET UPLIFT = 15 PSF U.N.O.
- STEEL ROOF DECK SHALL BE 1-1/2" 20 GA. WR TYPE B GALVANIZED G90 PER ASTM A653, U.N.O.
- FLOOR DECK SHALL BE 2" 20 GA. COMPOSITE DECK GALVANIZED G90 PER ASTM A653. U.N.O.
- WELD DECK TO SUPPORTS WITH MINIMUM 5/8 INCH PUDDLE WELDS AT 12" o.c. (36/4) AND PROVIDE No.10 TEK SCREW SIDELAP FASTENERS AT 36" O.C., UNLESS SUPERCEDED BY SPECIFICATION OR A TYPICAL DECK ATTACHMENT DETAIL.

DIVISION 5 - METALS

4.

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2.

- COLD FORM STEEL FRAMING (CFS) DESIGN, FABRICATION, AND ERECTION OF ALL COLD FORMED STEEL FRAMING MEMBERS SHALL CONFORM TO THE "NORTH AMERICAN SPECIFICATION FOR THE
- DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" (AISI S100-12). ALL CFS MEMBERS AND ACCESSORIES SHALL BE FORMED FROM STEEL CONFORMING TO ASTM A1003 WITH A MINIMUM YIELD STRENGTH AS FOLLOWS: 54 mils (16 Ga.) AND HEAVIER MEMBERS Fy= 50 KSI (GRADE ST50H) ; 43 mils (18 Ga.) AND LIGHTER MEMBERS Fy= 33 KSI (GRADE ST33H)
- ALL MEMBERS SHALL BE GALVANIZED WITH A COATING MEETING THE REQUIREMENTS OF ASTM A653. USE G90 OR EQUIVALENT FOR STUDS WITH A BRICK VENEER, G60 FOR ALL OTHER FRAMING MEMBERS AND ACCESSORIES.
- CFS LINTELS SHALL BE UNPUNCHED PROVIDE BRIDGING FOR STUDS AT A MAXIMUM SPACING NOT TO EXCEED 4'-0" AND PER MFR. REQUIRMENTS FOR JOISTS AND RAFTERS. ALL BRIDGING SHALL BE INSTALLED PRIOR TO THE ADDITION OF ANY LOADING. CONNECT BRIDGING TO EACH MEMBER BY WELDING, CLIP ANGLES OR OTHER APPROVED METHOD PER THE MANUFACTURER'S REQUIREMENTS.

S0.1	STRUCTURAL NOTES
S1.1	FOUNDATION PLAN & SECTIONS
S1.2	TYPICAL FOUNDATION DETAILS
S2.1	MEZZANINE FRAMING PLAN & SECTIONS
S3.1	ROOF FRAMING PLAN & SECTIONS
S4.1	MASONRY DETAILS

SHELL +MEYER ASSOCIATES INC STRUCTURAL ENGINEERS 2202 S PATTERSON BLVD DAYTON, OH 45409.1930 рн.937.298.4631 EMAIL@SHELLANDMEYER.COM

ITY GOVERNMENT JILDING INFLL 20000H GARBER DRIVE, IPP OTV, OHIO 4537
TIPP C BU
ISSUANCES/REVISIONS BID DOCUMENTS 02/02/2023 BID DOCUMENTS 02/02/2023 PROJECT DRAWN BY: VUMBER: DRAWN BY: CHECKED BY: PR 22094.00 TE PR

SHEET NUMBER:

S0.1

NTED ON: 2/3/2023 8:01:19 AM

TYPICAL FOOTING STEP DETAILS

SCALE: NTS

(F7)

F7a - Footing Step Typical

F2b - Typ Corner Bar Detail - 1 Layer

MINIMUM LAP SPLICE SCHEDULE

BAR SIZE	LAP LENGTH ^{1,2}
#3	24"
#4	32"
#5	40"
#6	48"
1 - Increase Lap Length by Reinforcing or Lightweight 2 - Based on minimum fc	33% for Epoxy Coated Concrete = 4000 psi

CASE	LOCATION	BAR SIZE	COVER (in.)		
A	Concrete cast against and permanently exposed to earth ¹	ALL SIZES	3"		
D	Concrete expected to earth or weather	#5 & Smaller	1 1/2"		
B Concrete exposed to earth or weather		#6 thru #18	2"		
С	Concrete NOT exposed to weather or in contact with	earth			
	Walls, Slabs (0, 1, or 1.5 hr) #11 & Smaller 3/				
1 - All for reinforc	oundations cast against earth without using formwork e	shall use CASE 'A' fo	or		

(\mathbf{c})	CONCRETE REINFORCING COVER
	SCALE: NTS

(INTED ON: 2/3/2023 8:01:23 AM

С	MU LINTEL	SCH	ED	ULE		
MARK	WIDTH	HEIGHT	MIN. BRG.	BOTT. REINF.	TOP REINF.	SHEAR REINF.
ML-8	MATCH WALL WIDTH	8"	8"	2-#5	-	NOT REQ'D.
ML-24	MATCH WALL WIDTH	24"	8"	2-#6	2-#4	NOT REQ'D.

REINFORCING TO EXTEND MIN. LAP SPLICE LENGTH BEYOND OPENING
 SEE PLAN FOR MASONRY OPENING

BEA	ARING PL	ATE	SCHE	DULE
MARK	SIZE	STUD DIA.	STUD LENGTH	STUD QUANTITY
BP1	1/2"x5"x10"	1/2"	0'-8"	2
BP2	1/2"x8 1/2"x10"	1/2"	0'-8"	2
BP3	3/4"x5"x12"	1/2"	0'-8"	2
BP4	3/4"x7 1/2"x24"	1/2"	0'-8"	3

BEARING PLATES GREATER THAN 1/2" PROVIDE (2)#5 IN CMU WALL FULL HGT. GROUT IN SOLID. USE (3) #5 AT BP4

- BLOCKS (SPLIT FACE, etc.) MAY REQUIRE ADDITIONAL JOINTS.
- ALIGNED, UNLESS SPECIFICALLY NOTED. ELEVATIONS FOR LOCATIONS THAT SUPERSEDE THIS DETAIL.
- BFARING
- FOR ADDITIONAL INFORMATION.

N.T.S.

NON LOAD BEARING PARTITIONS - (INTERIOR WALLS U.N.O.)

1. REFER TO SCHEDULE BELOW FOR NON-LOAD BEARING WALL REINFORCING:

- MINIMUM LATERAL LOAD = 5 P.S.F. PER OBC 1607.13

MAX. HT.	SPACING OF T/WALL BRACES	6" CMU	8" CMU	10" CMU	12" CMU
15'-0"	56" o.c.	#4 AT 96" o.c.	#4 AT 120" o.c.	#4 AT 120" o.c.	#4 AT 120" o.c.
17'-0"	48" o.c.	#4 AT 72" o.c.	#4 AT 120" o.c.	#4 AT 120" o.c.	#4 AT 120" o.c.
20'-0"	40" o.c.	NP	#4 AT 120" o.c.	#4 AT 120" o.c.	#4 AT 120" o.c.
25'-0"	32" o.c.	NP	#4 AT 72" o.c.	#4 AT 120" o.c.	#4 AT 120" o.c.
30'-0"	24" o.c.	NP	#4 AT 56" o.c.	#4 AT 72" o.c.	#4 AT 120" o.c.
35'-0"	SEE DETAILS	NP	NP	NP	#4 AT 72" o.c.
NP = NOT	PERMITTED				

рн.937.298.4631

EMAIL@SHELLANDMEYER.COM

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2 - GARMA	
72 - GARNAA	
772 - GARMAA	
CD3 - GARMA	
2073 - GABMAA	
2072 - GARNAA	
- 2072 - GARNAA	
T 2023 - GARMAA	
AT 2022 GABMA	
HT 2023 GARMAN	
CHT 202 - GARMA	
GHT 2022 - GABNAA	
IGHT 2022 GARNA	
PIGHT 202 - GARMA	
VRIGHT 202 - GARMA	
VRIGHT 202 - GARMA	
DVRIGHT 2022 - GARMAN	
APVRIGHT 202 - GARMA	
ODVRIGHT 202 - GARMA	
CODVRIGHT 202 - GARMA	
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P CODVRIGHT 202 - GARMA	
CODVRIGHT 2022 GARMA	

		F	
	ABBREVIATIONS USED ON THE	F	DEGREES FAHRENHEIT
	CONTRACT DOCUMENTS,	FCO	FLOOR CLEAN OUT
	TO THOSE LISTED BELOW.	FDV	FIRE DEPARTMENT VALVE
- ΓΗΔΒΔΓΤΕ	RS	FHC	FIRE HOSE CABINET
&	AND	FL	FLOOR
Ø	DIAMETER/ROUND	FLG	FLANGE
٨		FO	FUEL OIL
A	AIR	FOR	FUEL OIL RETURN
AB	ABOVE BASE	FOS	FUEL OIL SUPPLY
ABV		FPM	FEET PER MINUTE
ACOUS	ACOUSTICAL	FRP	FIBERGLASS REINFORCED PIP
AD	AREA DRAIN	FS FT	FULL SIZE/FLOOR SINK
ADD	ADDENDUM	FTG	FOOTING
ADDL AFF	ADDITIONAL ABOVE FINISHED FLOOR	FTR	FIN TUBE RADIATION
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	FUT	FUTURE
AG	ABOVE GROUND	G	GAGE/GAUGE
ALT	ALTERNATE	GAL	GALLON
APPROX	APPROXIMATE	GALV	GALVANIZED
ARCH	ARCHITECT/ARCHITECTURAL	GC	GENERAL CONTRACTOR
AUTO		GEN	GENERAL
AV AW	ACID RESISTANT VENT	GPM	GALLONS PER MINUTE
	INGIO REGITAINI WAGIL	GR	GRADE
В		GW	GREASE WASTE
BFF	BELOW FINISHED FLOOR	Н	
BLW	BELOW	НВ	HOSE BIB
во	BY OTHER	HD HOR7	
BOT	BOTTOM	HP	HORSE POWER/HIGH PRESSL
BSMT BTU	BASEMENT BRITISH THERMAL LINITS	HTG	HEATING
BTUH	BRITISH THERMAL UNITS PER	HTR	HEATER
	HOUR	HW	HOT WATER HYDRANT
BTWN	BETWEEN		
		ID	INDIRECT
САР	CATCH BASIN	IN	INCH
CCW	COUNTER CLOCKWISE	INL	
CFCV	CONSTANT FLOW CONTROL	INT	INTERIOR
CFM	CUBIC FEET PER MINUTE	INV	INVERT
CHW	CIRCULATING HOT WATER	INWG	INCHES WATER GAUGE
		J	
CO	CLEAN OUT	JST SPC	JOIST SPACE
COL	COLUMN	JT	JOINT
		I	
	CONDENSATE	LAB	LABORATORY
CONF	CONFERENCE	LAT	LEAVING AIR TEMPERATURE
CONN	CONNECT		
		LEYITK	LINEAL FOOT
CONTR	CONTRACT/CONTRACTOR	LP	LOW PRESSURE
COORD	COORDINATE	LPG	LIQUEFIED PERTOLEUM GAS
CTR	CENTER	LR I VR	LIQUID REFRIGERANT
		LWT	LEAVING WATER TEMPERATI
CW	COLD WATER		
CW	CLOCKWISE	M M/A	
D		MAN	MANUAL
<u>-</u> D	DEGREE	MATL	MATERIAL
DB	DRY BULB	MAV	MANUAL AIR VENT
DET			
וט DIA	DEIONIZED WATER	MBH	ONE THOUSAND BTU PER HO
DISCH	DISCHARGE	MCF	ONE THOUSAND CUBIC FEET
DIV	DIVISION	MCW	MAKE-UP COLD WATER
DMPR	DAMPER	MECH	MECHANICAI
DW	DISTILLED WATER	MFR	MANUFACTURER
DWG	DRAWING	MH	MANHOLE
		MIN	
E F/A	FXHALIST AIR	MTR	MOTOR
EA	EACH	MU/A	MAKE-UP/AIR
EAT	ENTERING AIR TEMPERATURE		
	ELBOW	N	NECK
elec ElfV		NC	NOISE CRITERIA/NORMALLY
EP	EXPLOSION PROOF		CLOSED
EQ	EQUAL	NIC	
EQUIP		NOM	NOMINAL
EVVL	ELECTRIC WATER COOLER	NTS	NOT TO SCALE
EWT			
EWT	TEMPERATURE		

	FUEL OIL	PD	PRESSURE DROP
	FUEL OIL RETURN	PIV	POST INDICATOR VALVE
		PLBG	PLUMBING
	FUEL OIL VALVE	PR	
	FIBERGLASS REINFORCED PIPE	PRESS	PRESSURE
	FULL SIZE/FLOOR SINK	PRIM	PRIMARY
	FOOT/FEET	PRV	PRESSURE REDUCING VAL
	FOOTING	PSI	POUNDS PER SQUARE INCH
		PSIG	POUNDS PER SQUARE INCH
	FUTURE	PW	POTABLE WATER
		PWR	POWER
	GAGE/GAUGE		
	GALLON	R	
	GALVANIZED	R R/A	DUCT RISER
	GENERAL CONTRACTOR	RCP	RADIANT CEILING PANEI
	GENERAL	RD	ROOF DRAIN
	GALLONS PER MINUTE	REC	RECESSED
	GRADE	RED	REDUCER
	GREASE WASTE	REFR	REFRIGERATION
		REQD	
	HOSE BIB	RH	RELATIVE HUMIDITY
	HEAD	RL/A	RELIEF AIR
	HORIZONTAL	RM	ROOM
	HORSE POWER/HIGH PRESSURE	RPM	REVOLUTIONS PER MINUTE
	HEATING	RW	RAIN WATER
	HEATER	ς	
	HYDRANT	S/A	SUPPLY AIR
		SAN	SANITARY
_		SCHED	SCHEDULE
	INDIRECT	SD	
		SHT	SHEET
	INTERIOR	SIM	SIMILAR
	INVERT	SLV	SLEEVE
	INCHES WATER GAUGE	SM	SURFACE MOUNT
		SP	STANDPIPE/STATIC PRESSURE
		SPEC	STATIC PRESSURE STATION
	JOINT	SQ	SQUARE
		SR	SUCTION REFRIGERANT
		SS	STAINLESS STEEL
	LABORATORY	SSD	SOIL SUBDRAIN
	LEAVING AIR TEMPERATURE	STM	STANDARD STEAM
	POUNDS PER HOUR	STRUCT	STRUCTURAL
	LINEAL FOOT	SUCT	SUCTION
	LOW PRESSURE	SUSP	SUSPENDED
	LIQUEFIED PERTOLEUM GAS	-	
		I Гт	THERMOSTAT
	LOUVER	ТСР	TEMPERATURE CONTROL PANEL
		TD	TEMPERATURE DROP
		TDR	TRENCH DRAIN
	MIXED AIR	TEFC	TOTALLY ENCLOSED FAN
	MANUAL	темр	
		ТҮР	TYPICAL
	MAXIMUM		
	MOTORIZED BYPASS DAMPER	U	i
	ONE THOUSAND BTU PER HOUR	UFD	UNDER FLOOR DUCT
	ONE THOUSAND CUBIC FEET	00	
	MAKE-UP COLD WATER	V	
	MECHANICAL	V	VENT
	MANUFACTURER	VAV	VARIABLE AIR VOLUME
	MANHOLE	VEL	VELOCITY
_	MOTORIZED BYPASS DAMPER		
	MISCELLANEOUS		
	MOTOR MAKE-LID/AIR	VTR	VENT THROUGH ROOF
		W	
	NECK	W	WASTE
	NOISE CRITERIA/NORMALLY	WCO WB	
	NOT IN CONTRACT	WH	WALL HYDRANT
	NUMBER/NORMALLY OPEN	L	
	NOMINAL		
	NOT TO SCALE		
			(
-			

OXYGEN

OUTSIDE AIR

ON CENTER

OVERFLOW

OVERFLOW ROOF DDRAIN

OPENING

0/A

IOF

OPNG

ORD

P

cwv	
CA	_
	—СW— -н-сw–
	-S-CW-
	-F-CW-
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PD	
SHWR	
SHWS	
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2" DOM. WM DOMESTIC WATER M	1ETER
2" BALANCING BALANCING VALVE	
	E
2" CHECK CHECK VALVE	-
2" TMV 	E
	ייי א חר
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ΓLUOK UKAIN ♥── 4" FU ◄── 1 FLOOR DRAIN ■── 4" FD-3₽ ◀──'	יזאד (SE P" - INF'
FLOOR SINK = 3" FS-3	CONNEC
HUB DRAIN • 3" FD-13	יואַדוופּב
5 WTO	ROOF A
<u>PLUMBING FIXTURE TAGS</u> TYPE (SEE SCHEDULE)	BY DRA
WATER CLOSET -	FIXTUR
WALL HUNG - ADA - 17" WC-1	,
4" WCO	 }
2 PLUMBING AND PIPIN P1.1 NTS	IG SYI
$\bigwedge_{\mathbf{A}}$	REVI
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<i>5/7777</i> ,	ITFM
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<u>1/8" / 12" S</u>	
INVERT: -1	0' - 1"
	(E
3 P1.1 GENERAL PLUMBING S NTS	SYMB

FXT

ABBREVIATIONS

EXTERIOR

			#	KEYNOTE DESCRIPTION
	FIRST FLOOR PLAN ROOM INDEX - UNIT A		1	CONNECT TO EXISTING DOMESTIC WATER SYSTEM IN THIS APPROXIMATE LOCATION
ROOM			2	CONNECT TO EXISTING GAS LINE IN THIS APPROXIMATE LOCATION.
NUMBER	ROOM NAME	AREA	3	EXISTING CLEANOUT LOCATED IN THIS APPROXIMATE LOCATION. REWORK PIPE AND
A101	CORRIDOR	456 SF		PROVIDE NEW CLEANOUT IN FINISHED FLOOR.
A102	STORAGE	860 SF	4	EXISTING DOWNSPOUT AND FIRST PORTION OF EXISTING UNDERGROUND PIPING TO
A103	RESTROOM	54 SF		BE REMOVED AND DISPOSED OF OFF SITE. EXISTING PIPE TO BE PREPARED FOR
A104	SERVER ROOM	506 SF		RECONNECTION TO NEW ROOF DRAIN PIPING.
A105	IT OFFICE	432 SF	5	EXISTING DOWNSPOUT AND FIRST PORTION OF EXISTING UNDERGROUND PIPING TO
A106	CORRIDOR	79 SF		BE REMOVED AND DISPOSED OF OFF SITE. EXISTING PIPE TO BE CAPPED AND
A107	OFFICE	161 SF	6	ABANDONED IN PLACE.
A108	OFFICE	166 SF	6	APPROXIMATE LOCATION.
			7	EXISTING PIPE LOCATED IN THIS APPROXIMATE LOCATION TO BE VERIFIED. MODIFY A NEEDED AND CONCEAL WITHIN NEW CHASE.
			8	ROUTE DOMESTIC WATER LINES TIGHT TO STRUCTURE TO AVOID LIFT OPENING.

					••	••••										
RIM				FLOW I	IXTURE		FLUSH FIXTURE									
	ТҮРЕ	MOTION SENSOR CONTROL	WATER FLOW	COLD WATER TEMP.	HOT WATER TEMP.	MAX. MIXED WATER TEMP.	VOL. PER FLUSH	WASTE ROUGH-IN PIPE SIZE	INDIRECT WASTE PIPE SIZE	VENT PIPE SIZE	COLD WATER ROUGH-IN PIPE SIZE	HOT WATE ROUGH-IN P SIZE	R IPE			
S	MANUAL - DUAL LEVER HANDLES	No	2.50 GPM	40 °F	120 °F	105 °F			3″		3/4"	3/4"	FLOOR SER MOP HANC CHECK STO	VICE SINK: 24"x24"x12" BASIN, PI SER, AND STAINLESS STEEL WALL O PS AND ATMOSPHERIC VACUUM	RECAST TERRAZZO E GUARDS. FAUCET: BREAKER SPOUT.	Basin Wal
	MANUAL	No	0.35 GPM	40 °F	120 °F	105 °F			2"		1/2"	1/2"	WALL HUN GRID DRAII	G LAVATORY WITH BACKSPLASH, N, LOOSE KEY ANGLE STOPS AND S	FAUCET HOLES ON A	4" CE 5 WA
1-1.6	MANUAL	No		40 °F		40 °F	1.6 gal	4″		2″	1″		ELONGATE	D WALL HUNG WATER CLOSET, 1-	1/2" TOP SPUD, WI	TH CI
														MATERIAL DESCRI	STORM	
N								MARK	DESC	RIPTION	MANU	JFACTURER	MODEL	DRAIN BODY	STRAINER	
E, REVE	RSIBLE CLAMPIN	IG COLLAR WITH PR	IMARY					RD-5	DOWNSP	OUT NOZZ	'LE	ZURN	ZANB199-NH3	NICKEL BRONZE		
ICKEL F	BRONZE STRAINI	ER, AND NO HUB OL	JTLET.					RD-6	DOWNSP	OUT NOZZ	'LE	ZURN	ZANB199-NH4	NICKEL BRONZE		
								RD-1	PRIMARY	ROOF DRA	AIN	ZURN	Z100F	EPOXY COATED CAST IRON	ALUMINUM	
								RD-2	SECONDAR	Y ROOF DI	RAIN	ZURN	Z100F	EPOXY COATED CAST IRON	ALUMINUM	
								RD-3	PRIMARY	ROOF DRA	AIN	ZURN	Z100F	EPOXY COATED CAST IRON	ALUMINUM	
								RD-4	SECONDAR	Y ROOF DI	RAIN	ZURN	Z100F	EPOXY COATED CAST IRON	ALUMINUM	

	ANDREW P. HUELSMAN E-78372 MEGRETERED ANDREW P. HUELSMAN LICENSE #E-78372 EXPIRATION DATE: 12/31/2023
VENT RTU-A101 93 GFH	MILLER MILLER MISTER, OHIO INDIANA MISTER, OHIO INDIANA Creategm.com
2° TO EXISTING EQUIPMENT 300 CFH	TIPP CITY GOVERNMENT BUILDING INFILL Isosoth Garber Dink, Tipp City, Ohd
SPECIFICATION ASIN, 3" DRAIN BODY WITH STAINLESS STELE STRAINER, 3" DRAIN AND CAST IRON TRAP, VINYL BUMPER GUARD, HOSE, HOSE BRACKET, VALL MOUNTED, VANDAL RESISTANT COLOR CODED LEVER HANDELS, 6" SPOUT, WALL BRACE, PAIL HOOK, INTEGRAL SERVICE STOPS, "CENTERS. DECK-MOUNTED FAUCET WITH VANDAL RESISTANT SPRAY, EXTERNAL ASSE 1070 COMPLIANT THERMOSTATIC MIXING VALVE, WATER AND WASTE WITH ADA INSULATION KIT. MOUNT AT ADA COMPLIANT HEIGHT. H CHURCH 29SCT ELONGATED OPEN FRONT SEAT, CARRIER, UITRA LOW CONSUMPTION. INSTALL AT ADA COMPLIANT HEIGHT. PRAIN SCHEDULE PIPE DOWNSPOUT NOZZLE FOR SECONDARY ROOF DRAIN, NO HUB CONNECTION, REMOVEABLE STAINLESS STELE SCREEN. DOWNSPOUT NOZZLE FOR SECONDARY ROOF DRAIN, NO HUB CONNECTION, REMOVEABLE STAINLESS STELE SCREEN. 3" LARGE SUMP ROOF DRAIN WITH FLASHING CLAM, SELF-LOCKING DOME, 3" INTERNAL WATER DRAIN, AND NO HUB OUTLET. 4" LARGE SUMP ROOF DRAIN WITH FLASHING CLAM, SELF-LOCKING DOME, 3" INTERNAL WATER DRAIN, AND NO HUB OUTLET. 4" LARGE SUMP ROOF DRAIN WITH FLASHING CLAM, SELF-LOCKING DOME, 3" INTERNAL WATER DRAIN, AND NO HUB OUTLET. 4" LARGE SUMP ROOF DRAIN WITH FLASHING CLAM, SELF-LOCKING DOME, 3" INTERNAL WATER DRAIN, AND NO HUB OUTLET. 4" LARGE SUMP ROOF DRAIN WITH FLASHING CLAM, SELF-LOCKING DOME, 3" INTERNAL WATER DRAIN, AND NO HUB OUTLET. 4" LARGE SUMP ROOF DRAIN WITH FLASHING CLAM, SELF-LOCKING DOME, 3" INTERNAL WATER DRAIN, AND NO HUB OUTLET. 4" LARGE SUMP ROOF DRAIN WITH FLASHING CLAM, SELF-LOCKING DOME, 3" INTERNAL WATER DRAIN, AND NO HUB OUTLET. 4" LARGE SUMP ROOF DRAIN WITH FLASHING CLAM, SELF-LOCKING DOME, 3" INTERNAL WATER DRAIN, AND NO HUB OUTLET. 4" LARGE SUMP ROOF DRAIN WITH FLASHING CLAM, SELF-LOCKING DOME, 3" INTERNAL WATER DRAIN, AND NO HUB OUTLET. 4" LARGE SUMP ROOF DRAIN WITH FLASHING CLAM, SELF-LOCKING DOME, 3" INTERNAL WATER DRAIN, AND NO HUB OUTLET. 4" LARGE SUMP ROOF DRAIN WITH FLASHING CLAM, SELF-LOCKING DOME, 3" INTERNAL WATER DRAIN, AND NO HUB OUTLET. 4" LARGE SUMP ROOF DRAIN WITH FLASHING CLAM, SELF-LOCKING DOME, 3" INTERNAL WATER DRAIN, AND NO HU	ISSUANCES/REVISIONS BID DOCUMENTS 02/02/2023

IRE PROTECTION GENERAL NOTES

- PROVIDE A COMPLETE WET TYPE FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE FLOOR PLAN AND CEILING TYPES INCLUDING MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. THE SYSTEM SHALL BE INSTALLED ACCORDING TO DIVISION 21 SPECIFICATIONS AND RECOMMENDATIONS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY MUTUAL.
- SPRINKLER PIPING SERVING EXPOSED AREAS SHALL BE ROUTED AS HIGH AS POSSIBLE. SPRINKLER PIPING SHALL BE ROUTED ABOVE THE BOTTOM CHORD OF THE ROOF TRUSSES. COORDINATE ROUTING OF SPRINKLER PIPING WITH BUILDING CONSTRUCTION, DUCTWORK, LIGHTING, AND ALL OTHER UTILITIES.
- PROVIDE BOLT OR SCREW FASTENED WIRE GUARDS FOR ALL SPRINKLER PIPES IN THE GYMNASIUMS AND MECHANICAL ROOMS.

D COORDINATE THE LOCATION OF SPRINKLER HEADS AND PIPING WITH BUILDING CONSTRUCTION, DUCTWORK AND MECHANICAL PIPING IN MEZZANINES. ROUTE SPRINKLER PIPING ABOVE THE BOTTOM CHORD OF THE ROOF TRUSSES IN THE

FIRE PROTECTION GENERAL NOTES

- E FIRE PROTECTION SPRINKLER MAINS AND ZONES SHALL BE ROUTED AS DENOTED ON DRAWINGS. ANY ALTERNATE ROUTING MUST BE APPROVED BY THE ARCHITECT/ENGINEER. THIS CONTRACTOR SHALL DETERMINE THE ACTUAL PIPE SIZING AND ROUTING REQUIRED AND COORDINATE WORK WITH ALL OTHER TRADES TO AVOID
- CONFLICTS. F THE SPRINKLER SYSTEM SHALL BE DESIGNED BASED UPON ACTUAL WATER FLOW TEST DATA OBTAINED AT OR NEAR THE JOB SITE.
- G DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH FIRE SPRINKLER SYSTEM.
- H ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING SYSTEM, UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A

FIRE PROTECTION GENERAL NOTES

- AN INSPECTOR'S TEST CONNECTION SHALL BE PROVIDED FOR EACH FIRE SPRINKLER ZONE. THIS CONTRACTOR SHALL PROVIDE FIXED PIPING FROM THE TEST CONNECTION TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE TEST. EXTERIOR DISCHARGE OF THE TEST CONNECTION SHALL BE PERMITTED ONLY BY SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER.
- J SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS.
- K ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, OR SIMILAR EQUIPMENT. SPRINKLER MAINS SHALL NOT RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLER HEADS IN THESE ROOMS SHALL BE SERVED BY A DEDICATED BRANCH LINE FOR EACH ROOM.
- L PROVIDE A COMPLETE LIGHT HAZARD WET-TYPE SPRINKLER SYSTEM FOR ALL FIRE ZONES AS SHOWN ON THE DRAWINGS. PROVIDE ORDINARY HAZARD IN SPACE WHERE REQUIRED. INSTALL SPRINKLER SYSTEM PER NFPA 13, STATE AND LOCAL FIRE MARSHALL AND DIVISION 21 OF THE SPECIFICATIONS.

FIRE PROTECTION GENERAL NOTES

- M PROVIDE ALTERATIONS TO THE EXISTING FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE NEW FLOOR PLAN AND NEW CEILING TYPES. PROVIDE A COMPLETE WET TYPE SYSTEM INCLUDING NEW MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. REUSE EXISTING SYSTEM EQUIPMENT WHERE APPLICABLE. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AND AS PER REQUIREMENTS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY MUTUAL.
- N THE BUILDINGS COMPLETE OPERATIONAL FIRE PROTECTION SYSTEMS SHALL REMAIN IN PLACE. THIS CONTRACTOR SHALL REPAIR ANY DAMAGE TO THIS SYSTEM CREATED BY THE REMOVAL OF ANY OTHER MECHANICAL SYSTEMS OR COMPONENTS.
- O THIS CONTRACTOR SHALL COORDINATE PHASING OF SPRINKLER WORK WITH ALL OTHER CONTRACTORS PRIOR TO STARTING WORK.
- P THIS CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS BASED UPON THE
- OWNER.
- VARIANCE BE PROVIDED.

ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE

R PROVIDE AUXILIARY DRAIN VALVES AS REQUIRED BY NFPA. AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALLONS ARE TRAPPED, THIS CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE DRAIN. WHEN LESS THAN 5 GALLONS ARE TRAPPED, A HOSE BIB SHALL BE PROVIDED AT THE DRAIN VALVE.

SYSTEMS. ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER WILL A

11 SETATORS & SABANANN ANN ANN STATES & STATES

α Ø	AND ROUND	ID IN	INDIRECT INCH
Ø A	AIR	INL	INLET
AB ABV	ABOVE BASE ABOVE	INSUL INT	INSULATION INTERIOR
AC	AIR CONDITIONING	INV	INVERT
ACOUS AD	ACOUSTICAL AREA DRAIN	JST SPC	JOIST SPACE
ADD ADDI	ADDENDUM ADDITIONAL	JT LAB	JOINT LABORATORY
AFF	ABOVE FINISHED FLOOR	LB	POUND
AFUE AG	ANNUAL FUEL UTILIZATION EFFICIENCY ABOVE GROUND	LB/HR LAT	POUNDS PER HOUR LEAVING AIR TEMPERATURE
ALT	ALTERNATE	LF	
ap Approx	ACCESS PANEL APPROXIMATE	lp Lpg	LOW PRESSURE LIQUEFIED PETROLEUM GAS
ARCH	ARCHITECT/ARCHITECTURAL	LR	
AV AW	ACID RESISTANT VENT	LWK	LOUVER LEAVING WATER TEMPERATURE
AUTO BEE	AUTOMATIC BELOW FINISHED FLOOR	M/A MAN	MIXED AIR MANUAI
BLDG	BUILDING	MATL	MATERIAL
BLW BO	BELOW BY OTHER	MAV MAX	MANUAL AIR VENT MAXIMUM
BOT	BOTTOM	MBD	MOTORIZED BYPASS DAMPER
BTU	BASEMENT BRITISH THERMAL UNITS	MCF	ONE THOUSAND BTO PER HOUR
BTUH	BRITISH THERMAL UNITS PER HOUR	MCW	MAKE-UP COLD WATER
CAP	CAPACITY	MECH	MECHANICAL
CB CCW	CATCH BASIN	MFR MH	MANUFACTURER
CFCV	CONSTANT FLOW CONTROL VALVE	MIN	MINIMUM
CFM CHW	CUBIC FEET PER MINUTE	MISC MTR	MISCELLANEOUS
CI	CAST IRON	MU/A	MAKE-UP/AIR
CLG CLG	CEILING COOLING	N NC	NECK NOISE CRITERIA
CO	CLEAN OUT	NC	NORMALLY CLOSED
lol Comb	COLUMN COMBINATION	NIC NO	NUT IN CONTRACT NUMBER
		NO	
COND	CONFERENCE	NUM	NOT TO SCALE
CONN		0 0/4	OXYGEN OLITSIDE AIR
CONT	CONTINUE/CONTINUATION	00	ON CENTER
CONTR COORD	CONTRACT/CONTRACTOR COORDINATE	OF OPNG	OVERFLOW OPENING
CTR	CENTER	ORD	OVERFLOW ROOF DRAIN
CUFT CV	CUBIC FEET CHECK VALVE	PD PIV	PRESSURE DROP POST INDICATOR VALVE
CW	COLD WATER	PLBG	PLUMBING
D	DEGREE	PREL	PRELIMINARY
DB DET	DRY BULB	PRESS	PRESSURE
DIA	DIAMETER	PRV	PRESSURE REDUCING VALVE
DIAG DISCH	DIAGONAL DISCHARGE	PSI PSIG	POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH GAUG
DIV		PW	POTABLE WATER
di DMPR	DEIONIZED WATER DAMPER	PWR R	POWER DUCT RISER
DN	DOWN	R/A	RETURN AIR
DWG	DISTILLED WATER	RD	ROOF DRAIN
EA fat	EACH ENTERING AIR TEMPERATURE	REC RED	RECESSED
EL	ELBOW	REFR	REFRIGERATION
ELEC ELEV	ELECTRICAL	RH REQD	RELATIVE HUMIDITY REQUIRED
EP	EXPLOSION PROOF	REV	REVERSE
eq Equip	EQUAL	RL/A RM	ROOM
EWC	ELECTRIC WATER COOLER	RPM BW/	REVOLUTIONS PER MINUTE
E/A	EXHAUST AIR	SF	SQUARE FOOT
EAH FXIST	EXHAUST HOOD	S/A San	SUPPLY AIR SANITARY
EXP	EXPANSION	SCHED	SCHEDULE
EXPJT EXT	EXPANSION JOINT EXTERIOR	SECT SF	SECTION SQUARE FOOT
F		SD	SMOKE DAMPER
rcu FD	FLOOR CLEAN OUT	SH1 SIM	SIMILAR
FD FDV	FIRE DAMPER	SLV	SLEEVE SLIBEACE MOUNT
FHC	FIRE HOSE CABINET	SP	STANDPIPE
FL FLEX	FLOOR FLEXIBLE	SP SPFC	STATIC PRESSURE SPECIFICATION
FLG	FLANGE	SPS	STATIC PRESSURE STATION
FU FOV	FUEL OIL FUEL OIL VENT	sų SR	SQUAKE SUCTION REFRIGERANT
FOR		SSD	
rus FPM	FUEL OIL SUPPLY	ss STD	SANDARD
FRP FS	FIBERGLASS REINFORCED PIPE	STM	STEAM
FS	FLOOR SINK	SUCT	SUCTION
ft Ftg	FOOT/FEET FOOTING	SUSP T	SUSPENDED THERMOSTAT
FTR	FIN TUBE RADIATION	TCP	TEMPERATURE CONTROL PANEL
FUI GA	FUTURE GAGE/GAUGE	ID TDR	IEMIPERATURE DROP TRENCH DRAIN
GAL		TEFC	TOTALLY ENCLOSED FAN COOLED
GALV	GENERAL CONTRACTOR	TYP	TYPICAL
GEN GENU	GENERATOR GENERAL	UFD	
GPH	GALLONS PER MINUTE	VAC	VACUUM
GR GW	GRADE GREASE WASTE	V \/ Δ \/	VENT Variari e air volume
HB	HOSE BIB	VEL	VELOCITY
HD HOR7	HEAD HORIZONTAI	VENT VFRT	VENTILATION VERTICAL
HP	HORSE POWER	VOL	VOLUME
HP HTG	HIGH PRESSURE HEATING	VTR W	VENT THROUGH ROOF WASTE
HTR	HEATER	WB	WET BULB
111.47		101111	MULLIEAN CHIT
HW HYD	HOT WATER HYDRANT	WH	WALL HYDRANT

RINTED ON: 2/22/2023 4:21:

1 MEC M1.1 NTS

	FIRST FLOOR PLAN ROOM INDEX - UNIT A								
ROOM									
NUMBER	ROOM NAME	AREA							
A101	CORRIDOR	456 SF							
A102	STORAGE	860 SF							
A103	RESTROOM	54 SF							
A104	SERVER ROOM	506 SF							
A105	IT OFFICE	432 SF							
A106	CORRIDOR	79 SF							
A107	OFFICE	161 SF							
A108	OFFICE	166 SF							

- INSTALLED WITHIN (2) FEET OF THE CEILING FOR MAINTENANCE PURPOSES. DO NOT
- ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO THE FINAL

24" 14" 1/8" 3/4" 35.0°

RG

RG

LOUVERED GRILLE

LOUVERED GRILLE

SD LOUVERED DOUBLE DEFLECTION GRILLE

TITUS

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350FL 2 ---

300FS 6 ----

350FL 2 ----

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		A	SHRAE 62.1		ION RATE P	ROCEDURE	SUMMARY			
ROOM IDENTITY	LOCATION	Occupancy		Selected Supply	Number of	Outdoor Airflow Rate Per Person,	Outdoor Airflow Rate Per Unit	Zone Air Distribution	Breathing Zone Outdoor	Required Outdoor Air Intake Flow
NO.	NAME	Category	Area, Az	Airflow	People, Pz	Rp	Area, Ra	Effectiveness, Ez	Airflow, Voz	Vot
A104	SERVER ROOM	Non-Occupiable	506 SF		0					
Default: 1	-		506 SF	0 CFM	0				0 CFM	0 CFM
A101	CORRIDOR	Corridors	456 SF	250 CFM	0	0.0 CFM	0.06 CFM/SF	0.8	27 CFM	34 CFM
A102	STORAGE	Non-Occupiable	860 SF	400 CFM	0			0.8		
A103	RESTROOM	Toilets (public)	54 SF	0 CFM	0			0.8		
A105	IT OFFICE	Office space	432 SF	450 CFM	2	5.0 CFM	0.06 CFM/SF	0.8	36 CFM	45 CFM
A106	CORRIDOR	Corridors	79 SF	75 CFM	0	0.0 CFM	0.06 CFM/SF	0.8	5 CFM	6 CFM
A201	STORAGE	Non-Occupiable	884 SF	400 CFM	0			0.8		
RTU-A101: 6			2764 SF	1575 CFM	2			·	68 CFM	85 CFM

CALCULATIONS BASED ON ASHRAE 62.1-2016

ELECTRIC CABINET HEATER SCHEDULE												
					ELECTRIC HEATING COIL							
MARK	MANUFACTURER	MODEL NO.	TYPE	AIRFLOW	HEATING CAP.	EAT(db)	STAGES	FLA	VOLT	PH	REMARKS	
CH-A101	RAYWALL	T33D04203	CEILING	250 CFM	4 kW	60.0 °F	2	13 A	208 V	3	FRONT INLET & FRONT OUTLET, UNIT MOUNTED D	
			RECESSED								STRUCTURE, UNIT TO BE THE COLOR WHITE	

HEDUL	E							
					CONTROL	DISCONNECT		
	ROOF	UNIT			SPEED			
ONES	CURB	WEIGHT	VOLT	PH	CONTROLLER	TYPE	ACCESSORIES	REMARKS
3	Yes	22 lb	120 V	1	YES	YES	BACKDRAFT DAMPER, BIRDSCREEN	AUTOMATIC OPERATION BY DIVISION 26 WITH ROOM LIGHTS.

									-											
					GAS-FIRED H	х				COMPRESSO	OR			FILTER						
САР				GAS	BURNER		AIRS	SIDE	REFRI	GERANT										
					FUEL						LOW	SUMMER								
	INCLUDE	INCLUDE				PRESS]				AMBIENT	AMBIENT			UNIT					
TOTAL	ECONOMIZER	HGR	INPUT	EFF	ТҮРЕ	AVAIL	EAT(db)	LAT(db)	TYPE	CHARGE	КІТ	DBT	SEER	EFF	WEIGHT	MCA	МОСР	VOLT	PH	R
'500 Btu/h	No	No	96000 Btu/h	80.0%	NATURAL GAS	7.0	65.0 °F	95.0 °F	R410A	9 lb	Yes	95.0 °F	16	MERV-8	665 lb	25 A	35 A	208 V	3	PROVIDE WITH INSU
						in-wg														MANUFACTURER'S REC
																				PROGRAMMABLE THERMO
																				TO PROVI

LONG

•••			-				
RIG	ERANT LINE SIZE		ELEC	TRICAL		ASSOCIATED	
D	SUCTION	VOLT	PH	FLA	MOP	EQUIPMENT	REMARKS
I	7/8"	208 V	3	29.9 A	35 A	ACCU-A101b	STEAM HUMIDIFIER, MERV 8 FILTER BANK, 3/4" CONDENSATE DRAIN, 1/2" HUMIDIFIER CONNECTION, ELECTRIC REHEAT COIL.
I	7/8"	208 V	3	16.4 A	30 A	ACCU-A101a	
I	7/8"	208 V	3	29.9 A	35 A	ACCU-A102b	STEAM HUMIDIFIER, MERV 8 FILTER BANK, 3/4" CONDENSATE DRAIN, 1/2" HUMIDIFIER CONNECTION, ELECTRIC REHEAT COIL.
I	7/8"	208 V	3	16.4 A	30 A	ACCU-A102a	

NECK				BLADE DES	IGN		INSTALLATION	
				DEFLECT	ION ANGLE			
WIDTH	HEIGHT	THICKNESS	SPACING	SINGLE	DOUBLE	ORIENTATION	BORDER TYPE	NOTES
							TYPE 3 (LAY-IN)	REFER TO SPECIFICATIONS. CORE SIZE 18"X18".
8"	8"	1/8"	3/4"	45.0°	0.0°	DOUBLE-SHORT	DUCT MOUNT INSTALLATION	REFER TO SPECIFICATIONS.
18"	8"	1/8"	3/4"	45.0°	0.0°	DOUBLE-SHORT	DUCT MOUNT INSTALLATION	REFER TO SPECIFICATIONS.
8"	8"	1/8"	3/4"	35.0°		LONG	TYPE 1 (SURFACE)	
30"	8"	1/8"	3/4"	35.0°		LONG	TYPE 1 (SURFACE)	
12"	12"	1/8"	3/4"	35.0°		LONG	TYPE 1 (SURFACE)	
14"	14"	1/8"	3/4"	45.0°	0.0°	DOUBLE-SHORT	DUCT MOUNT INSTALLATION	REFER TO SPECIFICATIONS.
24"	14"	1/8"	3/4"	35.0°		LONG	TYPE 1 (SURFACE)	

	SECOND FLOOR PLAN ROOM INDEX		TE OF OF
	ROOM ROOM NAME NUMBER ROOM NAME A201 STORAGE	AREA 884 SF	ANDREW P. HUELSMAN E-78372
	 A DIVISION 23 MECHANICAL CONTRACTOR IS REQUIRED TO COORDINATE DIFFUSE GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS. B ALL EQUIPMENT LOCATED ABOVE CEILING REQUIRING MAINTENANCE SHALL BE INSTALLED WITHIN (2) FEET OF THE CEILING FOR MAINTENANCE PURPOSES. DO INSTALL UNITS ABOVE LIGHTS AND CEILING SPEAKERS. COORDINATE LOCATION ARCHITECTURAL REFLECTED CEILING PLAN AND GENERAL CONTRACTOR. 	ER AND E) NOT I WITH	ANDREW P. HUELSMAN LICENSE #E-78372 EXPIRATION DATE: 12/31/2023
	C ANY BALANCING DAMPERS OR OTHER DEVICES IN DUCTS ABOVE HARD CEILING LOCATED ABOVE NEAREST ACCESSIBLE CEILING. D THIS CONTRACTOR SHALL BE REQUIRED TO REPLACE FILTERS ON HVAC EQUIPM ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO T PUNCH. E ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE RATED FOR PRESSUF OF 2" W.G. UNLESS NOTED OTHERWISE. # KEYNOTE DESCRIPTION 1 ROUTE GRAVITY DRAIN CONDENSATE PIPING TO FLOOR SERVICE SINK STORAGE ROOM BELOW. TERMINATE ABOVE FLOOD RIM. CUT END O 45 DEGREE ANGLE. 2 MOUNT OUTDOOR UNIT ON ROOF. PROVIDE CURB RAILS FOR MOUN SECURE UNIT TO CURB RAILS. PROVIDE EPDM PIPE SEAL/FLASHING AT CURB PENETRATIONS. 3 DIVISION 23 HVAC CONTRACTOR SHALL SIZE AND ROUTE REFRIGERAN FROM OUTDOOR CONDENSING UNIT TO INDOOR COOLING UNIT AS RECOMMENDED BY UNIT MANUFACTURER. ROUTING SHALL BE COOF WITH OTHER UTILITIES. EXTERIOR ROOF PENETRATIONS SHALL BE COOF WITH OTHER UTILITIES. EXTERIOR ROOF PENETRATIONS SHALL BE SEF WATER TIGHT. 4 MECHANICAL CONTRACTOR TO PROVIDE CURB FOR THE PIPE PENETR ASSOCIATED FLASHING. COORDINATE PIPE PENETRATION WITH GENE CONTRACTOR. 5 ROUTE DUCT UP THROUGH MEZZANINE METAL GRATE FLOOR. COOR OPENING WITH GENERAL CONTRACTOR. 6 INSTALL FILTER BOX ON RETURN AIR OPENING. 7 TECHNOLOGY ROOM COOLING UNIT SHALL BE INSTALLED ON VONTIN METAL GRATING MEZZANINE FLOOR. UNIT SHALL BE INSTALLED ON VONTIN	IS SHALL BE IENT AFTER THE FINAL RE CLASS CIN OF PIPE AT TING. T ROOF NT PIPING RDINATED ALED MATION AND IRAL DINATE	Image: Sector
Required Outdoor Air Intake Flow, VotOA DeliveredSpecified Exhaust Airflow0 CFM0 CFM0 CFM0 CFM0 CFM0 CFM34 CFM38 CFM0 CFM34 CFM38 CFM0 CFM45 CFM68 CFM0 CFM45 CFM68 CFM0 CFM60 CFM0 CFM60 CFM0 CFM85 CFM236 CFM75 CFM85 CFM236 CFM75 CFMEMARKST MOUNTED DISCONNECT, SUPPORT FROM COLOR WHITE TO MATCH CEILING.	ISOLATION PADS. PROVIDE 1/4" STEEL PLATES BETWEEN THE GRATIN VIBRATION PADS. NUMBER OF PADS AND THEIR APPROPRIATE LOCAT SHALL BE DETERMINED BY THE LOADING. PAD SHALL BE DOUBLE LAY NEOPRENE PAD WITH STEEL DISRUPTION PLATE SEPARATION. DESIGN KINETICS MODEL 'NPD'.	G AND FIONS ER N BASED ON	TIPP CITY GOVERNMENT BUILDING INFILL 280 SOUTH GARBER DRIVE, TIPP CITY, OHO
REMARKS IDE WITH INSULATED CURB INSTALLED TO ACTURER'S REQUIREMENTS. PROVIDE 7-DAY VABLE THERMOSTAT. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT.			ISSUANCES/REVISIONS BID DOCUMENTS 02/02/2023 PROJECT NUMBER: DRAWN BY: CHECKED BY: 22094.00 AMW SHEET TITLE:
			MECHANICAL MEZZANINE PLAN AND SCHEDULES
			SHEET NUMBER:

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& ASS(
/MILLER 8
GARMANN
2023 -
© COPYRIGHT

- NOTE:		I	
	ABBREVIATIONS USED ON	LOC	LOCATION
	THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT	LSIG	LONG TIME, SHORT TIME,
	LIMITED TO THOSE LISTED		GROUND FAULT PROTECTION
	BELOW.	М	
A		mA	MILLIAMPS
A A/V	AMPS, AMPERE, AMPERAGE AUDIO/VISUAL	MAX	
AC	ABOVE COUNTER	IVICA	AMPACITY
ac ADA	ALTERNATING CURRENT	MCC	MOTOR CONTROL CENTER
ADA	DISABILITIES ACT	MIN	MOUNTING HEIGHT
AFF	ABOVE FINISHED FLOOR	MTD	MOUNTED
AFG	ABOVE FINISHED GRADE	MTS	MANUAL TRANSFER SWITCH
	CURRENT	N	
AL ATS	ALUMINUM	N/A	NOT APPLICABLE
	SWITCH	NC NEC	NORMALLY CLOSED
AWG	AMERICAN WIRE GAUGE	NEMA	NATIONAL ELECTRICAL
В			MANUFACTURERS
BKR	BREAKER	NEUT	NEUTRAL
BTM	BOTTOM	NFPA	NATIONAL FIRE PROTECTION
С		NIC	NOT IN CONTRACT
C		NO	NORMALLY OPEN
СВ		NTS	NOT TO SCALE
СКТ	CIRCUIT	0	
CU	COPPER	ОН	OVERHEAD
D		р	
dc	DIRECT CURRENT	Р	POLE
DIA	DIAMETER	PA	PUBLIC ADDRESS
E		РС PH	PHOTOCELL
EC	ELECTRICAL CONTRACTOR	PVC	POLYVINYL CHLORIDE
EM		D	
	TUBING	RGS	RIGID GALVANIZED STEEL
EX	EXISTING	L	
F		S	
FA	FIRE ALARM	SW	SWITCH
FAA	FIRE ALARM ANNUNCIATOR		·
FDR	FEEDER	T TEMP	TEMPORARY
FLA	FULL LOAD AMPS	TV	TELEVISION
FUT	FUTURE	TVSS	TRANSIENT VOLTAGE SURGE
G		ТҮР	TYPICAL
GEN	GENERATOR		
GFI OR GFCI	INTERRUPTER	U Lug	
GFP OR GFPE	GROUND FAULT PROTECTION	UL	UNDERWRITERS'
GND	GROUND		
		UPS	UNINTERRUPTABLE POWER
н Гнод			SUPPLY
НР	HORSEPOWER	V	
HT	HEIGHT	V	VOLTS, VOLTAGE
I		VFD	VARIABLE FREQUENCY DRIVE
IEEE	INSTITUTE OF ELECTRICAL	W	
	AND ELECTRONICS ENGINEERS	W	WIRE
IG	ISOLATED GROUND	WG WP	WIRE GUARD
V		L	
KCMIL	THOUSAND CIRCULAR MILS	X	TRANSFORMER
KV			
KVA	KILOVOLT AIVIPS		
КW	KILOWATT		
КШН	KILOWATT HOUR		
ABBR	REVIATIONS		
		WINGS S	DINROL2
$\langle x \rangle$	KEYED NOTE REFERENCE		
\mathbf{A}	REVISION NUMBER - SHO	WN ON PLAN	S
)			
	CONTINUATION SYMBOL		
	NUMBER OF DETAIL ON S	HEET	
	DRAWING NUMBER WHE	RE DETAIL AP	PEARS
	DEMOLITION		LICABLE)
A			
SYMBOL			EVICE OR REFER TO
\$\$?[ED.	DEMOLITION PLAN
\$9.	SOLID SYMBOL, LIGHTER IN DEVICE OR EQUIPMENT TO	I COLOR INDIC REMAIN.	ATES EXISTING FOR ADDITIONAL INFORMATION

	RACEWAY & CONDUCTORS
SYMBOL	DESCRIPTION
	TICK MARKS DENOTING CONDUCTOR IDENTIFICATION. REFER TO 'KEY TO ELECTRICAL CIRCUIT WI DETAIL FOR MORE INFORMATION.
	CIRCUIT CONCEALED IN CEILING, WALL, OR FLOOR OF NEW CONSTRUCTION. CONCEALED WHERE POSSIBLE IN AREAS OF OPEN STRUCTURE OR EXISTING CONSTRUCTION.
	INDICATES CONCEALED CONDUIT UNDERGROUND/UNDERFLOOR
	HOMERUN TO PANEL OR LOCATION NOTED
(2)2" E3	CONDUIT SLEEVE(S) ABOVE CEILING FOR TECHNOLOGY CABLING. (#) INDICATES QUANTITY, #" INDICATES CONDUIT SIZE. REFER TO ARCHITECTURAL SECTIONS FOR CEILING HEIGHTS.
	CONDUIT TURNS

	ELECTRICAL EQUIPMENT SYMBOLS		
SYMBOL	DESCRIPTION	MOUN LOC.	١T
	SURFACE MOUNTED PANELBOARD - CIRCUIT BREAKER TYPE. DASHED LINES ON PLAN INDICATE CLEARANCES. REFER TO PANEL SCHEDULES AND ONE-LINE DIAGRAM.		
	FLUSH MOUNTED PANELBOARD - CIRCUIT BREAKER TYPE. DASHED LINES ON PLAN INDICATE CLEARANCES. REFER TO PANEL SCHEDULES AND ONE-LINE DIAGRAM.	VARIES	
	DISTRIBUTION PANEL - CIRCUIT BREAKER TYPE. DASHED LINES ON PLAN INDICATE CLEARANCES. REFER TO PANEL SCHEDULES AND ONE-LINE DIAGRAM.	VARIES	١
Ъ	NON-FUSED DISCONNECT SWITCH.	VARIES	١
ATS	AUTOMATIC TRANSFER SWITCH.	VARIES	-
(SD1)	SMOKE DAMPER ELECTRICAL CONNECTION.	VARIES	١

	WIRING DEVICE SYMBOLS		
SYMBOL	DESCRIPTION		1
₽×	DUPLEX RECEPTACLE, 20A, 125V, NEMA 5-20R, WITH COVERPLATE MOUNTED VERTICALLY.	WALL, UNO	
₩ ×	DUPLEX RECEPTACLE, 20A, 125V, NEMA 5-20R, WITH COVERPLATE MOUNTED VERTICALLY.	WALL, UNO	
	'X' INDICATES RECEPTACLE TYPE OTHER THAN STANDARD NO DESIGNATOR INDICATES STANDARD POWER DEVICE GFI = GFCI RATED TR = TAMPER RESISTANT WP = WEATHER-PROOF AND GFCI RATED (METAL IN-USE COVERPLATE)		
Θ	JUNCTION BOX OR EQUIPMENT CONNECTION.		
ر ه ا	JUNCTION BOX OR EQUIPMENT CONNECTION WITH SWITCH FOR MAINTENANCE DISCONNECT. PROVIDE SWITCH RATED FOR VOLTAGE AND LOAD SHOWN ON PLANS.	VARIES, SEE	
P	WALL MOUNTED JUNCTION BOX.	PLAINS	
Q	MOTOR CONNECTION.	NI / A	
Nor	MOTOR CONNECTION WITH SWITCH FOR MAINTENANCE DISCONNECT. PROVIDE SWITCH RATED FOR VOLTAGE AND LOAD SHOWN ON PLANS.	N/A	
↔ DT	7-DAY HEAVY-DUTY PROGRAMMABLE DIGITAL TIMER RATED FOR LOAD BEING CONTROLLED. EQUAL TO INTERMATIC - #ST01	WALL	

STUB ALL CONI PLASTIC BUSHI	DUITS FOR TECHNOLOGY OUTLETS ABOVE ACCESSIBLE CEILING, UNO. PROVIDE PULL S NG ON END OF EACH CONDUIT. PROVIDE COVERPLATE FOR UNUSED BOXES.	STRING AI	ND
SYMBOL	DESCRIPTION	LOC.	NTING HT.
\bigtriangledown	DATA OUTLET. 2-GANG, 3.5" DEEP BOX WITH 2-GANG EXTENSION RING. PROVIDE ONE (1) 1-1/4" CONDUIT.	WALL	16" UN(

4 ELECTRICAL MOUNTING HEIGHT DETAIL E1.1 NTS

3 E1.1 FIRE ALARM RISER DIAGRAM

|--|

1. CONDUIT ROUTING FOR BRANCH CIRCUITS ARE NOT SHOWN ON PLANS AND IS LEFT TO THE DISCRETION OF THE CONTRACTOR. THE FOLLOWING WIRE SIZES SHALL BE USED UNLESS NOTED OTHERWISE IN PANEL SCHEDULE. DETERMINE FURTHEST DISTANCE FROM BRANCH PANELBOARD TO FURTHEST DEVICE PRIOR TO WIRE INSTALLATION. INCREASE WIRE SIZE AS NECESSARY FOR FURTHER DISTANCES.

CONDUCTOR SIZE	MAXIMUM LENGTH	
10 AWG	100 FEET	
8 AWG	175 FEET	
10 AWG	200 FEET	
		_

DEDICATED ELECTRICAL SPACE TO STRUCTURAL CEILING OR HARD CEILING. ONLY ELECTRICAL CONDUIT AND CONDUCTORS SHALL BE PERMITTED TO PENETRATE THIS AREA.

SURFACE MOUNTED OR

RECESSED PANELBOARD

- DEDICATED ELECTRICAL SPACE TO FLOOR. ONLY - ELECTRICAL CONDUIT AND CONDUCTORS SHALL BE PERMITTED TO PENETRATE THIS AREA. 3-1/2" CONCRETE FLOOR CURB FOR
- UNDERGROUND CONDUIT PENETRATIONS. (SURFACE MOUNTED PANELBOARDS ONLY)

NC	<u>NOTES:</u>			
1.	REFER TO NEC SECTION 110.26 FOR MORE INFORMATION.			
2.	COORDINATE ALL WORK WITH OTHER TRADES TO MAINTAIN ALI			
	OTHER NEC CLEARANCES AND REQUIREMENTS.			

ORNS AND LIGHTS. MAX 7 DEVICES PER
UIT (ie 3 HORNS 4 LIGHTS)

- TWISTED SHIELDED CABLE TO ALL INITIATING DEVICES PER MANUFACTURER'S REQUIREMENTS
- TO SHUT OFF GAS SUPPLIES (VALVES)
- EACH AIR HANDLER UNIT SUPPLY FAN SHALL BE SHUT DOWN UPON ITS OWN SMOKE DUCT DETECTORS AND / OR SMOKE OR HEAT DETECTORS IN ALARM WHICH ARE SERVING THE SAME AREA AS THE AIR HANDLER UNIT

ELECTRICAL SHEET INDEX			
SHEET UMBER	SHEET NAME		
E1.1	GENERAL NOTES, ABBREVIATIONS, LEGENDS, DETAILS AND SHEET INDEX		
ED1.1	ELECTRICAL DEMOLITION PLAN		
E2.1	FIRST FLOOR SYSTEMS PLAN		
E3.1	FIRST FLOOR LIGHTING PLAN		
E4.1	FIRST FLOOR POWER PLAN		
E5.1	ROOF ELECTRICAL PLAN		
E5.2	MEZZANINE ELECTRICAL PLANS		
E6.1	LUMINAIRE SCHEDULE		
E7.1	ELECTRICAL ONE-LINE DIAGRAM & PANEL SCHEDULES		

ELECTRICAL GENERAL NOTES

- A ALL GENERAL WALL MOUNT WIRING DEVICES TO BE WHITE IN COLOR. COVERPLATES TO BE WHITE, NYLON, UNBREAKABLE TYPE.
- B ALL MOUNTING HEIGHTS REFER TO THE BOTTOM OF BOX OR DEVICE UNO.
- C ALL CONDUIT TO BE CONCEALED.
- D TICK MARKS ON LIGHTING PLAN CIRCUITING INDICATE A CHANGE IN SWITCHING. E ALL WORK SHALL CONFORM TO THE 2017 N.E.C., NATIONAL, STATE, AND LOCAL CODES WHICH APPLY.
- ALL MATERIAL AND EQUIPMENT SHALL CONFORM TO U.L. AND NEMA STANDARDS
- WHICH APPLY. G THIS CONTRACTOR SHALL PAY ALL FEES AND OBTAIN ALL PERMITS REQUIRED TO THE EXECUTION OF HIS WORK.
- H THIS CONTRACTOR SHALL GUARANTEE HIS ENTIRE ELECTRICAL INSTALLATION AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR.
- MINIMUM WIRE SIZE SHALL BE 12 AWG UNO.
- CONDUCTORS SHALL BE TYPE 'THHN/THWN' STRANDED COPPER. CONDUCTORS 6 AWG, AND LARGER, MAY BE COPPER OR ALUMINUM.
- EXPOSED EXTERIOR CONDUIT SHALL BE RIGID GALVANIZED STEEL OR INTERMEDIATE GRADE METAL CONDUIT. INTERIOR CONDUIT MAY BE ELECTRICAL METALIC TUBING. CONDUIT BURIED BELOW GRADE SHALL BE SCHEDULE 40 PVC WITH APPROPRIATE SIZE GREEN GROUND WIRE UNO.

ELECTRICAL LIGHTING CONTROL GENERAL NOTES

- A ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION. IF PENDANT FIXTURES ARE PRESENT, LOCATION AND COVERAGE OF SENSORS SHOULD BE REVIEWED.
- ULTRASONIC CEILING MOUNT SENSORS REQUIRE THAT THEY BE LOCATED NO CLOSER THAN 6' TO AIR SUPPLY/RETURN REGISTERS.
- CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS, VERIFICATION OF MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
- CONTRACTOR SHALL PROVIDE A LIGHTING CONTROL REPRESENTATIVE/TECHNICIAN FOR INITIAL SET-UP OF LIGHTING CONTROL SYSTEMS. TWO (2) HOURS MINIMUM DEMONSTRATION AND TRAINING SHALL BE PROVIDED FOR EACH TYPE OF LIGHTING CONTROL SYSTEM. THE LIGHTING CONTROL REPRESENTATIVE/TECHNICIAN SHALL BE REQUIRED TO MAKE A SECOND SITE VISIT FOR POST COMMISSIONING REPAIRS AND ADJUSTMENTS.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER PACKS. ONE POWER PACK IS REQUIRED FOR EACH CONTROL/TOGGLE SWITCH. MAXIMUM NUMBER OF SENSORS THAT CAN BE WIRED IN PARALLEL TO A SINGLE POWERPACK IS DEPENDENT ON SENSOR MODEL (SEE INDIVIDUAL DATA SHEETS FOR mA CONSUMPTION).
- EQUALS BY LEVITON, WATTSTOPPER, CRESTRON, NOVITALS, LUTRON, STARFIELD, AND COOPER.

NOTE: ALL SYMBOLS OR ABBREVIATIONS MAY NOT BE		
USED FOR THIS PROJECT AND ARE SUBJECT TO CHANGE		
ON OTHER DRAWINGS.		

LAST UPDATED: 01/26/2022

ANDREW P. HUELSMAN E-78372 HUELSMAN E-78372 ANDREW P. HUELSMAN LICENSE #E-78372 EXPIRATION DATE: 12/31/2023		
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TIPP CITY GOVERNMENT BUILDING INFILL		
ISSUANCES/REVISIONS BID DOCUMENTS 02/02/2023		
PROJECT NUMBER: DRAWN BY: CHECKED BY: 22094.00 AEM CDS		
GENERAL NOTES, ABBREVIATIONS, LEGENDS, DETAILS AND SHEET INDEX		

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SHEET NUMBER:

ELECTRICAL DEMOLITION GENERAL NOTES

- A FIELD VERIFY ALL DIMENSIONS & CONDITIONS PRIOR TO START OF CONSTRUCTION. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCY OR SITUATION DISCOVERED
- B ALL WORK PERFORMED IS SUBJECT TO APPROVAL BY THE ARCHITECT AND OWNER. WORK FOUND TO BE UNSATISFACTORY SHALL BE REMOVED AND PROPERLY REPLACED
- C ALL ITEMS AND MATERIAL NOTED AS "REMOVE" SHALL BE PROPERLY DISPOSED OF BY
- HAS THE OPTION TO CLAIM ANY REMOVED ITEMS. D TEMPORARILY SUPPORT ALL EQUIPMENT, CONDUIT, ETC. AS REQUIRED UNTIL FINAL
- SUPPORTS ARE IN PLACE. E CLOSELY COORDINATE ALL WORK WITH THE OWNER AND WITH ALL OTHER
- CONTRACTORS HIRED BY THE OWNER. CLARIFY IN ADVANCE ANY QUESTIONS AS TO SCOPE OF WORK AND AREAS OF RESPONSIBILITY.
- MODIFY AS NEEDED FOR NEW WORK.
- PLANS FOR ELECTRICAL DISCONNECTION OR REMOVAL OF ANY ELECTRICAL EQUIPMENT.
- H DIV. 26 SHALL PULL ALL WIRE AND CAP CONDUIT TO ALL CIRCUITS DISCONNECTED AND NOT REUSED.
- I ALL ABANDONED WIRING ABOVE CEILING SHALL BE REMOVED PER THE REQUIREMENTS OF THE NEC.
- J ALL ELECTRICAL EQUIPMENT SHOWN ON THIS SHEET SHALL BE REMOVED UNLESS OTHERWISE NOTED.

#	KEYNOTE DESCRIPTION		
1	REMOVE FIRE ALARM MANUAL PULL STATION AND SALVAGE FOR REINSTALLATION AS PART OF NEW WORK.		
2	EXISTING LIGHT FIXTURE TO REMAIN.		
3	3 EXISTING FIRE ALARM NOTIFICATION APPLIANCE TO REMAIN.		
4 EXISTING ELECTRICAL PANELBOARD TO REMAIN. MODIFY TO ACCOMODATE NEW WORK AS REQUIRED.			
5	EXISTING AUTOMATIC TRANSFER SWITCH TO REMAIN.		
6	EXISTING FIRE ALARM CONTROL PANEL TO REMAIN.		
7	LIGHTS TAGGED 'ED' IN THIS SPACE ARE EXISTING TO BE REMOVED. SALVAGE CIRCUITRY FOR NEW LIGHT FIXTURES AS SHOWN ON DETAIL 2/E3.1.		
8	EXISTING LIGHT SWITCH TO REMAIN.		
9	EXISTING RECEPTACLE TO REMAIN.		
10	EXISTING DATA DEVICE TO REMAIN.		
11	LIGHTS TAGGED 'E' IN THIS ROOM ARE EXISTING TO REMAIN.		
12	REMOVE LIGHT FIXTURE AND ASSOCIATED CIRCUITRY.		
13 REMOVE RECEPTACLE AND ASSOCIATED CIRCUITRY.			
14	REMOVE CARD READER AND SALVAGE FOR REINSTALLATION AS PART OF NEW WORK. COORDINATE WORK WITH OWNER.		
15	EXISTING DOOR TO BE REMOVED AND RE-INSTALLED WITH OPPOSITE SWING. EXISTING ACCESS CONTROL TO BE MODIFIED AS REQUIRED TO ACCOMMODATE DOOR MODIFICATION. COORDINATE WORK WITH OWNER. REFER TO E2.1 FOR ADDITIONAL		

SYSTEMS GENERAL NOTES

- A WHERE DEVICES ARE SHOWN UNDER CABINETS, CASEWORK, FURNITURE AND THE LIKE; REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT SO THAT DEVICES
- B ALL LOW VOLTAGE CABLING FOR THE SCOPE OF WORK BY DIVISION 26, 27, AND 28 IN EXPOSED CEILING SPACES SHALL BE ROUTED INSIDE CONDUIT. COORDINATE WITH INSTALLER OF EACH SYSTEM PRIOR TO ROUGH-IN. PAINT CONDUIT TO MATCH
- C CONDUIT IN EXPOSED CEILING SPACES SHALL BE CONCEALED INSIDE WALLS. EXPOSED
- PROVIDED WITH NYLON BUSHINGS TO PROTECT CABLING FROM DAMAGE.
- E ALL MOUNTING HEIGHTS REFER TO BOTTOM OF BOX, UNO.

#	KEYNOTE DESCRIPTION		
1	EXISTING FIRE ALARM NOTIFICATION APPLIANCE TO REMAIN.		
2	EXISTING FIRE ALARM CONTROL PANEL TO REMAIN.		
3	REINSTALL FIRE ALARM MANUAL PULL STATION (SALVAGED FROM DEMOLITION WORK), AND RECONNECT TO FIRE ALARM CIRCUIT AS BEFORE.		
4	PROVIDE FIRE ALARM CONNECTIONS TO FIRE SUPPRESSION SYSTEM. FIRE SUPPRESSION SYSTEM SHALL BE TRIGGERED BY LOCAL SMOKE DETECTOR AND HEAT DETECTOR. COORDINATE WORK WITH SYSTEM INSTALLER.		
5	EXISTING DATA DEVICE TO REMAIN.		
6	PROVIDE ROUGH-IN FOR CARD READER AT 44" AFF. COORDINATE REQUIREMENTS WITH OWNER.		
7	LOW VOLTAGE ELECTRIC STRIKE PROVIDED BY OWNER. ELECTRICAL CONTRACTOR TO PROVIDE BACK BOXES, RACEWAYS, BUSHINGS AND PULL STRINGS FOR CABLING FROM ABOVE ACCESSIBLE CEILING TO ELECTRIC STRIKE IN DOOR FRAME. CABLING BY OWNER. COORDINATE WORTH WITH DOOR HARDWARE INSTALLER AND OWNER. REFERENCE DETAIL 5/E1.1 FOR ROUGH-IN INFORMATION.		
8	REINSTALL CARD READER, SALVAGED FROM DEMOLITION WORK, IN THIS LOCATION. MODIFY AND EXTEND CONDUIT AS REQUIRED FOR NEW DOOR SWING. CABLING BY OWNER. COORDINATE WORK WITH OWNER.		
9	MODIFY AND EXTEND CONDUIT AS REQUIRED FOR ACCESS CONTROL FOR NEW DOOR SWING. CABLING BY OWNER. COORDINATE WORK WITH OWNER.		

LIGHTING GENERAL NOTES

- A REFER TO ARCHITECTURAL REFLECTED CEILING PLANS ON THE A7 SERIES DRAWINGS
- ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
- С
- AN UNSWITCHED HOT CONDUCTOR, UPSTREAM OF ALL CONTROLS.
- E REFER TO SHEET E6.1 FOR LUMINAIRE SCHEDULE AND ADDITIONAL INFORMATION.
- G ALL MOUNTING HEIGHTS REFER TO BOTTOM OF LIGHT FIXTURE, UNO.

#	KEYNOTE DESCRIPTION		
1	LIGHTS TAGGED 'E' IN THIS ROOM ARE EXISTING TO REMAIN.		
2	EXISTING LIGHT SWITCH TO REMAIN.		
3	EXISTING LIGHT FIXTURE TO REMAIN.		
4	CONTRACTOR SHALL PROVIDE EMERGENCY CIRCUIT INDICATED TO FIXTURE,		
	EMERGENCY TRANSFER DEVICE AND ALL ASSOCIATED COMPONENTS NECESSARY		
	FOR EMERGENCY LIGHT FIXTURE AS SHOWN IN DETAIL 2/E3.1.		
5	CONNECT TO EXISTING 120V LIGHTING CIRCUIT AND CONTROL PREVIOUSLY		
	SERVING EXTERIOR LIGHTING IN THIS AREA MADE AVAILABLE FROM		
	DEMOLITION WORK. MODIFY AND EXTEND CONDUIT/WIRING AS NECESSARY.		
6	REFER TO DETAIL 2/E5.2 FOR CIRCUIT CONTINUATION.		
7	REFER TO DETAIL 3/E5.2 FOR CIRCUIT CONTINUATION TO EXHAUST FAN		
	EF-A101.		
8	EXISTING ELECTRICAL PANELBOARD TO REMAIN. MODIFY TO ACCOMODATE		
	NEW WORK AS REQUIRED.		
9	CONNECT TO EXISTING LIGHTING CIRCUIT PREVIOUSLY SERVING AREA. MODIFY		
	AND EXTEND WIRING AS REQUIRED. REFERENCE ED1.1 FOR ADDITIONAL		
	INFORMATION.		
10	CONNECT SWITCH TO LOAD SIDE OF OCCUPANCY SENSOR/POWER PACK FOR		
	VACANCY CONTROL.		

POWER GENERAL NOTES

- A WHERE DEVICES ARE SHOWN UNDER CABINETS, CASEWORK, FURNITURE AND THE LIKE; REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT SO THAT DEVICES SHALL BE LOCATED WITHIN KNEE SPACE OR OPEN AREA.
- B CASEWORK INSTALLER SHALL CUT HOLES IN CASEWORK FOR RECEPTACLES, DEVICES, ETC., UNLESS NOTED OTHERWISE.
- C ALL CONDUCTORS FOR EQUIPMENT CONNECTIONS SHALL BE COPPER UNLESS NOTED
- OTHERWISE AND APPROVED BY THE MANUFACTURER. D COORDINATE WITH ALL OTHER TRADES TO MAINTAIN ALL REQUIRED CLEARANCES ABOUT ELECTRICAL EQUIPMENT WITH ACCORDANCE TO THE NATIONAL ELECTRICAL
- CODE. E REFER TO MECHANICAL, PLUMBING, AND OTHER APPLICABLE DRAWINGS FOR EXACT
- EQUIPMENT LOCATIONS.
- F MAINTAIN ALL FIRE RATINGS WHERE CONDUIT PENETRATES WALL, CEILINGS, AND FLOORS WITH ONLY U.L. LISTED FIRE ASSEMBLIES.
- G ALL MOUNTING HEIGHTS REFER TO BOTTOM OF BOX, UNO.

#	KEYNOTE DESCRIPTION		
1	EXISTING ELECTRICAL PANELBOARD TO REMAIN. MODIFY TO ACCOMODATE		
	NEW WORK AS REQUIRED.		
2	EXISTING AUTOMATIC TRANSFER SWITCH TO REMAIN.		
3	EXISTING RECEPTACLE TO REMAIN.		
4	CONNECT TO EXISTING 120V RECEPTACLE CIRCUIT PREVIOUSLY SERVING THIS		
	AREA.		
5	PROVIDE 120V POWER CONNECTION TO TECHNOLOGY ROOM FIRE		
	SUPPRESSION SYSTEM. COORDINATE WORK WITH SYSTEM INSTALLER.		
6	REFER TO DETAIL 3/E5.2 FOR CIRCUIT CONTINUATION.		
7	PROVIDE WALL MOUNTED JUNCTION BOX MOUNTED AT 44" AFF WITH 100A,		
	208V, 1Ø CIRCUIT CAPPED FOR FUTURE UPS.		
8	CABINET HEATER TO BE FLUSH MOUNTED IN CEILING. UNIT PROVIDED WITH		
	INTEGRAL DISCONNECT. COORDINATE LOCATION AND WORK WITH		
	MECHANICAL CONTRACTOR.		
9	PROVIDE 120V ELECTRICAL CONNECTION TO SMOKE DAMPERS. COORDINATE		
	LOCATION AND ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR.		

1ROOF ELECTRICAL PLAN1/8" = 1'-0"		
POWER GENERAL NOTES A WHERE DEVICES ARE SHOWN UNDER CABINETS, CASEWORK, FURNITURE AND THE LIKE; REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT SO THAT DEVICES SHALL BE LOCATED WITHIN KNEE SPACE OR OPEN AREA. B CASEWORK INSTALLER SHALL CUT HOLES IN CASEWORK FOR RECEPTACLES DEVICES	# 1	KEYNOTE DESCRIPTIONEXISTING LIGHTNING PROTECTION SYSTEM SHALL BE MODIFIED AND EXTENDEDTO ADDITION. DESIGN AND INSTALLATION TO BE PROVIDED BY MAXWELLLIGHTNING SYSTEMS. REFER TO DETAIL 2/THIS SHEET FOR DOWNLEADRACEWAY REQUIREMENTS. COORDINATE QUANTITY OF DOWNLEADS WITHSYSTEM INSTALLER.
 CASE WORK INSTALLER STALL COT HOLES IN CASE WORK FOR RECEPTACLES, DEVICES, ETC., UNLESS NOTED OTHERWISE. C ALL CONDUCTORS FOR EQUIPMENT CONNECTIONS SHALL BE COPPER UNLESS NOTED OTHERWISE AND APPROVED BY THE MANUFACTURER. D COORDINATE WITH ALL OTHER TRADES TO MAINTAIN ALL REQUIRED CLEARANCES ABOUT ELECTRICAL EQUIPMENT WITH ACCORDANCE TO THE NATIONAL ELECTRICAL 	2	MINI SPLIT A/C UNIT FOR MAIN CONTROL/EQUIPMENT ROOM. PROVIDE NECESSARY CONNECTIONS REQUIRED FOR UNIT. EXTEND CONTROL WIRING TO FAN COIL UNIT LOCATED IN MEZZANINE A201. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR. PROVIDE 30A NONFUSED HEAVY DUTY DISCONNECT. PROVIDE A NEMA 3R
CODE. E REFER TO MECHANICAL, PLUMBING, AND OTHER APPLICABLE DRAWINGS FOR EXACT	4	ENCLOSURE FOR OUTDOOR LOCATIONS. REFER TO DETAIL 3/E5.2 FOR CIRCUIT CONTINUATION. REFER TO DETAIL 1/E3.1 FOR CIRCUIT CONTINUATION.
 F MAINTAIN ALL FIRE RATINGS WHERE CONDUIT PENETRATES WALL, CEILINGS, AND FLOORS WITH ONLY U.L. LISTED FIRE ASSEMBLIES. G ALL MOUNTING HEIGHTS REFER TO BOTTOM OF BOX, UNO. 		ROOFTOP MOUNTED EXHAUST FAN PROVIDED WITH INTEGRAL DISCONNECT. EXHAUST FAN SHALL TURN 'ON'OFF' WITH ROOM LIGHTS IN STORAGE A102. PROVIDE NECESSARY ROOF PENETRATIONS, CONDUIT, WIRE AND ELECTRICAL CONNECTIONS. COORDINATE WORK WITH MECHANICAL CONTRACTOR.

 Image: Metric of the second second

N E5.2 MEZZANINE LIGHTING PLAN 1/4" = 1'-0"

	SECOND FLOOR PLAN ROOM INDEX			ATE OF OF	
ROOM NUMBER A201	ROOM NAME	AREA 884 SF	\ ☆	ANDREW	***
SYSTEMS	GENERAL NOTES			P. HUELSMAN E-78372	
A	WHERE DEVICES ARE SHOWN UNDER CABINETS, CASEWORK, FURNITURE AND T REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT SO THAT DEVIC SHALL BE LOCATED WITHIN KNEE SPACE OR OPEN AREA.	THE LIKE; CES		SSIONAL EX	CITES /
B	ALL LOW VOLTAGE CABLING FOR THE SCOPE OF WORK BY DIVISION 26, 27, AND EXPOSED CEILING SPACES SHALL BE ROUTED INSIDE CONDUIT. COORDINATE W NSTALLER OF EACH SYSTEM PRIOR TO ROUGH-IN. PAINT CONDUIT TO MATCH SURROUNDING AREA.	D 28 IN ITH	ANDF LICI EXPIRATIO	EW P. HUEI INSE #E-7 IN DATE: 12	LSMAN 8372 2/31/2023
	CONDUIT IN EXPOSED CEILING SPACES SHALL BE CONCEALED INSIDE WALLS. EX CONDUIT SHALL ONLY BE ALLOWED IN JOIST SPACE NEAR ROOF.	POSED	7	I	ĺ.
E	PROVIDED WITH NYLON BUSHINGS TO PROTECT CABLING FROM DAMAGE. ALL MOUNTING HEIGHTS REFER TO BOTTOM OF BOX, UNO.		Ž		INDIANA
<u>LIGHTIN</u>	<u>G GENERAL NOTES</u>		4	R	APOLIS,
A	REFER TO ARCHITECTURAL REFLECTED CEILING PLANS ON THE A7 SERIES DRAW FOR ADDITIONAL INFORMATION AND EXACT LOCATION OF LUMINAIRES.	INGS	Σ	Π	NDIANZ
В	/ERIFY EXACT LOCATION OF ALL LIGHT SWITCHES AND CONTROLS DEVICES WIT ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.	Ή			HIO I m.com
C D	WHERE MULTIPLE SWITCHES ARE GROUPED TOGETHER AT A SINGLE LOCATION SWITCHES SHALL BE INSTALLED UNDER A COMMON FACEPLATE. CIRCUIT ALL EMERGENCY LIGHTS, NIGHT LIGHTS (IF APPLICABLE) AND EXIT LIGH AN UNSWITCHED HOT CONDUCTOR. UPSTREAM OF ALL CONTROLS.	, ALL ITS TO			LUMBUS, O createg
E I F	REFER TO SHEET E6.1 FOR LUMINAIRE SCHEDULE AND ADDITIONAL INFORMATI	ION. BF	U	2	
G	MARKED WITH A BLACK 3/4" DIAMETER, PRESSURE-SENSITIVE ADHESIVE PAPER	R CIRCLE.			NSTER, OHIC
<u>POWER G</u>	ENERAL NOTES				MIN
A	WHERE DEVICES ARE SHOWN UNDER CABINETS, CASEWORK, FURNITURE AND T REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT SO THAT DEVIC	THE LIKE; CES			1
В	SMALL BE LOCATED WITHIN KNEE SPACE OR OPEN AREA. CASEWORK INSTALLER SHALL CUT HOLES IN CASEWORK FOR RECEPTACLES, DEV	/ICES,			
C A	ALL CONDUCTORS FOR EQUIPMENT CONNECTIONS SHALL BE COPPER UNLESS N THERWISE AND ADDROVED BY THE MANN LEACTURED	NOTED			
D	COORDINATE WITH ALL OTHER TRADES TO MAINTAIN ALL REQUIRED CLEARAN(ABOUT FLECTRICAL FOLLIPMENT WITH ACCORDANCE TO THE NATIONAL ELECT				
E .	CODE. REFER TO MECHANICAL DILIMBING AND OTHER ADDUCADE DRAMINES FOR T	FXACT	▏∟	•	
F	EQUIPMENT LOCATIONS.	ND)	
r I	VIGUELAND ALL FIRE RATINGS WHERE CONDULT PENETRALES WALL, CEILINGS, A FLOORS WITH ONLY U.L. LISTED FIRE ASSEMBLIES.	שאו			
، ت بر			≧		
#	REFER TO DETAIL 1/E3.1 FOR CIRCUIT CONTINUATION.				OH
2	MINI SPLIT AC UNIT FOR MAIN CONTROL/EQUIPMENT ROOM. PROVID NECESSARY CONNECTIONS REQUIRED FOR UNIT. EXTEND CONTROL WI				Р СІТҮ, О
	MECHANICAL CONTRACTOR.		>	J U	RIVE, TIPI
3	ENCLOUSRE FOR OUTDOOR LOCATIONS.			Z	ARBER DI
4	EMERGENCY LIGHT EIVTURE AS SHOWN IN DETAIL 2/52.4	IUKE, IECESSARY			OUTH G
5	REFER TO SHEET E5.1 FOR CIRCUIT CONTINUATION.				280 Si
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			ELECT	RICAL	PLANS
				LJ.Z	•

(A201)

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								LUN	1INAIRE SCHEDULE		
	MOUNTIN		LAMPS			BALLAST/	FIXTURE	INPUT			BASIS OF DESIGN & APPROVED
MARK	G	TYPE	MIN. LUMENS	INS CCT CR		DRIVER	VOLTAGE	WATTS	FIXTURE DESCRIPTION	COMMENTS	MANUFACTURERS
A	RECESSED	LED	4000 lm	5000K	80 CRI	0-10V DIMMING DOWN TO 10%	UNV	36 W	2'X4' LED FLAT PANEL, RECESSED IN GRID, FIELD SELECTABLE LUMEN OUTPUT AND COLOR TEMPERATURE, WHTIE FINISH, CSA DAMP LOCATION LISTED.	LUMENS SHALL BE FIELD SET TO 4000 LM. COLOR TEMPERATURE SHALL BE FIELD SET TO 5000K.	LITHONIA CPANL 2X4 AL06 SWW7 M2 COLUMBIA CFP24-LSCS SERIES METALUX FPS SERIES DAY-BRITE 2SBP3550L8CS-4-UNV-DIM SERIES
С	SURFACE	LED	800 lm	4000K	90 CRI	ELECTRONIC	120V	11 W	22" LED LINKABLE UNDERCABINET LIGHT, SWITCHABLE COLOR TEMPERATURE, SLIM 1" HOUSING, LIGHT BAR PROVIDED WITH 20 DEGREE SWIVEL, FROSTED ACRYLIC DIFFUSER, WHITE FINISH. UL LISTED.	COLOR TEMPERATURE SHALL BE FIELD SET TO 4000K. PROVIDE MOUNTING HARDWARE AND JOINER CABLES NECESSARY FOR NUMBER OF FIXTURES AS SHOWN ON PLANS.	JUNO UPLD 22IN SWWR 90CRI WH COLUMBIA CUC SERIES HALO HU11 SERES ASD ASD-UCS SERIES
Е	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0 W	EXISTING FIXTURE TO REMAIN.		
ED	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0 W	EXISTING FIXTURE TO BE DEMOLISHED.		
S	PENDANT	LED	5000 lm	5000K	80 CRI	0-10V DIMMING DOWN TO 10%	UNV	28 W	4' LED STRIP LIGHT, FILED SELECTABLE LUMEN OUTPUT AND COLOR TEMPERATURE, WHITE FINISH, CSA DAMP LOCATION LISTED.	PROVIDE HANGER CHAIN LENGTH NECESSARY TO MOUNT FLUSH WITH STRUCTURAL STEEL. LUMENS SHALL BE FIELD SET TO 5000 LM. COLOR TEMPERATURE SHALL BE FIELD SET TO 5000K.	LITHONIA CSS L48 AL03 MVOLT SWW3 80CRI COLUMBIA CSL SERIES METALUX SLSTP SERIES DAY-BRITE SDS SERIES
W	WALL	LED	2000 lm	5000K	80 CRI	0-10V DIMMING DOWN TO 10%	UNV	17 W	LED EXTERIOR WALL PACK, DIE-CAST ALUMINUM HOUSING, BLACK FINISH, CSA WET LOCATION LISTED.	MOUNT 4" ABOVE DOOR.	LITHONIA ARC1 LED P2 50K MVOLT DBLXD BEACON QSP1 SERIES INVUE CCW SERIES FC LIGHTING FCW1038 SERIES
Х	CEILING/WALL	LED	N/A	N/A	N/A	N/A	UNV	3 W	LED EXIT LIGHT, WHITE THERMOPLASTIC HOUSING, RED LETTERING, U.L. LISTED.	CONNECT AHEAD OF LOCAL SWITCHING.	LITHONIA LQM S 3 R 120/277 COMPASS CAR SERIES SURELITES APX SERIES CHLORIDE VERW SERIES

ANDREW P. HUELSMAN E-78372 KEGISTERED ANDREW P. HUELSMAN LICENSE #E-78372 EXPIRATION DATE: 12/31/2023	
Image: A contract of the contra	
TIPP CITY GOVERNMENT BUILDING INFILL	
ISSUANCES/REVISIONS BID DOCUMENTS 02/02/2023	
PROJECT	
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NUMBER: DRAWN BY: CHECKED BY: 22094.00 AEM CDS	
NUMBER: DRAWN BY: CHECKED BY: 22094.00 AEM CDS SHEET TITLE: LUMINAIRE SCHEDULE SHEET TITLE:	

OUNTING: SURFACE TED FROM: ATS #2 ICLOSURE: TYPE 1 OCATION:			PANEL ELP EXISTING						AIC RATING: EXISTING VOLTAGE: 208Y/120V 3PH 4W MAINS RATING: 225 A MAINS TYPE: MLO							
	P O L E		С К					_	С К		P O L E		N O T			
CIRCUIT DESCRIPTION	S	AMP	T	A		В		C	T	AMP	S		E			
	1	25 A	1	550/681	200	2 / 702			2	20 A	1		1			
	1	20 A	3		300) / /83		00 / 425	4	20 A	1		2			
	1	20 A	5	400 / 125			6	00/125	6	15 A	2	EXISTING RCP1	1			
	1	20 A	/	400 / 125		2/250			8	20.4	1		1			
	1	20 A	9		600	J / 250	2	00 / 250	10	20 A	1		1			
	1	20 A	11	400 / 250			3	00/250	12	20 A	1		1			
	1	20 A	15	400 / 250		2 / 000			14	20 A	1					
	1	20 A	15		500	J / 900		200 / 0	10	20 A	1		1 2			
	1	20 A	1/	200 / 504				300 / 0	18	20 A	1		3			
	1	20 A	19	300 / 584	200				20	20 A	1		1			
	1	20 A	21		200	J / 550	G	00 / 500	22	20 A	1		1			
	1	20 A	25	400 / 200			0	00 / 500	24	20 A	1		1			
NG EFO/DAIVIPEN	1	20 A	25	400 / 300	450	0/200			20	20 A	1		1			
	1	20 A	27		430	J / 300	6	00 / 500	20	20 A	1		1			
	1	20 A	29	0 / 200			0	007 300	22	20 A	1		1			
	1	20 A	22	07300	0	/ 600			24	20 A	1	EXISTING SIVICKE EVAC.	1			
	1	20 A	25		0	/ 000		0 / 600	24	20 A	1		1			
UNLY	1		22	222/600				0 / 000	20	20 A	1		1			
	2	1	37	233 / 000	22	2/500			30	20 A	1		1			
NG HI	5	15 A	39		23:	3 / 500	22	2 / 45 42	40	20 A	1		1			
	1		41	0 / 4002			23	3 / 4543	42	100 4	2		1			
	1		43	0 / 4083	0	(2202			44	100 A	3		1			
	1		45		07	3393		0 / 222	40							
	1		47	0 / 222				0/255	40	20.4	2		1			
	1		49	0/233	0	(222			50	20 A	3		1			
	1		51		0	/ 255		0/0	52		1					
ONLI			ΔIS·	9440 VA	97	91 VA	c	070 385 VA	54		1	SFACE ONET				
	ΔΜΡς	URTOT	ΔΙς.	79 Δ	, כ	21 VA R2 Δ		78 Δ								
CONNECTED						52 11										
VA	FΔCT	OR	DLI	VA	ΔΜΡς	SUBTOTA	4 <i>L</i>	PHASE			ın [.]	TES·				
4700 VA	100.0%		1-		13 A	9440 \/A	<u> </u>	Λ								
11696 VA			4700 VA 1/620 \/A		Δ1 Δ	9791 VA				EXISTIN						
4500 VA	105	0%	14020 VA		13 A	9385 VA		<u>р</u>		2 - EXISTING CIRCUIT, NEW LOAD						
6120 VA	100	100.0%		120 VA	17 A	ΡΔΝ		OTALS	- `_	EXISTIN	10					
1600 VA	100.0%		100.0% 1600 VA		500 VA	VA 4A		4 A 28616 VA CONNECTED								
			_`			31765 VA	ΑΓ	DEMAND								
						79 A										
					-	88 A		DEMAND								
										22094.0	00 -	TIPP CITY GOVERNMENT BUILDING	g infili			

				FE	EDER	SCHEDUI	.E				STAT	E OF OH	
		NO.	PH	CO	NDUCTO	R SIZING UTRAL	GROUND SIZE	CONDUIT SIZE EACH				ANDREW P. UELSMAN	
	MARK 300N	OF SETS	QTY 3	SIZE 350 KCMIL	QTY	SIZE 350 KCMIL	EACH SET #4 AWG	SET 2 1/2"	Comments		THORESSI.	E-78372 EGISTERED	HAIN HAIN
	EX							0"	EXISTING FEEDER TO REMAIN.		ANDREW	P. HUELS E $\#E = 78$	5MAN 372
				A IT B IT C EX Sł	EMS FADED EMS IN BOL KISTING ELEC HEET SHALL	BACK ON THIS S D ON THIS SHEE CTRICAL EQUIPN MATCH EXISTIN	GHEET ARE EXISTING T T ARE NEW AND SHAI MENT IS CUTLER-HAM G MANUFACTURER.	O REMAIN. L BE PROVIDED V MER. NEW ITEMS	WITH PROJECT. S SHOWN ON THIS		N N		INDIANAPOLIS, INDIANA om
300 300	SP SP	0									GAR GAR		MINSTER, OHIO COLUMBUS, OHIO creategm.cc
											Y GOVERNMENT	DING INFILL	SOUTH GARBER DRIVE, TIPP CITY, OHIO
												BUIL	280 5
											ISSUAN	NCES/REVISION	S 02/02/2023
										P NU 22(ROJECT JMBER: D D94.00	RAWN BY:	CHECKED BY: CDS
										D	SI ELEC ON IAGRA SCH	TRICA E-LIN M & F EDULI	AL E PANEL ES
											She	Tet NUMBER:	