Clarifications to the June 1, 2015 City of Lancaster Conditional Approval Letter of the January 20, 2015 and May 5, 2015 Fairfield County Submissions Responding to the Lancaster Interim Policy for Development within the Wellhead Protection Zones Proposed Fairfield County Jail/Public Safety Facility 345 Lincoln Avenue Lancaster, Ohio

Submitted to:
Division of Water
The City of Lancaster
225 North Memorial Drive
Lancaster, Ohio 43130

By:
Fairfield County
Board of Commissioners
210 East Main Street
Lancaster, Ohio 43130

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June 12, 2015

RELIABILITY OF REPORT - DISCLAIMER

Conclusions reached in this report are based upon the objective data available to the CONSULTANTS at the time of forming their opinions and as presented in the report. The accuracy of the report depends upon the accuracy of these data. Every effort is made to evaluate the information by the methods that generally are recognized to constitute the state of the art at the time of rendering the report and conclusions, and the conclusions reached herein represent our opinions. Subsurface conditions are known to vary both in space and time, and there is inherent risk in the extrapolation of data.

THE CONSULTANTS are not responsible for actual conditions proved to be materially at variance with the data that were available to them and upon which they relied, as presented in the report.

The opinions, conclusions and recommendations shown in the report are put forth for a specific and proposed purpose and for the specific site discussed. The CONSULTANTS are not responsible for any other application, whether of purpose or location, of our opinions, conclusions and recommendations other than as specifically indicated in the report.

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1	General	1	Response Document page 2
1	Drainage/Erosion Control	1	Response Document page 2; Appendix A
2	Drainage/Erosion Control	2	No further action required
2	Flood Hazard Areas	1	Response Document page 2; Appendix B
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3	Stormwater	4	No further action required
3	Zoning	1	No further action required
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3	Miscellaneous	1	Response Document page 4; Appendix A
3	Miscellaneous	2	Response Document page 5
3	Miscellaneous	3	Response Document page 5; Appendix A
3	Construction General Stormwater Permit	1	Response Document page 5; Appendix A
4	Construction General Stormwater Permit	2a	Response Document page 5; Appendix A
4	Construction General Stormwater Permit	2b	Response Document page 5; Appendix A
4	Construction General Stormwater Permit	2c	No further action required
4	Construction General Stormwater Permit	2d	Response Document page 6; Appendix A
4	Construction General Stormwater Permit	2e	Response Document page 6; Appendix A
4	Interim Policy for Development within the Wellhead Protection Zones	1	Response Document pages 6 and 7; Appendices D, E, F and G
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4	Interim Policy for Development within the Wellhead Protection Zones	3	Response Document page 8
5	Interim Policy for Development within the Wellhead Protection Zones	4	No further action required
5	Interim Policy for Development within the Wellhead Protection Zones	5	No further action required

SECTION 2
CLARIFICATIONS TO APPROVAL LETTER

GENERAL:

1. *As a condition of approval, our office shall be provided a copy of the NOI or NPDES permit before work begins. Detailed comments on the Stormwater Permit are listed below.*

   A copy of the NOI or NDPES permit will be provided.

DRAINAGE/EROSION CONTROL

1. *Demolition and exposing soils shall be limited to areas where work is planned within 90 days according to the approved construction schedule. As a condition of approval, a copy of the construction schedule shall be submitted to our office prior to the start of construction. Significant updates to the schedule as it affects foundation or site work shall be submitted within 10 days of receipt by Fairfield County or their construction manager.*

   A note has been added to Sheet C.9 (Appendix A). The construction schedule will be submitted.

2. *As a condition of approval, the City maintains the right to inspect any site of land disturbance at any reasonable time and to require compliance with regulations and soil erosion control plan.*

   OK.

FLOOD HAZARD AREAS

1. *The FEMA Flood Insurance Rate Map (FIRM) for the general area does show a portion of the development to be in a Special Flood Hazard Area (SFHA). Work is proposed within both the floodway and the flood fringe. A development permit will be required and will be reviewed separately. No site work may begin before a development permit is issued.*

   An advance copy of the Application for Development Permit for Special Flood Hazard Area is included as Appendix B. The permit will be submitted once a check is written by the County.

SANITARY SEWER (SAS)

1. *As a condition of approval Tap and Capacity charges will be due prior to the sewer tap.*

   The tap and capacity charges will be paid prior to the sewer tap.

2. *The initial storm sewer plans included a connection of the existing illicit storm inlet currently connected to the 15" sanitary sewer on the south side of property. The revised plans do not show this connection. Under LCO 912.07 no person shall discharge or cause to be discharged any storm water, surface water, ground water, roof runoff, subsurface drainage, uncontaminated cooling water or unpolluted industrial process waters to any sanitary sewer. This catch basin must be connected into the proposed storm sewer system.*

   The catch basin is to be removed. See Sheet C.4 (Appendix A).

WATER LINES

1. *The city's Fire Department (LFD) reviews plans for fire hydrant locations as part of the building plan review. If additional hydrants are required the water service line may need to be up sized.*

   OK.

2. *As a condition of approval, Tap and Capacity charges will be due prior to the water tap.*

   The tap and capacity charges will be paid prior to the water tap.

STORMWATER

1. *Storm sewers that discharge to surface waters shall be provided with a suitable concrete full height headwall meeting the requirement of Standard Construction Drawing D-2. A design exception is granted to allow the pipe invert below the 100 year flood elevation due to site conditions. The proposed duck bill outlet will prevent flood waters from backing up into the storm system and a full height headwall will prevent bank erosion.*

   Thank you for granting the design exception. A full height headwall will be specified per Standard Drawing D-5. See Sheet C.8 (Appendix A).

2. *Backfill limits are not shown on the plans. Backfill shall be in accordance with ODOT SS 811.11 and CMSL Item 912 within the public pavement influence lines.*

   Backfill limits were labeled on Sheet C.8 (Appendix A) as requested.

3. *Flood routing indicates flow will route to the southwest corner of the site. However the stream bank elevation will prevent flood routing to the river. Care shall be taken that the site does not flood route into the Fairfield County Maintenance Facility.*

   See Sheet C.6 (Appendix A) for maximum and finished grade at the stream bank. Flood Routing will be maintained to the Hocking River. The building will not be flooded.

4. *Stormwater calculations are based on ODOT design information not the City of Lancaster values. A design variance is granted to use the ODOT design information.*

   Thank you for granting the design variance.

ZONING

1. *A zoning review will be done separately by the Certified Building Department and is still pending.*

   OK.

2. *While Street Lighting Plan is not required as part of the plan, site lighting must be reviewed as part of the zoning clearance. Security and parking lot lighting did not appear to be included in the building plan submittal.*

   Scale shall not be less than 1" = 100'

   Site Layout

   Proposed Light Locations

   Legend for Drawings

   Light type, manufacturer, and product number

   Two plan sheets (E001 and E411) (Appendix C) contain the requested information on the street lighting plan. Copies are also being submitted to zoning.

MISCELLANEOUS

1. *A curb cut permit will be required prior to construction of the new driveways.*

   A note has been added to Sheet C.5 (Appendix A) stating that a curb cut permit must be obtained prior to the construction of the new driveway.

2. *The plans do not show a radio antenna. Our assumption is that the existing antenna will be replaced or relocated during the project. Relocation or replacement will need to comply with the Wireless Communication ordinance found in Chapter 1335. Approval will be needed prior to installation or relocation of the antenna.*

   If a radio antenna is relocated or installed, information will be submitted for approval.

3. *Sheet C.7 has a note to grout the existing monitoring wells on the south side of the property. These are active monitoring wells. Is your intent to grout around them at the asphalt surface or is this intended to abandon the wells?*

   This note was placed there in error and has been removed. Sheet C.7 (Appendix A) has been revised to show that the elevation of the existing monitoring wells will be adjusted to grade.

Construction General Stormwater Permit

1. *As a condition of approval, a copy of the construction schedule shall be submitted to our office prior to the start of construction. Significant updates to the schedule as it affects foundation or site work shall be submitted within 10 days of receipt by Fairfield County or their construction manager.*

   A note has been added to Sheet C.9 (Appendix A). The construction schedule will be submitted.

2. *The SWP3 is missing the following items*

   a. *Post Runoff coefficients based on the actual site design. Since the plans propose to line the pervious areas the post runoff coefficient is not correct.*

      Sheet C.10 (Appendix A) contains revised post-construction runoff coefficients.

   b. *The post construction BMP must be approved in advance by Ohio EPA since it is not a standard BMP. We will accept your proposed grass area as long as it is designed as a closed system permeable grass pavement- extended detention with a liner. Drawdown time will be 24 hours. Design shall be in accordance with the draft Chapter 2.11 Pervious Pavement criteria of the ODNR Rainwater and Land Development Manual. A copy of the Ohio EPA approval must be submitted prior to construction.*

      The design submitted on May 5, 2015 meets all the criteria listed above (see Sheet C.7, Appendix A). A copy of the Ohio EPA approval will be submitted to the City prior to construction.

c. *As a condition of approval, where construction activities are to occur on sites with contamination from previous activities, concentrations from materials that meet other criteria may still result in storm water discharges in excess of Ohio Water Quality Standards that are not authorized under the General Construction Stormwater Permit.*

OK.

d. *A description of maintenance procedures for all permanent control practices shall be provided.*

A note has been added to Sheet C.11 (Appendix A).

e. *The signatory agent for the SWP3 and related requirements is required to be either a principal executive officer or ranking elected official.*

The signatory has been changed to the County Administrator. Revised plan sheet C.9 is included in Appendix A.

Interim Policy for Development within the Wellhead Protection Zones

1. *Prohibited land uses found in Lancaster Codified Ordinance 1335.05 are not allowed. The above ground fuel tank for the standby generator is limited to 1500 gallons.*

We have been made aware by the City that this section contained an error regarding the allowed fuel tank capacity for the emergency generator per Lancaster City Ordinance 1335.05(a)(18). This section should have stated *"[T]he above ground fuel tank for the standby generator is limited to 15 gallons"* instead of 1500 gallons. In fact, 1335.05(a) contains a listing of uses that are prohibited in the Wellhead Protection Zone 1. Number 18 of 1335.05(a) states *"Storage of liquid petroleum products of any kind in excess of fifteen gallons except for storage in a free standing container within a building, or fuel for heating of that building"* is prohibited.

As you are aware from previous submittals, the emergency generator has a sub-base fuel tank that is part of the free-standing generator. Similarly, the emergency generator is located at the front of the facility in weather-proof housing, inside an open air building with brick walls, a floor consisting of a concrete foundation and concrete maintenance walkway where the concrete foundation is not present, and a locked door. Appendix D contains the plan sheets showing the location of the emergency generator. Based on this, the County believes that the location of the generator meets the requirements of a free-standing container within a building.

If, however, the City believes that the designed building does not meet the requirements because the building lacks a formal roof structure (making it safer from a fire code standpoint), then the County requests that a variance be granted in accordance with 1335.05 (5) due to the presence of the grandfathered existing non-conforming emergency generator at the current Minimum Security Misdemeanor Jail/Sheriff's Office. According to this section, a variance may be granted if the facility *"can demonstrate an overall reduction of risk to the aquifer and/or wellfield, through a pollution prevention program instituted by the facility".* The County believes that the following information makes this demonstration.

Appendix E contains a pollution prevention plan addressing the elements that USEPA recommends for above ground storage tanks within a source water protection area. These include design elements, as well as operation and maintenance elements. The pollution prevention plan shows that the design elements of the tank include, among others: double walls between an inner and outer tank, leak detection alarm system between the tanks, 110 percent containment of the volume of the inner tank, corrosion protection, electric fuel level indicator, spill/fill alarm for overfill protection, and high level shut down of fuel supply alarm to prevent overfilling. The pollution prevention plan includes references to specific design specifications and manufacturer specifications. Appendix F contains a copy of the complete design specifications for the emergency generator and the sub-base fuel tank. Appendix G contains a copy of manufacturer specifications for the emergency generator. (The manufacturer specifications for the COM-FAB sub-base fuel tank were provided with the January 20, 2015 response by the County to the criteria included in the Lancaster Interim Policy on Development within the Wellhead Protection Zones, effective December 15, 2014).

The pollution prevention plan also includes practices for activities during filling operations, including but not limited to the requirement that a person remain onsite at all times during filling operations and immediately report all spills. Finally, the plan includes provisions for inspection and maintenance of the tank to ensure there are no leaks.

The County will be instituting the Pollution Prevention Plan, regardless of whether or not the City determines that a variance is needed. However, the County believes that the Pollution Prevention Plan demonstrates that the overall risk to the aquifer and wellfield will be reduced by installing the new emergency generator and instituting operational and maintenance controls.

2. *While we agree that insurance would not be available to the County, we will require that the City be listed as an additional insured party by the contractors. Contract specifications must be submitted that shows this language. A copy of the insurance certificate must be submitted prior to the start of demolition.*

   A copy of the specification is included in Appendix H. Also, a copy of the insurance certificate for the selected construction manager is included in Appendix I.

3. *A Phase 1 ESA was submitted for the Kings Furniture property in accordance with our previous comments to update changes to conditions of the area. A review of the conclusions indicate that no Historical Recognized Environmental Conditions and no Controlled Recognized Environmental Conditions were identified. One Recognized Environmental Condition related to the Lincoln Avenue property abandoned fuel tanks were noted. This meets our request to update information for the site. An exception is granted for any other Phase 1 work. We would appreciate it if you would contact Mr. Schmelzer for an interview and evaluate his response. We understand Mr. Schmelzer is not an owner, occupant or operator under the requirements of the ESA.*

   Thank you for granting the exemption for any other Phase I work. With regard to the City's request that Mr. Schmelzer be interviewed, we provide the following account and evaluation of his response:

   Mr. Schmelzer sent an email to Bob Hedges on March 14, 2014 that was forwarded to Commissioner Kiger, who forwarded the email to Carri Brown on the same day. The email string indicated that Commissioner Kiger had *"spoken to two folks who worked on this site"*. The email was subsequently forwarded to Bennett & Williams on March 15, 2014, prior to the initiation of the subsurface investigation on March 20, 2014, which was part of the Limited Phase II Environmental Investigation conducted at the site. The email from Mr. Schmelzer stated the following: "*I have sent this message as a follow up to our conversation. I was employed at Schmelzer Construction in the early 70's and worked on the addition to the Kroger store on west Wheeling Street, now the present jail site. The excavation for the foundation ended up 10' below grade and the entire length of the footer was dug into municipal trash. The engineer stopped the digging when green slime appeared in the trench. He reengineered the foundation on site and we proceeded with the work. An elderly man watching the work commented that his father ran the town dump in the early 1900's that was on the site and the trash was used to fill in a barge landing. I found newspapers at the bottom of the trench dating early 1900's. The excavator was Lloyd Febus and all the excavated material was taken to a landfill he owned across the creek from the old Cattlemen's auction barn. I also have a source telling me that Elford Construction is pushing hard to have the prison built on this site. With pilling punched thru the waste, their*

[sic]*will be an incredible amount of money to be made on toxic waste abatement post construction. They are doing the Hospital and the Courthouse downtown. Sincerely, David Schmelzer 740-438-8328".*

Thus, the email description by Mr. Schmelzer contained information that alerted our consultant that municipal trash had been found under the existing building during excavations for a building expansion in the 1970s. Bennett & Williams was aware of this information prior to drilling at the site.

The borings installed by Bennett & Williams were located under the footprint of the proposed new building as primarily were a series of geotechnical borings conducted on the site since 1990. In a total of 48 site borings, no descriptions of municipal trash were recorded. The borings showed that the fill was primarily foundry sand. However, the July 7, 2015 Limited Phase II Environmental Site Assessment recognized the information obtained from Mr. Schmelzer on page 31 indicating *"Although there had been some anecdotal information about the possible burial of "trash" or "garbage" at the site, neither our investigation nor other previous subsurface investigations indicated that such materials were found".*

Indeed, due to the potential variable nature of fill, the July 7, 2015 Limited Phase II Environmental Site Investigation included a recommendation that *"A qualified environmental professional should be present onsite during excavation activities to confirm that the fill does not contain industrial waste, residual waste, or municipal waste that may make the fill subject to additional regulation".* The commitment of the County to have an environmental professional onsite during excavation activities has been confirmed many times and was reiterated in the April 28, 2015 Risk Mitigation Work Plan submitted to the City on May 5, 2015 in response to the March 3, 2015 Comments on the County's January 20, 2015 submittal in response to the December 15, 2014 Interim Policy on Development within the Wellhead Protection Zones.

However, based on the June 1, 2015 request by the City, an interview was conducted by Linda Aller, Bennett & Williams at the site with David Schmelzer on Thursday, June 4, 2015. Also present were Mike Nixon, City of Lancaster and Dennis Keller, Fairfield County. During this interview, Mr. Schmelzer confirmed the contents of his March 14, 2014 email and provided the following additional information:

1) **The dates of the newspapers Mr. Schmelzer pulled from the excavation were from 1908 – 1909;**

2) **The location of the excavation which Mr. Schmelzer observed was along the western portion of the existing building (toward the side**

closest to the Hocking River), which is now under the current building;

3) **The excavation was the entire length of the existing building, approximately 10 feet deep and 20 feet to 25 feet wide at the top; and**

4) **The excavated trash was disposed offsite.**

During the interview, Mr. Schmelzer was also asked about his recollection of his conversation with the older man that had said the dump area filled in an old barge landing. He indicated that his email contained all that he remembered, but that in reviewing the historical maps agreed that the explanation of filling in an old barge landing did not appear to make sense because the barge landing would have been adjacent to the canal and the observed trash under the building was adjacent to the re-routed Hocking River.

The County reiterates that there will be an environmental professional onsite during excavation activities as indicated in previous submissions to the City.

4. *An exception is granted to the soil boring requirement of the Interim Policy. The soil borings completed to date along with the geologic crosses sections satisfy the information requested.*

Thank you for granting an exception to the soil boring requirement of the Interim Policy.

5. *An exception is granted for soil and groundwater sampling for cyanide, Alachor, and Simazine. Cyanide was not identified as a chemical of concern (COC) and Alachlor and Simazine are pesticides generally associated with agriculture and rural runoff. No further action is required.*

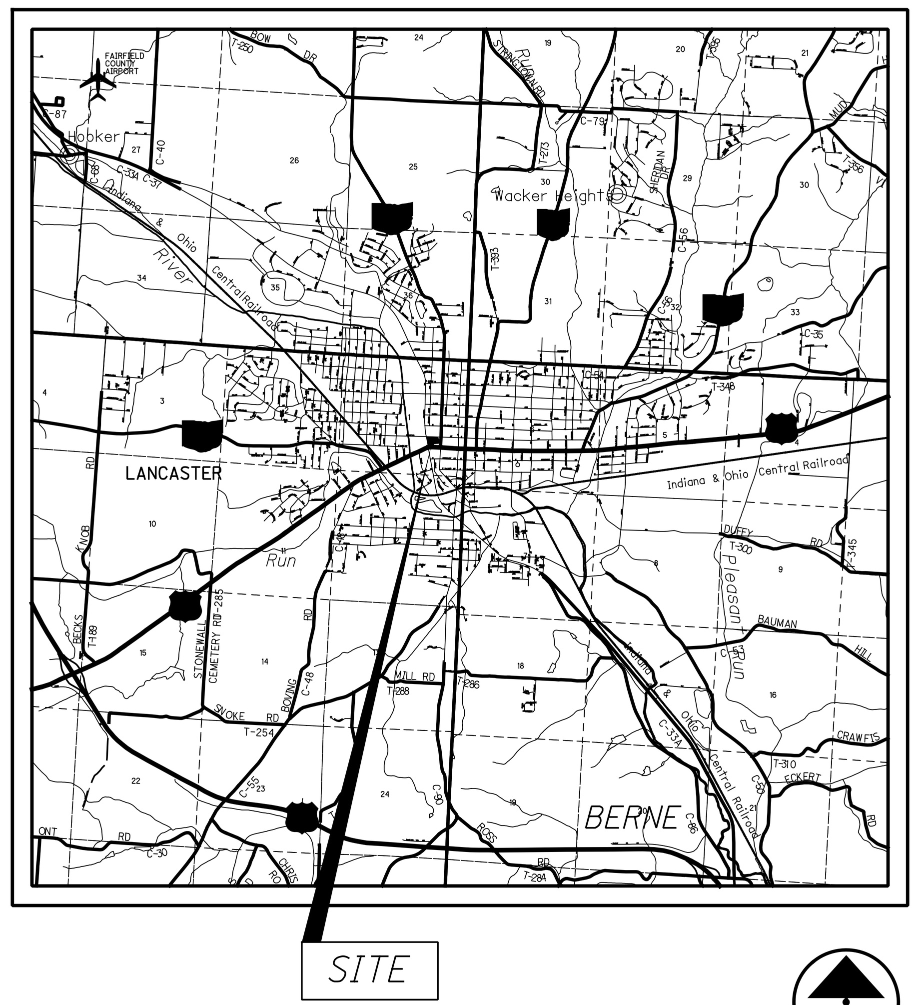
Thank you for granting an exemption for soil and groundwater sampling for cyanide, Alachlor, and Simazine.

Appendix A

Stormwater Plans – 2LMN, Inc.

FAIRFIELD COUNTY PUBLIC SAFETY
AND JAIL FACILITY
345 LINCOLN AVENUE
CITY OF LANCASTER
OHIO

LOCATION MAP



LATITUDE: N 39°42'52"   LONGITUDE: W 82°36'28"

NOT TO SCALE

OHIO Utilities Protection SERVICE
Call Before You Dig
1-800-362-2764 or 8-1-1

DEVELOPER:

FAIRFIELD COUNTY COMMISSIONERS
210 EAST MAIN STREET, ROOM 301
LANCASTER, OH 43130
740-652-7090

INDEX OF SHEETS:

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SUMMARY OF ESTIMATED QUANTITIES

ITEM LANC.	ITEM ODOT	QTY.	UNIT	DESCRIPTION
				ROADWAY
	201	1	LUMP	CLEARING AND GRUBBING
	202	1479	LF	PIPE REMOVED, 24" AND UNDER
	202	10	EACH	CATCH BASIN REMOVED
	202	118	LF	GUARDRAIL REMOVED
	202	799	LF	FENCE REMOVED - CHAINLINK
	202	2	EACH	SIGN REMOVED
	202	161	LF	FENCE REMOVED - CABLE
	202	32	LF	FENCE REMOVED - WOOD
	202	1	EACH	MISC. REMOVAL - FLAG POLE REMOVED
	202	2	EACH	MISC. REMOVAL - SANITARY CLEANOUT REMOVED
	202	1	EACH	VALVE BOX REMOVED
	202	7,853	SY	CONCRETE REMOVED
	202	1	EACH	DRAIN REMOVED
	202	19,776	SY	ASPHALT REMOVED
	202	17	EACH	LIGHT POLE REMOVED
	202	1	EACH	GENERATOR REMOVED
	202	1	EACH	BOLLARDS REMOVED
	203	1	LUMP	EXCAVATION
	203	1	LUMP	EMBANKMENT
	204	14,333	SY	SUBGRADE COMPACTION
	SPECIAL	14333	SY	BIAXIAL GEOGRID
	608	12,002	SF	4" CONCRETE WALK
	608	28	LF	CONCRETE STEPS (RM-2.1)
				EROSION CONTROL
	207	9	EACH	INLET PROTECTION (DANDY BAGS)
	207	1864	LF	PERIMETER FILTER FABRIC FENCE (D-6)
	601	6	CY	ROCK CHANNEL PROTECTION, TYPE C, WITH FILTER (D-3)
	616	24	M GAL	WATER
	659	8282	SY	SEEDING AND MULCHING
	659	1.3	TON	COMMERCIAL FERTILIZER
	659	1.98	TON	AGRICULTURAL LIME
	659	480	SY	INTER-SEEDING
	659	52	M GAL	WATER
	659	897	CY	6" TOPSOIL
	659	815	CY	6" SAND BASE
				PAVEMENT
	304	3524	CY	AGGREGATE BASE
	407	1023	GAL	TACK COAT
	448	568	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
	448	868	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
	451	704	SY	8" REINFORCED CONCRETE PAVEMENT
	609	4445	LF	6" CONCRETE CURB, TYPE 6 (BP-5.1)
				DRAINAGE
	SS 811	891	LF	4" UNDERDRAIN PERFORATED
	SS 811	578	LF	4" UNDERDRAIN UNPERFORATED
	SS 811	71	LF	12" CONDUIT, TYPE B
	SS 811	304	LF	18" CONDUIT, TYPE B
	SS 811	402	LF	21" CONDUIT, TYPE B
	SS 811	795	LF	24" CONDUIT, TYPE F, 707.21
	SS 811	10	EACH	CATCH BASIN 2-3 (CB-2.1)
	SS 811	2	EACH	MANHOLE, NO. 3 (MH-1.2)
	SS 811	1	CY	STANDARD MANHOLE NO. 1 (D-5)
	SS 811	8	EACH	UNDERDRAIN CLEAN OUT
	SPECIAL	1	EACH	RUBBER DUCKBILL VALVE
	SPECIAL	816	CY	SAND BASE
	SPECIAL	5374	SY	30 MIL HDPE LINER, APP
	SPECIAL	1	EACH	2" FAIRCLOTH SKIMMER, APP
	SPECIAL	1	EACH	4" FAIRCLOTH SKIMMER, APP
	SPECIAL	2	EACH	MONITORING WELLS ADJUSTED
	SPECIAL	2	EACH	CLEAN OUT
				WATER WORK
801		317	LF	6" WATER MAIN DUCTILE IRON PIPE
801		2	EACH	6" VALVE AND VALVE BOX
				SANITARY
	604-2010	6	EACH	SANITARY MANHOLE ADJUSTED TO GRADE
915		4	EACH	SANITARY CLEANOUT (S-19)
	604-2010	1	EACH	SANITARY MANHOLE (S-6)
918		162	LF	8" SANITARY CONDUIT, TYPE B, 706.08 (VCP)
918		350	LF	6" SANITARY CONDUIT, TYPE B, 706.08 (VCP)
				GAS
	638	226	LF	2" GAS LINE
	638	1	EACH	2" GAS VALVE AND VALVE BOX
				TRAFFIC CONTROL
	630	2	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL
	630	2	EACH	REMOVAL OF GROUND MOUNTED POST AND DISPOSAL
	642	52	LF	CHANNELIZING LINE
	642	11,287	LF	PARKING LOT STALL MARKING
	642	14	EACH	HANDICAP SYMBOL MARKING
	642	135	LF	CENTER LINE MARKING
	645	2,763	SF	ISLAND MARKING

CONVENTIONAL SYMBOLS

Fence Line (Ex) (Pr)
Center Line
Right of Way (Ex) Ex R/W
Right of Way (Pr) R/W
Standard Highway Ease.(Ex) Ex SH
Temporary Right of Way TMP
Channel Ease. (Pr) CH
Utility Ease. (Ex) Ex U
Sewer Ease. (Ex) Ex SW
Guardrail (Ex) (Pr)
Construction Limits
Edge of Pavement (Ex)
Edge of Pavement (Pr)
Edge of Shoulder (Ex)
Edge of Shoulder (Pr)
Ditch / Creek (Ex)
Ditch / Creek (Pr)
Tree Line (Ex)

Ownership Hook Symbol , Example
Property Line Symbol , Example
Break Line Symbol , Example
Tree (Pr) , Tree (Ex) , Shrub (Ex)
Tree (Remove) , Shrub (Remove)
Evergreen (Ex) , Stump
Evergreen (Remove) , Stump (Remove)
Post (Ex) , Mailbox (Ex) MB , Mailbox (Pr) MB
Light (Ex) , Telephone Marker (Ex) TEL
Fire Hydrant (Ex) , Water Meter (Ex) W
Water Valve (Ex) W , Utility Valve Unknown (Ex.) U
Telephone Pole (Ex) , Power Pole (Ex)
Light Pole (Ex) , Guy Wire (Ex)
Gas Meter (Ex) G , Air Conditioner (Ex) A·C
Monitoring Well (Ex) M WELL , Cleanout (Ex) C·O
Catch Basin (Ex) , Catch Basin (Pr)
Sanitary Manhole (Ex) SA , Manhole (Pr)
Railroad Spike Found , Iron Pin Found I.P.F.
Pipe Found P.F.

BENCHMARK DATA - SEE SHEET C.6 FOR LOCATION

DATUM	PT. #	NORTHING	EASTING	ELEVATION	DESCRIPTION
NAVD 88	1504	624962.234	1937787.178	820.99	BRASS DISC

ODOT STANDARD CONSTRUCTION DRAWINGS				CITY OF LANCASTER STANDARD CONSTRUCTION DRAWINGS		SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
CB-1.2	1/18/13	BP-3.1	7/18/14	D-3	CHANNEL PROTECTION	ODOT SS 811	
		BP-4.1	7/19/13	D-5	STANDARD HEADWALL		
MH-1.2	1/18/13	BP-7.1	7/18/14	D-8	DITCH CHECK		
				D-9	CONSTRUCTION ENTRANCE		
		RM-2.1	7/19/13				
				M-4	DUMPSTER ENCLOSURE		
				P-1	PAVEMENT REPLACEMENT		
				P-6	STRAIGHT CURB		
				P-7	CONCRETE SIDEWALK		
				P-23	STANDARD DRIVEWAY		
				S-1	SEWER BEDDING		
				S-6	MANHOLE STANDARD		
				S-10	FLAT SLAB MANHOLE TOP		
				S-11	MH FRAME AND COVER		
				S-17	INSIDE DROP FOR MANHOLE		
				S-19	TYPICAL CLEANOUT		

2LMN, Inc.
Civil Engineers Land Surveyors
2475 Sugar Grove Road, SE Lancaster, Ohio 43130
(740) 687-5542 Phone - (740) 687-0086 Fax - www.2LMN.com

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Plans Prepared By :

STATE OF OHIO
CURTIS M. SHONK
E-67144
REGISTERED
PROFESSIONAL ENGINEER

REGISTERED ENGINEER

67144 — Ohio Reg. No.   6/11/15 — Date

BRIAN S. KUHN, SERVICE-SAFETY DIRECTOR
BRAD FAGRELL, CITY ENGINEER
TOBY SHAMBLIN, SUPT., DIVISION OF TRANSPORTATION
MIKE PETTIT, GENERAL MANAGER, MUNICIPAL GAS
MIKE NIXON, SUPT., DIVISION OF WATER POLLUTION CONTROL
ANDY GUNDELFINGER, DISTR. SUPV., DIVISION OF WATER
DAVID WARD, CHIEF, DIVISION OF FIRE
PAUL MARTIN, SUPERINTENDENT, SANITATION DEPARTMENT

SPECIFICATIONS:

THE CITY OF LANCASTER OHIO, AND THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (2013) INCLUDING ALL SUPPLEMENTS AND CHANGES THERETO, SHALL GOVERN ALL WORKMANSHIP, MATERIALS AND METHODS OF CONSTRUCTION INVOLVED IN THE IMPROVEMENTS SHOWN ON THESE CONSTRUCTION DRAWINGS, UNLESS OTHERWISE NOTED.

TITLE SHEET
FAIRFIELD COUNTY PUBLIC SAFETY
AND JAIL FACILITY
FOR THE FAIRFIELD COUNTY COMMISSIONERS
STATE OF OHIO
FAIRFIELD COUNTY
CITY OF LANCASTER
TOWNSHIP 14, RANGE 19, SECTION 1

DATE: MARCH 2015   No. C.1

001
UTILITY OWNERS: THE FOLLOWING UTILITIES AND OWNERS ARE LOCATED WITHIN THE WORK LIMITS OF THE PROJECT:

WATER:
CITY OF LANCASTER
DIVISION OF WATER
225 N. MEMORIAL DR.
LANCASTER, OH 43130
ATTN: ANDY GUNDELFINGER
7406876631

SEWERS:
CITY OF LANCASTER
WATER POLLUTION CONTROL
800 LAWRENCE ST.
LANCASTER, OH 43130
ATTN: PAUL MENZ
7406876664

SANITARY STORM
CITY OF LANCASTER
TRANSPORTATION DEPARTMENT
815 LAWRENCE ST.
LANCASTER, OH 43130
ATTN: GREG HINTZ
7406876668

ELECTRIC:
AMERICAN ELECTRIC POWER**
850 TECH CENTER DR.
GAHANNA, OH 43230-6605
1-800-277-2177

SOUTH CENTRAL POWER**
2780 COONPATH RD.
LANCASTER, OH 43130
ATTN: TIM MALONE (PRIMARY)
740-689-6256
ATTN: PHIL STRINGER (SECONDARY)
740-689-6237

TELECOMMUNICATIONS AND SIGNALS:
AT&T OHIO
140 W. WHEELING ST.
LANCASTER, OH 43130
ATTN: JANEEN YOUNG
740-454-0748

CITY OF LANCASTER
TRANSPORTATION DEPARTMENT
815 LAWRENCE ST.
LANCASTER, OH 43130
ATTN: TIM DEITZ
7406876668

CITY OF LANCASTER
INFORMATION TECHNOLOGY DEPARTMENT
121 E. CHESTNUT ST., SUITE 50
LANCASTER, OHIO 43130
ATTN: ED CAMPBELL
740-687-6645

HORIZON CHILLICOTHE
68 E. MAIN ST.
P.O. BOX 480
CHILLICOTHE, OH 45601
ATTN: TAMMY PERRY
740-772-8260

NATURAL GAS:
CITY OF LANCASTER
MUNICIPAL GAS
1424 CAMP GROUND RD.
LANCASTER, OH 43130
ATTN: HANK TOPF
740-687-6670

COLUMBIA GAS TRANSMISSION*
1700 MCCORKLE AVENUE SE
P.O. BOX 1273
CHARLESTON, WV 25325-1273

SOUTHEASTERN NATURAL GAS
P.O. BOX 377
FRAZEYSBURG, OH 43822
1-888-863-0032
740-828-2892
ATTN: MICHAEL PARK

COLUMBIA GAS OF OHIO
939 WEST GOODALE AVE.
COLUMBUS, OH 43212
614-460-2170

TEPPCO
651 SOUTH COMMERCE ST.
SEYMOUR, IN 47274
1-800-530-1050

CABLE TV:
TIME WARNER CABLE
111 NORTH 11" STREET
NEWARK, OH 43055
ATTN: BRIAN AMENDE (PRIMARY)
740-322-6703
ATTN: JOHN MOHLER (SECONDARY)
740-322-6711

*THESE COMPANIES HAVE TRANSMISSION LINES THROUGH THE CITY, BUT DO NOT SERVE CUSTOMERS WITHIN THE CITY.
**THESE COMPANIES SERVE VARIOUS PARTS OF THE CITY.

002
UTILITY LOCATIONS AND NOTIFICATIONS

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF UTILITIES AS REQUIRED BY THE OHIO REVISED CODE, SECTION 153.64. LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THEIR EXACT LOCATION AND ELEVATION WHEN WORKING IN THEIR VICINITY.

LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL UTILITY LINES, SERVICES, AND APPURTENANCES, WHETHER SHOWN ON THESE PLANS OR NOT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. WHERE POTENTIAL GRADE CONFLICTS MIGHT OCCUR WITH EXISTING UTILITIES, THE CONTRACTOR SHALL UNCOVER SUCH UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION IN ORDER THAT THE EXACT ELEVATION MAY BE DETERMINED AND THE NECESSARY ADJUSTMENTS MADE. COST OF THE ABOVE WORK SHALL BE INCLUDED WITH THE PRICE BID FOR THE PERTINENT ITEM, UNLESS OTHERWISE NOTED ON THE PLANS. ESTIMATED QUANTITIES SHOWN ON THE PLANS FOR WATER AND SANITARY SEWER RELOCATIONS ARE FOR THOSE ITEMS ACTUALLY CALLED FOR AND SHOWN ON THE PLANS.

AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS INVOLVING ANY EXCAVATING, AUGURING, BORING, OR OTHER EARTH DISTURBING ACTIVITY, OR THE DEMOLITION OF ANY STRUCTURES, THE CONTRACTOR SHALL NOTIFY THE REGISTERED UTILITY PROTECTION SERVICE, OHIO UTILITY PROTECTION SERVICE (OUPS) (1800362276) AND THE OWNERS OF EACH UTILITY FACILITY SHOWN IN THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR MAKING A SEPARATE CONTACT WITH ALL NON-OUPS REGISTERED UTILITIES WITH FACILITIES IN THE PROJECT AREA. THROUGHOUT THE TERM OF THE PROJECT, THE CONTRACTOR SHALL MAKE ADDITIONAL CONTACT WITH OUPS AND NON-REGISTERED UTILITIES AS REQUIRED BY THE OHIO REVISED CODE, SECTION 153.64.

ANY EXISTING UTILITY OR APPURTENANCE DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR, OR AT THE CONTRACTOR'S EXPENSE.

004
MODIFICATIONS

ANY MODIFICATIONS OR CHANGES TO THE WORK, AS SHOWN ON THE DRAWINGS, MUST HAVE PRIOR WRITTEN APPROVAL BY THE CITY ENGINEER, CITY OF LANCASTER, OR HIS DESIGNEE.

007
PROTECTION OF SURVEY MONUMENTS

THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, AND ANY OTHER SURVEY MONUMENTS OR MARKERS. IF THE ACTIONS OF THE CONTRACTOR, HIS EMPLOYEES, OR HIS SUB-CONTRACTORS RESULT IN DESTRUCTION OF OR DAMAGE TO ANY OF THE ABOVE ITEMS, THOSE ITEMS SHALL BE ACCURATELY RESTORED BY A LICENSED SURVEYOR AT THE CONTRACTOR'S EXPENSE.

008
NOTIFICATION OF CONSTRUCTION

A MINIMUM OF TEN (10) BUSINESS DAYS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL MEET WITH AND SUBMIT A CONSTRUCTION SCHEDULE TO THE CITY ENGINEER, SECURE ALL NECESSARY LICENSES AND PERMITS, AND PAY ALL INSPECTION FEES. TAPS OR CONNECTIONS INTO ANY CITY OWNED LINE (SANITARY SEWER, STORM SEWER, WATER LINE AND/OR GAS LINE) SHALL NOT BE MADE UNTIL THE REQUIRED TAP PERMIT HAS BEEN ISSUED.

THE CONTRACTOR SHALL NOTIFY THE CITY OF LANCASTER, CITY ENGINEER'S OFFICE A MINIMUM OF TWO (2) DAYS BEFORE BEGINNING WORK, HOLIDAYS AND WEEKENDS EXCLUDED. WHEN THE CONTRACTOR SUSPENDS OPERATIONS FOR TWO (2) OR MORE WORKING DAYS, HE SHALL NOTIFY THE CITY ENGINEER A MINIMUM OF TWENTYFOUR (24) HOURS BEFORE RESUMING WORK.

011
DELIVERIES TO JOB SITE HAUL ROUTES

DELIVERIES OF MATERIALS AND EQUIPMENT TO AND FROM THE JOB SITE SHALL BE ROUTED TO MAXIMIZE THE USE OF STATE AND FEDERAL ROUTES AND TO MINIMIZE THE USE OF CITY STREETS. NO LESS THAN TWO (2) WEEKS PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL A HAUL ROUTE LETTER TO THE CITY ENGINEER DESIGNATING THOSE ROUTES TO BE USED. IF ANY CHANGES ARE NEEDED TO THE APPROVED ROUTE, THE CONTRACTOR SHALL SUBMIT A REVISION TO THE HAUL ROUTE LETTER A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO THE DELIVERY DATE. THE ENGINEER SHALL HAVE THE RIGHT TO LIMIT THE ROUTE OF DELIVERY, TOTAL TONNAGE PER VEHICLE PER DELIVERY, OR THE HOURS SUCH DELIVERIES MAY BE MADE.

013
OPERATION OF FIRE HYDRANTS AND WATER VALVES

THE CONTRACTOR SHALL NOT OPERATE, OPEN, CLOSE, OR OTHERWISE USE ANY CITY OWNED FIRE HYDRANT OR WATER LINE VALVE WITHOUT THE WRITTEN AUTHORIZATION OF THE SUPERINTENDENT, DIVISION OF WATER. ANY UNAUTHORIZED TAKING OF WATER FROM THE CITY DISTRIBUTION SYSTEM WILL RESULT IN PROSECUTION FOR THE THEFT OF A PUBLIC UTILITY. ANY DAMAGE CAUSED TO THE FIRE HYDRANTS OR WATER VALVES AS A RESULT OF THE CONTRACTOR'S OPERATIONS WILL BE REPAIRED BY DIVISION OF WATER FORCES AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR IS HEREBY NOTIFIED THAT THE USE OF FIRE HYDRANTS WILL NOT BE PERMITTED ON THIS PROJECT. THE DIVISION OF WATER WILL PROVIDE THE CONTRACTOR POTABLE WATER AT THE MILLER PARK WATER TREATMENT PLANT, 225 NORTH MEMORIAL DRIVE, IN BULK AT A RATE OF $0.015 PER GALLON. THE CONTRACTOR MAY MAKE ARRANGEMENTS FOR OBTAINING WATER AT 740-687-6631.

THE COST OF OBTAINING AND/OR PROVIDING WATER SHALL BE INCLUDED IN THE CONTRACTOR'S VARIOUS PRICES BID FOR ASSOCIATED ITEMS IN THE PROJECT UNLESS OTHERWISE PROVIDED FOR AS A SEPARATE BID ITEM.

014
LINE CROSSINGS

AT ALL UTILITY CROSSINGS, THE BACKFILL SHALL BE GRANULAR MATERIAL, PER ITEM 912, BETWEEN THE TOP OF THE UPPER CONDUIT AND THE BOTTOM OF THE LOWER CONDUIT, PROVIDED THE VERTICAL CLEARANCE BETWEEN THE TWO PIPES IS 1-FOOT OR MORE. WHERE THE CLEARANCE IS LESS, A CONCRETE CRADLE SHALL BE POURED FROM THE BOTTOM OF THE LOWER PIPE TO THE SPRING LINE OF THE UPPER PIPE FOR THE FULL-WIDTH OF THE UPPER PIPE'S TRENCH WIDTH, OR LONGER IF THE ENGINEER SO ORDERS.

A SIX INCH (6") THICK SAND ENVELOPE SHALL BE USED AROUND ALL WATER AND GAS LINES TO PROTECT SAID LINES FROM ABRASIVE AND PROTRUDING AGGREGATE. THIS SAND SHALL BE FINE GRADED AGGREGATE PER ODOT 703.02.A AND FREE OF LARGE PARTICLES.

015
DISPOSAL OF EXCESS EXCAVATED MATERIAL

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING A SITE FOR THE DISPOSAL OF EXCESS EXCAVATED MATERIAL. BEFORE DISPOSING ANY SUCH MATERIAL, THE CONTRACTOR SHALL HAVE THE DISPOSAL SITE APPROVED BY THE CITY ENGINEER.

THE CONTRACTOR IS NOTIFIED THAT THE CITY'S FLOOD DAMAGE PREVENTION ORDINANCE REGULATES THE PLACEMENT OF FILL IN SPECIAL FLOOD HAZARD AREAS, AS DELINEATED ON THE CURRENT FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAPS FOR THE CITY OF LANCASTER. THE CONTRACTOR SHALL FIRST OBTAIN A DEVELOPMENT PERMIT FROM THE ENGINEERING DEPARTMENT BEFORE DISPOSING ANY EXCESS EXCAVATED MATERIALS WITHIN ANY DESIGNATED SPECIAL FLOOD HAZARD AREA. IN DISPOSING OF EXCESS EXCAVATED MATERIALS IN AREAS OF SPECIAL FLOOD HAZARD, THE CONTRACTOR SHALL COMPLY WITH THE CITY'S FLOOD DAMAGE PREVENTION ORDINANCE. IF EXCESS EXCAVATED MATERIALS ARE DEPOSITED IN A SPECIAL FLOOD HAZARD AREA WITHOUT A PERMIT, THE CONTRACTOR SHALL PROMPTLY REMOVE THE MATERIAL FROM THE SPECIAL FLOOD HAZARD AREA. THE COST OF THIS WORK SHALL BE BORNE BY THE CONTRACTOR.

FEMA FIRM MAPS ARE AVAILABLE FOR INSPECTION IN THE ENGINEERING DEPARTMENT'S OFFICE IN THE MUNICIPAL ANNEX, 121 EAST CHESTNUT STREET, SUITE 100, LANCASTER, MONDAYS THROUGH FRIDAYS BETWEEN 7:30 AM AND 4:00 PM.

016
WEEKEND AND HOLIDAY WORK

NO WORK THAT REQUIRES CITY OF LANCASTER INSPECTION SHALL BE PERMITTED ON WEEKENDS OR ON CITY OF LANCASTER HOLIDAYS WITHOUT THE PRIOR, WRITTEN APPROVAL OF THE CITY ENGINEER. IF THE CONTRACTOR NEEDS TO PERFORM WORK THAT REQUIRES CITY OF LANCASTER INSPECTION ON A WEEKEND DAY OR A HOLIDAY, HE SHALL SUBMIT HIS REQUEST STATING THE REASONS FOR WORKING THOSE DAYS TO THE CITY ENGINEER A MINIMUM OF FORTYEIGHT (48) HOURS IN ADVANCE OF THAT WEEKEND OR HOLIDAY.

022
PAVEMENT CLEANING

THE CONTRACTOR IS HEREBY NOTIFIED THAT IT IS HIS/HER RESPONSIBILITY TO KEEP STREETS AND ROADS CLEAR OF ALL MUD, DIRT, GRAVEL, AND/OR STONES OF ANY KIND DEPOSITED AS A RESULT OF HIS/HER OPERATIONS. PAVEMENTS SHALL BE CLEANED AT THE END OF EACH WORK DAY AND AT ANY OTHER TIME AS THE ENGINEER DIRECTS. FAILURE TO COMPLY WITH THIS NOTE MAY RESULT IN THE CONTRACTOR'S PROSECUTION UNDER L.C.O. 901.21. IN ADDITION, UPON THE CONTRACTOR'S FAILURE TO ADEQUATELY CLEAN THE PAVEMENT UPON NOTICE FROM THE ENGINEER, THE CITY MAY CLEAN THE PAVEMENT AND CHARGE THE CONTRACTOR FOR THE COST OF THIS WORK.

023
WORK LIMITS

THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE PROJECT SITE UNDER DEVELOPMENT, THE EXISTING RIGHTOFWAYS, AND/OR APPLICABLE CONSTRUCTION/PERMANENT EASEMENTS. THE CONTRACTOR SHALL NOT TRESPASS UPON OTHER PRIVATE PROPERTY WITHOUT THE WRITTEN CONSENT OF THE OWNER. ALL DAMAGE TO PRIVATE PROPERTIES SHALL BE REPAIRED BY THE CONTRACTOR TO THE ENGINEER'S SATISFACTION. THE CONTRACTOR SHALL BEAR THE COST OF THIS WORK.

024
TEMPORARY PAVEMENT REPLACEMENT

TEMPORARY PAVEMENT REPLACEMENT SHALL BE PROVIDED ON PERMANENT PAVEMENTS DAMAGED OR REMOVED BY THE CONTRACTOR IN THE PERFORMANCE OF THE WORK TO LIMITS SHOWN ON THE PLANS OR ORDERED BY THE ENGINEER. AS SOON AS THE TRENCH HAS BEEN BACKFILLED, TEMPORARY PAVEMENT SHALL BE INSTALLED. THE ENGINEER MAY REQUIRE THAT ALL MATERIALS AND EQUIPMENT INCIDENTAL TO PROVIDING THE TEMPORARY PAVEMENT BE ON THE JOB SITE PRIOR TO REMOVING THE EXISTING PAVEMENT. THE TEMPORARY PAVEMENT SHALL CONSIST OF 2 INCHES OF COMPACTED BITUMINOUS MATERIAL ITEM 405 CMSL PLACED UPON 6 INCHES OF COMPACTED ITEM 304, CMSC AGGREGATE BASE.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE TEMPORARY PAVEMENT UNTIL THE PLACEMENT OF THE PERMANENT PAVEMENT IS COMPLETE.

025
PERMANENT PAVEMENT REPLACEMENT

PERMANENT PAVING SHALL NOT BEGIN PRIOR TO THE ENGINEER'S APPROVAL OF THE TRENCH BACKFILL. THE EXISTING PAVEMENT TO BE REMOVED SHALL BE NEATLY SAWED IN A STRAIGHT LINE AT A DISTANCE OF NO LESS THAN 12-INCHES BEYOND THE TRENCH LIMITS. IF TEMPORARY PAVEMENT HAS BEEN PLACED, IT SHALL BE REMOVED DOWN TO CLEAN GRANULAR TRENCH BACKFILL MATERIAL. THE PAVEMENT TO BE REMOVED SHALL NOT BE REMOVED MORE THAN 24 HOURS PRIOR TO THE PLACING OF PERMANENT PAVEMENT MATERIALS. THE PERMANENT PAVEMENT MATERIALS AND WORKMANSHIP SHALL BE THE EQUIVALENT TO THE EXISTING PAVEMENT BEING REPLACED, OR THE PERTINENT STANDARD CONSTRUCTION DRAWING, WHICHEVER IS GREATER. ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH THE PERTINENT STANDARD CONSTRUCTION DRAWING AND CMSL.

027
FINAL CLEAN-UP

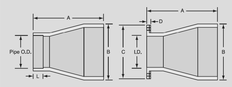
THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS AND MATERIALS RESULTING FROM HIS/HER OPERATIONS. IT IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE ALL PUBLIC AND PRIVATE SURFACES, STRUCTURES, AND/OR PROPERTIES THAT WERE DISTURBED DURING HIS/HER OPERATIONS TO THEIR ORIGINAL OR BETTER CONDITION. THE CONTRACTOR SHALL ALSO RESTORE ANY DISTURBED STREAM CHANNELS, SWALES, AND/OR DITCHES TO THEIR ORIGINAL OR BETTER CONDITION. THIS RESTORATION WORK SHALL INCLUDE THE REMOVAL OF ALL DEPOSITS OF SEDIMENT, SAND, GRAVEL, OR DIRT IN ANY WATERWAYS, AND ANY SUBSEQUENT RESEEDING OR SODDING OF THOSE WATERWAYS USING TYPE A SEED MIXTURE IN CONFORMITY WITH ODOT CMS ITEM 659, AS DEEMED NECESSARY BY THE ENGINEER. THE CONTRACTOR SHALL PERFORM THIS WORK AT HIS/HER EXPENSE, AND SHALL NOT BE DUE ANY EXTRA PAYMENT.

028
CONSTRUCTION NOISE

ACTIVITIES AND LAND USES ADJACENT TO THE PROJECT MAY BE ADVERSELY AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE THE CONSTRUCTION NOISE IMPACTS, ANY POWER-OPERATED EQUIPMENT OR CONSTRUCTION-TYPE DEVICE SHALL NOT BE OPERATED BETWEEN THE HOURS OF 9:00 PM AND 7:00 AM. IN ADDITION, ANY SUCH EQUIPMENT SHALL NOT BE OPERATED AT ANY TIME IN SUCH MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

Flex-Valve®
Duck-Bill Check Valves

Style 4100
Slip-on Duck-Bill Check Valve



Style 4100 Slip-on Duck Bill Check Valve — Style 4200 Flanged Duck Bill Check Valve

DIMENSIONS						
	STYLE 4100		STYLE 4200			
Pipe Size	Mating Pipe O.D	Cuff Slip-on Length L	Flange O.D. C	Flange Thickness D	Length A	Height B
1/2	5/8	1/2	3-1/2	7/8	2-1/2	1-1/2
3/4	1	1	3-7/8	7/8	3	1-1/2
1	1-5/16	1	4- 1/4	7/8	3	1-1/2
1-1/4	1-13/16	1	4-5/8	7/8	5-3/4	3-3/4
1-1/2	1-15/16	1	5	7/8	6	3
2	2-3/8	1-1/2	6	7/8	6	4
2-1/2	2-7/8	2	7	7/8	6	5
3	3-1/2	3	7-1/2	1-1/8	9	5-1/2
4	4-1/2	3	9	1-1/8	12	7
5	5-9/16	3	10	1-1/8	15-1/2	9
6	6-5/8	4	11	1-3/8	16	10-1/2
8	8-5/8	4	13-1/2	1-3/8	16-1/2	13
10	10-3/4	4	16	1-3/8	21-1/2	17
12	12-3/4	6	19	1-3/8	26	20-1/2
14	14	6	21	1-3/8	26	22
16	16	6	23-1/2	1-3/8	26	27
18	18	6	25	1-3/8	30	29
20	20	8	27-1/2	1-7/8	33	33
22	22	8	29-1/2	1-7/8	36	33
24	24	8	32	1-7/8	40	37
30	30	10	38-3/4	1-7/8	42	50
32	32	10	41-3/4	1-7/8	48	53
36	36	10	46	1-7/8	50	61
42	42	12	50 3/4	2-3/8	54	71
48	48	12	53	2-3/8	60	78

Notes: 1) Style 4100 sizes are based on Schedule 40 pipe. Other I.D. dimensions are available. 2) Dimensions are subject to change due to customized construction. Steel, Concrete, and Ductile Iron Pipe O.D.s vary. 3) Flex-Valve® Duck-Bill Check Valve's dimensions are based on actual pipe and therefore it is important to verify pipe O.D. for proper sizing. 4) For full product specifications and installation instructions, see SPEC4100-1, SPEC4200-1 and INM4100-1, INM4200-1, respectively. 5) All dimensions expressed in inches. Contact General Rubber for sizes not shown and higher pressure ratings. 6) Customer to provide head pressure and maximum back pressure when ordering.

Phone: 201-935-1900
Web: www.general-rubber.com
general rubber corporation
Fax: 201-935-1915
sales@general-rubber.com

2LMN, Inc.
Civil Engineers & Land Surveyors
2475 Sugar Grove Road, SE Lancaster, Ohio 43130
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GENERAL NOTES / DETAIL SHEET
FAIRFIELD COUNTY PUBLIC SAFETY AND JAIL FACILITY

FOR THE FAIRFIELD COUNTY COMMISSIONERS

STATE OF OHIO
FAIRFIELD COUNTY
CITY OF LANCASTER
TOWNSHIP 14, RANGE 19, SECTION 1

DATE: MARCH 2015
No. C.2

030
INDEMNIFICATION

THE CONTRACTOR WILL INDEMNIFY AND HOLD HARMLESS THE CITY AND THEIR AGENTS AND EMPLOYEES FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES INCLUDING ATTORNEYS' FEES ARISING OUT OF OR RESULTING FROM PERFORMANCE OF THE WORK, PROVIDED THAT ANY SUCH CLAIMS, DAMAGE, LOSS OR EXPENSE IS ATTRIBUTABLE TO BODILY INJURY, SICKNESS, DISEASE OR DEATH, OR INJURY TO OR DESTRUCTION OF TANGIBLE PROPERTY, INCLUDING THE LOSS OF USE RESULTING THEREFROM; AND IS CAUSED IN WHOLE OR IN PART BY ANY NEGLIGENT OR WILLFUL ACT OR OMISSION OF THE CONTRACTOR, AND SUBCONTRACTOR, ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM OR ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE.

IN ANY AND ALL CLAIMS AGAINST THE CITY OR THE ENGINEER, OR ANY OF THEIR AGENTS OR EMPLOYEES, BY ANY EMPLOYEE OF THE CONTRACTOR, ANY SUBCONTRACTOR, ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, THE INDEMNIFICATION OBLIGATION SHALL NOT BE LIMITED IN ANY WAY BY ANY LIMITATION ON THE AMOUNT OR TYPE OF DAMAGES, COMPENSATION OR BENEFITS PAYABLE BY OR FOR THE CONTRACTOR OR ANY SUBCONTRACTOR UNDER WORKERS' COMPENSATION ACTS, DISABILITY BENEFIT ACTS, OR OTHER EMPLOYEE BENEFIT ACTS.

THE OBLIGATION OF THE CONTRACTOR UNDER THIS PARAGRAPH SHALL NOT EXTEND TO THE LIABILITY OF THE ENGINEER, HIS AGENTS OR EMPLOYEES ARISING OUT OF THE PREPARATION OR APPROVAL OF MAPS, PLANS, OPINIONS, REPORTS, SURVEYS, CHANGE ORDERS, DESIGNS OR SPECIFICATIONS.

035
DUMPSTER PAD

THE DUMPSTER PAD AND ENCLOSURE SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE SANITATION DEPARTMENT'S (740-687-6660) STANDARDS AS SHOWN IN STANDARD CONSTRUCTION DRAWING M-4. THE CONTRACTOR MAY CONSULT THE SUPERINTENDENT, SANITATION DEPARTMENT IF THERE ARE QUESTIONS ON THE WORK. THE DEPARTMENT WILL NOT SERVICE DUMPSTERS FROM PADS AND ENCLOSURES WHERE THE SUPERINTENDENT DETERMINES THE DEPARTMENT'S EMPLOYEES CANNOT DO SO IN A SAFE MANNER.

036
SAWING PAVEMENT

WHERE NECESSARY TO DISTURB PAVEMENT OR DRIVES, THE PAVEMENT SHALL BE SAW CUT IN NEAT, STRAIGHT LINES. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR FURNISHING AND PLACING ASPHALT CONCRETE.

037
SIDEWALKS

ALL PUBLIC SIDEWALKS AND RAMPS CONSTRUCTED AS A PART OF THIS PROJECT SHALL BE CONSTRUCTED IN FULL COMPLIANCE WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES (ADA) ACT OF 1990, INCLUDING ALL SUPPLEMENTS THERETO. SIDEWALKS AND RAMPS SHALL BE CONSTRUCTED WITH A DESIGN CROSS-SLOPE OF 1:64 (1.56%) BUT SHALL NOT EXCEED 1:50 (2.00%). IN ALL DIRECTIONS, ALL LANDING AREAS SHALL BE A MINIMUM OF 4 FEET BY 4 FEET WITH A DESIGN SLOPE OF 1.56% THAT SHALL NOT EXCEED 1:50 (2.00%). CROSSWALK AREAS BETWEEN CURB RAMPS SHALL BE DESIGNED FOR A CROSS-SLOPE OF 1:64 (1.56%) BUT SHALL NOT EXCEED 1:50 (2.00%).

040
DEWATERING

ANY WELL, WELL POINT, OR OTHER DEVICE INSTALLED FOR THE PURPOSE OF LOWERING THE GROUND WATER TO FACILITATE CONSTRUCTION OF THIS PROJECT SHALL BE PROPERLY ABANDONED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 3745-9-10 OF THE OHIO ADMINISTRATIVE CODE OR IN ACCORDANCE WITH THE PROVISIONS OF THIS PLAN AND THE WRITTEN APPROVAL OF THE CITY ENGINEER.

ANY CONTRACTOR INSTALLING ANY WELL, WELL POINT, PIT, OR OTHER DEVICE USED FOR THE PURPOSE OF REMOVING GROUND WATER FROM AN AQUIFER SHALL COMPLETE AND FILE A WELL LOG AND DRILLING REPORT FORM WITH THE OHIO DEPARTMENT OF NATURAL RESOURCES, DIVISION OF SOIL AND WATER RESOURCES, WITHIN 30 DAYS OF THE WELL COMPLETION IN ACCORDANCE WITH THE OHIO REVISED CODE, SECTION 1521.05. IF THE WATER REMOVAL DEVICE IS CAPABLE OF WITHDRAWING MORE THAN 100,000 GALLONS PER DAYS (EQUIVALENT TO 70 GALLONS PER MINUTE), THE CONTRACTOR SHALL FILE A WATER WITHDRAWAL FACILITY REGISTRATION FORM WITH THE OHIO DEPARTMENT OF NATURAL RESOURCES, DIVISION OF SOIL AND WATER RESOURCES IN ACCORDANCE WITH THE OHIO REVISED CODE, SECTION 1521.16.

FOR COPIES OF THE NECESSARY WELL LOG, DRILLING REPORT, OR REGISTRATION FORMS, PLEASE CONTACT:

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF SOIL AND WATER RESOURCES
2045 MORSE ROAD, BUILDING B-3
COLUMBUS, OHIO 43229-6693
(614) 265-6610

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO THE O.D.N.R. FOR THE REGISTRY, MAINTENANCE, AND ABANDONMENT OF ANY WITHDRAWAL DEVICE USED IN THE CONSTRUCTION OF THIS PROJECT.

041
WORK IN PUBLIC RIGHTS-OF-WAY

NO WORK SHALL BEGIN WITHIN THE PUBLIC RIGHT-OF-WAY UNTIL AN APPROVED PERMIT TO OCCUPY THE PUBLIC RIGHT-OF-WAY HAS BEEN OBTAINED FROM THE CITY. THE CONTRACTOR SHALL INCLUDE WITH HIS PERMIT APPLICATION HIS TRAFFIC CONTROL PLAN FOR WORKING IN THE RIGHT-OF-WAY. THIS RESTRICTION INCLUDES, BUT IS NOT LIMITED TO, THE CLOSURE OF ANY STREET OR STREET LANES, AND THE PLACEMENT OF CONSTRUCTION EQUIPMENT, MATERIAL, TRAILERS AND/OR DEBRIS. IF EXCAVATION IN THE RIGHT-OF-WAY IS REQUIRED, THE CONTRACTOR MUST ALSO OBTAIN A RIGHT-OF-WAY EXCAVATION PERMIT THAT, IN ADDITION TO THE AFORESAID INFORMATION, INCLUDES AN ESTIMATE OF THE PAVEMENT AREA TO BE DISTURBED.

042
BACKFILL IN PAVEMENT AREAS

ALL BACKFILL OF TRENCHES WITHIN THE PAVEMENT INFLUENCE LINES SHALL BE COMPACTED GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CMSL ITEM 912, UNLESS OTHERWISE SPECIFIED.

043
CONSTRUCTION ENTRANCE

A MINIMUM OF FIVE (5) DAYS PRIOR TO BEGINNING WORK OR MOVING EQUIPMENT AND/OR MATERIALS ONTO THE SITE, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEERING DEPARTMENT AN APPLICATION FOR A CURB CUT OR DRIVEWAY PERMIT FOR HIS CONSTRUCTION ENTRANCE, IF APPLICABLE. ALL DELIVERIES AND ACCESS TO THE SITE SHALL BE RESTRICTED TO THE APPROVED CONSTRUCTION ENTRANCE. AT THE TIME THE APPLICATION IS REVIEWED, THE EXISTING CURBING WILL BE INSPECTED AND ANY CRACKS OR BREAKS WILL BE NOTED. ANY CURBING DAMAGED DURING THE PROJECT WILL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.

THE CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING D-9 TO MINIMIZE THE TRACKING OF MUD, DIRT, STONES, AND OTHER DEBRIS FROM THE PROJECT SITE ONTO THE PUBLIC STREET. EXISTING CURBING REMOVED FOR THE PROJECT SHALL BE REPLACED PER CITY SPECIFICATIONS. DRIVE ENTRANCES ONTO THE PUBLIC STREET SHALL BE CONSTRUCTED IN CONFORMITY WITH STANDARDS AND SPECIFICATIONS OF THE CITY.

044
INSPECTIONS

VARIOUS ITEMS OF WORK ON THIS PROJECT WILL REQUIRE INSPECTIONS BY CITY PERSONNEL. INSPECTIONS WILL BE REQUIRED ON, BUT NOT LIMITED TO, CURB CUTS AND DRIVE APPROACHES, GAS TAPS AND LINE, WATER TAPS AND LINES, SANITARY SEWER TAPS AND LINE, STORM SEWER TAPS AND LINE, STORMWATER DETENTION OR RETENTION FACILITIES, AND DUMPSTER PADS AND ENCLOSURES. INSPECTIONS SHALL BE REQUESTED NO LESS THAN 48 HOURS IN ADVANCE. INSPECTIONS WILL ONLY BE PERFORMED MONDAY THROUGH FRIDAY, EXCLUDING HOLIDAYS, BETWEEN 7:30 A.M. AND 3:30 P.M. FAILURE TO OBTAIN A REQUIRED INSPECTION SHALL BE CAUSE FOR THE CITY TO DENY SERVICE TO THE FACILITY.

045
PLATING OF TRENCHES IN PUBLIC STREETS

BETWEEN NOVEMBER 15 AND APRIL 15, THE CONTRACTOR SHALL NOT TEMPORARILY PLATE ANY EXCAVATION WITHIN A PUBLIC STREET'S PAVEMENT AREA WITHOUT THE PERMISSION OF THE SUPERINTENDENT OF THE CITY'S DEPARTMENT OF TRANSPORTATION.

301
TRAFFIC CONTROL

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN TRAFFIC WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL ERECT, MAINTAIN AND REMOVE THE NECESSARY TRAFFIC CONTROL DEVICES, BARRICADES, FLAGMEN, AND LIGHTS TO SAFELY MAINTAIN TRAFFIC AROUND HIS OPERATIONS. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE CITY OF LANCASTER'S TRAFFIC CONTROL FOR CONSTRUCTION AND MAINTENANCE OPERATIONS.

IN NO CASE SHALL THE STIPULATIONS OF THESE TRAFFIC CONTROL NOTES WAIVE THE REQUIREMENTS OF EITHER THE CONSTRUCTION AND MATERIAL SPECIFICATIONS OR THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

309
STREET AND LANE CLOSINGS

NO STREET OR PART OF ANY STREET, INCLUDING THE SIDEWALK, SHALL BE PERMITTED TO BE CLOSED WITHOUT AN APPROVED PERMIT TO OCCUPY THE PUBLIC RIGHTOFWAY FROM THE SERVICESAFETY DIRECTOR. THE CONTRACTOR SHALL SUBMIT HIS REQUEST, ALONG WITH A PLAN OF THE PROPOSED DETOUR ROUTE AND MAINTENANCE OF TRAFFIC PLAN, A MINIMUM OF SEVENTY-TWO (72) HOURS BEFORE THE ACTUAL CLOSING, WEEKENDS AND HOLIDAYS EXCLUDED. THERE IS NO FEE FOR THIS PERMIT.

IF THE CLOSING IS APPROVED, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND SUPERINTENDENT, DEPARTMENT OF TRANSPORTATION A MINIMUM OF FOUR (4) HOURS BEFORE HE IMPLEMENTS THE ACTUAL CLOSING. THE CONTRACTOR SHALL ALSO NOTIFY ANY AFFECTED RESIDENTS OR BUSINESSES PRIOR TO THE CLOSING AS TO THE EXTENT, NATURE, AND DURATION OF THE CLOSURE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 614, MAINTAINING TRAFFIC.

THE LENGTH AND DURATION OF LANE AND/OR STREET CLOSURES SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

310
SPECIAL DUTY POLICE OFFICERS

WHEN THE CONTRACTOR REQUIRES THE SERVICES OF A SPECIAL DUTY CITY POLICE OFFICER, WITH OR WITHOUT A CITY POLICE CRUISER, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THESE SERVICES WITH THE CAPTAIN OF OPERATIONS, LANCASTER POLICE DEPARTMENT, 740-6876680. NOTICE OF ONE (1) WEEK SHOULD BE PROVIDED TO ENSURE THE AVAILABILITY OF A SPECIAL DUTY CITY POLICE OFFICER. LESSER NOTICE MAY RESULT IN THE UNAVAILABILITY OF A SPECIAL DUTY CITY POLICE OFFICER. ANY RESULTING DELAY TO THE PROJECT DUE TO THE UNAVAILABILITY OF A SPECIAL DUTY CITY POLICE OFFICER SHALL NOT BE THE RESPONSIBILITY OF THE CITY OF LANCASTER.

SPECIAL DUTY CITY POLICE OFFICERS SHALL BE CONSIDERED AS EMPLOYEES OF THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH EMPLOYED BY THE CONTRACTOR, THE PROJECT ENGINEER SHALL HAVE CONTROL OVER THEIR PLACEMENT.

PAYMENT FOR THE SERVICES OF SPECIAL DUTY CITY POLICE OFFICERS AND CITY POLICE CRUISERS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 614, MAINTENANCE OF TRAFFIC UNLESS OTHERWISE SET FORTH AS A SEPARATE PAY ITEM IN THESE PLANS.

801
WATERLINE INSTALLATION

IN ADDITION TO THE REQUIREMENTS IN CMSL, ALL WATERLINES AND APPURTENANCES SHALL BE INSTALLED IN CONFORMITY WITH THE CITY OF LANCASTER STANDARD CONSTRUCTION DRAWINGS (COL SCD) AND OHIO EPA REGULATIONS. THE CONTRACTOR SHALL SUBMIT MANUFACTURER'S "CUT SHEETS" TO THE DISTRIBUTION MANAGER, DIVISION OF WATER FOR ALL WATERLINE ITEMS/MATERIALS PRIOR TO PURCHASING THOSE ITEMS/MATERIALS. ANY INSTALLATION OF NON-APPROVED ITEMS/MATERIALS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

ALL WATER LINE WORK SHALL BE INSPECTED BY DIVISION OF WATER PERSONNEL AND NOT BACKFILLED UNTIL APPROVED. NO VALVES CONNECTING THE CONTRACTOR'S WORK TO THE PUBLIC WATER DISTRIBUTION SYSTEM SHALL BE OPENED UNTIL THE WATERLINE AND APPURTENANT WORK HAS BEEN APPROVED BY THE DISTRIBUTION MANAGER, DIVISION OF WATER.

803
WATER MAIN PROTECTION

LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL WATER LINES, SERVICES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT HIS DETAILS AND METHODS OF SUPPORTING THE WATER LINES ACROSS ANY TRENCH TO THE ENGINEER FOR APPROVAL BY THE DISTRIBUTION MANAGER, DIVISION OF WATER. SUPPORT METHOD AND DETAIL APPROVAL SHALL BE SECURED PRIOR TO THE COMMENCEMENT OF EXCAVATION OPERATIONS.

804
WATER MAIN AND SERVICE LOCATION

ALL EXISTING WATER MAINS SHOWN ON THE PLANS WERE OBTAINED BY DILIGENT SEARCHES OF EXISTING RECORDS AND FIELD OBSERVATIONS. LOCATIONS AND ELEVATIONS ARE APPROXIMATE ONLY. ALL INDIVIDUAL SERVICE LINES MAY NOT BE SHOWN AND SHOULD BE LOCATED BY THE CONTRACTOR PRIOR TO EXCAVATION. CALL 740-687-6631 IF ASSISTANCE IS NEEDED IN LOCATING THESE SERVICES.

808
BACKFILL FOR WATER LINES

BACKFILL FOR WATER MAINS UNDER THE PAVEMENT AND WITHIN THE INFLUENCE LINES FOR SUPPORT OF THE PAVEMENT SHALL BE BACKFILLED WITH GRANULAR MATERIAL MEETING THE REQUIREMENTS OF ODOT ITEM 304. BACKFILL OUTSIDE THE INFLUENCE LINES FOR SUPPORT OF THE PAVEMENT SHALL BE COMPACTED TO THE FULL WIDTH OF THE TRENCH TO MEET REQUIREMENTS OF CMSL ITEM 911.

PAYMENT FOR THIS WORK SHALL BE INCLUDED WITH THE ITEM BID FOR FURNISHING AND INSTALLING PIPE.

809
CONSTRUCTION PROCEDURE

THE TIME OF ALL WATER MAIN SHUT DOWNS SHALL BE DETERMINED BY THE WATER DEPARTMENT. WHERE FEASIBLE THE RELOCATED LINES SHALL BE LAID TO THE NEW LINE AND GRADE, TESTED, AND DISINFECTED PRIOR TO SHUTTING DOWN ANY EXISTING WATER MAIN. THE CONNECTIONS OF THE RELOCATED LINE TO THE EXISTING MAIN SHALL BE DONE AT A TIME APPROVED BY THE DISTRIBUTION MANAGER, DIVISION OF WATER. ALL OPERATION OF EXISTING WATER MAIN VALVES SHALL BE DONE BY THE DIVISION OF WATER AND NOT THE CONTRACTOR.

811
DISINFECTION

ALL WATER LINES SHALL BE DISINFECTED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF A.W.W.A. C651.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBSEQUENT BACTERIAL TESTING OF THE PROJECT'S WATERLINES BEFORE OPENING THE NEW LINES TO THE CITY'S DISTRIBUTION SYSTEM. WATER SAMPLES SHALL BE TAKEN AS DIRECTED BY THE DISTRIBUTION MANAGER, DIVISION OF WATER. TESTING SHALL BE PERFORMED AT AN OHIO EPA APPROVED LABORATORY. THE LABORATORY SHALL PROVIDE A CERTIFIED REPORT OF THE TEST RESULTS TO THE DISTRIBUTION MANAGER, DIVISION OF WATER.

812
WATER LINE DEPTH

WATER LINES SHALL BE LAID WITH A MINIMUM OF 4' 6" DEPTH FROM THE TOP OF FINISHED GRADE (CURB) TO THE TOP OF THE WATER LINE.

813
CONNECTING WATERLINES

THE CONNECTION OF EXISTING WATERLINES AND SERVICES TO PROPOSED WATERLINES SHALL BE DONE IN A MANNER THAT WILL CAUSE A MINIMUM OF INCONVENIENCE TO THOSE WITH AFFECTED SERVICES. WORK CONCERNING A DISCONNECTION AND RECONNECTION OF EXISTING WATERLINES SHALL BE DONE BETWEEN THE HOURS OF 10:00 P.M. AND 5:00 A.M. OR AS DIRECTED BY THE DISTRIBUTION MANAGER, DIVISION OF WATER. THE CONTRACTOR SHALL PROVIDE THE DISTRIBUTION MANAGER, DIVISION OF WATER WITH THE METHOD AND SCHEDULE OF SUCH WORK FOR APPROVAL. UPON APPROVAL OF THE METHOD AND SCHEDULE, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER, THE LANCASTER FIRE DEPARTMENT AND THE RESIDENTS WHOSE SERVICES ARE BEING AFFECTED BEFORE BEGINNING WORK.

814
TESTING OF WATER LINES

ANY TESTING PERFORMED AGAINST EXISTING VALVES SHALL BE DONE AT THE CONTRACTOR'S RISK AND IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF THE DISTRIBUTION MANAGER, DIVISION OF WATER. IF SATISFACTORY TEST RESULTS CANNOT BE OBTAINED AGAINST AN EXISTING VALVE, THE NEW LINE SHALL BE DISCONNECTED FROM THE EXISTING LINE, PLUGGED AND RETESTED. DAMAGE CAUSED TO EXISTING LINES AND VALVES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.

901
SERVICE CONNECTIONS

SERVICES OR HOUSE CONNECTIONS SHALL NOT BE CONNECTED TO THE LATERAL OR MAIN LINE SEWERS SHOWN HEREON UNTIL FULL APPROVAL OF SAID LATERAL OR MAIN LINE SEWER HAS BEEN RECEIVED.

904
BACKFILL FOR SANITARY SEWERS

ALL TRENCH BACKFILL SHALL BE COMPACTED GRANLUAR BACKFILL AS PER ODOT ITEM 304. THE COST OF ALL COMPACTED GRANULAR BACKFILL SHALL BE INCLUDED IN THE PRICE BID FOR FURNISHING AND INSTALLING PIPE.

905
CONNECTION TO EXISTING SANITARY

WHERE THE PLANS PROVIDE FOR PROPOSED CONDUIT TO BE CONNECTED TO, OR TO CROSS EITHER OVER OR UNDER AN EXISTING CONDUIT, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE EXISTING CONDUIT BOTH AS TO LINE AND GRADE BEFORE HE STARTS TO LAY THE PROPOSED CONDUIT.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE ITEMS BID FOR FURNISHING AND INSTALLING PIPE.

906
CONNECTIONS TO EXISTING STRUCTURES

WHERE NEW SEWERS ARE CONNECTED TO EXISTING STRUCTURES (MANHOLES, CATCH BASINS, ETC.), THE CONTRACTOR SHALL CORE DRILL ANY NEW OPENINGS INTO THE EXISTING STRUCTURE BY A METHOD APPROVED BY THE CITY ENGINEER. THE CONTRACTOR SHALL CLEAN THE STRUCTURE OF ALL DEBRIS BEFORE MAKING THE CONNECTION. THE CONTRACTOR SHALL CONSTRUCT A SEMICIRCULAR, CONCRETE CHANNEL TO THE NEW PIPE TO PROVIDE SMOOTH, UNINTERRUPTED FLOW THROUGH THE STRUCTURE.

907
SANITARY SEWER MANHOLE CONNECTIONS

THE SANITARY SEWER PIPE TO MANHOLE CONNECTIONS SHALL BE OF A FLEXIBLE WATERTIGHT JOINT OF APPROVED MANUFACTURE. THE JOINT SHALL BE A RUBBER SLEEVE WITH STAINLESS STEEL BANDING. A-LOCKS ARE NOT ACCEPTABLE.

908
PROHIBITION OF CLEAN WATER CONNECTIONS TO SANITARY SEWERS

ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED IN THE CITY OF LANCASTER. WHERE SANITARY SEWER WORK IS EXPOSED TO STORM WATER FLOWS OR OTHER CLEAN WATER SOURCES, THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT STORM OR OTHER CLEAN WATER FLOW FROM ENTERING THE SANITARY SEWER SYSTEM, INCLUDING, BUT NOT LIMITED TO, THE PLUGGING OF ALL OPEN SEWER PIPE AND/OR OTHER OPENINGS AT THE END OF EACH WORK DAY.

909
EXISTING BRICK SEWERS

THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING ADJACENT TO EXISTING BRICK SEWERS. FLOW IN THE SEWER DURING STORM RUNOFF COULD BE IN A SURCHARGED (PRESSURE) CONDITION. ALL BRICK SEWERS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED TO THE SATISFACTION OF THE ENGINEER. COST OF THIS WORK INCLUDING NEW PIPE, CONCRETE COLLARS, BACKING, ENCASEMENT, EXCAVATION, BRACING AND ALL OTHER MATERIALS AND LABOR NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE PRICE BID FOR CMSL ITEM 901.

911
SEWER INSPECTIONS

PIPE LAYING AND BACKFILL SHALL BE PERFORMED IN ACCORDANCE WITH PERTINENT CONSTRUCTION AND MATERIAL SPECIFICATIONS OF LANCASTER AND CITY OF LANCASTER STANDARD CONSTRUCTION DRAWINGS. BACKFILLING OPERATIONS SHALL NOT BEGIN UNTIL THIS WORK HAS BEEN INSPECTED BY THE CITY ENGINEER OR HIS REPRESENTATIVE. THIS INSPECTION PRIOR TO THE BACKFILLING OPERATION DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES FOR THE LEAKAGE TESTS. INSPECTIONS MUST BE REQUESTED TWENTYFOUR (24) HOURS IN ADVANCE. INSPECTIONS WILL ONLY BE PERFORMED ON WEEKDAYS BETWEEN 7:30 A.M. AND 3:30 P.M. EXCLUDING CITY HOLIDAYS. REQUESTS FOR INSPECTIONS ON WEEKENDS OR HOLIDAYS MUST BE SUBMITTED IN WRITING FORTYEIGHT (48) HOURS IN ADVANCE. REQUESTS MUST STATE THE SPECIAL CIRCUMSTANCES WARRANTING THE INSPECTION.

917
EXISTING SEWERS AND STRUCTURES

THE CONTRACTOR SHALL REPLACE TO THE SATISFACTION OF THE ENGINEER ALL EXISTING MANHOLES, CATCH BASINS, DRAINS, SEWERS AND APPURTENANCES REMOVED OR DAMAGED DURING CONSTRUCTION. THE ABOVE IS NOT APPLICABLE TO STRUCTURES TO BE ABANDONED. THE CONTRACTOR SHALL REMOVE DEBRIS, SILT, ETC. FROM EXISTING MANHOLES AND CATCH BASINS AND VARIOUS SEWER PIPES WHICH ARE CONNECTED IN THE NEW SYSTEM.

918
EXISTING SEWAGE FLOWS

THE CONTRACTOR SHALL MAKE PROVISIONS TO MAINTAIN FLOWS IN THE EXISTING SEWER AT ALL TIMES DURING CONSTRUCTION. METHODS FOR MAINTAINING FLOWS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. AT NO TIME WILL SANITARY SEWAGE BE ALLOWED TO DISCHARGE TO ANY RIVER OR STREAM NOR SPILL OUT ON THE GROUND. APPROVAL OF PLANS BY THE ENGINEER TO MAINTAIN FLOWS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY TO ADEQUATELY PROVIDE FOR ALL FLOWS.

THE CONTRACTOR SHALL BE AWARE THAT THE EXISTING SEWERS MAY BE OPERATING UNDER PRESSURE (HEAD) DURING TIMES OF RAINFALL; THEREFORE THE CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING ON THESE SEWERS.

PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE ITEM BID FOR FURNISHING AND INSTALLING PIPE.

922
SANITARY SEWER LATERALS

ALL BACKFILL FOR SANITARY SEWER LATERALS UNDER THE EXISTING OR PROPOSED STREET PAVEMENT AND WITHIN THE INFLUENCE OF THE PAVEMENT SHALL BE COMPACTED GRANULAR MATERIAL PER CMSL 912. THE REMAINING BACKFILL WITHIN THE STREET RIGHT-OF-WAY SHALL BE COMPACTED BACKFILL PER CMSL ITEM 911.

FIELD TILES/ SUBSURFACE DRAINS

FIELD TILES OR SUBURFACE DRAINS ENCOUNTERED DURING CONSTRUCTION SHALL BE REPORTED TO THE CITY OF LANCASTER. NO CONNECTION OF THESE DRAINS TO THE STORMWATER MANAGEMENT SYSTEM OR THE SANITARY SEWER WILL BE ALLOWED WITHOUT THE APPROVAL OF THE CITY OF LANCASTER.

2LMN, Inc.
Civil Engineers & Land Surveyors
2475 Sugar Grove Road, SE Lancaster, Ohio 43130
(740) 687-5542 Phone - (740) 687-0086 Fax - www.2LMN.com

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GENERAL NOTES
FAIRFIELD COUNTY PUBLIC SAFETY AND JAIL FACILITY

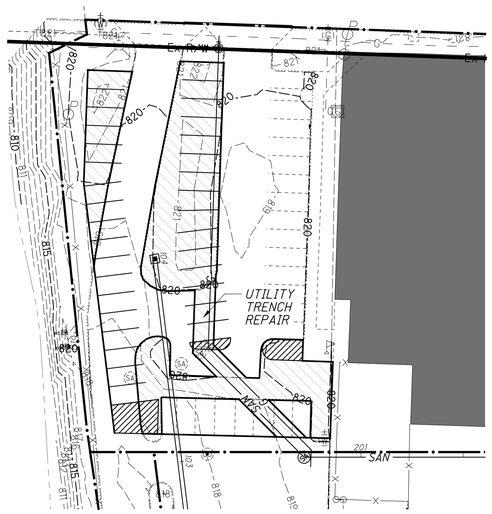
FOR THE FAIRFIELD COUNTY COMMISSIONERS

STATE OF OHIO
FAIRFIELD COUNTY
CITY OF LANCASTER
TOWNSHIP 14, RANGE 19, SECTION 1

DATE: MARCH 2015

No. C.3

TEMPORARY PARKING DETAIL



LEGEND

TEMPORARY PARKING (7,492 SF)
ITEM 448 - 2" ASPHALT CONCRETE INTERMEDIATE COURSE
ITEM 304 - 4" AGGREGATE BASE

ITEM 202 - CONCRETE REMOVED

ITEM 202 - ASPHALT REMOVED

EXISTING BUILDING

TREE REMOVED

ITEM DESCRIPTION

F-1 80' CABLE FENCE REMOVED
F-2 81' CABLE FENCE REMOVED
F-3 606' CHAINLINK FENCE REMOVED
F-4 193' CHAINLINK FENCE REMOVED
F-5 32' WOOD FENCE REMOVED

LR-X LIGHT POLE REMOVED

C-X CATCH BASIN REMOVED

R-1 DRAIN REMOVED
R-2 GENERATOR REMOVED
R-3 BOLLARDS REMOVED
R-4 91' GUARDRAIL REMOVED
R-5 FLAG POLE REMOVED
R-6 SIGN REMOVED
R-7 SIGN REMOVED
R-8 27' GUARDRAIL REMOVED
R-9 101' - 8" SANITARY REMOVED
R-10 147' - 8" SANITARY REMOVED
R-11 SANITARY CLEANOUT REMOVED
R-12 SANITARY CLEANOUT REMOVED
R-13 SANITARY VALVE REMOVED

ALL EXISTING SANITARY LINES WITHIN PROJECT AREA ARE TO REMAIN UNDISTURBED.

ALL EXISTING STORM LINES ARE TO BE REMOVED. A CONTINGENCY HAS BEEN ADDED TO THE STORM LINE REMOVAL QUANTITY.

REMOVAL QUANTITIES HAVE BEEN CARRIED TO SHEET C.1.

CONSTRUCTION PHASES:

PHASE 1 : REMOVAL OF EXISTING PAVEMENT AND SOUTHERN-MOST PART OF EXISTING BUILDING FOR CONSTRUCTION OF NEW FACILITY. EXISTING BUILDING AND NORTHWEST PARKING LOT TO REMAIN IN SERVICE UNTIL ALL FACILITY ACTIVITY IS MOVED INTO NEW BUILDING.

PHASE 2: REMOVAL OF EXISTING BUILDING AND REMAINING EXISTING PARKING LOT. COMPLETE PROPOSED NORTHERN PARKING LOT UPON COMPLETION OF PHASE 2 DEMOLITION. PHASE 2 DEMOLITION SHALL NOT INTERFERE WITH OR DAMAGE NEW BUILDING OR PARKING LOT.

2LMN, Inc.
Civil Engineers & Land Surveyors
2475 Sugar Grove Road, SE Lancaster, Ohio 43130
(740) 687-5542 Phone - (740) 687-0086 Fax - www.2LMN.com

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GRAPHIC SCALE
30 0 15 30
Sheet Size: 30 inch x 42 inch
Scale: 1 inch = 30 ft.

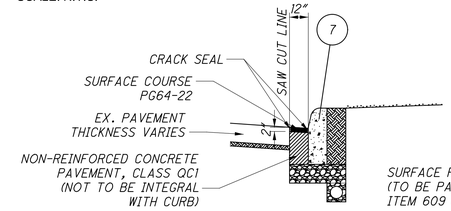
DEMOLITION PLAN
FAIRFIELD COUNTY PUBLIC SAFETY AND JAIL FACILITY

FOR THE FAIRFIELD COUNTY COMMISSIONERS
STATE OF OHIO
FAIRFIELD COUNTY
CITY OF LANCASTER
TOWNSHIP 14, RANGE 19, SECTION 1

DATE: MARCH 2015
No. C.4

CURB REPLACEMENT - PUBLIC STREETS

SCALE: N.T.S.

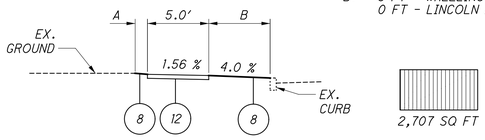


CONCRETE WALK - PUBLIC STREETS

SCALE: N.T.S.

A: 1 FT - WHEELING ST.
0 FT - LINCOLN AVE.

B: 6 FT - WHEELING ST.
0 FT - LINCOLN AVE.



2,707 SQ FT

STANDARD COMMERCIAL DRIVEWAY (P-23)

D-X

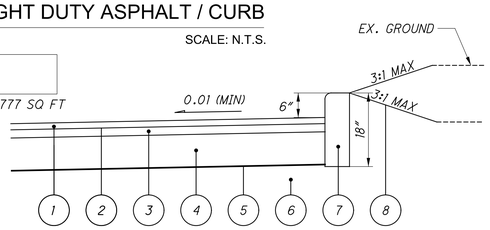
1,578 SQ FT

A CURB CUT PERMIT WILL BE REQUIRED PRIOR TO THE CONSTRUCTION OF NEW DRIVEWAYS.

LIGHT DUTY ASPHALT / CURB

SCALE: N.T.S.

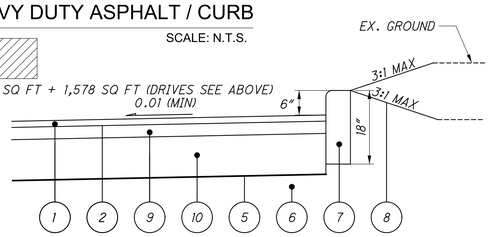
109,777 SQ FT



HEAVY DUTY ASPHALT / CURB

SCALE: N.T.S.

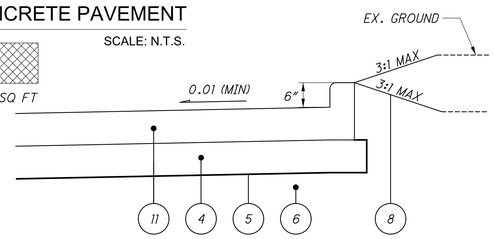
12,885 SQ FT + 1,578 SQ FT (DRIVES SEE ABOVE)



CONCRETE PAVEMENT

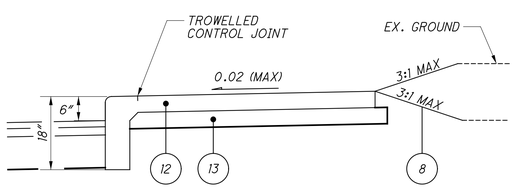
SCALE: N.T.S.

4,758 SQ FT



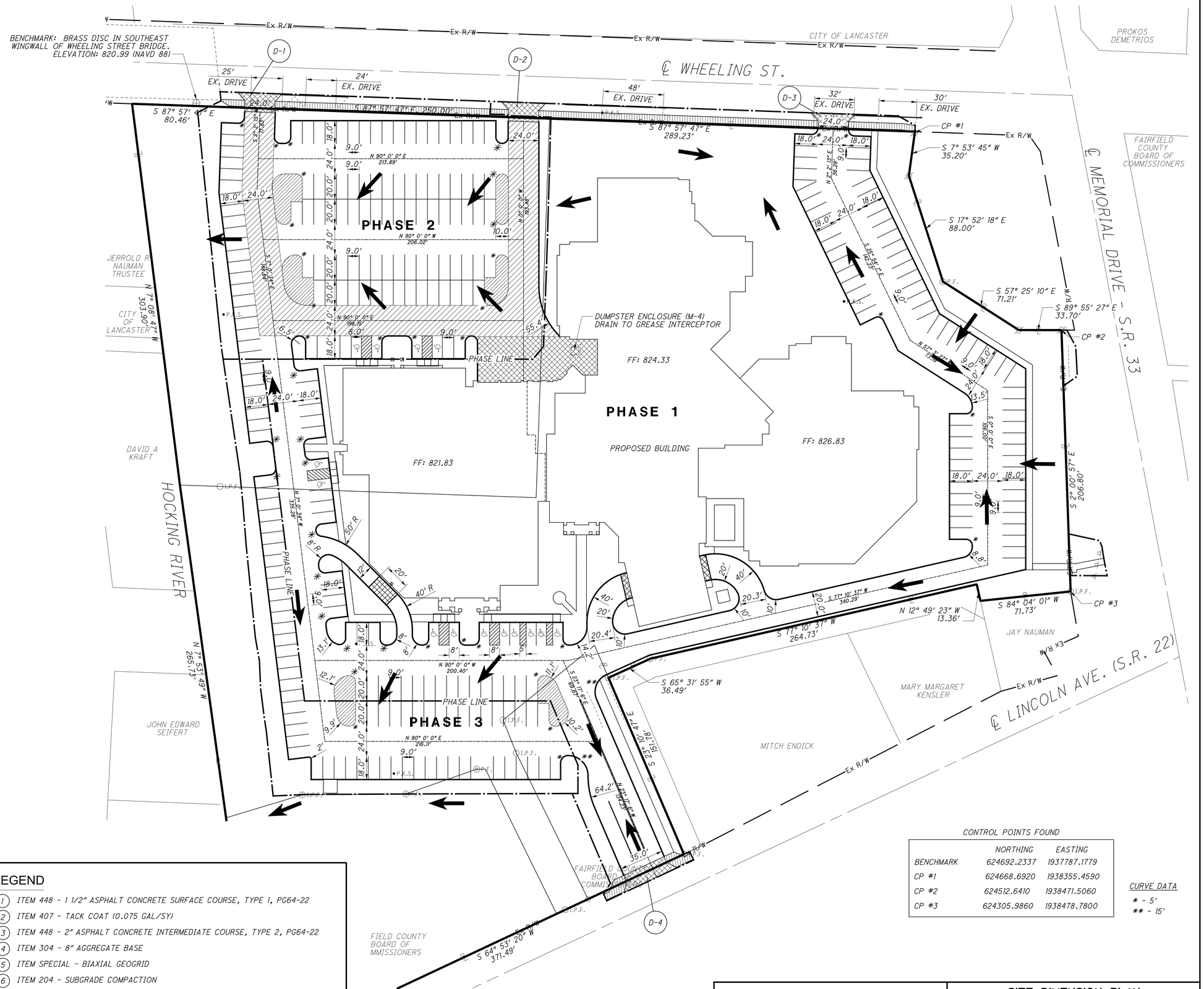
CONCRETE WALK / CURB - ADJACENT TO PARKING

9,295 SQ. FT. SCALE: N.T.S.



LEGEND

1. ITEM 448 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
2. ITEM 407 - TACK COAT (0.075 GAL/SY)
3. ITEM 448 - 2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
4. ITEM 304 - 8" AGGREGATE BASE
5. ITEM SPECIAL - BIAXIAL GEOGRID
6. ITEM 204 - SUBGRADE COMPACTION
7. ITEM 609 - CONCRETE CURB, TYPE 6
8. ITEM 659 - SEEDING AND MULCHING
9. ITEM 448 - 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
10. ITEM 304 - 10" AGGREGATE BASE
11. ITEM 451 - 8" REINFORCED CONCRETE PAVEMENT
12. ITEM 608 - 4" CONCRETE WALK
13. ITEM 304 - 4" AGGREGATE BASE



CONTROL POINTS FOUND

	NORTHING	EASTING
BENCHMARK	624692.2337	1937787.1779
CP #1	624668.6920	1938355.4590
CP #2	624512.6410	1938471.5060
CP #3	624305.9860	1938478.7800

CURVE DATA

* - 5'
** - 15'

2LMN, Inc.
Civil Engineers ✧ Land Surveyors
2475 Sugar Grove Road, SE Lancaster, Ohio 43130
(740) 687-5542 Phone - (740) 687-0086 Fax - www.2LMN.com

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NORTHING

GRAPHIC SCALE

30 0 15 30

Sheet Size: 30 inch x 42 inch
Scale: 1 inch = 30 ft.

SITE DIMENSION PLAN
FAIRFIELD COUNTY PUBLIC SAFETY AND JAIL FACILITY

FOR THE FAIRFIELD COUNTY COMMISSIONERS

STATE OF OHIO
FAIRFIELD COUNTY
CITY OF LANCASTER
TOWNSHIP 14, RANGE 19, SECTION 1

DATE: MARCH 2015

No. C.5

NOTES:

1. ELEVATIONS GIVEN ARE TO THE TOP OF PAVEMENT OR TOP OF FINISHED GRADE.

2. FINISHED GRADE BELOW CELL WINDOWS SHALL BE A MINIMUM OF 6 FEET BELOW THE BOTTOM OF THE SASH GLAZING.

3. THE BASE FLOOD ELEVATION, FLOODWAY AND FLOODPLAINS SHOWN ARE TAKEN FROM THE FOLLOWING FEMA FLOOD INSURANCE RATE MAP:
MAP NUMBER: 39045C0253G
EFFECTIVE DATE: JANUARY 6, 2012

BENCHMARK: BRASS DISC IN SOUTHEAST WINGWALL OF WHEELING STREET BRIDGE. ELEVATION: 820.99 (NAVD 88)

℄ WHEELING ST.

℄ MEMORIAL DRIVE - S.R. 33

℄ LINCOLN AVE. (S.R. 22)

Ex R/W

PHASE 1

PHASE 2

PHASE 3

PHASE LINE

FF: 824.33

FF: 826.83

FF: 821.83

BLDG. FOOTPRINT WITHOUT SHERRIFFS OFFICE (ALT G-1)

FINISHED GRADE SHALL NOT EXCEED EXISTING MAXIMUM STREAM BANK ELEVATION OF 818.04 FOR FLOOD ROUTING PURPOSES.

FINISHED GRADE SHALL NOT EXCEED EXISTING MAXIMUM STREAM BANK ELEVATION OF 818.07 FOR FLOOD ROUTING PURPOSES.

1% ANNUAL CHANCE FLOODPLAIN BOUNDARY

0.2% ANNUAL CHANCE FLOODPLAIN BOUNDARY

FLOODWAY BOUNDARY

HOCKING RIVER

EXISTING FLOODWAY

BFE: 817.50

BFE: 817.00

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NORTH

GRAPHIC SCALE

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GRADING PLAN
FAIRFIELD COUNTY PUBLIC SAFETY AND JAIL FACILITY

FOR THE FAIRFIELD COUNTY COMMISSIONERS

STATE OF OHIO
FAIRFIELD COUNTY
CITY OF LANCASTER
TOWNSHIP 14, RANGE 19, SECTION 1

DATE: MARCH 2015

No. C.6

SANITARY SEWER

- (S-1) PROPOSED 8" SANITARY SERVICE
- (S-2) TEMPORARY 6" SEDIMENT BASIN OUTLET
- (S-3) PROPOSED 6" SANITARY SERVICE
- (S-4) TEMPORARY 6" SEDIMENT BASIN OUTLET
- (S-5) EXISTING 6" SANITARY SERVICE (TO BE PLUGGED AND VACATED)
- (S-6) EXISTING 6" SANITARY SERVICE (TO BE PLUGGED AND VACATED)
- (S-7) PROPOSED SANITARY MH SEE SHEET C.8
- (S-8) PROPOSED SANITARY CLEANOUT SEE SHEET C.8
- (S-9) PROPOSED SANITARY CLEANOUT SEE SHEET C.8
- (A-1) MANHOLE ADJUSTED TO GRADE EX. RIM ELEV: 819.78 PR. RIM ELEV: 819.15
- (A-2) MANHOLE ADJUSTED TO GRADE EX. RIM ELEV: 820.00 PR. RIM ELEV: 819.10
- (A-3) MANHOLE ADJUSTED TO GRADE EX. RIM ELEV: 817.87 PR. RIM ELEV: 817.27
- (A-4) MANHOLE ADJUSTED TO GRADE EX. RIM ELEV: 818.73 PR. RIM ELEV: 819.44
- (A-5) MANHOLE ADJUSTED TO GRADE EX. RIM ELEV: 819.08 PR. RIM ELEV: 819.13
- (A-6) MANHOLE ADJUSTED TO GRADE EX. RIM ELEV: 818.37 PR. RIM ELEV: 819.43

MONITORING WELLS

- (M-1) MONITORING WELLS ADJUSTED

WATERLINE

- (W-1) PROPOSED 6" WATER SERVICE

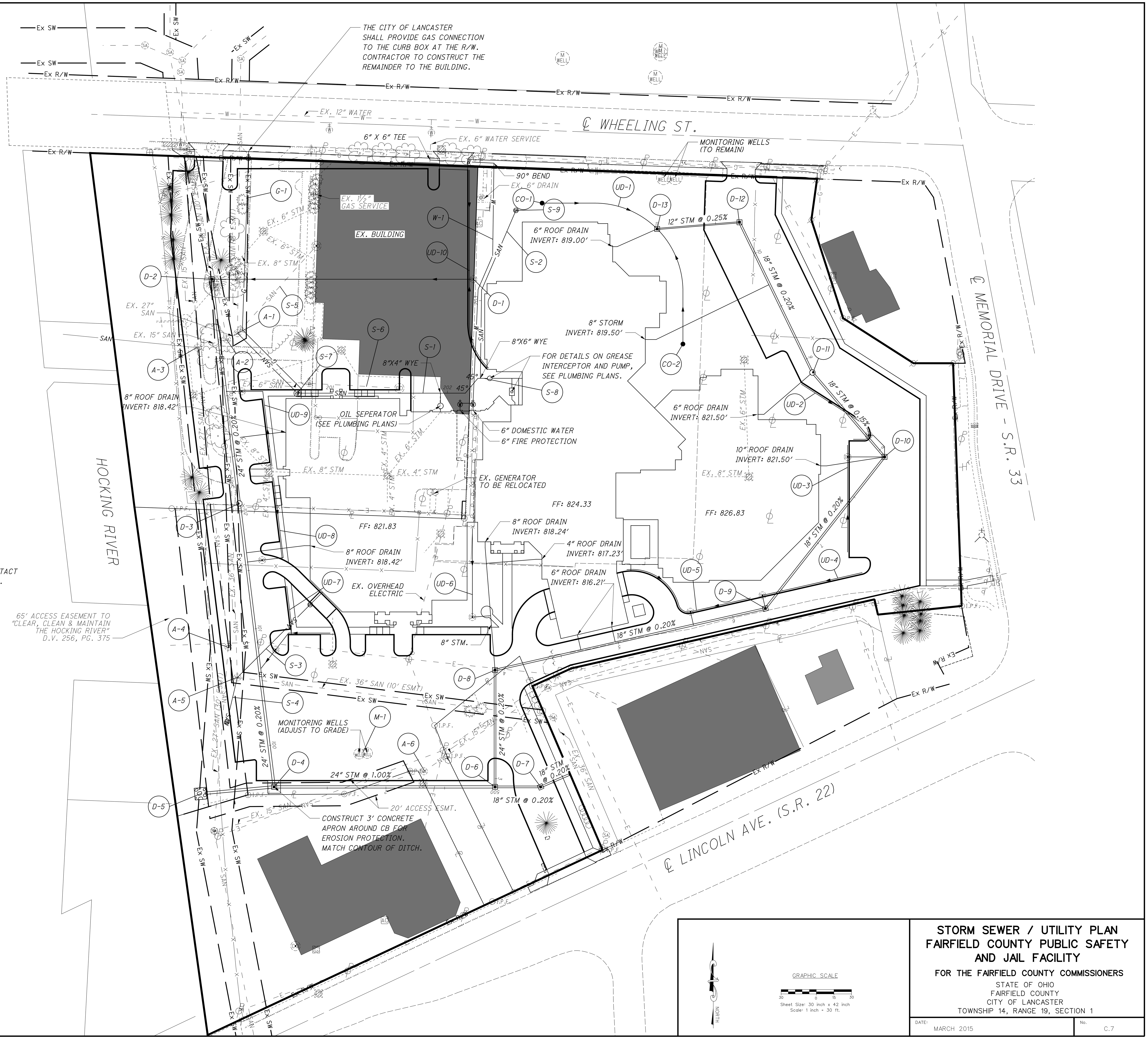
GAS

GAS METERS MUST BE OBTAINED FROM LANCASTER MUNICIPAL GAS ONLY. CONTACT LANCASTER MUNICIPAL GAS AT 687-6670 FOR THE METER SET DETAIL DRAWING.

- (G-1) 226' - 2" GAS SERVICE, ASTM LISTED POLYETHELENE

STORM SEWER

- (CO-X) CLEAN OUT
- (D-X) STORM SEWER STRUCTURE (SEE PROFILE - SHEET C.8)
- (UD-1) 208' - 4" UNDERDRAIN PERFORATED, W/ FILTER SOCK
- (UD-2) 89' - 4" UNDERDRAIN PERFORATED, W/ FILTER SOCK; 27' - 4" UNDERDRAIN UNPERFORATED, 1 CLEAN OUT
- (UD-3) 81' - 4" UNDERDRAIN PERFORATED, W/ FILTER SOCK; 32' - 4" UNDERDRAIN UNPERFORATED, 1 CLEAN OUT
- (UD-4) 88' - 4" UNDERDRAIN PERFORATED, W/ FILTER SOCK; 12' - 4" UNDERDRAIN UNPERFORATED, 1 CLEAN OUT
- (UD-5) 124' - 4" UNDERDRAIN PERFORATED, W/ FILTER SOCK; 12' - 4" UNDERDRAIN UNPERFORATED, 1 CLEAN OUT
- (UD-6) 92' - 4" UNDERDRAIN PERFORATED, W/ FILTER SOCK, 1 CLEAN OUT
- (UD-7) 18' - 4" UNDERDRAIN PERFORATED, W/ FILTER SOCK; 96' - 4" UNDERDRAIN UNPERFORATED, 1 CLEAN OUT
- (UD-8) 18' - 4" UNDERDRAIN PERFORATED, W/ FILTER SOCK; 82' - 4" UNDERDRAIN UNPERFORATED, 1 CLEAN OUT
- (UD-9) 96' - 4" UNDERDRAIN UNPERFORATED; 1 CLEAN OUT
- (UD-10) 173' 4" UNDERDRAIN PERFORATED, W/ FILTER SOCK; 221' - 4" UNDERDRAIN UNPERFORATED



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GRAPHIC SCALE
Sheet Size: 30 inch x 42 inch
Scale: 1 inch = 30 ft.

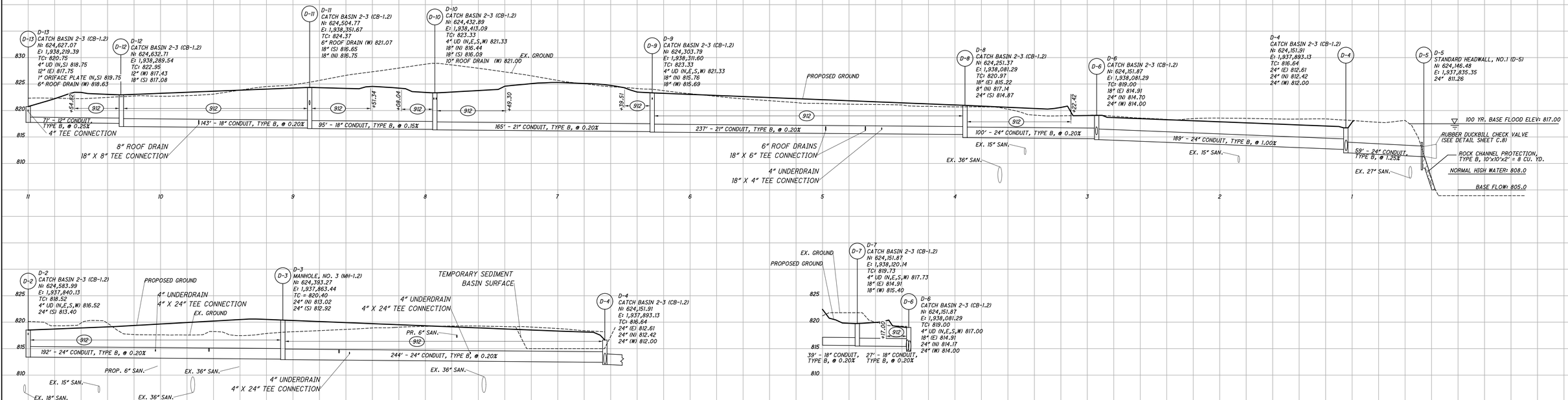
STORM SEWER / UTILITY PLAN FAIRFIELD COUNTY PUBLIC SAFETY AND JAIL FACILITY

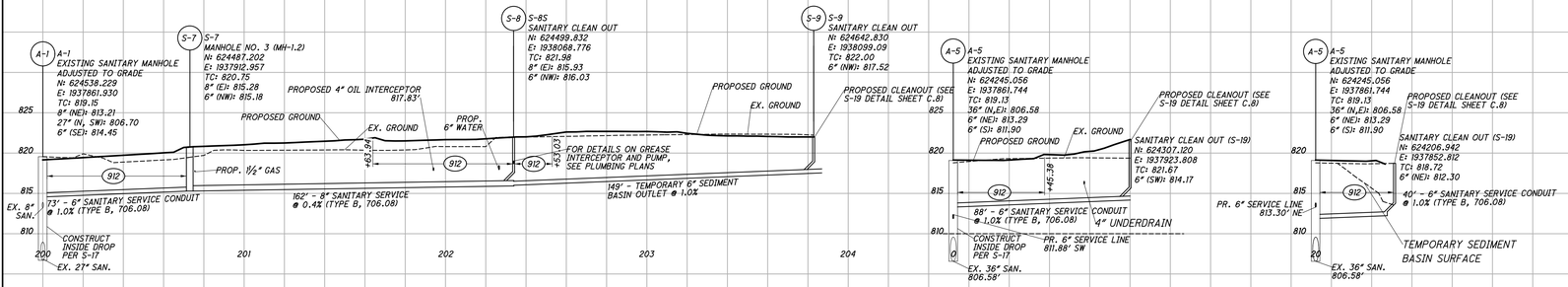
FOR THE FAIRFIELD COUNTY COMMISSIONERS

STATE OF OHIO
FAIRFIELD COUNTY
CITY OF LANCASTER
TOWNSHIP 14, RANGE 19, SECTION 1

DATE: MARCH 2015

No. C.7





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NORTH

GRAPHIC SCALE
20 0 10 20
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Scale: 1 inch = 20 ft.

STORM SEWER / UTILITY PROFILES
FAIRFIELD COUNTY PUBLIC SAFETY AND JAIL FACILITY

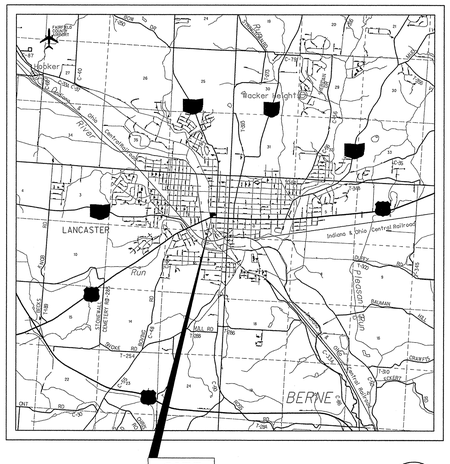
FOR THE FAIRFIELD COUNTY COMMISSIONERS

STATE OF OHIO
FAIRFIELD COUNTY
CITY OF LANCASTER
TOWNSHIP 14, RANGE 19, SECTION 1

DATE: MARCH 2015

No. C.8

LOCATION MAP



LATITUDE: N 39°42'52" LONGITUDE: W 82°36'28"

NOT TO SCALE

STORMWATER POLLUTION PREVENTION PLAN FOR:

FAIRFIELD COUNTY PUBLIC SAFETY AND JAIL FACILITY
345 LINCOLN AVENUE
CITY OF LANCASTER, OHIO

INDEX OF SHEETS:

SWPPP - TITLE SHEET / GENERAL NOTES / DETAILS C.9
SWPPP - PRE CONSTRUCTION C.10
SWPPP - POST CONSTRUCTION C.11

SITE DATA:

OWNER: FAIRFIELD COUNTY COMMISSIONERS
210 EAST MAIN ST., ROOM 301
LANCASTER, OHIO 43130

FACILITY: FAIRFIELD COUNTY PUBLIC SAFETY AND JAIL FACILITY
345 LINCOLN AVENUE
LANCASTER, OHIO 43130

TYPE OF FACILITY: ADMINISTRATIVE OFFICES AND CORRECTIONAL FACILITY

NAME OF RECEIVING WATER: HOCKING RIVER

DESCRIPTION OF PROJECT: COMMERCIAL SITE DEVELOPMENT

ESTIMATED TIME TABLE: SPRING 2015 THROUGH FALL 2016

LOCATION AND TYPE OF CONSTRUCTION ACTIVITY: AS PER THESE PLANS

EXISTING SOIL CONDITIONS: SOILS - SM, SC-SM, SC, CL, CH, OL, OH, SP
LAND USE - LIGHT INDUSTRIAL

TOTAL DISTURBED AREA: 7.0 ACRES
TOTAL SITE AREA: 8.2 ACRES

OPERATOR(S):

FAIRFIELD COUNTY COMMISSIONERS
210 E. MAIN STREET
LANCASTER, OHIO 43130
P: 740.652.7097 F: 740.687.6048

CONTRACTOR:

SWPPP CONTACT(S):

FAIRFIELD COUNTY COMMISSIONERS
210 E. MAIN STREET
LANCASTER, OHIO 43130
P: 740.652.7097 F: 740.687.6048

SWPPP PREPARATION DATE:

03/31/2015

ESTIMATED PROJECT DATES:

START OF CONSTRUCTION: 06/01/2015
COMPLETION OF CONSTRUCTION: 12/1/2016

PHASE CONSTRUCTION SCHEDULE:

ESTIMATED TIMELINE OF ACTIVITY	CONSTRUCTION ACTIVITY AND BMP DESCRIPTIONS
06/01/2015- 07/01/2015	BEFORE SITE GRADING ACTIVITIES: 1. CONSTRUCT SEDIMENT BASINS AND DIVERSION, CHANNELS AND SILT FENCE, PER PRE-CONSTUCTION PLAN 2. INSTALL SEDIMENT BASIN OUTLETS - SANITARY SERVICES 3. TEMPORARY PARKING
07/01/2015- 03/01/2016	CONSTRUCT PHASE 1 1. DEMOLITION ON EXISTING SITE 2. ROUGH GRADING 3. BUILDING FOUNDATION, DRIVE PILES 4. INSTALL STORM LINES AND UTILITIES 5. POUR BUILDING SLAB 6. CONSTRUCT PARKING LOT, CURBS, AND WALKS 7. DIVERSION CHANNELS SHALL REMAIN UNTIL ALL SURFACE DRAINAGE IS ROUTED TO PROPOSED STORM SYSTEM ACROSS FINISHED PARKING LOT SURFACE. 8. REMOVE SEDIMENT BASINS, DIVERSIONS CHANNELS, PLUG OUTLETS 9. FINAL SEEDING AND MULCHING
03/01/2016- 11/01/2016	CONSTRUCT PHASE 2 1. DEMOLITION ON EXISTING SITE 2. ROUGH GRADING 3. BUILDING FOUNDATION, DRIVE PILES 4. INSTALL STORM LINES AND UTILITIES 5. CONSTRUCT PARKING LOT, CURBS, AND WALKS 6. DIVERSION CHANNELS SHALL REMAIN UNTIL ALL SURFACE DRAINAGE IS ROUTED TO PROPOSED STORM SYSTEM ACROSS FINISHED PARKING LOT SURFACE. 7. REMOVE SEDIMENT BASINS, DIVERSIONS CHANNELS, PLUG OUTLETS 8. FINAL SEEDING AND MULCHING
11/01/2016- 12/01/2016	CONSTRUCT PHASE 3 1. FILL DIVERSION CHANNELS AND SEDIMENT BASIN 2. CONSTRUCT PARKING LOT 3. FINAL SEEDING AND MULCHING

DEVELOPER'S STATEMENT OF INTENT

FAIRFIELD COUNTY COMMISSIONERS
210 EAST MAIN STREET, ROOM 301
LANCASTER, OH 43130

I/WE HEREBY STATE THAT THESE PLANS HAVE BEEN PREPARED WITH MY/OUR KNOWLEDGE AND CONCURRENCE AND REPRESENT MY/OUR INTENT AND INTERESTS.

CARRI BROWN - COUNTY ADMINISTRATOR DATE

CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUAUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALITIES FOR SUBMITTING FALSE INFORATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

THIS DOCUMENT MEETS THE REQUIREMENTS THE CITY OF LANCASTER.

Plans Prepared By :

STATE OF OHIO
CURTIS M. SHONK
E-67144
REGISTERED
PROFESSIONAL ENGINEER

REGISTERED ENGINEER

67144 — Ohio Reg. No.

6/11/15 — Date

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102
EROSION AND SEDIMENTATION CONTROL

THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING SOIL EROSION, SILTING AND SEDIMENTATION RESULTING FROM HIS/HER OPERATIONS. IT SHALL BE THE OBJECTIVE OF THE CONTRACTOR TO CONTAIN EROSION, SILTING AND SEDIMENTATION TO THE PROJECT SITE INSOFAR AS PRACTICAL. THE LOCATION AND TIMING OF ALL EROSION AND SEDIMENT CONTROL ITEMS SHALL BE FIELD ADJUSTED TO PREVENT SIGNIFICANT IMPACTS ON RECEIVING WATERS AND/OR ADJOINING PROPERTIES. IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN SHALL CONTINUE THROUGHOUT THE DURATION OF THE PROJECT OR UNTIL SUCH TIME THAT THE DISTURBED AREAS HAVE BEEN STABILIZED. THE ENGINEER MAY REQUIRE ADDITIONAL ACTIVITIES WHEN AND WHERE THE WORK AS SET FORTH IN THE STORM WATER POLLUTION PREVENTION PLAN IS NOT SUFFICIENT TO CONTROL THE EFFECTS OF EROSION, SILTING, AND/OR SEDIMENTATION IN CONFORMANCE WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM CONSTRUCTION STORM WATER GENERAL PERMIT.

ALL REASONABLE ATTEMPTS SHOULD BE MADE TO MINIMIZE THE TOTAL AREA OF DISTURBED LAND.

EACH SEDIMENT AND EROSION CONTROL MEASURE SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALLS TO DETERMINE IF THE MEASURE IS FUNCTIONING AS REQUIRED. ANY NECESSARY REPAIRS SHALL BE MADE IMMEDIATELY.

FIELD ADJUSTMENT FOR LOCATION AND DIMENSION OF SEDIMENT CONTROL DEVICES MAY BE MADE AS REQUIRED WITH THE APPROVAL OF THE CITY'S STORMWATER INSPECTOR.

EROSION CONTROL DEVICES REMOVED DURING GRADING OPERATIONS SHALL BE PUT BACK IN PLACE AT THE END OF THE DAY OR DURING INCLEMENT WEATHER.

TOPSOIL SHOULD BE REMOVED AND STOCKPILED FROM ALL WORK AREAS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IMMEDIATELY AFTER CONSTRUCTION OF DITCHES AND/OR BASE PAVING OF STREETS, TOPSOIL FROM THE STOCKPILE SHALL BE SPREAD OVER THE EXPOSED AREAS AND GRADED AS REQUIRED TO PREPARE AREAS FOR PERMANENT SEEDING. APPLICATION OF PERMANENT SEEDING, AGRICULTURAL LIME, FERTILIZER, AND MULCHING MATERIAL SHALL BE AS PER THE PERTINENT 659 ITEMS.

IF SHOWN ON THIS PLAN, ENERGY DISSIPATION DEVICES OR EROSION CONTROL MEASURES AT THE OUTFALL OF THE STORM SEWER SYSTEM SHALL BE INSTALLED AT THE TIME OF THE CONSTRUCTION OF THE OUTFALL.

AREAS WITHIN FIFTY (50) FEET OF A STREAM SHALL NOT BE DISTURBED UNLESS SPECIFICALLY PERMITTED IN THE PLANS. NO SOIL, ROCK, DEBRIS OR ANY OTHER SUCH MATERIAL SHALL BE DUMPED OR PLACED INTO A WATER RESOURCE, OR INTO SUCH PROXIMITY THAT IT MAY READILY SLOUGH, SLIP, OR ERODE INTO A WATER RESOURCE, UNLESS SUCH DUMPING OR PLACING IS AUTHORIZED BY THE CITY ENGINEER AND, WHEN APPLICABLE, THE U.S. ARMY CORPS OF ENGINEERS FOR SUCH PURPOSED AS, BUT NOT LIMITED TO, THE CONSTRUCTION OF BRIDGES, CULVERTS, AND EROSION CONTROL STRUCTURES.

SEEDING SHOULD BE APPLIED THE SAME DAY THAT GRADING OPERATIONS ARE COMPLETE. ALL CONSTRUCTED SLOPES AND CUTS SHALL BE SEEDED AS EACH VERTICAL INTERVAL OF NO MORE THAN TEN (10) FEET IS COMPLETED. THE CONTRACTOR SHALL IRRIGATE OR WATER AS NECESSARY TO ESTABLISH A HEALTHY, EROSION RESISTANT COVER CROP OR GRASS STAND.

AREAS TO REMAIN DORMANT FOR FORTY-FIVE (45) CALENDAR DAYS SHOULD BE IMMEDIATELY STABILIZED WITH CONSTRUCTION SEEDING AND MULCHING, EROSION CONTROL MATTING OR OTHER APPROPRIATE CONTROL METHOD.

WHEN GRADING OPERATIONS SHALL CEASE FOR A PERIOD OF FOURTEEN (14) CALENDAR DAYS OR MORE, TEMPORARY SEEDING AND MULCHING PER 659 SHALL BE IMMEDIATELY APPLIED. IF AN UNFORESEEN DELAY IS ENCOUNTERED, THE CONTRACTOR SHALL BEGIN SEEDING AND MULCHING IMMEDIATELY WHEN RECOGNIZED.

IF CONSTRUCTION TAKES PLACE FROM OCTOBER 1 TO FEBRUARY 28, ALL EXPOSED AREAS ARE TO BE TEMPORARILY MULCHED UNTIL MARCH 1 AND THEN PERMANENTLY SEEDED AS PREVIOUSLY SPECIFIED. MULCHING SHALL BE APPLIED AT A RATE OF 100 POUNDS PER 1000 SQUARE FEET. IT SHALL BE ANCHORED WITH LIQUID ASPHALT RAPID CURING (R.C. 70, 250 OR 800) AT A RATE OF 0.04 GALLONS PER SQUARE YARD. WHEN APPLIED DURING FREEZING WEATHER IT SHALL BE CUT BACK WITH A KEROSENELIKE PRODUCT. IN AREAS WHERE RUNOFF WATER IS CONCENTRATED, MULCH NETTINGS OF JUTE, BIO DEGRADABLE SYNTHETIC MATERIALS OR LIGHTWEIGHT PAPER SHALL BE USED TO HOLD THE MULCH IN PLACE. SUBSTITUTE ANCHORING METHODS MAY BE USED SUCH AS STRAIGHT DISK OR NOTCHED DISK TO TUCK THE STRAW INTO THE SEEDBED THREE (3) INCHES HORIZONTAL TO THE SLOPE.

IN ADDITION TO THE ABOVE DESCRIBED WORK, THE CONSTRUCTION DRAWINGS OR CONTRACT DOCUMENTS MAY CONTAIN OTHER NOTES, CONTINGENCY QUANTITIES OR CONSTRUCTION AND MATERIAL SPECIFICATION THAT SET FORTH OTHER EROSION CONTROL WORK TO BE PERFORMED ON THE PROJECT. IN SUCH CASES, THE OTHER WORK SHALL BE PERFORMED IN ADDITION TO THE WORK DESCRIBED ABOVE.

THE ABOVE WORK, WHERE NOT SPECIFICALLY ITEMIZED IN THE QUANTITIES, SHALL BE CONSIDERED INCIDENTAL TO THE EARTHWORK AND SEEDING WORK AS SET FORTH IN THE PLANS AND THE COST OF MATERIALS, LABOR AND EQUIPMENT SHALL BE INCLUDED IN THE UNIT PRICES BID FOR EARTHWORK AND SEEDING AND MULCHING.

ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE REMOVED AND DISPOSED OF WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY PRACTICES ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION.

ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE OHIO DEPARTMENT OF NATURAL RESOURCES RAINWATER AND LAND DEVELOPMENT MANUAL, LATEST EDITION IN FORCE AT THE TIME OF THE BID OPENING.

DRAINAGE/EROSION CONTROL

APPROPRIATE MEASURES SHALL BE TAKEN TO MINIMIZE OR ELIMINATE WASTES AND UNUSED BUILDING MATERIALS AND ALL POLLUTANTS FROM BEING CARRIED FROM THE SITE BY RUNOFF. PROPER STORAGE, HANDLING AND USE OF ALL POTENTIALLY POLLUTING SUBSTANCES SHALL BE EMPLOYED.

PUBLIC AND PRIVATE ROADWAYS SHALL BE KEPT CLEARED OF ACCUMULATED SEDIMENT. PROVISIONS FOR PROPER DUST CONTROL MAY BE REQUIRED AS DEEMED NECESSARY.

EROSION CONTROL DESIGN SHALL MEET THE REQUIREMENTS OF THE CITY OF LANCASTER STANDARD DRAWINGS AND STANDARD NOTES.

ALL DISTURBED AREAS THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES AND LOCATIONS OF VEHICLE ENTRANCE AND EXIT SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN DAYS AND WITHIN TWENTY-FOUR HOURS OF A STORM EVENT GREATER THAN 0.5 INCHES. INSPECTION SHALL BE CONTINUED UNTIL ALL DISTURBED AREAS ARE STABILIZED; STRUCTURAL CONTROLS ARE REMOVED OR CONVERTED TO STORMWATER MANAGEMENT FACILITIES. CORRECTIVE ACTION WILL BE TAKEN FOR ALL NOTED DEFICIENCIES. SUCH ACTIONS SHALL BE INITIATED WITHIN 24-HOURS OF INSPECTION NOTIFICATION.

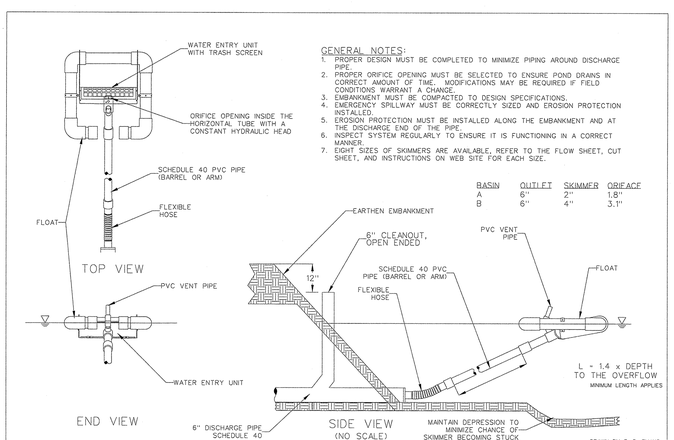
SEDIMENT DEPOSITS SHALL BE REMOVED FROM STRAW BALE AND FILTER FENCE BARRIERS UPON REACHING APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER AT ITS LOWEST POINT OR CAUSES A SILT FENCE TO BULGE AND SHOULD BE DEPOSITED AT A CONTROLLED FILL AREA.

SEDIMENT DEPOSITS SHALL BE REMOVED FROM DIVERSION CHANNELS, DIKES, OUTLET CHANNELS AND STABILIZED AREAS AFTER EVERY RAINFALL. ANY AREA DAMAGED BY EROSION SHALL BE REPAIRED AND RESEEDED WITHIN 24-HOURS OR AS SOON AS THE SOIL DRIES SUFFICIENTLY TO ALLOW WORK TO PROCEED.

THE CITY MAINTAINS THE RIGHT TO INSPECT ANY SITE OF LAND DISTURBANCE AT ANY REASONABLE TIME AND TO REQUIRE COMPLIANCE WITH REGULATIONS AND SOIL EROSION CONTROL PLAN.

WELL LOCATIONS

#	WELL TYPE	NORTHING	EASTING
1	MONITORING WELL #2025823	624,223.24	1,938,632.72
2	MONITORING WELL #362278	624,873.35	1,938,184.96
3	MONITORING WELL #9923001	624,772.22	1,938,138.74
4	MONITORING WELL #9923037	624,833.82	1,938,236.80
5	MONITORING WELL #9923042	624,779.81	1,938,222.39
6	MONITORING WELL #9923046	624,776.17	1,938,222.10
7	MONITORING WELL #9923033	624,756.14	1,938,217.86
8	MONITORING WELL #816585	624,939.88	1,938,391.64
9	MONITORING WELL #816586	624,939.88	1,938,391.64
16	CITY OF LANCASTER #15	624729.59	1,938,247.30
22	CITY OF LANCASTER #16	624,888.92	1,937,802.09
23	CITY OF LANCASTER #33	624,772.22	1,938,138.74



GENERAL NOTES:
1. PROPER DESIGN MUST BE COMPLETED TO MINIMIZE PIPING AROUND DISCHARGE PIPE.
2. PROPER ORIFICE OPENING MUST BE SELECTED TO ENSURE POND DRAINS IN CORRECT AMOUNT OF TIME. MODIFICATIONS MAY BE REQUIRED IF FIELD CONDITIONS WARRANT A CHANGE.
3. EMBANKMENT MUST BE COMPACTED TO DESIGN SPECIFICATIONS.
4. EMERGENCY SPILLWAY MUST BE CORRECTLY SIZED AND EROSION PROTECTION INSTALLED.
5. EROSION PROTECTION MUST BE INSTALLED ALONG THE EMBANKMENT AND AT THE DISCHARGE END OF THE PIPE.
6. INSPECT SYSTEM REGULARLY TO ENSURE IT IS FUNCTIONING IN A CORRECT MANNER.
7. EIGHT SIZES OF SKIMMERS ARE AVAILABLE, REFER TO THE FLOW SHEET, CUT SHEET, AND INSTRUCTIONS ON WEB SITE FOR EACH SIZE.

BASIN	QUITLET	SKIMMER	ORIFACE
A	6"	2"	1.8"
B	6"	4"	3.1"

FAIRCLOTH SKIMMER DISCHARGE SYSTEM WITH EMBANKMENT

J. W. FAIRCLOTH & SON INC.
WWW.FAIRCLOTHSKIMMER.COM
TELEPHONE: (919) 732-1244
FAX: (919) 732-1266
EMAIL: WARREN@FAIRCLOTHSKIMMER.COM

DRAWN BY T. R. EVANS
10/10

STORM WATER POLLUTION PREVENTION PLAN
FAIRFIELD COUNTY PUBLIC SAFETY AND JAIL FACILITY
FOR THE FAIRFIELD COUNTY COMMISSIONERS
STATE OF OHIO
FAIRFIELD COUNTY
CITY OF LANCASTER
TOWNSHIP 14, RANGE 19, SECTION 1

DATE: APRIL 2015

No. C.9

101 TEMPORARY SOIL EROSION AND SEDIMENT CONTROL

TEMPORARY SEEDING WILL BE REQUIRED AT AN AREA WITHING 50 FEET OF THE HOCKING RIVER IN ACCORDANCE WITH THE PERMIT WITHIN TWO DAYS IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS AND PERMANENT SEEDING IS REQUIRED WITHIN TWO DAYS OF REACHING FINAL GRADE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING SOIL EROSION FROM THE PROJECT SITE TO PREVENT CONTAMINATION OF ADJACENT STREAMS OR OTHER WATER COURSES, LAKES, PONDS OR OTHER AREAS OF WATER IMPOUNDMENT.

A CONSTRUCTION ENTRANCE SHALL BE REQUIRED FOR THIS SITE.

CATCH BASINS SHALL REQUIRE INLET PROTECTION (AS PER PLAN DANDY BAGS OR EQUAL)

CONTRACTOR IS TO INSTALL FILTER FABRIC FENCE (SILT FENCE) AS PER PLAN.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER, FOR THIS PURPOSE:

ITEM 207	INLET PROTECTION (DANDY BAGS)	9 EACH
ITEM 207	PERIMETER FILTER FABRIC FENCE (DM-4.4)	1864 FT.

105 - DUST CONTROL

THE CONTRACTOR IS ADVISED THAT HIS WORK WILL BE IN CLOSE PROXIMITY TO OCCUPIED RESIDENCES AND BUSINESSES AND SHALL MAKE ALL REASONABLE EFFORTS TO PERFORM THE EARTHWORK OPERATIONS IN A MANNER TO MINIMIZE DUST. WHEN, IN THE ENGINEER'S DETERMINATION, DUST IS A PROBLEM, THE CONTRACTOR SHALL APPLY A DUST PALLATIVE PER ITEM 616.

NON-STORMWATER POLLUTANTS

- LAWN WATERING/ IRRIGATION
- UNCONTAMINATED GROUND WATER FROM TRENCH / WELL POINT DEWATERING
- WATERLINE FLUSHING

NOTICE OF INTENT (NOI)

THE COUNTY MUST SUBMIT A NOTICE OF INTENT (NOI) FOR COVERAGE UNDER THE GENERAL CONSTRUCTION STORMWATER PERMIT AT LEAST 21 DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL CONTRACTORS ON THE SITE MUST SUBMIT A NOI AS A CO-PERMITEE PRIOR TO ISSUING A NOTE TO PROCEED.

HDPE LINED SUBGRADE - TEMPORARY

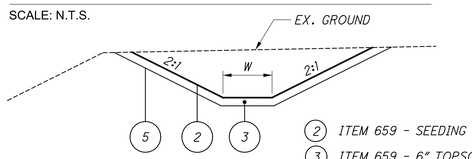
SCALE: N.T.S.

30 MIL HDPE (HIGH DENSITY POLYETHYLENE) ANCHORED IN NARROW TRENCHES AT THE EDGES. THE LINER IN SHOULD HAVE A MINIMUM SLOPE OF APPROXIMATELY 2%. OVERLAPS SHALL BE SEAMED BY QUALIFIED PROFESSIONAL INSTALLERS.

THE HDPE LINER SHOULD BE PLACED ON A SMOOTH BASE THAT IS FREE FROM LARGE (>2-INCH) ROCKS TO PREVENT PUNCTURE. THE HDPE LINER SHOULD BE COVERED WITH THE TOPSOIL LAYER AFTER INSTALLATION TO PREVENT DAMAGE TO THE LINER.

DIVERSION DITCH / SEDIMENTATION BASIN

SCALE: N.T.S.

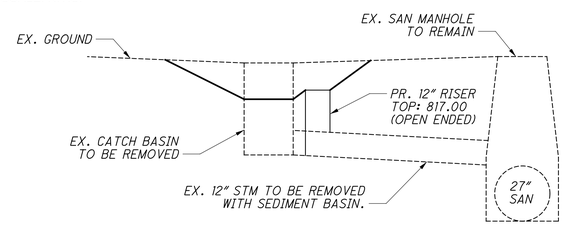


W: DITCH = 2 FEET
SEDIMENT BASIN 'A' = 30 FEET
SEDIMENT BASIN 'B' = 55 FEET

(2) ITEM 659 - SEEDING AND MULCHING, CLASS 1
(3) ITEM 659 - 6" TOPSOIL
(5) ITEM SPECIAL - 30 MIL HDPE LINER

SEDIMENT BASIN OVERFLOW

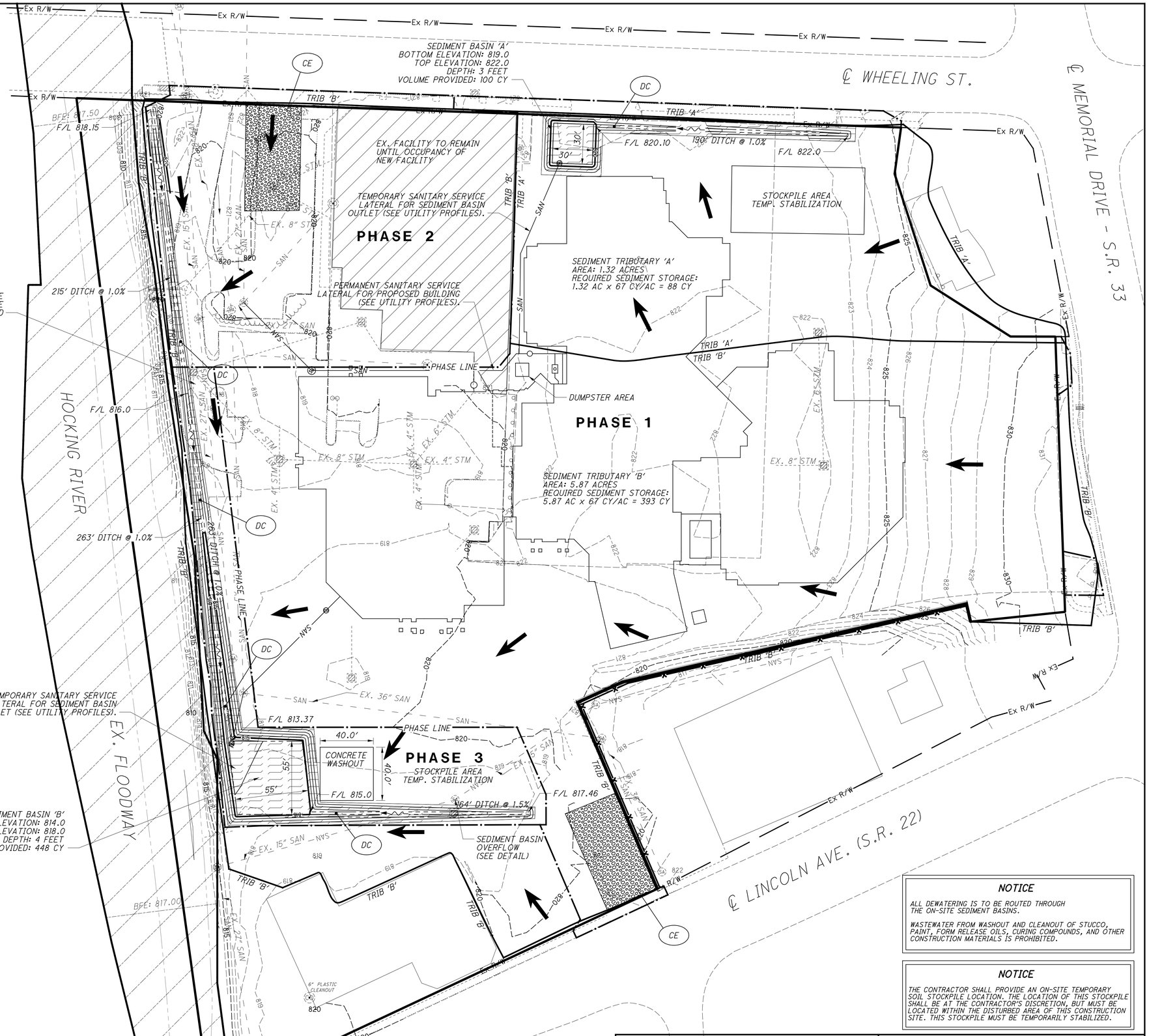
SCALE: N.T.S.



LEGEND

- SURFACE FLOW
- CE - CONSTRUCTION ENTRANCE
- GRADING LIMITS
- SF - SILT FENCE
- IP - INLET PROTECTION (DANDY BAGS)
- DC - DITCH CHECKS
- PS - PERMANENT SEEDING OR GROUND COVER

AREAS WITHIN 50' OF THE HOCKING RIVER SHALL BE TEMPORARY STABILIZATED



NOTICE

ALL DEWATERING IS TO BE ROUTED THROUGH THE ON-SITE SEDIMENT BASINS.

WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS, AND OTHER CONSTRUCTION MATERIALS IS PROHIBITED.

NOTICE

THE CONTRACTOR SHALL PROVIDE AN ON-SITE TEMPORARY SOIL STOCKPILE LOCATION. THE LOCATION OF THIS STOCKPILE SHALL BE AT THE CONTRACTOR'S DISCRETION, BUT MUST BE LOCATED WITHIN THE DISTURBED AREA OF THIS CONSTRUCTION SITE. THIS STOCKPILE MUST BE TEMPORARILY STABILIZED.

2LMN, Inc.
Civil Engineers & Land Surveyors
2475 Sugar Grove Road, SE Lancaster, Ohio 43130
(740) 687-5542 Phone - (740) 687-0086 Fax - www.2LMN.com

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CONTRACTOR	NAME & ADDRESS	24 HR CONTACT INFORMATION

REV. BY	DATE	DESCRIPTION

DATE COMPLETED

GRAPHIC SCALE
30 0 15 30
Sheet Size: 30 inch x 42 inch
Scale: 1 inch = 30 ft.

NORTH

STORM WATER POLLUTION PREVENTION PLAN
FAIRFIELD COUNTY PUBLIC SAFETY AND JAIL FACILITY
FOR THE FAIRFIELD COUNTY COMMISSIONERS
STATE OF OHIO
FAIRFIELD COUNTY
CITY OF LANCASTER
TOWNSHIP 14, RANGE 19, SECTION 1

DATE: MARCH 2015
No. C.10

POST CONSTRUCTION WATER QUALITY

WQv (20%) REDEVELOPMENT

C = RUNOFF COEFFICIENT = 0.858i³ -0.78i² +0.774i+0.04 = 0.916
i = WATERSHED IMPERVIOUSNESS RATIO
P = 0.75" PRECIPITATION
A = AREA DRAINING TO THE BMP (ACRES) = 7.18
WQv = WATER QUALITY VOLUME (AC-FT) = CxPxA/12 = 0.339 AC-FT = 14,751 CFT
0.2WQv = 2,950 CFT

STORM WATER DETENTION

DUE TO THE REDUCTION IN THE IMPERVIOUS AREA THE TOTAL RUNOFF WILL BE REDUCED, THEREFORE DETENTION IS NOT REQUIRED. THE DRAINAGE AREA REMAINS UNCHANGED.
PRE-CONSTRUCTION RUNOFF COEFFICIENT: 0.90
POST-CONSTRUCTION RUNOFF COEFFICIENT: 0.85

659
SEEDING AND MULCHING

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

ITEM 659 SEEDING AND MULCHING 8282 SQ. YD.
ITEM 659 COMMERCIAL FERTILIZER 1.3 TON
ITEM 659 AGRICULTURAL LIME 1.98 TON
ITEM 659 INTER-SEEDING 480 SQ. YD.
ITEM 659 WATER 51.84 M. GAL.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE OF THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

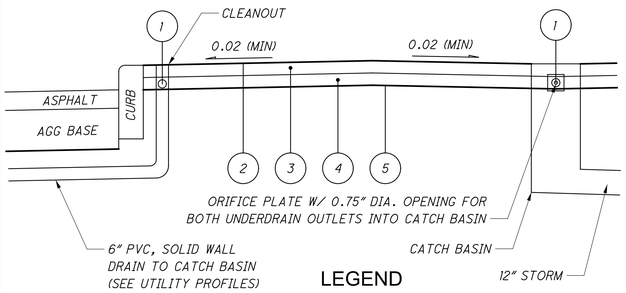
THE CONTRACTOR SHALL REPAIR ALL AREAS DISTURBED AS A RESULT OF HIS/HER OPERATIONS OUTSIDE OF THESE LIMITS AT HIS/HER OWN COST.

HDPE LINED SUBGRADE

SCALE: N.T.S.

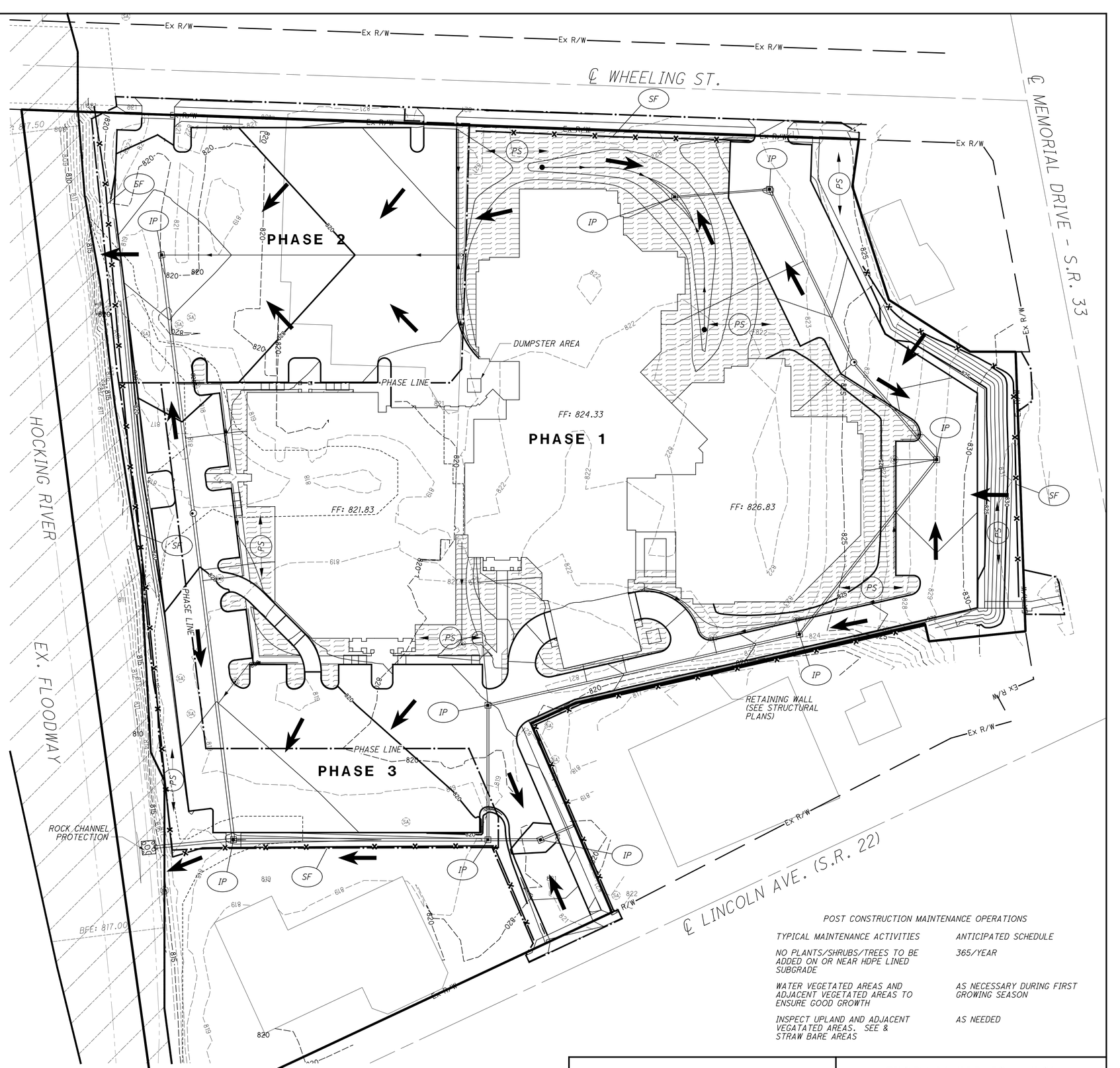
30 MIL HDPE (HIGH DENSITY POLYETHYLENE) ANCHORED IN NARROW TRENCHES AT THE EDGES. THE LINER IN SHOULD HAVE A MINIMUM SLOPE OF APPROXIMATELY 2%. OVERLAPS SHALL BE SEAMED BY QUALIFIED PROFESSIONAL INSTALLERS.

THE HDPE LINER SHOULD BE PLACED ON A SMOOTH BASE THAT IS FREE FROM LARGE (>2-INCH) ROCKS TO PREVENT PUNCTURE. THE HDPE LINER SHOULD BE COVERED WITH THE SAND LAYER AFTER INSTALLATION TO PREVENT DAMAGE TO THE LINER. THE SAND DRAINAGE LAYER IN LARGER AREAS SHOULD HAVE AN OUTLET TO THE SURFACE, EITHER BY INTERSECTION OR BY OTHER MEANS.



LEGEND

1. *ITEM 811 - 4" UNDERDRAIN, PERFORATED, W/ SOCK*
2. *ITEM 659 - SEEDING AND MULCHING, CLASS 1*
3. *ITEM 659 - 6" TOPSOIL*
4. *ITEM SPECIAL - 6" SAND BASE*
5. *ITEM SPECIAL - 30 MIL HDPE LINER*



LEGEND

- SF - SILT FENCE
- CE - CONSTRUCTION ENTRANCE
- IP - INLET PROTECTION (DANDY BAGS)
- CONSTRUCTION LIMITS
- PS - PERMANENT SEEDING OR GROUND COVER
- SURFACE FLOW

POST CONSTRUCTION MAINTENANCE OPERATIONS

TYPICAL MAINTENANCE ACTIVITIES	*ANTICIPATED SCHEDULE*
NO PLANTS/SHRUBS/TREES TO BE ADDED ON OR NEAR HDPE LINED SUBGRADE	*365/YEAR*
WATER VEGETATED AREAS AND ADJACENT VEGETATED AREAS TO ENSURE GOOD GROWTH	*AS NECESSARY DURING FIRST GROWING SEASON*
INSPECT UPLAND AND ADJACENT VEGATATED AREAS. SEE & STRAW BARE AREAS	*AS NEEDED*

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CONTRACTOR	NAME & ADDRESS	24 HR CONTACT INFORMATION

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STORM WATER POLLUTION PREVENTION PLAN
FAIRFIELD COUNTY PUBLIC SAFETY AND JAIL FACILITY

FOR THE FAIRFIELD COUNTY COMMISSIONERS
STATE OF OHIO
FAIRFIELD COUNTY
CITY OF LANCASTER
TOWNSHIP 14, RANGE 19, SECTION 1

DATE: MARCH 2015
No. C.11

Appendix B

Application for
Development Permit
for Special Flood Hazard Area

APPLICATION
for a
DEVELOPMENT PERMIT

FOR SPECIAL FLOOD HAZARD AREA

CITY OF LANCASTER
CERTIFIED BUILDING DEPARTMENT
121 E. Chestnut Street, Suite 101
Lancaster, Ohio 43130
Telephone (740) 687-6614
Facsimile (740) 681-5030

APPLICATION DATE 6/11/15 PERMIT NUMBER _____

PROPERTY OWNER Fairfield County Commissioners PARCEL IDENTIFICATION NO. 0536001800, 0536801700 0536029100

OWNER'S ADDRESS 210 East Main St., Room 301, Lancaster, OH 43130

ADDRESS OF WORK BEING PERFORMED 342 West Wheeling St., Lancaster, OH 43130

LOT NUMBER N/A SUBDIVISION N/A

CONTACT PERSON Dennis Keller TELEPHONE 740-652-7097

E-MAIL ADDRESS drkeller@co.fairfield.oh.us FAX. NO. 740-687-6048

CONTRACTOR _____ ENGINEER (P.E.) Curt Shonk, P.E., P.S. 2LMN, Inc.

AREA IS IN: FLOOD FRINGE; FLOODWAY ; FIRM Panel No. 39045C0253G

West Bldg: 25,649.21 sft
Center Bldg: 35,940.74 sft
East Bldg: 21,068.56 sft

DESCRIPTION OF WORK (Check all that Apply and Circle the Appropriate Use) :

NEW BUILDING Dimensions of Foundation - Ft. x - Ft. Area _____ Sq. Ft.

ADDITION Dimensions of New Foundation _____ Ft. x _____ Ft. Area N/A Sq. Ft.

ALTERATION Existing Building Ground Floor Foundation Area N/A Sq. Ft.

LOW FLOOR ELEVATION (Including Basements) West Bldg: 821.83 Center Bldg: 824.33 East Bldg: 826.83 NAVD 88

RESIDENTIAL NON-RESIDENTIAL ACCESSORY STRUCTURE

FILLING/MINING/DREDGING BRIDGE/CULVERT/ROADWAY UNDERGROUND UTILITY

MOBILE HOME OTHER Public Safety and Jail Facility

PROPOSED CONSTRUCTION COST (Provide Architect's/Engineer's/Contractor's Estimate) $ 30,000,000.00

VALUE OF EXISTING STRUCTURE (Provide County Auditor's Tax Card) $ (See attached Valuation Data)

PROPOSED FLOOD PROTECTION METHOD (Check all that Apply) :

✓ FILLING ABOVE 100-YEAR ELEVATION:
Elevation of Top of Fill (NAVD) (Attach Registered Architect's/Engineer's Certification)

✓ LOW FLOOR ELEVATION ABOVE 100-YEAR ELEVATION:
(Attach Registered Architect's Certification; Submit Surveyor's Certification upon completion of floor) See attached Plans

FLOODPROOFING
(Attach plans showing methods and elevations with Registered Architects Signature and Seal)

NON-SUBSTANTIAL IMPROVEMENT (Must be Pre-FIRM structure) YEAR BUILT _____

RESIDENTIAL ACCESSORY STRUCTURE < 576 SQ. FT. (Provide anchoring and flood vent details)

TIE DOWNS OTHER _____

The undersigned hereby makes application for a permit to develop in a special flood hazard area as delineated on the Federal Emergency Management Agency's Flood Insurance Rate Maps current on the date of the application. The work to be performed is described on this application and in attachments hereto. The undersigned agrees that all such work shall be done in accordance with the requirements of the Flood Damage Prevention Ordinance, Chapter 1331, of the Codified Ordinances of the City of Lancaster, Ohio and with all other applicable local, state and/or federal laws. The undersigned further agrees to provide the necessary as-built construction plans and/or certification to verify compliance with the aforementioned Flood Damage Prevention Ordinance. The undersigned understands that approval of this permit does not relieve the applicant of his/her obligation to obtain all other necessary permits from local, state and/or federal agencies.

OWNER'S SIGNATURE (required) _____ DATE 6-11-15

ENGINEER'S SIGNATURE _____ DATE 6/11/15

ADMINISTRATIVE

FLOOD DAMAGE PREVENTION STANDARDS: APPLY EXEMPT

BASE FLOOD ELEVATION (100 Year Event) _____ NAVD

PERMIT APPROVED BY: _____

TITLE: _____

PERMIT FEE $ _____ DATE PERMIT ISSUED _____

PERMIT DENIED FOR THE FOLLOWING REASONS:

Application Permit Incomplete Technical Evaluation Missing or Incomplete

Certification of Registered Surveyor/Engineer/Architect missing Other _____

YOUR RECOURSE TO THE DENIED PERMIT IS:

Resubmit With Necessary Information and Attachments Change Location of Structure and Reapply

Apply for Variance with Board of Zoning Appeals Technical Evaluation per L.C.O. 1331.14

Other _____

BOARD OF ZONING APPEALS

APPEALED FOR THE FOLLOWING REASON: _____

_____

An Applicant receiving a variance to build a structure with its lowest floor elevation below the base flood (100-Year) elevation is hereby notified that the cost of flood insurance will be commensurate with the increased risk.

SIGNATURE OF OWNER _____ DATE _____

WITNESS _____ DATE _____

BZA Case No. _____ BZA Action: _____

COMMENTS: _____

_____

This permit _____ is _____ is not filed with any of the following permits:

ZONING CLEARANCE # _____ BUILDING PERMIT # _____

Data For Parcel 0536001800

Valuation Data

Parcel: 0536001800

Owner: BOARD OF COMMISSIONERS FAIRFIELD COUNTY OHIO

Address: 342 W WHEELING ST

[+] Map this property.

Valuation

	Appraised	Assessed
Land Value:	$108,750.00	$38,060.00
Building Value:	$1,279,050.00	$447,670.00
Total Value:	$1,387,800.00	$485,730.00
CAUV Value:	$0.00	
Taxable Value:	$485,730.00	

Report Discrepancy

GIS parcel shapefile last updated 6/8/2015 8:09:08 AM.
CAMA database last updated 6/11/2015 12:23:44 AM.

Data For Parcel 0536801700

Valuation Data

Parcel: 0536801700

Owner: BOARD OF COUNTY COMMISSIONERS FAIRFIELD COUNTY OHIO

Address: 0 MEMORIAL DR

[+] Map this property.

Valuation

	Appraised	Assessed
Land Value:	$1,088,450.00	$380,960.00
Building Value:	$30,940.00	$10,830.00
Total Value:	$1,119,390.00	$391,790.00
CAUV Value:	$0.00	
Taxable Value:	$391,790.00	

Report Discrepancy

GIS parcel shapefile last updated 6/8/2015 8:09:08 AM.
CAMA database last updated 6/11/2015 12:23:44 AM.

Data For Parcel 0536029100

Valuation Data

Parcel: 0536029100
Owner: BOARD OF COMMISSIONERS OF FAIRFIELD CO
Address: 355 E LINCOLN AVE

[+] Map this property.

Valuation

	Appraised		Assessed
Land Value:	$154,290.00		$54,000.00
Building Value:	$150,010.00		$52,500.00
Total Value:	$304,300.00		$106,500.00
CAUV Value:		$0.00	
Taxable Value:		$106,500.00	

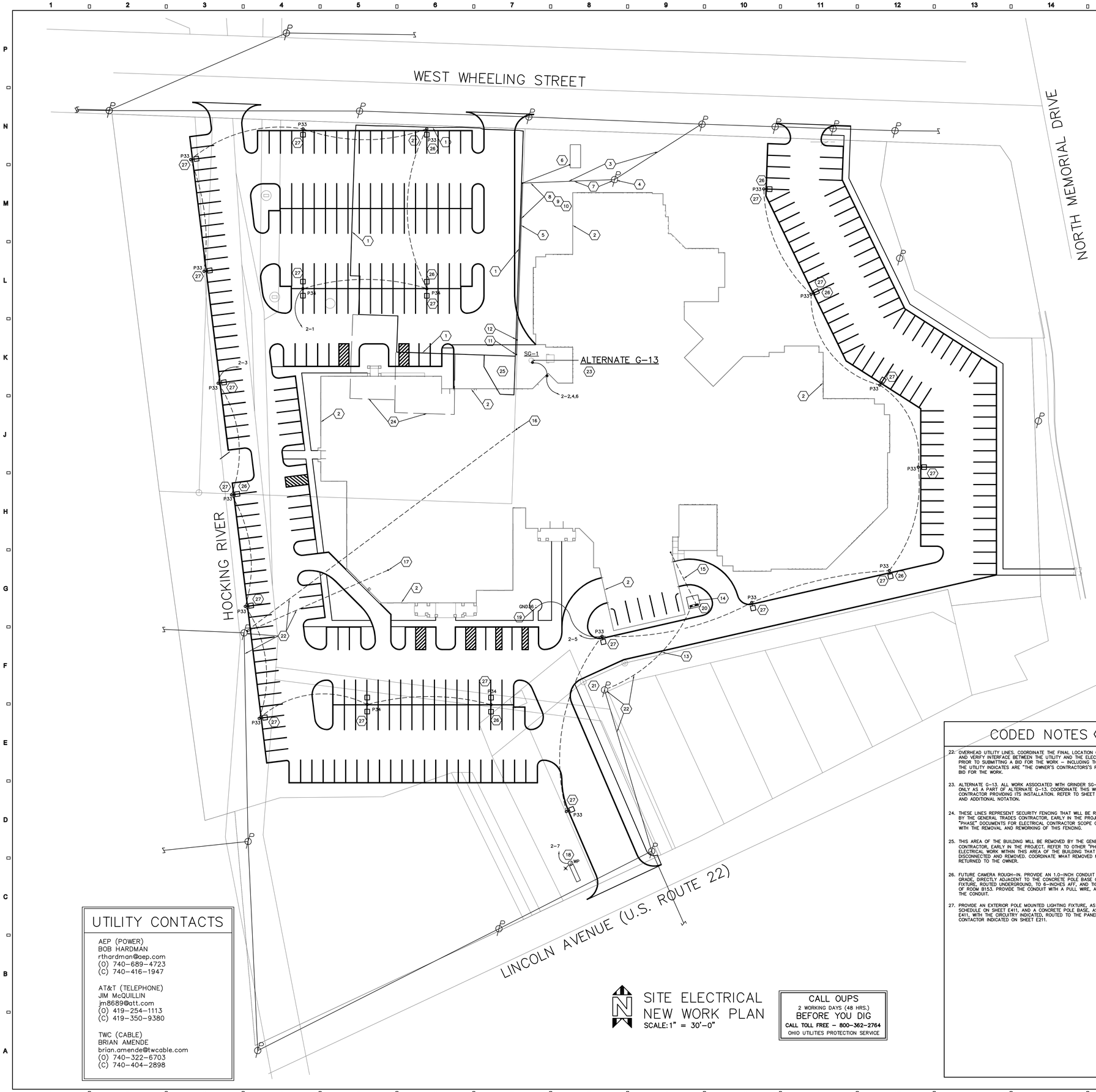
Report Discrepancy

GIS parcel shapefile last updated 6/8/2015 8:09:08 AM.
CAMA database last updated 6/11/2015 12:23:44 AM.

Appendix C

Plan Sheets E100 and E411
Showing Site Lighting Information

DRAWINGS NOT PUBLISHED; ALL RIGHTS RESERVED



SITE ELECTRICAL NEW WORK PLAN
SCALE: 1" = 30'-0"

CODED NOTES ⬡

1. THIS "LINE" REPRESENTS THE OUTLINE OF THE EXISTING JAIL BUILDING, TO BE MAINTAINED UNTIL THE NEW SHERIFF'S OFFICE AND JAIL BUILDING IS READY TO BE USED.
2. THIS "LINE" REPRESENTS THE OUTLINE OF THE NEW SHERIFF'S OFFICE AND JAIL BUILDING BEING PROVIDED AS A PART OF THIS PROJECT.
3. PROVIDE TEMPORARY OVERHEAD UTILITIES (POWER, TELEPHONE, CATV, AND COUNTY FIBER) AS COORDINATED WITH "AEP", "AT&T", "TWC", AND "FAIRFIELD COUNTY", RESPECTIVELY.
4. NEW TEMPORARY UTILITY POLE LOCATION. COORDINATE WITH "AEP" THE PROVISION OF NEW POLE MOUNTED TRANSFORMERS OR THE RELOCATION OF THE EXISTING POLE MOUNTED TRANSFORMERS AT THE TEMPORARY UTILITY POLE LOCATION. TEMPORARY SECONDARY FEEDER CABLING INDICATED IN NOTE 7 BELOW SHOULD BE PROVIDED AS SOON AS THIS POLE IS INSTALLED TO MINIMIZE THE SERVICE INTERRUPTION TIME WHEN THE EXISTING BUILDING SERVICE IS SWITCHED OVER TO THIS TEMPORARY SERVICE.
5. CONTINUE / EXTEND THE TEMPORARY OVERHEAD UTILITIES (POWER, TELEPHONE, CATV, AND COUNTY FIBER) AS COORDINATED WITH "AEP", "AT&T", "TWC", AND "FAIRFIELD COUNTY", RESPECTIVELY, FROM THE NEW TEMPORARY SERVICES POLE INDICATED IN NOTE 4 ABOVE, TO THE WALL OF THE EXISTING BUILDING; SECURE THE TEMPORARY SERVICE LANDING POINT TO THE EXISTING BUILDING WALL – AND CONTINUE / EXTEND THE TEMPORARY OVERHEAD UTILITIES AS INDICATED IN NOTES; 7 THRU 10 BELOW.
6. STAND–BY EMERGENCY GENERATOR (350KW) – REMOVE, RELOCATE, AND REINSTALL THE EXISTING GENERATOR, FROM ITS EXISTING LOCATION SOUTH OF THE EXISTING JAIL (REFER TO SHEET ED001), TO THIS LOCATION. PROVIDE / EXTEND A TEMPORARY 800A FEEDER FROM THE TEMPORARY GENERATOR LOCATION, UNDERGROUND TO THE EXISTING JAIL BUILDING, THEN UP THE BUILDING WALL AND OVERHEAD (ON THE WALL) TO THE SOUTH, TO A LOCATION CLOSE THE THE SOUTH END OF THE BUILDING WHERE IT WILL GO THROUGH THE WALL AND CONNECT TO THE EXISTING EMERGENCY SERVICE AUTOMATIC TRANSFER SWITCH, IN THE EXISTING MECH/ELEC ROOM.
7. COORDINATE THE PROVISION OF TEMPORARY OVERHEAD "AEP" UTILITY POWER, FROM AN EXISTING POLE ALONG THE SOUTH SIDE OF WHEELING STREET TO A NEW TEMPORARY POLE (WITH "AEP" POLE MOUNTED TRANSFORMERS, REFER TO NOTE 4 ABOVE), AS COORDINATED WITH "AEP", AND PROVIDE AN OVERHEAD SECONDARY FEEDER (800A), FROM THE TRANSFORMERS ON THAT POLE TO THE EXISTING JAIL BUILDING, SECURE THE TEMPORARY SERVICE LANDING POINT TO THE EXISTING BUILDING WALL – AND CONTINUE / EXTEND THE TEMPORARY OVERHEAD UTILITIES, HIGH ON THE WALL, TO THE SOUTH, TO A LOCATION CLOSE TO THE SOUTH END OF THE BUILDING WHERE IT WILL GO THROUGH THE WALL AND CONNECT TO THE EXISTING MAIN SERVICE BOARD, IN THE EXISTING MECH/ELEC ROOM.
8. COORDINATE THE PROVISION OF TEMPORARY OVERHEAD "AT&T" UTILITY LINE, FROM AN EXISTING POLE ALONG THE SOUTH SIDE OF WHEELING STREET TO A NEW TEMPORARY POLE (REFER TO NOTE 4 ABOVE), AS COORDINATED WITH "AT&T" (AND "AEP"), AND THEN COORDINATE THE CONTINUATION/PROVISION THE OVERHEAD "AT&T" UTILITY LINE, FROM THAT POLE TO THE EXISTING JAIL BUILDING, SECURE THE TEMPORARY SERVICE LANDING POINT TO THE EXISTING BUILDING WALL, AND CONTINUE / EXTEND THE TEMPORARY OVERHEAD "AT&T" UTILITIES, HIGH ON THE WALL, TO THE SOUTH, TO A LOCATION CLOSE TO THE SOUTH END OF THE BUILDING WHERE IT WILL GO THROUGH THE WALL AND CONNECT TO THE EXISTING MAIN SERVICE AT THE EXISTING SERVICE BACKBOARD, IN THE EXISTING MECH/ELEC ROOM.
9. COORDINATE THE PROVISION OF TEMPORARY OVERHEAD "TWC" UTILITY LINE, FROM AN EXISTING POLE ALONG THE SOUTH SIDE OF WHEELING STREET TO A NEW TEMPORARY POLE (REFER TO NOTE 4 ABOVE), AS COORDINATED WITH "TWC" (AND "AEP"), AND THEN COORDINATE THE CONTINUATION/PROVISION THE OVERHEAD "TWC" UTILITY LINE, FROM THAT POLE TO THE EXISTING JAIL BUILDING, SECURE THE TEMPORARY SERVICE LANDING POINT TO THE EXISTING BUILDING WALL, AND CONTINUE / EXTEND THE TEMPORARY OVERHEAD "TWC" UTILITIES, HIGH ON THE WALL, TO THE SOUTH, TO A LOCATION CLOSE TO THE SOUTH END OF THE BUILDING WHERE IT WILL GO THROUGH THE WALL AND CONNECT TO THE EXISTING MAIN SERVICE AT THE EXISTING SERVICE BACKBOARD, IN THE EXISTING MECH/ELEC ROOM.
10. COORDINATE THE PROVISION OF TEMPORARY OVERHEAD "COUNTY FIBER" LINE, FROM AN EXISTING POLE ALONG THE SOUTH SIDE OF WHEELING STREET TO A NEW TEMPORARY POLE (REFER TO NOTE 4 ABOVE), AS COORDINATED WITH "FAIRFIELD COUNTY" (AND "AEP"), AND THEN COORDINATE THE CONTINUATION/PROVISION THE OVERHEAD "COUNTY FIBER" LINE, FROM THAT POLE TO THE EXISTING JAIL BUILDING, SECURE THE TEMPORARY SERVICE LANDING POINT TO THE EXISTING BUILDING WALL, AND CONTINUE / EXTEND THE TEMPORARY OVERHEAD "COUNTY FIBER", HIGH ON THE WALL, TO THE SOUTH, TO A LOCATION CLOSE TO THE SOUTH END OF THE BUILDING WHERE IT WILL GO THROUGH THE WALL AND CONNECT TO THE EXISTING SERVICE AT THE EXISTING SERVICE BACKBOARD, IN THE EXISTING MECH/ELEC ROOM.
11. APPROXIMATE LOCATION WHERE TEMPORARY SECONDARY ("AEP", UTILITY) POWER, AND TEMPORARY EMERGENCY POWER WILL PENETRATE THE EXISTING EXTERIOR WALL.
12. APPROXIMATE LOCATION WHERE TEMPORARY; "AT&T", "TWC", AND "COUNTY FIBER" WILL PENETRATE THE EXISTING EXTERIOR WALL.
13. NEW UNDERGROUND "AEP" PRIMARY (PROVIDE TWO 5.0–INCH CONDUITS), FROM THE "AEP" POLE TO THE NEW "AEP" VAULT MOUNTED TRANSFORMER.
14. NEW "AEP" VAULT MOUNTED TRANSFORMER (VAULT PROVIDED BY THE ELECTRICAL CONTRACTOR). REFER TO SHEETS E211 AND E500 FOR ADDITIONAL REQUIREMENTS.
15. NEW BUILDING ELECTRICAL SERVICE FEEDER (PROVIDED BY THE ELECTRICAL CONTRACTOR). REFER TO SHEETS E211 AND E501 FOR ADDITIONAL REQUIREMENTS.
16. NEW UNDERGROUND; "AEP", "AT&T", AND COUNTY FIBER LINES (PROVIDE TWO 4.0–INCH CONDUITS, AND ONE 2.5–INCH CONDUIT), FROM THE UTILITY POLE TO THE NEW DEMARC BACKBOARD, FOR THIS BASE BID ONLY, LOCATION.
17. NEW UNDERGROUND; "AEP", "AT&T", AND COUNTY FIBER LINES (PROVIDE TWO 4.0–INCH CONDUITS, AND ONE 2.5–INCH CONDUIT), FROM THE UTILITY POLE TO THE NEW DEMARC BACKBOARD, FOR THIS ALTERNATE G–1 BID ONLY, LOCATION.
18. FAIRFIELD COUNTY JUSTICE CENTER – MONUMENT SIGN. PROVIDE A WEATHERPROOF HARD WIRED CONNECTION (WITH A DISCONNECT), AND A 20A, 277V CIRCUIT (2 #10 AND 1 #10 GRD, IN 1.0–INCH CONDUIT), EXTENDED THRU THE EXTERIOR LIGHTING CONTACTOR, TO THE PANEL.
19. FLAG POLE LIGHT. PROVIDE THE LIGHT INDICATED (REFER TO THE SCHEDULE ON SHEET E411), FLUSH MOUNTED IN THE PAVE AREA, IN FRONT OF THE FLAG POLE, COORDINATED WITH THE CONTRACTOR PROVIDING THE "PAVING", AND CIRCUIT WITH THE EXTERIOR LIGHTING AS INDICATED.
20. POWER COMPANY VAULT MOUNTED TRANSFORMER. COORDINATE TRANSFORMER ORIENTATION WITH THE POWER COMPANY (REFER TO CONTACT INFORMATION ON THIS SHEET), PRIOR TO THE SETTING OF THE VAULT. VERIFY VAULT COMPATIBILITY WITH THE POWER COMPANY TRANSFORMER, PRIOR TO THE ORDERING OF THE VAULT, PROVIDED BY THE ELECTRICAL CONTRACTOR.
21. VERIFY POWER COMPANY POLE LOCATIONS WITH THE POWER COMPANY (REFER TO CONTACT INFORMATION ON THIS SHEET), PRIOR TO START OF THE WORK. REFER TO SHEET E500 FOR ELECTRICAL DUCT DETAILS.

CODED NOTES ⬡

22. OVERHEAD UTILITY LINES. COORDINATE THE FINAL LOCATION OF THE UTILITY "MAINS", AND VERIFY INTERFACE BETWEEN THE UTILITY AND THE ELECTRICAL CONTRACTOR, PRIOR TO SUBMITTING A BID FOR THE WORK – INCLUDING THE COSTS OF ALL ITEMS THE UTILITY INDICATES ARE "THE OWNER'S CONTRACTORS'S RESPONSIBILITIES, IN THE BID FOR THE WORK.
23. ALTERNATE G–13. ALL WORK ASSOCIATED WITH GRINDER SG–1 SHALL BE PROVIDED ONLY AS A PART OF ALTERNATE G–13. COORDINATE THIS WORK WITH THE PLUMBING CONTRACTOR PROVIDING ITS INSTALLATION. REFER TO SHEET E211, FOR CONTINUATION AND ADDITIONAL NOTATION.
24. THESE LINES REPRESENT SECURITY FENCING THAT WILL BE REMOVED, AND REWORKED BY THE GENERAL TRADES CONTRACTOR, EARLY IN THE PROJECT. REFER TO OTHER "PHASE" DOCUMENTS FOR ELECTRICAL CONTRACTOR SCOPE OF WORK ASSOCIATED WITH THE REMOVAL AND REWORKING OF THIS FENCING.
25. THIS AREA OF THE BUILDING WILL BE REMOVED BY THE GENERAL TRADES CONTRACTOR, EARLY IN THE PROJECT. REFER TO OTHER "PHASE" DOCUMENTS, FOR ELECTRICAL WORK WITHIN THIS AREA OF THE BUILDING THAT NEEDS TO BE DISCONNECTED AND REMOVED. COORDINATE WHAT REMOVED MATERIALS NEED TO BE RETURNED TO THE OWNER.
26. FUTURE CAMERA ROUGH–IN. PROVIDE AN 1.0–INCH CONDUIT FROM 6–INCHES ABOVE GRADE, DIRECTLY ADJACENT TO THE CONCRETE POLE BASE OF THIS LIGHTING FIXTURE, ROUTED UNDERGROUND, TO 6–INCHES AFF, AND TIGHT THE THE WEST WALL OF ROOM B153. PROVIDE THE CONDUIT WITH A PULL WIRE, AND CAP BOTH ENDS OF THE CONDUIT.
27. PROVIDE AN EXTERIOR POLE MOUNTED LIGHTING FIXTURE, AS INDICATED IN THE SCHEDULE ON SHEET E411, AND A CONCRETE POLE BASE, AS DETAILED ON SHEET E411, WITH THE CIRCUITRY INDICATED, ROUTED TO THE PANEL THROUGH A LIGHTING CONTACTOR INDICATED ON SHEET E211.

UTILITY CONTACTS

AEP (POWER)
BOB HARDMAN
rthardman@aep.com
(O) 740–689–4723
(C) 740–416–1947

AT&T (TELEPHONE)
JIM McQUILLIN
jm8689@att.com
(O) 419–254–1113
(C) 419–350–9380

TWC (CABLE)
BRIAN AMENDE
brian.amende@twcable.com
(O) 740–322–6703
(C) 740–404–2898

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OHIO UTILITIES PROTECTION SERVICE

CODED NOTES ⬡

1. THIS "LINE" REPRESENTS THE OUTLINE OF THE EXISTING JAIL BUILDING, TO BE MAINTAINED UNTIL THE NEW SHERIFF'S OFFICE AND JAIL BUILDING IS READY TO BE USED.
2. THIS "LINE" REPRESENTS THE OUTLINE OF THE NEW SHERIFF'S OFFICE AND JAIL BUILDING BEING PROVIDED AS A PART OF THIS PROJECT.
3. PROVIDE TEMPORARY OVERHEAD UTILITIES (POWER, TELEPHONE, CATV, AND COUNTY FIBER) AS COORDINATED WITH "AEP", "AT&T", "TWC", AND "FAIRFIELD COUNTY", RESPECTIVELY.
4. NEW TEMPORARY UTILITY POLE LOCATION. COORDINATE WITH "AEP" THE PROVISION OF NEW POLE MOUNTED TRANSFORMERS OR THE RELOCATION OF THE EXISTING POLE MOUNTED TRANSFORMERS AT THE TEMPORARY UTILITY POLE LOCATION. TEMPORARY SECONDARY FEEDER CABLING INDICATED IN NOTE 7 BELOW SHOULD BE PROVIDED AS SOON AS THIS POLE IS INSTALLED TO MINIMIZE THE SERVICE INTERRUPTION TIME WHEN THE EXISTING BUILDING SERVICE IS SWITCHED OVER TO THIS TEMPORARY SERVICE.
5. CONTINUE / EXTEND THE TEMPORARY OVERHEAD UTILITIES (POWER, TELEPHONE, CATV, AND COUNTY FIBER) AS COORDINATED WITH "AEP", "AT&T", "TWC", AND "FAIRFIELD COUNTY", RESPECTIVELY, FROM THE NEW TEMPORARY SERVICES POLE INDICATED IN NOTE 4 ABOVE, TO THE WALL OF THE EXISTING BUILDING; SECURE THE TEMPORARY SERVICE LANDING POINT TO THE EXISTING BUILDING WALL – AND CONTINUE / EXTEND THE TEMPORARY OVERHEAD UTILITIES AS INDICATED IN NOTES; 7 THRU 10 BELOW.
6. STAND–BY EMERGENCY GENERATOR (350KW) – REMOVE, RELOCATE, AND REINSTALL THE EXISTING GENERATOR, FROM ITS EXISTING LOCATION SOUTH OF THE EXISTING JAIL (REFER TO SHEET ED001), TO THIS LOCATION. PROVIDE / EXTEND A TEMPORARY 800A FEEDER FROM THE TEMPORARY GENERATOR LOCATION, UNDERGROUND TO THE EXISTING JAIL BUILDING, THEN UP THE BUILDING WALL AND OVERHEAD (ON THE WALL) TO THE SOUTH, TO A LOCATION CLOSE THE THE SOUTH END OF THE BUILDING WHERE IT WILL GO THROUGH THE WALL AND CONNECT TO THE EXISTING EMERGENCY SERVICE AUTOMATIC TRANSFER SWITCH, IN THE EXISTING MECH/ELEC ROOM.
7. COORDINATE THE PROVISION OF TEMPORARY OVERHEAD "AEP" UTILITY POWER, FROM AN EXISTING POLE ALONG THE SOUTH SIDE OF WHEELING STREET TO A NEW TEMPORARY POLE (WITH "AEP" POLE MOUNTED TRANSFORMERS, REFER TO NOTE 4 ABOVE), AS COORDINATED WITH "AEP", AND PROVIDE AN OVERHEAD SECONDARY FEEDER (800A), FROM THE TRANSFORMERS ON THAT POLE TO THE EXISTING JAIL BUILDING, SECURE THE TEMPORARY SERVICE LANDING POINT TO THE EXISTING BUILDING WALL – AND CONTINUE / EXTEND THE TEMPORARY OVERHEAD UTILITIES, HIGH ON THE WALL, TO THE SOUTH, TO A LOCATION CLOSE TO THE SOUTH END OF THE BUILDING WHERE IT WILL GO THROUGH THE WALL AND CONNECT TO THE EXISTING MAIN SERVICE BOARD, IN THE EXISTING MECH/ELEC ROOM.
8. COORDINATE THE PROVISION OF TEMPORARY OVERHEAD "AT&T" UTILITY LINE, FROM AN EXISTING POLE ALONG THE SOUTH SIDE OF WHEELING STREET TO A NEW TEMPORARY POLE (REFER TO NOTE 4 ABOVE), AS COORDINATED WITH "AT&T" (AND "AEP"), AND THEN COORDINATE THE CONTINUATION/PROVISION THE OVERHEAD "AT&T" UTILITY LINE, FROM THAT POLE TO THE EXISTING JAIL BUILDING, SECURE THE TEMPORARY SERVICE LANDING POINT TO THE EXISTING BUILDING WALL, AND CONTINUE / EXTEND THE TEMPORARY OVERHEAD "AT&T" UTILITIES, HIGH ON THE WALL, TO THE SOUTH, TO A LOCATION CLOSE TO THE SOUTH END OF THE BUILDING WHERE IT WILL GO THROUGH THE WALL AND CONNECT TO THE EXISTING MAIN SERVICE AT THE EXISTING SERVICE BACKBOARD, IN THE EXISTING MECH/ELEC ROOM.
9. COORDINATE THE PROVISION OF TEMPORARY OVERHEAD "TWC" UTILITY LINE, FROM AN EXISTING POLE ALONG THE SOUTH SIDE OF WHEELING STREET TO A NEW TEMPORARY POLE (REFER TO NOTE 4 ABOVE), AS COORDINATED WITH "TWC" (AND "AEP"), AND THEN COORDINATE THE CONTINUATION/PROVISION THE OVERHEAD "TWC" UTILITY LINE, FROM THAT POLE TO THE EXISTING JAIL BUILDING, SECURE THE TEMPORARY SERVICE LANDING POINT TO THE EXISTING BUILDING WALL, AND CONTINUE / EXTEND THE TEMPORARY OVERHEAD "TWC" UTILITIES, HIGH ON THE WALL, TO THE SOUTH, TO A LOCATION CLOSE TO THE SOUTH END OF THE BUILDING WHERE IT WILL GO THROUGH THE WALL AND CONNECT TO THE EXISTING MAIN SERVICE AT THE EXISTING SERVICE BACKBOARD, IN THE EXISTING MECH/ELEC ROOM.
10. COORDINATE THE PROVISION OF TEMPORARY OVERHEAD "COUNTY FIBER" LINE, FROM AN EXISTING POLE ALONG THE SOUTH SIDE OF WHEELING STREET TO A NEW TEMPORARY POLE (REFER TO NOTE 4 ABOVE), AS COORDINATED WITH "FAIRFIELD COUNTY" (AND "AEP"), AND THEN COORDINATE THE CONTINUATION/PROVISION THE OVERHEAD "COUNTY FIBER" LINE, FROM THAT POLE TO THE EXISTING JAIL BUILDING, SECURE THE TEMPORARY SERVICE LANDING POINT TO THE EXISTING BUILDING WALL, AND CONTINUE / EXTEND THE TEMPORARY OVERHEAD "COUNTY FIBER", HIGH ON THE WALL, TO THE SOUTH, TO A LOCATION CLOSE TO THE SOUTH END OF THE BUILDING WHERE IT WILL GO THROUGH THE WALL AND CONNECT TO THE EXISTING SERVICE AT THE EXISTING SERVICE BACKBOARD, IN THE EXISTING MECH/ELEC ROOM.
11. APPROXIMATE LOCATION WHERE TEMPORARY SECONDARY ("AEP", UTILITY) POWER, AND TEMPORARY EMERGENCY POWER WILL PENETRATE THE EXISTING EXTERIOR WALL.
12. APPROXIMATE LOCATION WHERE TEMPORARY; "AT&T", "TWC", AND "COUNTY FIBER" WILL PENETRATE THE EXISTING EXTERIOR WALL.
13. NEW UNDERGROUND "AEP" PRIMARY (PROVIDE TWO 5.0–INCH CONDUITS), FROM THE "AEP" POLE TO THE NEW "AEP" VAULT MOUNTED TRANSFORMER.
14. NEW "AEP" VAULT MOUNTED TRANSFORMER (VAULT PROVIDED BY THE ELECTRICAL CONTRACTOR). REFER TO SHEETS E211 AND E500 FOR ADDITIONAL REQUIREMENTS.
15. NEW BUILDING ELECTRICAL SERVICE FEEDER (PROVIDED BY THE ELECTRICAL CONTRACTOR). REFER TO SHEETS E211 AND E501 FOR ADDITIONAL REQUIREMENTS.
16. NEW UNDERGROUND; "AEP", "AT&T", AND COUNTY FIBER LINES (PROVIDE TWO 4.0–INCH CONDUITS, AND ONE 2.5–INCH CONDUIT), FROM THE UTILITY POLE TO THE NEW DEMARC BACKBOARD, FOR THIS BASE BID ONLY, LOCATION.
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18. FAIRFIELD COUNTY JUSTICE CENTER – MONUMENT SIGN. PROVIDE A WEATHERPROOF HARD WIRED CONNECTION (WITH A DISCONNECT), AND A 20A, 277V CIRCUIT (2 #10 AND 1 #10 GRD, IN 1.0–INCH CONDUIT), EXTENDED THRU THE EXTERIOR LIGHTING CONTACTOR, TO THE PANEL.
19. FLAG POLE LIGHT. PROVIDE THE LIGHT INDICATED (REFER TO THE SCHEDULE ON SHEET E411), FLUSH MOUNTED IN THE PAVE AREA, IN FRONT OF THE FLAG POLE, COORDINATED WITH THE CONTRACTOR PROVIDING THE "PAVING", AND CIRCUIT WITH THE EXTERIOR LIGHTING AS INDICATED.
20. POWER COMPANY VAULT MOUNTED TRANSFORMER. COORDINATE TRANSFORMER ORIENTATION WITH THE POWER COMPANY (REFER TO CONTACT INFORMATION ON THIS SHEET), PRIOR TO THE SETTING OF THE VAULT. VERIFY VAULT COMPATIBILITY WITH THE POWER COMPANY TRANSFORMER, PRIOR TO THE ORDERING OF THE VAULT, PROVIDED BY THE ELECTRICAL CONTRACTOR.
21. VERIFY POWER COMPANY POLE LOCATIONS WITH THE POWER COMPANY (REFER TO CONTACT INFORMATION ON THIS SHEET), PRIOR TO START OF THE WORK. REFER TO SHEET E500 FOR ELECTRICAL DUCT DETAILS.

SITE GENERAL NOTES

THESE NOTES ARE APPLICABLE TO ALL ELECTRICAL SHEETS RELATED TO SITE WORK. REFER TO THE SPECIFICATIONS FOR ADDITIONAL GUIDELINES AND REQUIREMENTS.

A. THE SCOPE OF THE WORK FOR THIS PROJECT IS TO PROVIDE THE NEW ELECTRICAL WORK INDICATED IN THE CONTRACT DOCUMENTS (DRAWINGS AND SPECIFICATIONS) FOR THE NEW FAIRFIELD COUNTY SHERIFF'S OFFICE AND JAIL. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK INDICATED ON THE ELECTRICAL ("E" SHEETS) DRAWINGS AS WELL AS OTHER RESPONSIBILITIES THAT ARE INDICATED OR REFERENCED ON – OTHER DRAWINGS, OR IN THE SPECIFICATIONS AS BEING BY THE ELECTRICAL CONTRACTOR.

B. COORDINATE THE CHANGES IN EXISTING OVERHEAD UTILITIES, INDICATED ON THE SITE PLAN, WITH THE UTILITY CONTACTS INDICATED – PRIOR TO THE START OF THE WORK.

C. COORDINATE THE INSTALLATION OF THE TEMPORARY ELECTRICAL SERVICE TO THE EXISTING JAIL, INDICATED ON SHEET E001, PRIOR TO THE REMOVAL OF THE EXISTING ELECTRICAL SERVICE TO THE EXISTING JAIL.

D. COORDINATE THE INSTALLATION OF THE TEMPORARY TELEPHONE, CABLE TV, AND COUNTY CABLE SERVICES TO THE EXISTING JAIL, INDICATED ON SHEET E001, PRIOR TO THE REMOVAL OF THESE EXISTING SERVICES TO THE EXISTING JAIL.

E. REFER TO THE CIVIL SITE NEW UTILITY PLANS, AND CLOSELY REVIEW THE ROUTING OF THE NEW UTILITIES, "ELECTRICAL" DUCTS – TO AVOID CONFLICTS WITH THE NEW WORK AND EXISTING WORK.

F. COORDINATE THE LOCATIONS OF NEW AND EXISTING; WATER, SANITARY, STORM, AND NATURAL GAS LINES, TO AVOID CONFLICTS AND PROTECT FROM DAMAGE DURING CONSTRUCTION.

G. ANY LOCATION WHERE SITE PRIMARY (OR SECONDARY) DUCTS AND SITE SYSTEMS DUCTS ARE INDICATED AS ROUTED PARALLEL TO EACH OTHER – THEIR DUCT BANK (OR ENCASEMENT) SHALL BE SEPARATED BY A MINIMUM OF TWELVE (12 INCHES, HORIZONTALLY.

H. LOCATIONS OF BARRIER POSTS OR BOLLARDS, PROVIDED BY THE ELECTRICAL CONTRACTOR, AROUND THE TRANSFORMER PADS, SHALL BE REVIEWED AND APPROVED BY "AEP" PRIOR TO THEIR INSTALLATION.

I. ALL EMPTY CONDUITS SHALL HAVE THEIR ENDS CAPPED, AND SHALL BE PROVIDED WITH PULL WIRES.

E001–13208.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
TEL	TEL	DLP	13208

GENERAL NOTES

A. PROJECT SCOPE CALLS FOR THE PROVISION OF A NEW SHERIFF'S OFFICE AND JAIL FOR FAIRFIELD COUNTY. UTILITY CONTACTS ARE INDICATED ON THIS SHEET.

B. EXISTING UTILITIES (POWER, TELEPHONE AND CABLE) SHALL BE REWORKED TO PROVIDE TEMPORARY SERVICES TO KEEP THE EXISTING JAIL BUILDING OPERATIONAL AND FUNCTIONAL UNTIL THE NEW JAIL IS READY TO BE USED.

C. AFTER THE EXISTING UTILITIES (POWER, TELEPHONE AND CABLE) HAVE BEEN REWORKED, THE EXISTING PERMANENT UTILITIES CAN BE REMOVED FROM THE WORK AREA FOR THE NEW SHERIFF'S OFFICE AND JAIL FACILITY.

D. INSTALLATION OF NEW ELECTRICAL SERVICE WORK INCLUDING THE; PROVISION OF NEW TEMPORARY SERVICE, REMOVAL OF EXISTING PERMANENT SERVICE, AND PROVISION OF NEW PERMANENT SERVICE SHALL BE COORDINATED WITH AEP.

E. THE CONTRACTOR SHALL HAVE WRITTEN APPROVAL OF SCHEDULED POWER OUTAGES (INDICATING THE CONTRACTORS ESTIMATED OUTAGE LENGTH) FROM THE FAIRFIELD COUNTY PERSONNEL, PRIOR TO ANY SCHEDULED POWER OUTAGE.

F. INSTALLATION OF NEW TELEPHONE SERVICE WORK INCLUDING THE; PROVISION OF NEW TEMPORARY SERVICE, REMOVAL OF EXISTING PERMANENT SERVICE, AND PROVISION OF NEW PERMANENT SERVICE SHALL BE COORDINATED WITH AT&T.

G. INSTALLATION OF NEW CABLE SERVICE WORK INCLUDING THE; PROVISION OF NEW TEMPORARY SERVICE, REMOVAL OF EXISTING PERMANENT SERVICE, AND PROVISION OF NEW PERMANENT SERVICE SHALL BE COORDINATED WITH TWC.

H. BECAUSE OF THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR INDICATED IN GENERAL NOTES ABOVE – IT IS STRONGLY RECOMMENDED THAT THE BIDDING CONTRACTOR VISIT THE SITE TO VERIFY THE EXISTING CONDITIONS – PRIOR TO SUBMITTING A BID FOR THE WORK.

I. THE INSTALLATION OF ANY NEW SERVICE WORK SHALL BE DONE IN STRICT ACCORDANCE WITH; "AEP", "AT&T", AND "TWC" REQUIREMENTS; THE NATIONAL ELECTRICAL CODE ("NEC"), AND ANY APPLICABLE STATE OR LOCAL CODES.

J. THE INSTALLATION OF NEW SERVICE WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER, SO THAT ANY EXPOSED SYSTEM COMPONENTS (PAINTED TO MATCH ADJACENT MATERIALS/ SURFACES) WILL BLEND IN WITH THE APPEARANCE OF THE SITE AS MUCH AS POSSIBLE.

K. KEEP THE AREA OF WORK CLEAN AND SAFE WITH DAILY ATTENTION TO CONTROLLING WASTE AND DEBRIS ON THIS SITE, AND PROVIDING A 6–FEET HIGH CHAIN–LINKED FENCE AROUND THE WORK AREA TO LIMIT ACCESS DURING THE WORK.

L. ALL WORK PROVIDED SHALL BE IN ACCORDANCE THE NFPA LIFE SAFETY CODE (NFPA 101), THE 2012 EDITION.

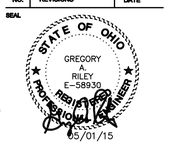
M. COORDINATE SERVICE WORK WITH; "AEP", "AT&T", AND "TWC"; PRIOR TO THE START OF THE WORK.

N. ALL SERVICE WORK NOT PROVIDED BY; "AEP", "AT&T", OR "TWC"; SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

O. IT IS THE INTENT THAT ALL WORK BE COMPLETE TO PROVIDE FAIRFIELD COUNTY WITH A NEW OPERATING AND FUNCTIONAL SHERIFF'S OFFICE AND JAIL FACILITY. VERIFY THE "AEP", "AT&T", AND "TWC" UTILITY – ELECTRICAL CONTRACTOR SEPARATION OF SERVICES PRIOR TO SUBMITTING A BID FOR THE ELECTRICAL WORK.

NO.	REVISIONS	DATE
1	.	.

SEAL



05/01/15

PROJECT
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SHEET TITLE
SITE ELECTRICAL NEW WORK PLAN

DRAWN TEL
PROJECT NO. 1339
DATE 05/01/2015

DRAWING NO. E001

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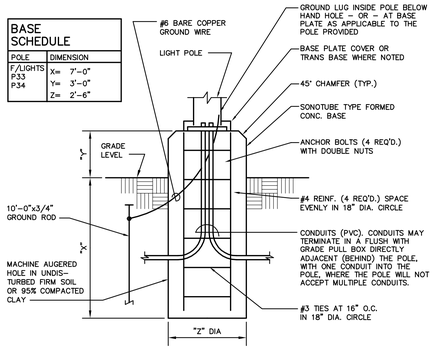
BASE SCHEDULE	
POLE	DIMENSION
F/LIGHTS P33 P34	X= 7'-0"
	Y= 3'-0"
	Z= 2'-6"



LIGHT POLE CONC. BASE DETAIL ①

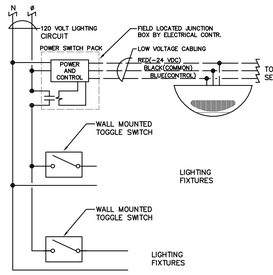
NO SCALE

SITE LIGHTING GENERAL NOTES

A. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY EACH POLE LOCATION, PRIOR TO INSTALLATION OF BASES.

B. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND TRENCHING (EXCAVATION AND BACKFILL) FOR THE CIRCUITRY BETWEEN POLES AND ROUTED/RUN TO THE PANELBOARD FOR THE SITE LIGHTING CIRCUITRY, ROUTED 24–INCHES BELOW GRADE.

C. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FILLING TRENCHES WITH COMPACTED GRAVEL UP TO 4–INCHES BELOW FINISHED GRADE – WHERE THE TRENCH IS IN AN EXISTING CONCRETE OR ASPHALT AREA, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A 4–INCH CONCRETE CAP – AND WHERE THE TRENCH IS IN AN EXISTING NON–IMPROVED AREA, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A 4–INCH SOIL CAP.



NOTE: THESE ARE "TYPICAL" DIAGRAMS.

CEILING MOUNTED OCCUPANCY SENSOR WIRING DIAGRAM ②

SCALE: NONE

NOTE: THE WIRING DIAGRAM FOR WALL MOUNTED OCCUPANCY SENSORS IS SIMILAR, HOWEVER, OFTEN THERE IS NO POWER PACK REQUIRED – WITH THAT BEING PART OF THE WALL DEVICE.

BUILDING LUMINAIRE/FIXTURE SCHEDULE

NOTE : FIXTURE NUMBER, LETTER PREFIX INDICATES TYPE OF MOUNTING AS FOLLOWS: CL–CEILING SURFACE MOUNTED; S–STEM SUSPENDED MOUNTED; W–WALL MOUNTED; R–CEILING RECESSED MOUNTED; WR–WALL RECESSED MOUNTED; CV–COVE MOUNTED; UC–UNDER CABINET MOUNTED; H–MOUNTED IN HOOD; CH–CHAIN MOUNTED; T–TRACK MOUNTED; GND–GROUND.

FIXTURE NUMBER	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS	REMARKS
R1	2X4 FLUORESCENT, LAY–IN GRID LUMINAIRE W/ 0.125" LENS AND ELECTRONIC BALLAST(S)	LITHONIA COLUMBIA METALUX DAY–BRITE	2GT8–332–A12125–MVOLT–1/3–GEB10PS–LP735 – – –	(3) 32W T8	– –
R2	2X4 FLUORESCENT, LAY–IN GRID LUMINAIRE W/ 0.125" LENS AND ELECTRONIC BALLAST(S)	LITHONIA COLUMBIA METALUX DAY–BRITE	2GT8–232–A12125–MVOLT–GEB10PS–LP735 – – –	(2) 32W T8	– –
R3	2X4 FLUORESCENT, LAY–IN VOLUMETRIC LUMINAIRE W/ ACRYLIC LINEAR PRISMATIC LENS AND ELECTRONIC BALLAST(S)	LITHONIA COLUMBIA METALUX DAY–BRITE	2VT5–154T5HO–ADP–MVOLT–GEB10PS–LP835 – – –	(1) 54W T5HO	– –
R4	2X2 FLUORESCENT, LAY–IN VOLUMETRIC LUMINAIRE W/ ACRYLIC LINEAR PRISMATIC LENS AND ELECTRONIC BALLAST(S)	LITHONIA COLUMBIA METALUX DAY–BRITE	2VT5–224T5HO–ADP–MVOLT–GEB10PS–LP835 – – –	(2) 24W T5HO	– –
R4A	2X2 FLUORESCENT, LAY–IN VOLUMETRIC LUMINAIRE W/ ACRYLIC LINEAR PRISMATIC LENS AND ELECTRONIC BALLAST(S)	LITHONIA COLUMBIA METALUX DAY–BRITE	2VT5–217T8–ADP–MVOLT–GEB10PS–LP835 – – –	(2) 17W T8	– –
R5	2X4 FLUORESCENT, LAY–IN VOLUMETRIC LUMINAIRE W/ ACRYLIC LINEAR PRISMATIC LENS AND ELECTRONIC BALLAST(S)	LITHONIA COLUMBIA METALUX DAY–BRITE	2VT5–132T8–ADP–MVOLT–GEB10PS–LP835 – – –	(1) 32W T8	– –
R6	1X4 FLUORESCENT, LAY–IN GRID LUMINAIRE W/ 0.125" LENS AND ELECTRONIC BALLAST(S)	LITHONIA COLUMBIA METALUX DAY–BRITE	GT8–232–A12125–MVOLT–GEB10PS–LP735 – – –	(2) 32W T8	– –
R7	2X2 FLUORESCENT, LAY–IN GRID LUMINAIRE W/ 0.125" LENS AND ELECTRONIC BALLAST(S)	LITHONIA COLUMBIA METALUX DAY–BRITE	2GT8–2U31–A12125–MVOLT–GEB10PS–LP735 – – –	(2) U31W T8	– –
R8	2X4 FLUORESCENT LAY–IN GRID LUMINAIRE W/ 0.156" LENS AND ELECTRONIC BALLAST(S)	CD LIGHTING ABL–LITHONIA COLUMBIA METALUX	VFT–24–2–54–277–EB–15PG–GF – – –	(2) 54W T5HO	REFER TO NOTE 6 BELOW –
R9	2X4 FLUOUESCENT RECESSED LUMINAIRE W/ DOUBLE LENS AND ELECTRONIC BALLAST(S)	CD LIGHTING KENALL VISCOR FAIL–SAFE	DCA–24–S–2–54–277–EB–18TG–15PP–GF – – –	(2) 54W T5HO	REFER TO NOTE 6 BELOW – –
R10	1X4 FLUOUESCENT RECESSED LUMINAIRE W/ DOUBLE LENS AND ELECTRONIC BALLAST(S)	CD LIGHTING KENALL VISCOR FAIL–SAFE	DCA–14–S–2–54–277–EB–18TG–15PP–GF – – –	(2) 54W T5HO	REFER TO NOTE 6 BELOW – –
S11	1X4 FLUORESCENT SURFACE LUMINAIRE W/ DOUBLE LENS, NIGHT LIGHT, AND ELECTRONIC BALLAST(S)	CD LIGHTING KENALL VISCOR FAIL–SAFE	DSB–14–S–2–32–277–EB–25TG–15PP–GF–NL – – –	(2) 32W T8 (1) 9W PL	REFER TO NOTE 6 BELOW – –
S12	1X4 FLUORESCENT SURFACE LUMINAIRE W/ DOUBLE LENS AND ELECTRONIC BALLAST(S)	CD LIGHTING KENALL VISCOR FAIL–SAFE	DSA–14–S–2–32–277–EB–25TG–15PP–GF – – –	(2) 32W T8	LIGHT FIXTURES PROVIDED FOR THE COOLER–FREEZER, SHALL INCLUDE THE "CW" OPTION REFER TO NOTE 6 BELOW
S13	1X4 FLUORESCENT SURFACE LUMINAIRE W/ DOUBLE LENS AND ELECTRONIC BALLAST(S)	CD LIGHTING KENALL VISCOR FAIL–SAFE	DSC–14–S–2–54–277–EB–25TG–15PP–GF – – –	(2) 32W T8	REFER TO NOTE 6 BELOW – –
R14	2X2 METAL HALIDE, LAY–IN GRID LUMINAIRE W/ 0.156" LENS, QUARTZ RE–STRIKE, AND ELECTRONIC BALLAST(S)	DAY–BRITE LITHONIA COLUMBIA METALUX	CRHGDD22–M–400–M–277–G–EB–SS–Q – – –	(1) 400W MH	– –
X15	SECURITY (HIGH ABUSE) LED EXIT SIGN	CD LIGHTING KENALL NEW STAR MULE	DXL–1–RW–277–XX – – –	LED	REFER TO NOTE 6 BELOW – –
W16	LED – EXTERIOR, WALL PACK WITH ELECTRONIC DRIVER	PHILIPS–GARDCO ABL–LITHONIA HUBBELL McGRAW–EDISON	107L–2–55LA–NW–UNIV–BRP–F – – –	LED	WALL MOUNTED AT 11'–6" AFG COORDINATE WITH THE ARCHITECTURAL ELEVATIONS
W16A	LED – EXTERIOR, WALL PACK WITH ELECTRONIC DRIVER	PHILIPS–GARDCO ABL–LITHONIA HUBBELL McGRAW–EDISON	107L–4–35LA–NW–UNIV–BRP–F–UT – – –	LED	WALL MOUNTED AT 8'–6" AFG, ABOVE DOOR, COORDINATE WITH THE ARCHITECTURAL ELEVATIONS
S17	4–FEET FLUORESCENT SURFACE LUMINAIRE W/ ACRYLIC LENS, AND ELECTRONIC BALLAST(S)	PHILIPS–DAYBRITE LITHONIA HUBBELL COOPER	APX–332–UNV–1/3–EB–GLR–LT20 – – –	(3) 32W T8	SUPPORT FROM STRUCTURE ABOVE – –
R18	6–INCH DIA. FLUORESCENT RECESSED LUMINAIRE W/ PRISMATIC LENS, AND ELECTRONIC BALLAST(S)	PHILIPS–OMEGA LITHONIA HUBBELL COOPER	OM632PLTFZ277–R632PLTPLCS – – –	(1) 32W CF	– – –
R19	6–INCH DIA. FLUORESCENT RECESSED LUMINAIRE W/ CLEAR REFLECTOR, AND ELECTRONIC BALLAST(S)	PHILIPS–OMEGA LITHONIA HUBBELL COOPER	OM642PLTDL2–R642PLTPLCS – – –	(1) 42W CF	– – –
S20	8–FEET FLUORESCENT SURFACE VAPORTIGHT LUMINAIRE W/ ACRYLIC LENS, AND ELECTRONIC BALLAST(S)	PHILIPS–DAYBRITE LITHONIA HUBBELL COOPER	TV2–W–E–232–277–2/2–EB10R – – –	(4) 32W T8	SUPPORT FROM STRUCTURE ABOVE – –
W21	4–FEET FLUORESCENT WALL MOUNTED LUMINAIRE W/ POLYCARBONATE LENS, AND ELECTRONIC BALLAST(S)	PHILIPS–DAYBRITE LITHONIA HUBBELL COOPER	CD–1–32–W–277–EB10R–GLR1 – – –	(1) 32W T8	WALL MOUNTED, AT CEILING, ABOVE DOOR –
W22	2–FEET FLUORESCENT WALL MOUNTED LUMINAIRE W/ POLYCARBONATE LENS, AND ELECTRONIC BALLAST(S)	PHILIPS–DAYBRITE LITHONIA HUBBELL COOPER	CD–2–17–W–277–EB10R–GLR1 – – –	(2) 17W T8	WALL MOUNTED, AT CEILING, ABOVE DOOR –
UC23	2–FEET FLUORESCENT UNDER CABINET LUMINAIRE W/ POLYCARBONATE LENS, AND ELECTRONIC BALLAST(S)	PHILIPS–DAYBRITE LITHONIA HUBBELL COOPER	8UC–1–17–W–UNV–EB10R–GLR – – –	(1) 17W T8	UNDER CABINET MOUNTED – –
R24	1X1 FLUORESCENT RECESSED LUMINAIRE W/ DOUBLE LENS AND ELECTRONIC BALLAST(S)	CD LIGHTING KENALL VISCOR FAIL–SAFE	CFA–11–S–3–13–277–EB–25TG–18PP–GF – – –	(3) 13W T5/TT	– REFER TO NOTES 4 AND 6 BELOW.
S25	1X2 FLUORESCENT SURFACE LUMINAIRE W/ DOUBLE LENS, AND ELECTRONIC BALLAST(S)	CD LIGHTING KENALL VISCOR FAIL–SAFE	DSB–14–S–2–32–277–EB–25TG–15PP–GF–NL – – –	(2) 32W T8	– – –
S26	4–FEET FLUORESCENT INDUSTRIAL LUMINAIRE W/ WIRE GUARD, AND ELECTRONIC BALLAST(S)	PHILIPS–DAYBRITE LITHONIA HUBBELL COOPER	1FD–254HO–PP–277–1/2–EB10R–GLR1 – – –	(2) 54W T5HO	– – –

BUILDING LUMINAIRE/FIXTURE SCHEDULE

NOTE : FIXTURE NUMBER, LETTER PREFIX INDICATES TYPE OF MOUNTING AS FOLLOWS: CL–CEILING SURFACE MOUNTED; S–STEM SUSPENDED MOUNTED; W–WALL MOUNTED; R–CEILING RECESSED MOUNTED; WR–WALL RECESSED MOUNTED; CV–COVE MOUNTED; UC–UNDER CABINET MOUNTED; H–MOUNTED IN HOOD; CH–CHAIN MOUNTED; T–TRACK MOUNTED; GND–GROUND.

FIXTURE NUMBER	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS	REMARKS
R27	2X2 FLUORESCENT, LAY–IN TROFFER LUMINAIRE W/ 3/4"x3/4"x1/2" SILVER CUBE LOUVER AND ELECTRONIC BALLAST(S)	LITHONIA COLUMBIA METALUX DAY–BRITE	2SPG–331U1–FA–52–277–1/3–EB10R–GLR1 – – –	(3) 31U1W T8	– –
X28	DIE–CAST ALUMINUM, LED. EXIT SIGN, SINGLE FACE	PHILIPS–CHLORIDE LITHONIA HUBBELL COOPER	40L–3–W–R–TP – – –	LED	–
X28A	DIE–CAST ALUMINUM, LED. EXIT SIGN, DOUBLE FACE	PHILIPS–CHLORIDE LITHONIA HUBBELL COOPER	40L–3–W–R–TP – – –	LED	–
W29	4–FEET FLUORESCENT WALL SURFACE LUMINAIRE W/ DOUBLE LENS, NIGHT LIGHT, AND ELECTRONIC BALLAST(S)	CD LIGHTING KENALL VISCOR FAIL–SAFE	DWE–4–S–1/1–32–277–EB–25TG–15PP–GF–NL – – –	(2) 32W T8 (1) 9W PL	MOUNTED 6–INCHES ABOVE THE MIRROR REFER TO NOTE 6 BELOW –
W29A	3–FEET FLUORESCENT WALL SURFACE LUMINAIRE W/ DOUBLE LENS, AND ELECTRONIC BALLAST(S)	CD LIGHTING KENALL VISCOR FAIL–SAFE	DWB–4–S–1/1–25–277–EB–25TG–15PP–GF – – –	(2) 25W T8	MOUNTED 6–INCHES ABOVE THE MIRROR REFER TO NOTE 6 BELOW –
W30	METAL HALIDE, EXTERIOR, WALL PACK WITH ELECTRONIC BALLAST	PHILIPS–DAYBRITE ABL–LITHONIA HUBBELL McGRAW–EDISON	WLR–175–M–MT–LP–WSF–Q – – –	(1) 175W MH (1) 250W QZ	WALL MOUNTED AT 12'–6" AFG COORDINATE WITH THE ARCHITECTURAL ELEVATIONS
S31	4–FEET FLUORESCENT SURFACE LUMINAIRE W/ DOUBLE LENS, AND ELECTRONIC BALLAST(S)	CD LIGHTING KENALL VISCOR FAIL–SAFE	MEDSDPH14–232–UNV–7–E–F2–1/2–EB10R9LR1 – – –	(2) 32W T8	REFER TO NOTE 6 BELOW – –
W32	THERMOPLASTIC , 12V, TUNGSTEN, EMERGENCY LIGHTING UNIT	PHILIPS–CHLORIDE LITHONIA HUBBELL COOPER	2M36–W–J218–2–F2–T – – –	(2) 18W 12VDC	CONNECT TO ROOM LIGHTING CIRCUITRY AHEAD OF ANY LOCAL SWITCHING OR CONTROL.
P33	LOW PROFILE, METAL HALIDE, AREA LUMINAIRE, WITH CAST ALUMINUM HOUSING, AND MAGNETIC BALLAST	PHILIPS–GARDCO LITHONIA HUBBELL COOPER	G18–1–3XL–350PSMH–277–XXX–F – – –	(1) 350W PSMH	SINGLE HEAD LUMINAIRE – PULSE START LAMPING
P34	LOW PROFILE, METAL HALIDE, AREA LUMINAIRE, WITH CAST ALUMINUM HOUSING, AND MAGNETIC BALLAST	PHILIPS–GARDCO LITHONIA HUBBELL COOPER	G18–2–3XL–350PSMH–277–XXX–F – – –	(2) 350W PSMH	DOUBLE HEAD LUMINAIRE – PULSE START LAMPING
W35	WALL MOUNTED, FLUORESCENT, WITH POLYCARBONATE HOUSING, AND ELECTRO–MAGNETIC BALLAST	PHILIPS–DAY–BRITE LITHONIA HUBBELL COOPER	NWP–42C–F–12–LP – – –	(1) 42W CFL	ATTIC OR INTERSTITIAL SPACE, WALL MOUNTED 6–INCHES BELOW THE BOTTOM OF THE STRUCTURE ABOVE
GND36	FLUSH IN–GROUND MOUNTED, FLAG POLE LIGHT WITH COMPOSITE HOUSING, CONVEX ROCKGUARD AND BALLAST	ALLSCAPE – – –	SL–23–70MH–T6–277–NFLD–F–XX–CR – – –	(1) 70W MH	FLUSH IN–GROUND, FLAG POLE LIGHT, NARROW FLOOD

LUMINAIRE SCHEDULE NOTES :

1 FLUORESCENT LAMPS AND LED'S PROVIDED SHALL BE 3500K, UNLESS SPECIFICALLY INDICATED OTHERWISE.

2 COORDINATE / PROVIDE SUPPORT AT ALL FOUR CORNERS OF THE LIGHTING LUMINAIRE FOR LEVEL AND SECURE INSTALLATION.

3 FOR FIXTURE X15, THE ELECTRICAL CONTRACTOR SHALL VERIFY BOTH THE NUMBER OF FACES AND CHEVRONS REQUIRED FOR ALL OF THE EXIT LIGHTING LUMINAIRES, AND THE APPROPRIATE MOUNTING, FOR EACH LOCATION – PRIOR TO THE ORDERING OF THE LUMINAIRES.

4 COORDINATE MOUNTING IN (RECESSED) THE CEILING BEING PROVIDED – PROVIDING FOR LUMINAIRE OR LIGHTING FIXTURE WITH A FLANGE (ONLY WHERE REQUIRED) AND WITH SUPPORT, TO THE STRUCTURE ABOVE – AND COORDINATING WITH THE GENERAL TRADES CONTRACTOR TO ASSURE THE LUMINAIRE OR LIGHTING FIXTURE IS SECURED TIGHTLY TO THE CEILING.

5 COORDINATE MOUNTING TO (SURFACE) THE CEILING BEING PROVIDED – PROVIDING FOR LUMINAIRE OR LIGHTING FIXTURE SUPPORT, TO THE STRUCTURE ABOVE, OR THE CEILING STRUCTURE (ONLY IF LIGHTING SUPPORT WAS DESIGNED INTO THE CEILING STRUCTURE) – AND COORDINATING WITH THE GENERAL TRADES CONTRACTOR TO ASSURE THE LUMINAIRE OR LIGHTING FIXTURE TRIM IS SECURED TIGHTLY TO THE CEILING.

6 WHERE SURFACE MOUNTING A LUMINAIRE OR LIGHTING FIXTURE IN AN AREA WITH A SECURE CEILING AND/OR WHERE PRISONERS ARE NORMALLY PRESENT, THE LUMINAIRE OR LIGHTING FIXTURE SHALL BE MOUNTED AS TIGHT TO THE SURFACE AS POSSIBLE, TO ELIMINATE BEING ABLE TO INSERT "OBJECTS" BEHIND THE LIGHT.

LUMINAIRE SCHEDULE GENERAL NOTES :

A COORDINATE THE INSTALLATION OF THE LIGHTING WITH THE OTHER CONSTRUCTION TO AVOID CONFLICTS.

B WHERE/IF ANY CEILINGS ARE PROVIDED – REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS TO VERIFY THE LIGHTING LAYOUT, AND COORDINATE WITH ANY AIR DEVICES, AND SPRINKLER HEADS.

C WHERE/IF ANY CEILINGS ARE PROVIDED – VERIFY ALL OF THE CEILING TYPES WITH THE ARCHITECT PRIOR TO ORDERING ANY LUMINAIRES (LIGHTING FIXTURES), TO MAKE SURE THE PROPER FIXTURE TRIM IS ORDERED, AND TO BE AWARE OF CEILING MATERIALS, HEIGHTS, AND SLOPES FOR THE PROJECT.

D FOR LUMINAIRE (LIGHTING FIXTURE) INSTALLATION, THE E.C. SHALL PROVIDE ALL THE NECESSARY SUPPORTS AND MOUNTING ACCESSORIES, INCLUDING; BOXES, UNISTRUT, TRIM RINGS, CLAMPS, CABLE CLIPS, HANGERS, SWVEL ADAPTORS, PLASTER FRAMES, SLOPED CEILING ADAPTORS, ETC. – REQUIRED FOR A COMPLETE INSTALLATION.

E WHERE LUMINAIRES (LIGHTING FIXTURES) ARE AVAILABLE IN DIFFERENT COLORS AND/OR FINISHES – SUCH AS EXTERIOR WALL MOUNTED LUMINAIRES – COLOR/FINISH SELECTION SHALL BE VERIFIED WITH THE ARCHITECT, PRIOR TO ORDERING.

F UNLESS OTHERWISE NOTED, WHERE AND IF ANY ARE PROVIDED; T8 FLUORESCENT LAMP BALLASTS SHALL BE; ELECTRONIC, INSTANT START, UNIVERSAL VOLTAGE, 0.88 BF, < 10% THD, OSRAM SYLVANIA QTP–ISN–SERIES, OR AN APPROVED EQUAL BY GENERAL ELECTRIC OR ADVANCE.

G THE MANUFACTURERS LISTED IN THE SCHEDULE ARE CONSIDERED THE BASIS OF THE SPECIFICATION. OTHER LISTED MANUFACTURERS NOT LISTED IN THE SCHEDULE MAY BE SUBMITTED FOR APPROVAL AS EQUALS USING THE SUBSTITUTION PROCESS INDICATED IN THE SPECIFICATIONS. OTHER MANUFACTURERS INTERESTED IN SUPPLYING SUBSTITUTE PRODUCTS THE PROJECT MAY BE SUBMIT THEIR PRODUCTS FOR CONSIDERATION USING THE SPECIFIED INSTRUCTIONS FOR SUBSTITUTION PROCESS. THE ENGINEER SHALL HAVE THE FINAL SAY IN DETERMINING EQUALITY OF LUMINAIRE SUBMITTALS..

H WHERE LUMINAIRES / LIGHTING FIXTURES THAT ARE BEING FURNISHED FOR THIS PROJECT HAVE A "FUSING" OPTION – IT SHALL BE PROVIDED. ALSO, PROVIDE LUMINAIRES / LIGHTING FIXTURES WITH THERMAL PROTECTION AND DISCONNECTING MEANS AS REQURED BY THE CODE.

I WHERE EXIT LUMINAIRES / LIGHTING FIXTURES THAT ARE BEING FURNISHED FOR THIS PROJECT ARE INDICATED TO BE WALL MOUNTED; THEY SHALL BE MOUNTED JUST ABOVE A DOOR, OR WITH THE BOTTOM OF THE LUMINAIRE / LIGHTING FIXTURE AT 8'–0" AFF WHERE NOT MOUNTED AT A DOOR.

J IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO ASSURE THE PROPER NUMBER OF ELECTRONIC DRIVERS BE PROVIDED FOR THE LED LIGHTING FIXTURES OR LUMINAIRES. IN ANY AREA WHERE NOTATION ON THE LIGHTING PLANS INDICATES PART OF THE LIGHTING FIXTURE LIGHT IS TO BE CONNECTED TO NORMAL SOURCE POWER, AND PART OF THE LIGHTING FIXTURE LIGHT IS TO BE CONNECTED TO EMERGENCY SOURCE POWER – THE LIGHTING FIXTURE SHALL BE PROVIDED WITH TWO ELECTRONIC DRIVERS – ONE CIRCUITED/CONNECTED TO NORMAL POWER, AND THE OTHER CIRCUITED/CONNECTED TO EMERGENCY POWER.

K WHERE LUMINAIRES (LIGHTING FIXTURES) ARE INDICATED AS SHADED (OR HATCHED) – THEY SHALL BE PROVIDED THE SAME AS LUMINAIRES WITH THE SAME LABEL OR IDENTIFICATION THAT ARE NOT SHADED (OR HATCHED) EXCEPT THAT THEY SHALL BE CONNECTED EMERGENCY SUPPORTED CIRCUITRY. SHADED (OR HATCHED) LUMINAIRES (LIGHTING FIXTURES) SHALL BE COMPLETELY SUPPORTED BY EMERGENCY POWER, UNLESS THERE IS NOTATION ON THE DRAWINGS THAT THE LUMINAIRE (LIGHTING FIXTURE) IS HALF ON EMERGENCY AND HALF ON NORMAL.

L WHERE LUMINAIRES (LIGHTING FIXTURES) ARE PROVIDED IN AREAS OF THE JAIL PORTION OF THE BUILDING – WHERE JAIL PRISIONERS WOULD BE EXPECTED TO BE PRESENT, ALL SCREWS PROVIDED ON THOSE LUMINAIRES (LIGHTING FIXTURES) SHALL BE TAMPER PROOF TYPE.

IMPORTANT NOTE

COORDINATE THE LOCATION AND ELEVATION OF THE EXTERIOR WALL MOUNTED LUMINAIRES / LIGHTING FIXTURES WITH THE ARCHITECTURAL EXTERIOR ELEVATIONS TO ASSURE PROPER LOCATION, PRIOR TO ROUGH–IN.

GEN. NOTES

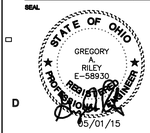
A. THE SCOPE OF THE WORK FOR THIS PROJECT IS TO PROVIDE THE ELECTRICAL WORK INDICATED IN THE CONTRACT DOCUMENTS, INCLUDING BOTH DRAWINGS AND SPECIFICATIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK INDICATED ON THE ELECTRICAL ("E" SHEETS) DRAWINGS AS WELL AS OTHER ELECTRICAL CONTRACTOR RESPONSIBILITIES THAT ARE INDICATED OR REFERENCED ON – OTHER PROJECT DRAWINGS OR THE SPECIFICATIONS.

B. LIGHTING IN THE "CELL" OR "DORM" AREAS, IN ADDITION TO THE AREAS THAT ARE DIRECTLY ADJACENT AND CONNECTED TO (OR ACCESSIBLE FROM) THESE "CELL" OR "DORM" AREAS SHALL BE CONTROLLED FROM THE DECS ("DETENTION ELECTRONICS CONTROL SYSTEM"), IN ADDITION TO ANY LOCAL CONTROL INDICATED.

C. REFER TO THE SECTION OF THE SPECIFICATIONS REFERRED TO AS "ELECTRICAL ALTERNATES" (OR 99 00) FOR ADDITIONAL NOTATION REGARDING THE LIGHTING ALTERNATES.

NO.	REVISIONS	DATE
1	.	.

SEAL



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SHEET TITLE
LUMINAIRE/LIGHTING FIXTURE SCHEDULE

DRAWN TEL
PROJECT NO. 1330
DATE 05/01/2015
DRAWING NO. E411

E411–13208.DWG

PRATER
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6130 Wilcox Road (614) 766 4896
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DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
TEL	TEL	DLP	13208

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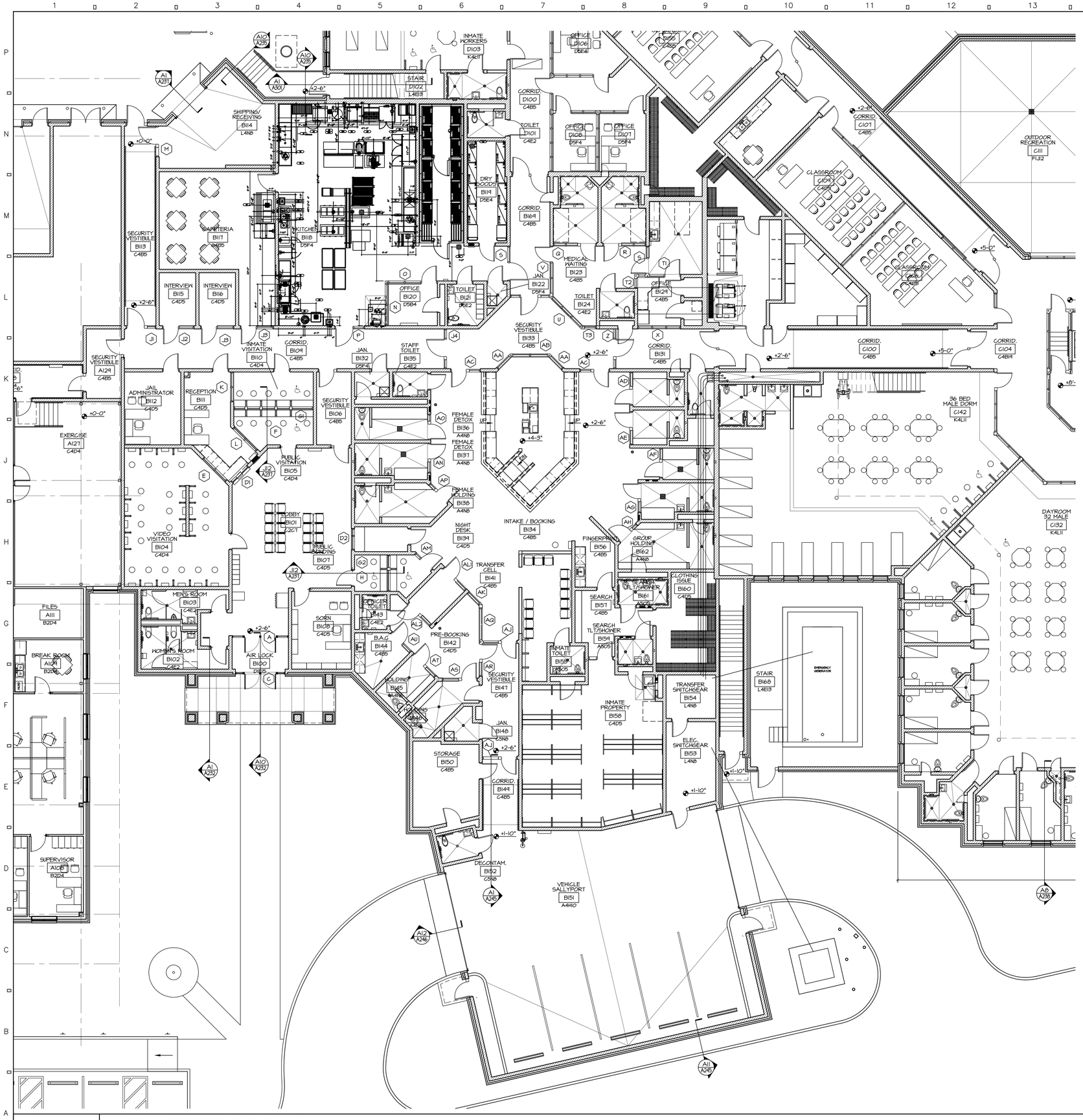
Appendix D

Plan Sheets A-103, A-112, E-211 and E-211 (Enlarged) Showing Location of Emergency Generator

DRAWINGS NOT PUBLISHED; ALL RIGHTS RESERVED

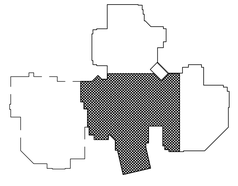


A1 PARTIAL FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"

A14 KEY PLAN

SCALE: N.T.S.



FINISH SCHEDULE

AIR LOCK 100 / AIB2 — FLOOR/BASE / WALL — CEILING HEIGHT / CEILING

FLOOR / BASE

- A SEALED CONC./NO BASE/SECURITY SEALANT
- B CARPET/RESILIENT
- C V.C.T./RESILIENT
- D QUARRY TILE/QUARRY TILE
- E CERAMIC TILE/CERAMIC TILE
- F BROOM FINISH CONC./NO BASE
- G CARPET-V.C.T./RESILIENT
- H CARPET-V.C.T./NO BASE
- J FLUID APPLIED FLOORING
- K VCT SCRIBED TO WALL/NO BASE
- L SEALED CONC./NO BASE

WALL

(ALL INTERIOR WALLS EXTEND TIGHT TO DECK ABOVE)

- 1 SPLIT FACE CONC. BLOCK
- 2 PAINTED DRYWALL
- 3 EPOXY PAINTED DRYWALL
- 4 PAINTED CONC. BLOCK
- 5 EPOXY PAINTED CONC. BLOCK
- 6 CERAMIC TILE
- 7 PAINTED DRYWALL & CONC. BLK.
- 8 EPOXY PAINTED CEMENT BOARD

CEILING

- A CEMENT PLASTER-COLOR BY ARCHITECT
- B ACOUSTIC TILE-12"x12" (CONCEALED GRID)
- C ACOUSTIC TILE-24"x24"
- D ACOUSTIC TILE-24"x48"
- E PAINTED DRYWALL
- F EPOXY PAINTED DRYWALL
- G PAINTED PRE-CAST CONC. (W/ SECURITY SEALANT)
- H PAINTED EXPOSED STRUCTURE
- J GALV. EXPOSED STRUCTURE & WIRE FABRIC
- K EPOXY PAINTED PRE-CAST (W/ SECURITY SEALANT)
- L PAINTED PRE CAST CONC. & 24"x48" ACOUSTIC TILE
- M EPOXY PAINTED STEEL PLATE
- N PAINTED PRE-CAST CONC.
- O EPOXY PAINTED CEMENT BOARD

CEILING HEIGHT

1	7'-10"
2	8'-0"
3	8'-3"
4	9'-0"
5	9'-2"
6	10'-0"
7	11'-0"
8	13'-10"
9	14'-4 1/2"
10	15'-0"±
11	19'-4"/21'-10"
12	22'-0"
13	VARIES
14	17'-1 1/2"
15	11'-10"
16	11'-2"
17	22'-2"
18	16'-6"/19'-0"
M	12'-0"

GENERAL NOTES

1. ALL MASONRY DIMENSIONS ARE TO FACE OF BRICK OR BLOCK UNLESS NOTED. ALL MASONRY DIMENSIONS ARE NOMINAL AT BRICK FACES.
2. ALL PARTITION DIMENSIONS ARE FACE OF STUD TO FACE OF STUD UNLESS NOTED. DIMENSIONS NOTED CLEAR (CLR) ARE CRITICAL DIMENSIONS FROM FINISHED FACE OF PARTITION TO CENTERLINES OF FIXTURES OR FINISHED FACE OF PARTITION.
3. SEE SITE DRAWINGS FOR EXTERIOR CONCRETE WALKS.
4. COORDINATE ALL CONTROL JOINTS WITH EXTERIOR ELEVATIONS.
5. SEE STAIR DETAILS ON SHEETS A302-A303.
6. SEE SHEETS A104, A105, A106, A107, A108, A104 & A110 FOR CODED NOTES, INTERIOR DIMENSIONS, SPECIALTIES, ETC.
7. X
8. ALL SHOWER ROOMS AND DRYING AREAS TO HAVE POSITIVE SLOPE TO DRAINS. TOP/DRAINS TO BE AT 1" (9'-11") BELOW TYPICAL FINISH FLOOR ELEVATION (100'-0").
9. CHECK FINISH SCHEDULES FOR LOCATION OF ALL GYPSUM BOARD WALLS.
10. ALL EXPOSED BEAMS THAT CARRY FLEXICORE IN HOUSING UNITS CAN ONLY BE PREFLATED ON ONE SIDE , TO ALLOW FOR INSTALLATION OF SPRINKLER SYSTEM. COORDINATE WITH SPRINKLER CONTRACTOR.
11. FLOOR SLABS IN OUTDOOR RECREATION AREA SHALL SLOPE TO FLOOR DRAINS A MINIMUM OF 3/16" PER FOOT. SLABS TO BE FLUSH AT ALL DOOR OPENINGS INTO OUTDOOR RECREATION AREA.
12. ALL STEEL BEAMS EXPOSED IN SECURITY AREAS SHALL HAVE 3/16" STEEL PLATE SIDE CLOSURES CONTINUOUS. WELDING AND FILLER AT ALL JOINTS TO BE THE SAME AS SPECIFIED FOR STEEL PLATE SOFFITS.
13. PROVIDE AND INSTALL SECURITY BARRIERS IN ALL DUCT PENETRATIONS AND OPENINGS THROUGH ALL FLOORS, WALLS, AND ROOF ENCLOSING AND WITHIN SECURITY PERIMETER WHERE LEAST DIMENSION OF OPENING EXCEEDS 5". VERIFY SIZE AND LOCATION OF ALL DUCT PENETRATIONS WITH HVAC DRAWINGS AND HVAC CONTRACTOR. VERIFY ALL OTHER OPENINGS REQUIRED WITH OTHER TRADES. SEE DETAILS A1 AND F1 SHEET A501.
14. IDENTIFICATION SYMBOLS FOR STANDARD AND SECURITY HOLLOW METAL WINDOW AND DOOR FRAMES ARE SHOWN ON THE LOOSE GLAZING STOP SIDE.
15. FOR CONTROL COUNTER DETAILS SEE INTERIOR ELEVS. AND ELECTRICAL DWGS. COORDINATE WITH DECS CONTRACTOR. MODIFY AS REQUIRED WITH DECS EQUIPMENT REQUIREMENTS.
16. GLAZING IN ALL WINDOWS AROUND CENTRAL CONTROL B103 SHALL HAVE PERFORATED VINYL FILM LAMINATED TO THE EXTERIOR WITH CORRIDOR SIDE GRAPHICS IMPRINT. (TYP)
17. DAYROOM STAIRS ARE TO RECEIVE COLORED CONCRETE SEALER.

NO.	REVISIONS	DATE

SEAL

STATE OF OHIO — GARRY McANALLY 6321 — REGISTERED ARCHITECT

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SHEET TITLE
PARTIAL FIRST FLOOR PLANS

DRAWN RAS
PROJECT NO. 1339
DATE 5/1/2015
DRAWING NO. A103

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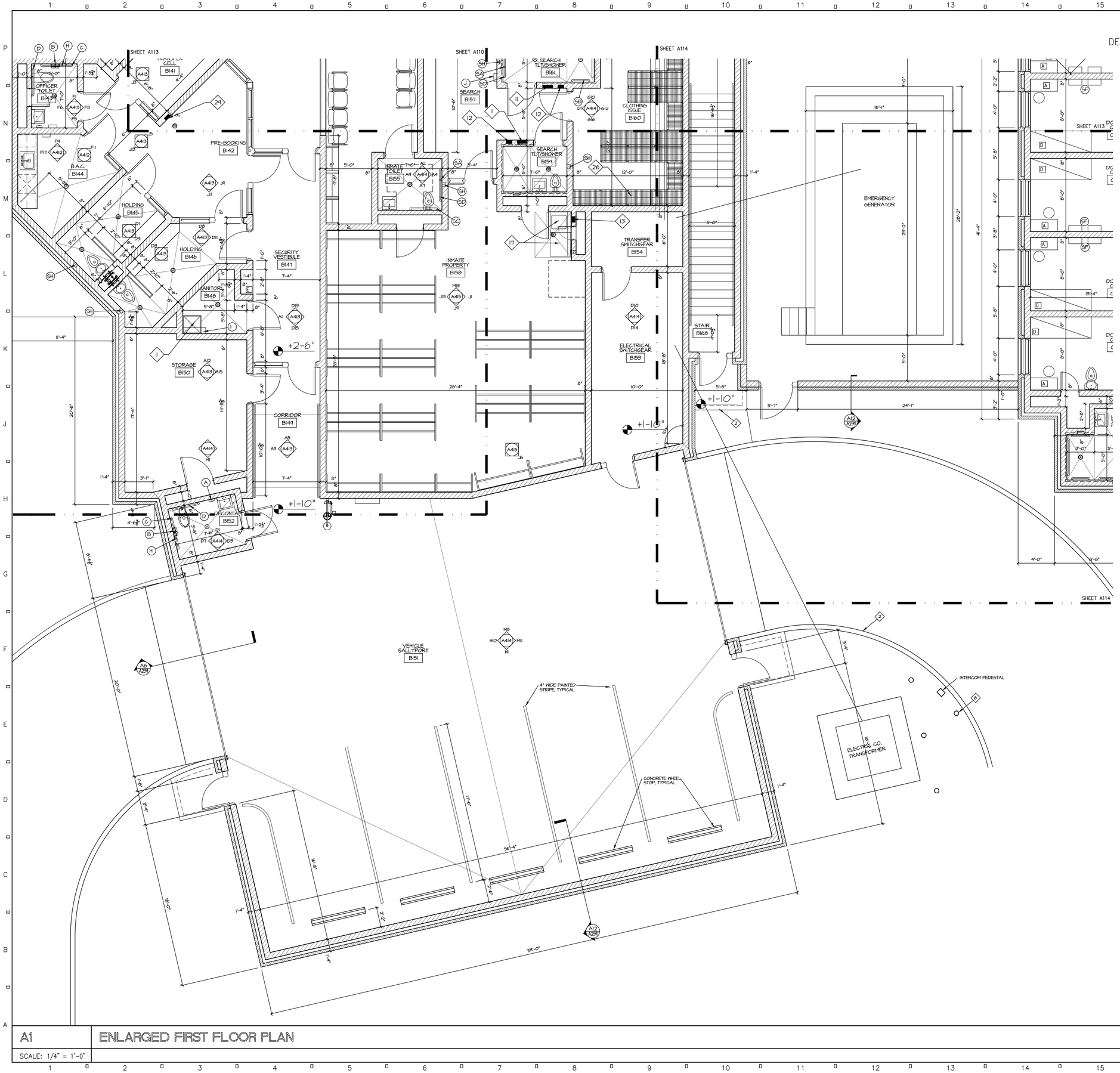

DETENTION EQUIPMENT

- A DESK WITH SEAT
- B FLOOR MOUNTED STOOL
- C SINGLE BUNK
- D DOUBLE BUNK
- E REPORT WRITING SHELF
- F 2 PERSON TABLE AND SEATS
- G 4 PERSON TABLE AND SEATS
- H SURFACE MOUNT PISTOL LOCKER
- I 6 PERSON TABLE AND SEATS
- J KEY CABINET
- K PACKAGE PASS
- L SILL PASS
- M INMATE PHONE
- N 3 PERSON TABLE AND SEATS (HANDICAP)
- O KITCHEN TOOL LOCKER
- P WALL MOUNTED HANDICAP TABLE
- Q WALL MOUNTED STOOL, "SWING-AWAY"
- R VIDEO VISITATION UNIT
- S COMMISSARY KIOSK
- T BOOKING KIOSK
- U EXTERIOR DEAL DRAWER
- V EVIDENCE LOCKERS

CODED NOTES

1. MOP SINK, SEE PLUMBING DRAWINGS.
2. EDGE OF TURNED DOWN SLAB. SEE SITE DRAWINGS FOR CONTINUATION.
3. LOUVER LOCATION, SEE MECHANICAL DRAWINGS & EXTERIOR ELEVATIONS.
4. FIRE EXTINGUISHER AND CABINET (FEC) UL RATING 4A-60BC, 10 LB. CAPACITY EXTINGUISHER, SEE SPECS.
5. TIME CAPSULE AND CORNER STONE, SEE SPECS. COORDINATE LOCATION WITH ARCHITECT PRIOR TO ERECTING MASONRY IN COVERED ENTRY AREA.
6. PIPE GUARDS, COORDINATE WITH SITE DRAWINGS.
7. FIRE EXTINGUISHER W/ WALL MOUNT BRACKET (FE), UL RATING 4A-60BC, 10 LBS CAPACITY EXTINGUISHER, SEE SPECS.
8. 8" PAINTED STRIPE ON FLOOR.
9. PROVIDE 12' MARKER BOARD. MOUNT CHALK RAIL @ 36" A.F.F.
10. PLASTIC LAMINATE WINDOW SILL SEE DETAIL A1/A602
11. REMOTE FLUSH VALVE BY PLUMBING CONTRACTOR.
12. REMOTE MIXING VALVE BY PLUMBING CONTRACTOR.
13. WASHER/DRYER HOOKUP BOX, SEE PLUMBING DWGS.
14. FOUR (4) 24" DEEP WOOD SHELVES.
15. PROVIDE 1-1/2" Ø STEEL GUARD RAIL AT 42" A.F.F TO TOP.
16. PROVIDE 2 COAT HOOKS. MOUNT @ 60" A.F.F.
17. WASHER/DRYER BY OWNER.
18. PROVIDE VINYL TREADS, RISERS AND NOSINGS.
19. VISITOR LOCKERS, 5 TIER 12" W. x 18" D.
20. PROVIDE 12" DEEP PAD FOR WASHERS, COORD. SIZE WITH EQUIPMENT SUPPLIER.
21. BENCH BY LOCKER MANUFACTURER, SEE SPECS.
22. COMMISSARY KIOSK
23. STAFF LOCKERS, SINGLE AND DOUBLE TIER 18" W. x 24" D.
24. PROVIDE THREE TELEPHONE ENCLOSURE, SEE SPECS.
25. VENDING MACHINS, BY OWNER.
26. WIRE SHELVING, SEE SPECS.
27. 16" DEEP STEEL WRITING SHELF, SEE DETAIL K12/A501
28. HIGH-LOW DRINKING FOUNTAIN, SPOUT ON LOW UNIT TO BE AT 36" A.F.F. SEE PLUMBING DRAWINGS.
29. RECESSED HOSE BOX BY PLUMBING CONTRACTOR.
30. "DO NOT CROSS" ZONE PAINTED ON FLOOR, 36" FROM GLAZING TYP.
31. EVIDENCE LOCKERS, SEE SPECS.
32. ROOM ID SIGN, SEE DIV. 10 SPEC
33. PROVIDE TEAR GAS PORT. SEE DETAIL F12/A502
34. RECESSED HOSE BOX BY PLUMBING CONTRACTOR.
35. STAFF LOCKERS, SINGLE TIER 12" W. X 18" D.
36. PL. LAM. SHELVING, 16" DEEP ON ADJUST. H.D. SHELF BRACKETS W/ STANDARDS @ 36" O.C. MAX.
37. FIRE EXTINGUISHER AND CABINET (FEC) UL RATING K, 10 LB. CAPACITY EXTINGUISHER, SEE SPECS.
38. EYE WASH STATION, SEE PLUMBING DWGS.

GENERAL NOTES

1. ALL MASONRY DIMENSIONS ARE TO FACE OF BRICK OR BLOCK UNLESS NOTED. ALL MASONRY DIMENSIONS ARE NOMINAL AT BRICK FACES.
2. ALL PARTITION DIMENSIONS ARE FACE OF STUD TO FACE OF STUD UNLESS NOTED. DIMENSIONS NOTED CLEAR (CLR) ARE CRITICAL DIMENSIONS FROM FINISHED FACE OF PARTITION TO CENTERLINES OF FIXTURES OR FINISHED FACE OF PARTITION.
3. SEE SITE DRAWINGS FOR EXTERIOR CONCRETE WALKS.
4. COORDINATE ALL CONTROL JOINTS WITH EXTERIOR ELEVATIONS.
5. SEE STAIR DETAILS ON SHEETS A300-A302.
6. SEE SHEETS A103, A104, A105, A106, A107, & A108 FOR CODED NOTES, INTERIOR DIMENSIONS, SPECIALTIES, ETC.
7. x
8. ALL SHOWER ROOMS AND DRYING AREAS TO HAVE POSITIVE SLOPE TO DRAINS. TOP/DRAINS TO BE AT 1" (99'-11") BELOW TYPICAL FINISH FLOOR ELEVATION (100'-0").
9. CHECK FINISH SCHEDULES FOR LOCATION OF ALL GYPSUM BOARD WALLS.
10. ALL EXPOSED BEAMS THAT CARRY FLEXICORE IN HOUSING UNITS CAN ONLY BE PRE-PLATED ON ONE SIDE , TO ALLOW FOR INSTALLATION OF SPRINKLER SYSTEM. COORDINATE WITH SPRINKLER CONTRACTOR.
11. FLOOR SLABS IN OUTDOOR RECREATION AREA SHALL SLOPE TO FLOOR DRAINS A MINIMUM OF 3/16" PER FOOT. SLABS TO BE FLUSH AT ALL DOOR OPENINGS INTO OUTDOOR RECREATION AREA.
12. ALL STEEL BEAMS EXPOSED IN SECURITY AREAS SHALL HAVE 3/16" STEEL PLATE SIDE CLOSURES CONTINUOUS. WELDING AND FILLER AT ALL JOINTS TO BE THE SAME AS SPECIFIED FOR STEEL PLATE SOFFITS.
13. PROVIDE AND INSTALL SECURITY BARRIERS IN ALL DUCT PENETRATIONS AND OPENINGS THROUGH ALL FLOORS, WALLS, AND ROOF ENCLOSING AND WITHIN SECURITY PERIMETER WHERE LEAST DIMENSION OF OPENING EXCEEDS 5". VERIFY SIZE AND LOCATION OF ALL DUCT PENETRATIONS WITH HVAC DRAWINGS AND HVAC CONTRACTOR. VERIFY ALL OTHER OPENINGS REQUIRED WITH OTHER TRADES. SEE DETAILS A1 AND F1 SHEET A501.
14. IDENTIFICATION SYMBOLS FOR STANDARD AND SECURITY HOLLOW METAL WINDOW AND DOOR FRAMES ARE SHOWN ON THE LOOSE GLAZING STOP SIDE.
15. FOR CONTROL COUNTER DETAILS SEE INTERIOR ELEVS. AND ELECTRICAL DWGS. COORDINATE WITH DECS CONTRACTOR. MODIFY AS REQUIRED WITH DECS EQUIPMENT REQUIREMENTS.
16. GLAZING IN ALL WINDOWS AROUND CENTRAL CONTROL B157 SHALL HAVE MIRRORED FILM LAMINATED TO THE EXTERIOR WITH CORRIDOR SIDE REFLECTIVE AND ANTI-REFLECTIVE FILM LAMINATED TO THE INTERIOR SIDE. (TYP)
17. DAYROOM STAIRS ARE TO RECEIVE COLORED CONCRETE SEALER.

STANDARD TOILET - BATH ACCESSORIES

- A SOAP DISPENSER BOBRICK B-155
- B TOILET PAPER HOLDER BOBRICK B-2140
- C HANDICAP TOILET GRAB BAR, 42" BOBRICK B-6806x42
- D HANDICAP TOILET GRAB BAR, 36" BOBRICK B-6806x36
- E HOOK STRIP BOBRICK B-232 x 24
- F DOUBLE ROBE HOOK BOBRICK B-672
- G MIRROR, 18" X 36" BOBRICK B-290 1836
- H HANDICAP TOILET GRAB BAR, 18" BOBRICK B-6806x18
- I JANITOR SHELF/MOP RACK BOBRICK B-224x36
- J SURFACE MOUNT PAPER TOWEL DISPENSER AND WASTE RECEPT BOBRICK RB-3649
- K TOWEL BAR BOBRICK B-673 x 18
- L PAPER TOWEL DISPENSER BOBRICK B-2620
- M NAPKIN DISPOSAL BOBRICK B-270
- N TOWEL SHELF BOBRICK B-676
- O MIRROR W/ SHELF, 18" X 36" BOBRICK B-292 1836
- P DIAPER CHANGE STATION KOALA CARE KB200
- PG CHILD SAFETY SEAT KOALA CARE KB-102

SECURITY TOILET - BATH ACCESSORIES

- 5A SECURITY 18" GRAB BAR (VERTICAL)
- 5B SECURITY 24" GRAB BAR
- 5C SECURITY 36" GRAB BAR
- 5D SECURITY 42" GRAB BAR
- 5E SECURITY ROBE HOOK
- 5F SECURITY SHELF / ROBE HOOK
- 5G SECURITY MIRROR
- 5H SECURITY TOILET PAPER HOLDER

NO.	REVISIONS	DATE

SEAL

STATE OF OHIO
GARRY McANALLY
6321
REGISTERED ARCHITECT

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SHEET TITLE
ENLARGED FIRST FLOOR PLANS

DRAWN RAS
PROJECT NO. 1339
DATE 5/1/2015
DRAWING NO. A112

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A1 ENLARGED FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"

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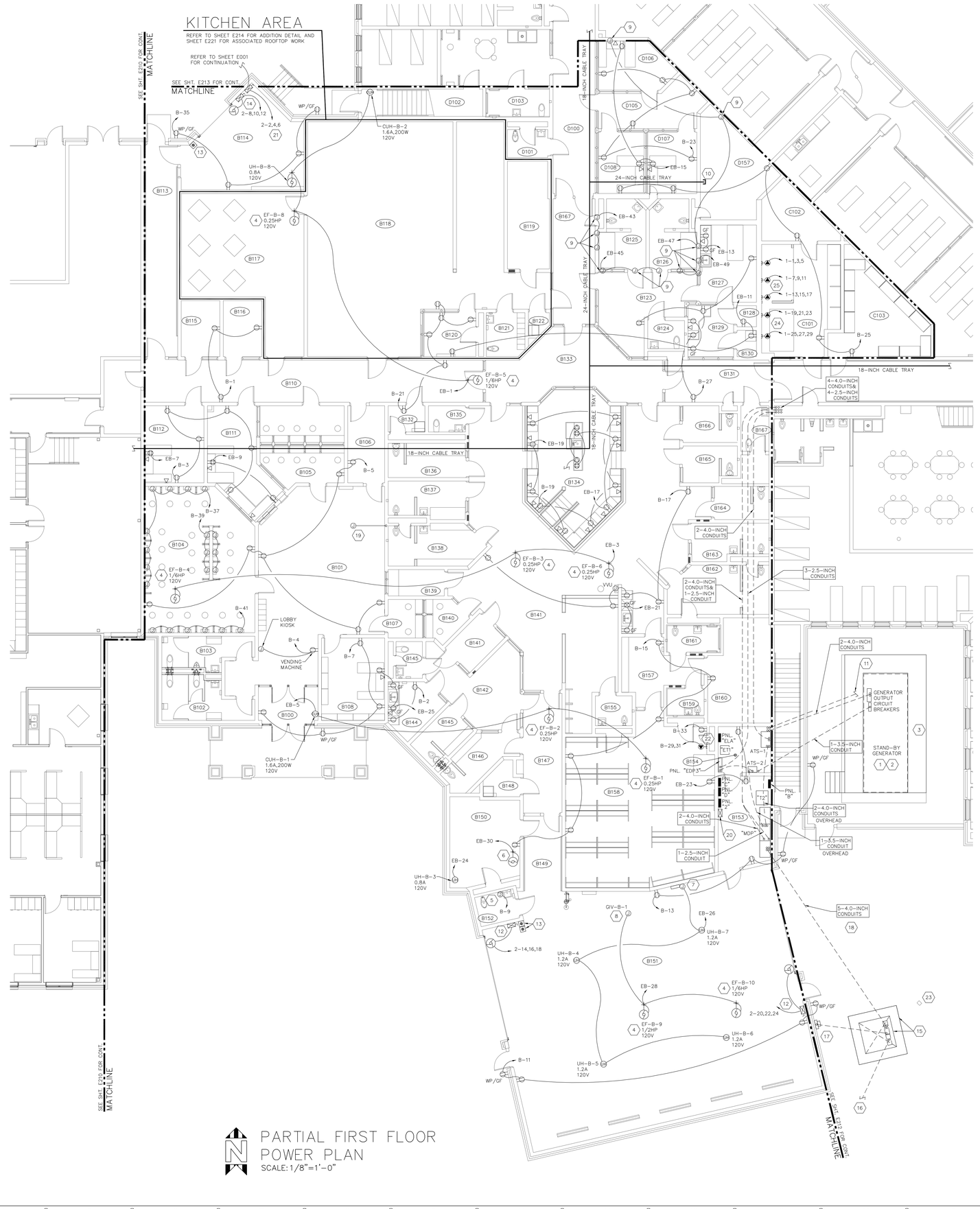

PARTIAL FIRST FLOOR POWER PLAN
SCALE: 1/8"=1'-0"

CODED NOTES ⬡

1. STAND-BY DIESEL GENERATOR (600KW, FOR 480Y/277V-3PH-4W SYSTEM), WITH SUB-BASE FUEL TANK, DROP OVER WEATHERPROOF SOUND ATTENUATED HOUSING. REFER TO SHEET E501 AND THE SPECIFICATIONS FOR ADDITIONAL NOTATION/REQUIREMENTS.
2. PROVIDE THE GENERATOR WITH A 12-INCH THICK REINFORCED CONCRETE PAD, WITH #4 REBAR SPACED 12-INCHES ON CENTER GOING BOTH WAYS. THE NORTH-SOUTH DIMENSIONS OF THE CONCRETE PAD SHOULD BE 6-INCHES GREATER THAN THE NORTH-SOUTH DIMENSIONS OF THE GENERATOR PROVIDED. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A SCALED DRAWING OF THE GENERATOR PAD, WITH THE GENERATOR SHOP DRAWING SUBMITTAL, FOR REVIEW AND APPROVAL.
3. PROVIDE THE GENERATOR WITH A 42-INCH WIDE STEEL SERVICE WALKWAY, WITH OUTSIDE HAND RAILS AT 42-INCHES ABOVE THE WALKWAY, WITH THE WALKWAY AT THE SAME LEVEL OF THE BASE OF THE GENERATOR, PROVIDED ON THREE SIDES OF THE GENERATOR AS INDICATED, AND WITH A 48-INCH WIDE ACCESS STAIRS (WITH HAND RAILS SIMILAR TO THE WALKWAY) AS INDICATED.
4. EXHAUST FAN ("EF") CONNECTION. EXTEND 120V CIRCUITRY INDICATED TO THE FAN DISCONNECT PROVIDED BY THE ELECTRICAL CONTRACTOR, WIRE THROUGH THE DISCONNECT TO THE FAN, AND MAKE THE FINAL POWER CONNECTIONS.
5. AIR DRYER ("HAND") CONNECTION. EXTEND DEDICATED 30A, 120V CIRCUITRY INDICATED TO A FLUSH MOUNTED TWO-GANG BOX (AT A HEIGHT COORDINATED WITH THE ARCHITECTURAL ELEVATIONS), FOR THE DRYER PROVIDED BY THE GENERAL CONTRACTOR, WIRE TO THE DRYER, AND MAKE THE FINAL POWER CONNECTIONS.
6. AIR COMPRESSOR CONNECTION. EXTEND DEDICATED 20A, 120V CIRCUITRY INDICATED TO A TWO-GANG BOX (HEIGHT COORDINATED WITH THE FIRE PROTECTION CONTRACTOR), FOR THE COMPRESSOR, PROVIDE A MANUAL DISCONNECT SWITCH AND WIRE THRU THE SWITCH TO THE COMPRESSOR, AND MAKE THE FINAL POWER CONNECTIONS.
7. PROVIDE 120V CIRCUITRY TO THE "CO DETECTION PANEL" PROVIDED BY THE HVAC CONTRACTOR, AS INDICATED ON THE DRAWING. COORDINATE THE CONNECTION POINT TO THE PANEL WITH THE HVAC CONTRACTOR, PRIOR TO ROUGH-IN.
8. MOTORIZED DAMPER, AT "GIV-B-1", PROVIDED BY THE HVAC CONTRACTOR. COORDINATE AND PROVIDE INTERLOCKING WIRING FROM THE AUXILIARY CONTACTS OF THE EXHAUST FAN EF-B-9 STARTER TO THE DAMPER, WIRED SO THAT THE DAMPER OPENS WHEN EXHAUST FAN EF-B-9 IS ENERGIZED.
9. PROVIDE 120V POWER CONNECTION TO THE HVAC FIRE ALARM SMOKE DAMPER. COORDINATE FINAL LOCATION OF THE DAMPER WITH THE HVAC CONTRACTOR PRIOR TO ROUGH-IN.
10. COORDINATE END OF THE CABLE TRAY WITH THE FINAL LOCATION OF THE FLOOR SLEEVES TO THE DEOS ROOM ABOVE, PRIOR TO ROUGH-IN. REFER TO SHEET E322 FOR ADDITIONAL NOTATION.
11. PROVIDE THREE (3) 1.0-INCH CONDUITS FROM THE EMERGENCY ELECTRICAL ROOM, UNDERGROUND TO THE GENERATOR, FOR; CONTROL, MONITORING AND POWER (FOR THE CHARGER, HEATER, ETC.). THE ELECTRICAL CONTRACTOR SHALL PROVIDE A TEMPLATE DRAWING OF THE GENERATOR AND SUB-BASE FUEL TANK, AS PART OF THE GENERATOR SUBMITTAL - TO COORDINATE THE RISER POINTS OF THESE AND THE POWER CONDUITS, SO ALL CONDUIT LOCATIONS CAN BE LOCATED PRIOR TO THE START OF THE WORK.
12. OVERHEAD DOOR DRIVE/OPERATOR. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A NEMA 0 COMBINATION STARTER, FOR THE 1.0HP, 208V, 3PHASE DOOR DRIVE/OPERATOR, WITH AN UP-STOP-DOWN CONTROL STATION WHERE INDICATED. PROVIDE A 20A FEEDER (4 #12 AND 1 #12 GRD, IN 0.75-INCH CONDUIT) FROM THE PANEL, THRU THE STARTER, TO THE DRIVE/OPERATOR.
13. UP-STOP-DOWN CONTROL STATION, FOR BOTH THE WEST AND THE EAST SALLYPORT OVERHEAD DOORS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONTROL STATIONS FOR BOTH DOORS, AT 42-INCHES AFF, WITH 0.75-INCH CONDUIT TO THE DOOR STARTERS. CONTROL WIRING BETWEEN THE CONTROL STATION AND THE DOOR STARTERS SHALL BE PROVIDED BY THE DOOR INSTALLERS.
14. OVERHEAD DOOR DRIVE/OPERATOR. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A NEMA 0 COMBINATION STARTER, FOR THE 0.75HP, 208V, 3PHASE DOOR DRIVE/OPERATOR, WITH AN UP-STOP-DOWN CONTROL STATION WHERE INDICATED. PROVIDE A 20A FEEDER (4 #12 AND 1 #12 GRD, IN 0.75-INCH CONDUIT) FROM THE PANEL, THRU THE STARTER, TO THE DRIVE/OPERATOR.
15. UTILITY (NORMAL) SERVICE POWER COMPANY TRANSFORMER. PROVIDE A CONCRETE VAULT, PER THE DETAILS ON SHEET E500, FOR THE INSTALLATION OF THE SERVICE TRANSFORMER. COORDINATE ALL SERVICE WORK WITH THE POWER COMPANY. REFER TO SHEET E001 FOR ADDITIONAL DETAIL.
16. INCOMING PRIMARY SERVICE - CONDUITS PROVIDED BY THE ELECTRICAL CONTRACTOR, AND PRIMARY CONDUCTORS PROVIDED BY THE POWER COMPANY. REFER TO THE DETAILS ON SHEET E500. COORDINATE ALL SERVICE WORK WITH THE POWER COMPANY. REFER TO SHEET E001 FOR CONTINUATION.
17. METER BASE AND METERING CONDUIT PROVIDED BY THE ELECTRICAL CONTRACTOR, IN ACCORDANCE AND IN COORDINATION WITH THE POWER COMPANY. COORDINATE ALL SERVICE WORK WITH THE POWER COMPANY.
18. INCOMING SECONDARY SERVICE - CONDUITS AND CONDUCTORS PROVIDED BY THE ELECTRICAL CONTRACTOR, AND COORDINATE THE TERMINATIONS AT THE TRANSFORMER WITH THE POWER COMPANY. COORDINATE ALL SERVICE WORK WITH THE POWER COMPANY.
19. FLOOR BOX. PROVIDE A FLUSH WITH FINISHED FLOOR, CAST ALUMINUM FLOOR BOX, WITH CAST BRASS COVER, AND 1.0-INCH CONDUIT TO THE WALL, THEN UP INSIDE THE WALL, STUBBED OUT 6-INCHES ABOVE THE CEILING. VERIFY DIMENSIONAL LOCATION WITH THE GENERAL TRADES CONTRACTOR, PRIOR TO ROUGH-IN.
20. PROVIDE TWO (2) 30A, MULTI-POLE (12-POLE) LIGHTING CONTACTORS, IN A NEMA 1 ENCLOSURE, WITH A 24- HOUR TIMER, AND HOA AND GREEN PILOT LIGHT IN THE COVER, STACKED. EXTERIOR LIGHTING CIRCUITS TO PANEL "Z" SHALL BE ROUTED THRU THESE CONTACTORS.
21. ALTERNATE G-13, GRINDER SG-1. ALL ELECTRICAL WORK ASSOCIATED WITH THE PROVISION OF SG-1 SHALL BE INCLUDED ONLY AS PART OF ALTERNATE G-13. PROVIDE A NEMA SIZE 0 COMBINATION STARTER, IN A TYPE 1 ENCLOSURE FOR THE SG-1, PROVIDE A 30A-3P (WET LOCATION) DISCONNECT FUSED AT 10A, AT SG-1, AND PROVIDE A FEEDER, (3 #12, AND 1 #12 GRD, IN 0.75-INCH CONDUIT) FROM THE PANEL, THRU THE STARTER, THRU THE DISCONNECT, TO SG-1.
22. WASHER AND DRYER OUTLETS. INSTALL THE WASHER AND DRYER OUTLETS AT 42-INCHES AFF, COORDINATING THE LOCATIONS TO AVOID CONFLICTS WITH THE WASHER WATER SUPPLIES AND DRAIN LOCATIONS.
23. POST FOR VEHICLE INTERCOM STATION. REFER TO SHEET E311 FOR ADDITIONAL NOTATION.
24. LAUNDRY WASHER OUTLET, MOUNTED AT 42-INCHES AFF (TYPICAL OF TWO). VERIFY OUTLET CONFIGURATION, WITH THE ACTUAL WASHER BEING PROVIDED, PRIOR TO THE ORDERING OF THE MATERIALS.
25. LAUNDRY DRYER OUTLET, MOUNTED AT 42-INCHES AFF (TYPICAL OF THREE). VERIFY OUTLET CONFIGURATION, WITH THE ACTUAL DRYER BEING PROVIDED, PRIOR TO THE ORDERING OF THE MATERIALS.

GEN. NOTES

A. THE SCOPE OF THE WORK FOR THIS PROJECT IS TO PROVIDE THE ELECTRICAL WORK INDICATED IN THE CONTRACT DOCUMENTS, INCLUDING BOTH DRAWINGS AND SPECIFICATIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK INDICATED ON THE ELECTRICAL ("E" SHEETS) DRAWINGS AS WELL AS OTHER ELECTRICAL CONTRACTOR RESPONSIBILITIES THAT ARE INDICATED OR REFERENCED ON - OTHER PROJECT DRAWINGS OR THE SPECIFICATIONS.

B. THE ELECTRICAL PLANS ARE DIAGRAMMATIC ONLY. REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT DIMENSIONS OF THE BUILDING.

C. MINUMUM CONDUIT SIZE USED SHALL BE 0.75-INCH. WIRE SHALL BE COPPER, AND THE MINIMUM WIRE SIZE USED SHALL BE # 12 AWG. ALL CONDUITS AND ALL CIRCUITS SHALL BE PROVIDED WITH AN INSULATED GREEN GROUNDING CONDUCTOR.

D. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL NECESSARY FIRE STOPPING REQUIRED FOR ELECTRICAL CONDUIT/ELECTRICAL INSTALLATION, ON THIS PROJECT.

E. WHERE ELECTRICAL PENETRATIONS ARE REQUIRED, THEY SHALL BE CORE DRILLED BY THE GENERAL CONTRACTOR, AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR. VERIFY LOCATIONS PRIOR TO THE START OF THE WORK.

F. ALL LOCATIONS INDICATED WITH AN OPEN TRIANGLE REPRESENT AN "IT" OUTLET, WITH A FLUSH J-BOX AND A 0.75-INCH CONDUIT FROM THE BOX UP INSIDE THE WALL, STUBBED OUT 6-INCHES ABOVE THE NEAREST ACCESSIBLE CEILING. THEY SHALL BE PROVIDED WITH A FOUR "JACK" ARRAY OUTLET, WITH 2 - RJ45 JACKS AND 2 - BLANKS, AND WITH CAT6 CABLE, FROM THE TWO RJ45 JACKS, EXTENDED FROM THE OUTLET, UP AND OVERHEAD (THRU CABLE TRAY) TO THE RACKS OR PUNCH DOWN BLOCKS IN ROOM A180.

NO.	REVISIONS	DATE
1	.	.

SEAL

STATE OF OHIO
GREGORY L. RILEY E-58930
REGISTERED PROFESSIONAL ENGINEER
05/01/15

PROJECT
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SHEET TITLE
FIRST FLOOR POWER PLAN

DRAWN TEL
PROJECT NO. 1339
DATE 05/01/2015
DRAWING NO. E211

E211-13208.DWG

PRATER
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6130 Wilcox Road
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DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
TEL	TEL	DLP	13208

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B161

B160

B159

B-33

22

9,31

PNL. "ELA"

"ET1"

ATS-1

ATS-2

B154

PNL. "EDP3"

EB-23

PNL. "C"

PNL. "D"

PNL. "2"

B153

20

"MDP"

2-4.0-INCH CONDUITS

1-2.5-INCH CONDUIT

2-4.0-INCH CONDUITS

11

GENERATOR OUTPUT CIRCUIT BREAKERS

3

1-3.5-INCH CONDUIT

STAND-BY GENERATOR

1 2

WP/GF

PNL. "B"

"T2"

2-4.0-INCH CONDUITS OVERHEAD

1-3.5-INCH CONDUIT OVERHEAD

WP/GF

Appendix E

Emergency Generator Fuel Storage
Pollution Prevention Plan

Emergency Generator Fuel Storage Pollution Prevention Plan
Fairfield County Public Safety and Jail Facility
345 Lincoln Avenue
Lancaster, Ohio 43130

1.0 Introduction

As part of the operation of any public safety facility, a back-up generator is paramount for security. Part of the design of a back-up generator is the presence of an on-site fuel tank capable of operating the generator for a specified period of time. The United States Environmental Protection (USEPA) recognizes that management of above ground storage tanks in order to prevent contamination of drinking water within source water protection areas is desirable (USEPA, August 2010). Recommendations made by USEPA (2010) include the following:

- requiring secondary containment that will hold 110 percent of the contents of the tank;
- requiring that the secondary containment be impermeable to the materials being stored;
- if applicable, collecting rainwater in the secondary containment area;
- requiring corrosion protection for the tank;
- adopting standard tank filling practices to prevent spills and overfills; and
- routinely monitoring/inspecting tanks to ensure they are not leaking.

The following provisions are to be implemented in order to manage the presence and operation of the back-up generator that is located within the one-year time-of-travel for the Lancaster Miller Park Wellfield Source Water Protection Area.

2.0 Pollution Prevention By Design and Installation

The plans and specifications for the Fairfield County Public Safety and Jail Facility include the following design and installation elements to address pollution prevention within the source water protection area. References to specification sections and plan sheets are provided for reference.

1) The generator will be *"free-standing with drop-over weatherproof housing and sub-base fuel tank…a third party sub-base fuel tank such as COM-FAB, or an approved equal shall be provided"* (Section 26 32 13-11 Engine Generators, Section 2.4C of the Specifications);

2) The generator will be located in a brick-walled open-air building with a locked door to prevent unauthorized access and protect the tank from physical damage (Plan Sheets E211, A103 and A112);

3) The generator will *"comply with NFPA 30"* (Section 26 32 13-11 Engine Generators, Section 2.4A of the Specifications). Among the provisions of NPFA 30 that recognize secondary containment as a form of spill control are:

   - Provision of means to prevent the release of liquid from the tank by siphon flow;
   - Provision of means for determining the level of liquid in the tank that is accessible to the delivery operator;
   - Prevention of overfilling by sounding an alarm when the liquid level in the tank reaches 90% of capacity and by automatically stopping the delivery of liquid to the tank when liquid level reaches 95% of capacity; and
   - Provision of damage resistance for tanks from impact of a motor vehicle.

4) The generator will also comply with NFPA 110 for a Level 1 system (for diesel fuel) and will include a *"fuel tank, derangement alarm"*, a *"fuel tank, high-level shut-down of fuel supply alarm"*, and *"fuel tank, fuel leak alarm"* (Section 26 32 13-12 Engine Generators, Section 2.5F(10), (11), and (12) of the Specifications) that are designed to prevent overfilling and spills during filling;

5) The generator will have a sub-base mounted fuel tank that complies with UL 142 and has an *"electric fuel level indicator, capable of being monitored"* (Section 26 32 13-11 Engine Generators, Section 2.4D(1) of the Specifications);

6) The generator will have a sub-base mounted fuel tank that complies with UL 142 with *"dual wall construction"* (Section 26 32 13-11 Engine Generators, Section 2.4D(2) of the Specifications);

7) The generator will have a sub-base mounted fuel tank that complies with UL 142 with a *"leak detection alarm system"* (Section 26 32 13-11 Engine Generators, Section 2.4D(3) of the Specifications);

8) The generator will have a sub-base mounted fuel tank that complies with UL 142 with a *"spill / fill alarm"* for *"overfill protection"* (Section 26 32 13-11 Engine Generators, Section 2.4D(6) of the Specifications);

9) The sub-base fuel tank will be made of steel (COM-FAB or approved equal) and will be impermeable to the materials being stored (COM-FAB Double Wall Tank Specifications, accessed 6/9/15);

10) The sub-base fuel tank will not only be double walled to prevent fuel leakage from the inner tank, but will also be *"sealed to prevent the entrance of rain and debris"* (COM-FAB Double Wall Tank Specifications, accessed 6/9/15);

11) The generator will have a sub-base mounted fuel tank that complies with UL 142 and has containment of *"not less than 110% of the primary tank capacity"* (Section 26 32 13-11 Engine Generators, Section 2.4D(9) of the Specifications); and

12) The generator will have a sub-base mounted fuel tank that complies with UL 142 and has *"inner tank surfaces coated with solvent based thin-film rust preventative"* to prevent corrosion (Section 26 32 13-11 Engine Generators, Section 2.4D(2) of the Specifications).

3.0 Pollution Prevention by Operation and Maintenance

3.1 The following practices will be observed when filling the sub-base tank:

1) The operator of the filling truck shall remain at the site the entire time the sub-base tank is being filled;

2) In accordance with NFPA 30, *"when transferring Class 1 liquids, engines of tank vehicles or motors of auxillary or portable pumps shall be shut down during making and breaking hose connections. If loading or unloading is done without requiring the use of the motor of the tank vehicle, the motor shall be shut down throughout any transfer operations involving Class 1 liquids"*;

3) Smoking is prohibited during filling operations;

4) If the overfill alarm and protection on the tank fails and there is a spill, spills will be reported immediately to the Sheriff's Office and to other appropriate agencies, depending on the size of the spill; and

5) All spills will be contained quickly to prevent runoff to surface waters.

3.2 The following maintenance practices will be performed relative to the sub-base fuel tank:

1) An annual inspection will be made of the sub-base tank to ensure it is in good condition;

2) Inspection items shall include, but not be limited to: tank foundation, connections, alarms, and physical inspection of the visible tank walls;

3) All deficiencies noted that could cause a leak that would endanger the adjacent water supply shall be remedied within 24 hours. Other deficiencies should be addressed as soon as is practical.

4.0 References

US EPA, August 2010. Managing Above Ground Storage Tanks to Prevent Contamination of Drinking Water, Source Water Protection Bulletin, Office of Water, 6 pp.

Appendix F

Specifications for Emergency Generator

SECTION 26 32 13
ENGINE GENERATORS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

B. Refer to 1.4 and 1.14 below for; additional verbiage regarding; **Owner (Fairfield County)**, Manufacturer, and Contractor responsibilities.

1.2 SUMMARY

A. This Section includes packaged engine-generator sets for emergency standby power supply with the following features:

1. Diesel engine.
2. Unit-mounted cooling system.
3. Remote-mounting control and monitoring.
4. Performance requirements for sensitive loads.
5. Multiple output circuit breakers.
6. Charger.
7. Load banks.
8. Drop-Over, outdoor sound attenuated enclosure.
9. Sub-Base Fuel Tank
10. Maintenance Walkway.

B. Related Sections include the following:

1. Division 26, Section 26 36 00 "Transfer Switches", for transfer switches including sensors and relays to initiate automatic-starting and - stopping signals for engine-generator sets. Transfer switches provided should be of the same manufacturer and compatible with the generator or gen-set provided.

1.3 DEFINITIONS

A. Operational Bandwidth: The total variation from the lowest to highest value of a parameter over the range of conditions indicated, expressed as a percentage of the nominal value of the parameter.

1.4 ACTION SUBMITTALS

A. The Contractor shall provide the Manufacturer's Product Data: For each type of packaged engine generator indicated. Include rated capacities, operating

characteristics, and furnished specialties and accessories. In addition, include the following:

1. Thermal damage curve for generator.
2. Time-current characteristic curves for generator protective device.

B. The Contractor shall provide the Manufacturer's Shop Drawings, marked or highlighted to indicate specific generator and accessories being provided, including: detailed equipment assemblies and indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.

1. Dimensioned outline plan and elevation drawings of engine-generator set and other components specified (including; Sub-Base Fuel Tank, Drop-Over Weather-proof Sound Attenuated Housing, and Maintenance Walkway.
2. Design Calculations (for the concrete base/pad): Signed and sealed by a qualified professional engineer. Calculate requirements for selecting vibration isolators and seismic restraints and for designing vibration isolation bases.
3. Vibration Isolation Base Details: Signed and sealed by a qualified professional engineer. Detail fabrication, including anchorages and attachments to structure and to supported equipment. Include base weights.
4. Wiring Diagrams: Power, signal, and control wiring.
5. Reinforced Concrete Base (Pad): Scaled drawing showing the pad size (to match the gen-set and sub-base fuel tank provided), and a cross section showing the reinforcing to be provided. Refer to "2" above, and 1.10 below.
6. Design Calculations (for the maintenance walkway): Signed and sealed by a qualified professional engineer. Calculate requirements for the; steel decking, decking supports, stairs, and hand rails.

1.5 INFORMATIONAL SUBMITTALS

A. Manufacturer Seismic Qualification Certification: Submit certification that day tank, engine-generator set, batteries, battery racks, accessories, and components will withstand seismic forces defined in Division 26 Section "Vibration and Seismic Controls for Electrical Systems." Include the following:

1. Basis for Certification: Indicate whether withstand certification is based on actual test of assembled components or on calculation.

   a. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified."
   b. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified and the unit will be fully operational after the seismic event."

2. Dimensioned Outline Drawings of Equipment Unit: Identify center of gravity and locate and describe mounting and anchorage provisions.

3. Detailed description of equipment anchorage devices on which the certification is based and their installation requirements.

B. Qualification Data: Provide information on qualifications for the; installer, manufacturer and testing agency. This shall be included with the “submittal”.

C. Source quality-control test reports.

1. Certified summary of prototype-unit test report.
2. Certified Test Reports: For components and accessories that are equivalent, but not identical, to those tested on prototype unit.
3. Certified Summary of Performance Tests: Certify compliance with specified requirement to meet performance criteria for sensitive loads.
4. Report of factory test on units to be shipped for this Project, showing evidence of compliance with specified requirements.
5. Report of sound generation.
6. Report of exhaust emissions showing compliance with applicable regulations.
7. Certified Torsional Vibration Compatibility: Comply with NFPA 110.

D. Field quality-control test reports.

E. Warranty: Special warranty specified in this Section.

1.6 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For packaged engine generators to include in emergency, operation, and maintenance manuals. In addition to items specified in Division 01 Section "Operation and Maintenance Data," include the following:

1. List of tools and replacement items recommended to be stored at Project for ready access. Include part and drawing numbers, current unit prices, and source of supply.

1.7 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Fuses: One for every 10 of each type and rating, but no fewer than one of each.
2. Indicator Lamps: Two for every six of each type used, but no fewer than two of each.
3. Filters: One set each of lubricating oil, fuel, and combustion-air filters.

1.8 QUALITY ASSURANCE

A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of units required for this Project.

1. Maintenance Proximity: Not more than four hours' normal travel time from Installer's place of business to Project site.
2. Engineering Responsibility: Preparation of data for vibration isolators and seismic restraints of engine skid mounts, including Shop Drawings, based on testing and

engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this Project.

B. Manufacturer Qualifications: A qualified manufacturer. Maintain, within 200 miles of Project site, a service center capable of providing training, parts, and emergency maintenance repairs.

C. Testing Agency Qualifications: An independent agency, with the experience and capability to conduct the testing indicated, that is a member company of the InterNational Electrical Testing Association or is a nationally recognized testing laboratory (NRTL), and that is acceptable to authorities having jurisdiction.

1. Testing Agency's Field Supervisor: Person currently certified by the InterNational Electrical Testing Association or the National Institute for Certification in Engineering Technologies to supervise on-site testing specified in Part 3.

D. Source Limitations: Obtain packaged generator sets and auxiliary components through one source from a single manufacturer.

E. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

F. Comply with ASME B15.1.

G. Comply with NFPA 37.

H. Comply with NFPA 70.

I. Comply with NFPA 99.

J. Comply with NFPA 110 requirements for Level 1 emergency power supply system.

K. Comply with UL 2200.

L. Engine Exhaust Emissions: Comply with applicable state and local government requirements.

M. Noise Emission: Comply with applicable state and local government requirements for maximum noise level at adjacent buildings or property boundaries due to sound emitted by generator set including engine, engine exhaust, engine cooling-air intake and discharge, and other components of installation.

1.9 PROJECT CONDITIONS

A. Interruption of Existing Electrical Service: Do not interrupt electrical service to facilities occupied by **Owner (Fairfield County)** or others unless permitted under the following conditions and then only after arranging to provide temporary electrical service according to requirements indicated:

1. Notify Architect and Owner, in writing, no fewer than two business days in advance of proposed interruption of electrical service.

2. Do not proceed with interruption of electrical service without Architect's or **Owner's (Fairfield County's)** written permission.

B. Environmental Conditions: Engine-generator system shall withstand the following environmental conditions without mechanical or electrical damage or degradation of performance capability:

1. Ambient Temperature: 5 to 40 deg C.
2. Relative Humidity: 0 to 95 percent.
3. Altitude: Sea level to 1000 feet.

1.10 COORDINATION

A. Coordinate size and location of concrete base for package engine generator(s) and sub-base fuel tank provided. Coordinate the cast anchor-bolt inserts and where they fit into bases. Coordinate the concrete, depth, reinforcement, and formwork requirements are specified in Division 03.

B. Verify the concrete base requirements using the dimensions of the gen-set and sub-base fuel tank from the approved shop drawings for the same.

C. Assure the maintenance walkway, is supported by the concrete base, without the need for support connected to; the sub-base fuel tank, the generator, or the weather proof housing.

1.11 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of packaged engine generators and associated auxiliary components that fail in materials or workmanship within specified warranty period.

1. Warranty Period: 2 years from date of Substantial Completion.

1.12 MAINTENANCE SERVICE

A. Initial Maintenance Service: Beginning at Substantial Completion, provide **12** months' full maintenance by skilled employees of manufacturer's designated service organization. Include quarterly exercising to check for proper starting, load transfer, and running under load. Include routine preventive maintenance as recommended by manufacturer and adjusting as required for proper operation. Provide parts and supplies same as those used in the manufacture and installation of original equipment.

1.13 GENERATOR MONITORING

A. Seventeen (17) points of monitoring and/or control shall be provided by the BAS for the generator for monitoring and/or control. Points to be monitored / controlled are as indicated in "B" below.

B. The points that the BAS shall monitor and/or control are:

1. Generator Status
2. High Coolant Temperature
3. Low Coolant Temperature
4. Low Oil Pressure
5. Overspeed
6. Overcrank
7. Emergency Stop
8. Fault Shutdown
9. Fault Alarm
10. Generator Start/Stop
11. Run Time
12. Low Fuel (for the Sub-Base Fuel Tank)
13. Fuel Level (for the Sub-Base Fuel Tank)
14. Fuel Leak Detection (for the Sub-Base Fuel Tank)
15. KW
16. Amps
17. Volts

C. The electrical contractor shall assure that the generator is provided with the optional 4-20ma fuel level indicator, for the BAS system contractor/installer to wire – so the fuel level ("B13" above), can be scaled and determined by the BAS system.

D. The electrical contractor shall provide the generator controls with the network card(s) required to be able to facilitate communication thru a modbus / gateway communication for the seventeen (17) points listed in "B" above. Generator is to be provided with a modbus protocol.

1.14 STATE TERM PRICING

A. The **Owner (Fairfield County)** will purchase, and furnish the Engine Generator (or Gen-Set) through the Ohio, State Term Pricing program. Transfer switches provided as a part of this emergency system will be obtained in the same manner.

B. Manufacturers: Subject to compatibility with the generator obtained by "state term" pricing, compliance with requirements, provide products by the following (no exceptions):

1. Generator or Gen-Set:
   a. Caterpillar; Engine Div.
   b. Cummins
   c. Kohler

C. The Contractor (responsible for the electrical portion of the work) shall:

1. Coordinate, arrange for the delivery of the Engine Generator, to the site.

2. Provide and pay for the unloading of the Engine Generator, at the site.

3. Protect and insure the Engine Generator, from the unloading, through the installation, set-up, and testing, to the time when the project is turned over to the **Owner (Fairfield County).**

4. Provide a reinforced concrete pad for the Engine Generator, as indicated on the drawings, and specified herein.

5. Set and install the; sub-base fuel tank, Engine Generator, drop-over weatherproof and sound attenuated housing; and all other Engine Generator components required for a complete and operating Engine Generator.

6. Provide and connect the Engine Generator to the electrical feeders indicated on the drawings.

7. Arrange for and provide the Manufacturer's Tech to be at the site for the Engine Generator set-up.

8. Arrange for and provide the Manufacturer's Tech to be at the site for the Engine Generator testing, including the load bank tests, and as specified herein.

9. Set and install the maintenance walkway (with access stairs), that goes around the Engine Generator (and drop-over housing) on three sides, as indicated on the drawings, that provides a 42-inch wide working platform, at the base of the Engine Generator height, above the sub-base fuel tank, for the Owner's use.

10. Provide test reports for all testing done to the Architect and Engineer, including a copy of the reports in the O&M manuals provided at the end of the project.

11. Provide all permits, including the State Fire Marshall's permit and requirements (associated with the State Fire Marshall's permit).

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

B. Manufacturers: Subject to compliance with requirements, provide products per the State of Ohio, State Term Schedule (STS):

C. Basis-of-Design Product: Refer to 1.13 above.

2.2 ENGINE-GENERATOR SET

A. Factory-assembled and - tested, engine-generator set.

B. Mounting Frame: Maintain alignment of mounted components without depending on concrete foundation; and have lifting attachments.

1. Rigging Diagram: Inscribed on metal plate permanently attached to mounting frame to indicate location and lifting capacity of each lifting attachment and generator-set center of gravity.

C. Capacities and Characteristics:

1. Power Output Ratings: Nominal ratings as indicated, **600KW, 750KVA.**
2. Output Connections: Three-phase, four-wire.
3. Output Circuit Breakers: 800A-3P, and 300A-3P.
4. Nameplates: For each major system component to identify manufacturer's name and address, and model and serial number of component.

D. Generator-Set Performance:

1. Steady-State Voltage Operational Bandwidth: 3 percent of rated output voltage from no load to full load.
2. Transient Voltage Performance: Not more than 20 percent variation for 50 percent step-load increase or decrease. Voltage shall recover and remain within the steady-state operating band within three seconds.
3. Steady-State Frequency Operational Bandwidth: 0.5 percent of rated frequency from no load to full load.
4. Steady-State Frequency Stability: When system is operating at any constant load within the rated load, there shall be no random speed variations outside the steady-state operational band and no hunting or surging of speed.
5. Transient Frequency Performance: Less than 5 percent variation for 50 percent step-load increase or decrease. Frequency shall recover and remain within the steady-state operating band within five seconds.
6. Output Waveform: At no load, harmonic content measured line to line or line to neutral shall not exceed 5 percent total and 3 percent for single harmonics. Telephone influence factor, determined according to NEMA MG 1, shall not exceed 50 percent.
7. Sustained Short-Circuit Current: For a 3-phase, bolted short circuit at system output terminals, system shall supply a minimum of 300 percent of rated full-load current for not less than 10 seconds and then clear the fault automatically, without damage to generator system components.
8. Start Time: Comply with NFPA 110, Type 10, system requirements.

E. Generator-Set Performance for Sensitive Loads:

1. Over-sizing generator compared with the rated power output of the engine is permissible to meet specified performance.

    a. Nameplate Data for Oversized Generator: Show ratings required by the Contract Documents rather than ratings that would normally be applied to generator size installed.

2. Steady-State Voltage Operational Bandwidth: 1 percent of rated output voltage from no load to full load.
3. Transient Voltage Performance: Not more than 10 percent variation for 50 percent step-load increase or decrease. Voltage shall recover and remain within the steady-state operating band within 0.5 second.
4. Steady-State Frequency Operational Bandwidth: Plus or minus 0.25 percent of rated frequency from no load to full load.

5. Steady-State Frequency Stability: When system is operating at any constant load within the rated load, there shall be no random speed variations outside the steady-state operational band and no hunting or surging of speed.
6. Transient Frequency Performance: Less than 2-Hz variation for 50 percent step-load increase or decrease. Frequency shall recover and remain within the steady-state operating band within three seconds.
7. Output Waveform: At no load, harmonic content measured line to neutral shall not exceed 2 percent total with no slot ripple. Telephone influence factor, determined according to NEMA MG 1, shall not exceed 50 percent.
8. Sustained Short-Circuit Current: For a 3-phase, bolted short circuit at system output terminals, system shall supply a minimum of 300 percent of rated full-load current for not less than 10 seconds and then clear the fault automatically, without damage to winding insulation or other generator system components.
9. Excitation System: Performance shall be unaffected by voltage distortion caused by nonlinear load.

    a. Provide permanent magnet excitation for power source to voltage regulator.

10. Start Time: Comply with NFPA 110, Type 10, system requirements.

2.3 ENGINE

A. Fuel: Fuel oil, Grade DF-2.

B. Rated Engine Speed: 1800 rpm.

C. Maximum Piston Speed for Four-Cycle Engines: 2250 fpm.

D. Lubrication System: The following items are mounted on engine or skid:

1. Filter and Strainer: Rated to remove 90 percent of particles 5 micrometers and smaller while passing full flow.
2. Thermostatic Control Valve: Control flow in system to maintain optimum oil temperature. Unit shall be capable of full flow and is designed to be fail-safe.
3. Crankcase Drain: Arranged for complete gravity drainage to an easily removable container with no disassembly and without use of pumps, siphons, special tools, or appliances.

E. Engine Fuel System:

1. Main Fuel Pump: Mounted on engine. Pump ensures adequate primary fuel flow under starting and load conditions.
2. Relief-Bypass Valve: Automatically regulates pressure in fuel line and returns excess fuel to source.
3. Diesel (only) System:

    a. Carburetor.
    b. Fuel-Shutoff Solenoid Valves.
    c. Flexible Fuel Connectors.

F. Coolant Jacket Heater: Electric-immersion type, factory installed in coolant jacket system. Comply with NFPA 110 requirements for Level 1 equipment for heater capacity.

G. Governor: Caterpillar, ADEM control system, or an approved equal.

H. Cooling System: Omitted.

I. Cooling System: Closed loop, liquid cooled, with standard unit mounted radiator and integral engine-driven coolant pump.

1. Configuration: Horizontal air discharge.
2. Radiator Core Tubes: Aluminum.
3. Size of Radiator: Adequate to contain expansion of total system coolant from cold start to 110 percent load condition.
4. Expansion Tank: Constructed of welded steel plate and rated to withstand maximum closed-loop coolant system pressure for engine used. Equip with gage glass and petcock.
5. Fan: Driven by multiple belts from engine shaft.
6. Coolant: Solution of 50 percent ethylene-glycol-based antifreeze and 50 percent water, with anticorrosion additives as recommended by engine manufacturer.
7. Temperature Control: Self-contained, thermostatic-control valve modulates coolant flow automatically to maintain optimum constant coolant temperature as recommended by engine manufacturer.

J. Muffler/Silencer: Critical type, sized as recommended by engine manufacturer and selected with exhaust piping system to not exceed engine manufacturer's engine backpressure requirements.

1. Minimum sound attenuation of 25 dB at 500 Hz.
2. Sound level measured at a distance of 10 feet from exhaust discharge after installation is complete shall be 85 dBA or less.

K. Air-Intake Filter: Heavy-duty, engine-mounted air cleaner with replaceable dry-filter element and "blocked filter" indicator.

L. Starting System: 24-V electric, with negative ground.

1. Components: Sized so they will not be damaged during a full engine-cranking cycle with ambient temperature at maximum specified in Part 1 "Project Conditions" Article.
2. Cranking Motor: Heavy-duty unit that automatically engages and releases from engine flywheel without binding.
3. Cranking Cycle: As required by NFPA 110 for system level specified.
4. Battery: Adequate capacity within ambient temperature range specified in Part 1 "Project Conditions" Article to provide specified cranking cycle at least twice without recharging.
5. Battery Cable: Size as recommended by engine manufacturer for cable length indicated. Include required interconnecting conductors and connection accessories.
6. Battery Compartment: Factory fabricated of metal with acid-resistant finish and thermal insulation. Thermostatically controlled heater shall be arranged to maintain battery above 10 deg C regardless of external ambient temperature

within range specified in Part 1 "Project Conditions" Article. Include accessories required to support and fasten batteries in place.

7. Battery-Charging Alternator: Factory mounted on engine with solid-state voltage regulation and 35-A minimum continuous rating.
8. Battery Charger: Current-limiting, automatic-equalizing and float-charging type. Unit shall comply with UL 1236 and include the following features:

    a. Operation: Equalizing-charging rate of 10 A shall be initiated automatically after battery has lost charge until an adjustable equalizing voltage is achieved at battery terminals. Unit shall then be automatically switched to a lower float-charging mode and shall continue to operate in that mode until battery is discharged again.
    b. Automatic Temperature Compensation: Adjust float and equalize voltages for variations in ambient temperature from minus 40 deg C to plus 60 deg C to prevent overcharging at high temperatures and undercharging at low temperatures.
    c. Automatic Voltage Regulation: Maintain constant output voltage regardless of input voltage variations up to plus or minus 10 percent.
    d. Ammeter and Voltmeter: Flush mounted in door. Meters shall indicate charging rates.
    e. Safety Functions: Sense abnormally low battery voltage and close contacts providing low battery voltage indication on control and monitoring panel. Sense high battery voltage and loss of ac input or dc output of battery charger. Either condition shall close contacts that provide a battery-charger malfunction indication at system control and monitoring panel.
    f. Enclosure and Mounting: NEMA 250, Type 1, wall-mounted cabinet.

2.4 FUEL OIL STORAGE

A. Comply with NFPA 30.

B. Day Tank: Omitted.

C. Tank Manufacturer; With the area where the Engine Generator (with drop-over weatherproof housing and sub-base fuel tank) being limited in size, and where the manufacturer's sub-base fuel tank has limited options in dimensional flexibility, a third party sub-base fuel tank such as COM-FAB, or an approved equal shall be provided. The fuel tank shall be reviewed and approved as part of the shop drawing process.

D. Sub Base-Mounted Fuel Oil Tank: Factory installed and piped, complying with UL 142 fuel oil tank. Features include the following:

1. Electric fuel level indicator, capable of being monitored.

2. Dual wall construction, with inner tank surfaces coated with solvent based thin-film rust preventative.

3. Leak detection alarm system.

4. Consult tank manufacturers about capacities available for size of set in Project, and provide a tank that matches the footprint of the gen-set being provided, as close as possible.

5. Capacity: Fuel for forty-eight (48) hours of continuous operation at 100 percent rated power output.

6. Spill / fill alarm. Overfill protection.

7. Vandal-resistant, lockable fuel cap, 4-inch NPT.

8. Determine applicable codes and regulations, and coordinate subparagraph below with Drawing.

9. Containment Provisions: Not less than 110% of the primary tank capacity and compliant with the requirements of authorities having jurisdiction.

2.5 CONTROL AND MONITORING

A. Automatic Starting System Sequence of Operation: When mode-selector switch on the control and monitoring panel is in the automatic position, remote-control contacts in one or more separate automatic transfer switches initiate starting and stopping of generator set. When mode-selector switch is switched to the on position, generator set starts. The off position of same switch initiates generator-set shutdown. When generator set is running, specified system or equipment failures or derangements automatically shut down generator set and initiate alarms. Operation of a remote emergency-stop switch also shuts down generator set.

B. Manual Starting System Sequence of Operation: Switching on-off switch on the generator control panel to the on position starts generator set. The off position of same switch initiates generator-set shutdown. When generator set is running, specified system or equipment failures or derangements automatically shut down generator set and initiate alarms. Operation of a remote emergency-stop switch also shuts down generator set.

C. Configuration: Operating and safety indications, protective devices, basic system controls, and engine gages shall be grouped in a common control and monitoring panel mounted on the generator set. Mounting method shall isolate the control panel from generator-set vibration.

D. Configuration: Operating and safety indications, protective devices, basic system controls, and engine gages shall be grouped in a common wall-mounted control and monitoring panel.

E. Configuration: Operating and safety indications, protective devices, basic system controls, engine gages, instrument transformers, generator disconnect switch or circuit breaker, and other indicated components shall be grouped in a combination control and power panel. Control and monitoring section of panel shall be isolated from power sections by steel barriers. Panel features shall include the following:

1. Wall-Mounting Cabinet Construction: Rigid, self-supporting steel unit complying with NEMA ICS 6. Power bus shall be copper. Bus, bus supports, control wiring, and temperature rise shall comply with UL 891.
2. Switchboard Construction: Freestanding unit complying with Division 26 Section "Switchboards."

3. Switchgear Construction: Freestanding unit complying with Division 26 Section "Low-Voltage Switchgear."
4. Current and Potential Transformers: Instrument accuracy class.

F. Indicating and Protective Devices and Controls: As required by NFPA 110 for Level 1 system, and the following:

1. AC voltmeter.
2. AC ammeter.
3. AC frequency meter.
4. DC voltmeter (alternator battery charging).
5. Engine-coolant temperature gage.
6. Engine lubricating-oil pressure gage.
7. Running-time meter.
8. Ammeter-voltmeter, phase-selector switch(es).
9. Generator-voltage adjusting rheostat.
10. Fuel tank, derangement alarm.
11. Fuel tank, high-level shutdown of fuel supply alarm.
12. Fuel tank, fuel leak alarm.
13. Generator overload.

G. Indicating and Protective Devices and Controls:

1. AC voltmeter.
2. AC ammeter.
3. AC frequency meter.
4. DC voltmeter (alternator battery charging).
5. Engine-coolant temperature gage.
6. Engine lubricating-oil pressure gage.
7. Running-time meter.
8. Ammeter-voltmeter, phase-selector switch(es).
9. Generator-voltage adjusting rheostat.
10. Start-stop switch.
11. Overspeed shutdown device.
12. Coolant high-temperature shutdown device.
13. Coolant low-level shutdown device.
14. Oil low-pressure shutdown device.
15. Fuel tank, derangement alarm.
16. Fuel tank, high-level shutdown of fuel supply alarm.
17. Fuel tank, fuel leak alarm.
18. Generator overload.

H. Supporting Items: Include sensors, transducers, terminals, relays, and other devices and include wiring required to support specified items. Locate sensors and other supporting items on engine or generator, unless otherwise indicated.

I. Connection to Data Link: A separate terminal block, factory wired to Form C dry contacts, for each alarm and status indication is reserved for connections for data-link transmission of indications to remote data terminals. Data system connections to terminals are covered in Division 26 Section "Electrical Power Monitoring and Control."

J. Common Remote Audible Alarm: Comply with NFPA 110 requirements for Level 1 systems. Include necessary contacts and terminals in control and monitoring panel.

1. Overcrank shutdown.
2. Coolant low-temperature alarm.
3. Control switch not in auto position.
4. Battery-charger malfunction alarm.
5. Battery low-voltage alarm.

K. Common Remote Audible Alarm: Signal the occurrence of any events listed below without differentiating between event types. Connect so that after an alarm is silenced, clearing of initiating condition will reactivate alarm until silencing switch is reset.

1. Engine high-temperature shutdown.
2. Lube-oil, low-pressure shutdown.
3. Overspeed shutdown.
4. Remote emergency-stop shutdown.
5. Engine high-temperature pre-alarm.
6. Lube-oil, low-pressure pre-alarm.
7. Fuel tank, low-fuel level.
8. Low coolant level.

L. Remote Alarm Annunciator: Comply with NFPA 99. An LED labeled with proper alarm conditions shall identify each alarm event and a common audible signal shall sound for each alarm condition. Silencing switch in face of panel shall silence signal without altering visual indication. Connect so that after an alarm is silenced, clearing of initiating condition will reactivate alarm until silencing switch is reset. Cabinet and faceplate are surface- or flush-mounting type to suit mounting conditions indicated.

M. Remote Emergency-Stop Switch: Flush; wall mounted, unless otherwise indicated; and labeled. Push button shall be protected from accidental operation.

N. Provide with a MODBUS communication card to communicate with the building monitoring system.

2.6 GENERATOR OVERCURRENT AND FAULT PROTECTION

A. Generator Circuit Breaker: Molded-case, thermal-magnetic type; 100 percent rated; complying with NEMA AB 1 and UL 489.

1. Tripping Characteristic: Designed specifically for generator protection.
2. Trip Rating: Matched to generator rating.
3. Shunt Trip: Connected to trip breaker when generator set is shut down by other protective devices.
4. Mounting: Adjacent to or integrated with control and monitoring panel.

B. Generator Protector: Microprocessor-based unit shall continuously monitor current level in each phase of generator output, integrate generator heating effect over time, and predict when thermal damage of alternator will occur. When signaled by generator protector or other generator-set protective devices, a shunt-trip device in the generator disconnect switch shall open the switch to disconnect the generator from load circuits. Protector shall perform the following functions:

1. Initiates a generator overload alarm when generator has operated at an overload equivalent to 110 percent of full-rated load for 60 seconds. Indication for this alarm is integrated with other generator-set malfunction alarms.
2. Under single or three-phase fault conditions, regulates generator to 300 percent of rated full-load current for up to 10 seconds.
3. As overcurrent heating effect on the generator approaches the thermal damage point of the unit, protector switches the excitation system off, opens the generator disconnect device, and shuts down the generator set.
4. Senses clearing of a fault by other overcurrent devices and controls recovery of rated voltage to avoid overshoot.

C. Ground-Fault Indication: Comply with NFPA 70, "Emergency System" signals for ground-fault. Integrate ground-fault alarm indication with other generator-set alarm indications.

2.7 GENERATOR, EXCITER, AND VOLTAGE REGULATOR

A. Comply with NEMA MG 1.

B. Drive: Generator shaft shall be directly connected to engine shaft. Exciter shall be rotated integrally with generator rotor.

C. Electrical Insulation: Class H or Class F.

D. Stator-Winding Leads: Brought out to terminal box to permit future reconnection for other voltages if required.

E. Construction shall prevent mechanical, electrical, and thermal damage due to vibration, over-speed up to 125 percent of rating, and heat during operation at 110 percent of rated capacity.

F. Enclosure: Drip-proof.

G. Instrument Transformers: Mounted within generator enclosure.

H. Voltage Regulator: Solid-state type, separate from exciter, providing performance as specified.

1. Adjusting rheostat on control and monitoring panel shall provide plus or minus 5 percent adjustment of output-voltage operating band.

I. Strip Heater: Thermostatically controlled unit arranged to maintain stator windings above dew point.

J. Windings: Two-thirds pitch stator winding and fully linked amortisseur winding.

K. Subtransient Reactance: 12 percent, maximum.

2.8 LOAD BANK

A. No permanent load banks required.

B. Installing contractor to provide temporary load banks for testing only.

2.9 OUTDOOR GENERATOR-SET ENCLOSURE

A. Description: Vandal-resistant, weatherproof steel housing, wind resistant up to 100 mph. Multiple panels shall be lockable and provide adequate access to components requiring maintenance. Panels shall be removable by one person without tools. Instruments and control shall be mounted within enclosure.

B. Description: Prefabricated or pre-engineered walk-in enclosure with the following features:

1. Construction: Galvanized-steel, metal-clad, integral structural-steel-framed building erected on concrete foundation.
2. Structural Design and Anchorage: Comply with ASCE 7 for wind loads.
3. Space Heater: Thermostatically controlled and sized to prevent condensation.
4. Louvers: Equipped with bird screen and filter arranged to permit air circulation when engine is not running while excluding exterior dust, birds, and rodents.
5. Hinged Doors: With padlocking provisions.
6. Ventilation: Louvers equipped with bird screen and filter arranged to permit air circulation while excluding exterior dust, birds, and rodents.
7. Thermal Insulation: Manufacturer's standard materials and thickness selected in coordination with space heater to maintain winter interior temperature within operating limits required by engine-generator-set components.
8. Muffler Location: Within enclosure.

C. Engine Cooling Airflow through Enclosure: Maintain temperature rise of system components within required limits when unit operates at 110 percent of rated load for 2 hours with ambient temperature at top of range specified in system service conditions.

1. Unit ventilation shall be configured so that the unit ventilation discharge is vertical.

2. Louvers: Fixed-engine, cooling-air inlet and discharge. Storm-proof and drainable louvers prevent entry of rain and snow.

3. Automatic Dampers: At engine cooling-air inlet and discharge. Dampers shall be closed to reduce enclosure heat loss in cold weather when unit is not operating.

D. Interior Lights with Switch: Factory-wired, vapor-proof-type fixtures within housing; arranged to illuminate controls and accessible interior. Arrange for external electrical connection.

1. AC lighting system and connection point for operation when remote source is available.
2. DC lighting system for operation when remote source and generator are both unavailable.

E. Convenience Outlets: Factory wired, GFCI. Arrange for external electrical connection.

2.10 MOTORS

A. General requirements for motors are specified in Division 23 Section "Common Motor Requirements for HVAC Equipment."

1. Motor Sizes: Minimum size as indicated. If not indicated, large enough so driven load will not require motor to operate in service factor range above 1.0.
2. Controllers, Electrical Devices, and Wiring: Electrical devices and connections are specified in Division 26 Sections.

2.11 VIBRATION ISOLATION DEVICES

A. Restrained Spring Isolators: Freestanding, steel, open-spring isolators with seismic restraint.

1. Housing: Steel with resilient vertical-limit stops to prevent spring extension due to wind loads or if weight is removed; factory-drilled baseplate bonded to 1/4-inch-thick, elastomeric isolator pad attached to baseplate underside; and adjustable equipment mounting and leveling bolt that acts as blocking during the installation

2. Outside Spring Diameter: Not less than 80 percent of compressed height of the spring at rated load.

3. Minimum Additional Travel: 50 percent of required deflection at rated load.

4. Lateral Stiffness: More than 80 percent of rated vertical stiffness.

5. Overload Capacity: Support 200 percent of rated load, fully compressed, without deformation or failure.

2.12 FINISHES

A. Indoor and Outdoor Enclosures and Components: Manufacturer's standard finish over corrosion-resistant pretreatment and compatible primer.

2.13 SOURCE QUALITY CONTROL

A. Prototype Testing: Factory test engine-generator set using same engine model, constructed of identical or equivalent components and equipped with identical or equivalent accessories.

1. Tests: Comply with NFPA 110, Level 1 Energy Converters and with IEEE 115.

B. Project-Specific Equipment Tests: Before shipment, factory test engine-generator set and other system components and accessories manufactured specifically for this Project. Perform tests at rated load and power factor. Include the following tests:

1. Test components and accessories furnished with installed unit that are not identical to those on tested prototype to demonstrate compatibility and reliability.
2. Full load run.
3. Maximum power.
4. Voltage regulation.
5. Transient and steady-state governing.
6. Single-step load pickup.
7. Safety shutdown.
8. Provide 14 days' advance notice of tests and opportunity for observation of tests by Owner's representative.
9. Report factory test results within 10 days of completion of test.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas, equipment bases, and conditions, with Installer present, for compliance with requirements for installation and other conditions affecting packaged engine-generator performance.

B. Examine roughing-in of piping systems and electrical connections. Verify actual locations of connections before packaged engine-generator installation.

C. Proceed with installation only after any unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. The Contractor responsible for the Division 26 work, shall be responsible for all work associated with the installation of the Engine Generator (or gen-set); and its; drop-over weatherproof housing, sub-base fuel tank, vibration isolation devices,

B. Comply with packaged engine-generator manufacturers' written installation and alignment instructions and with NFPA 110.

C. Install packaged engine generator to provide access, without removing connections or accessories, for periodic maintenance.

D. Install packaged engine generator with restrained spring isolators having a minimum deflection of 1 inch on 8-inch-high concrete base. Secure sets to anchor bolts installed in concrete bases. Concrete base construction is specified in Division 26 Section "Vibration and Seismic Controls for Electrical Systems."

E. Install Schedule 40, black steel piping with welded joints for cooling water piping between engine-generator set and the heat exchanger. Piping materials and installation requirements are specified in Division 23 Section "Hydronic Piping."

F. Install Schedule 40, black steel piping with welded joints and connect to engine muffler. Install thimble at wall. Piping shall be same diameter as muffler outlet. Flexible

connectors and steel piping materials and installation requirements are specified in Division 23 Section "Hydronic Piping."

1. Install condensate drain piping to muffler drain outlet full size of drain connection with a shutoff valve, stainless-steel flexible connector, and Schedule 40, black steel pipe with welded joints. Flexible connectors and piping materials and installation requirements are specified in Division 23 Section "Hydronic Piping."

G. Electrical Wiring: Install electrical devices furnished by equipment manufacturers but not specified to be factory mounted.

3.3 CONNECTIONS

A. Piping installation requirements are specified in Division 23 Sections. Drawings indicate general arrangement of piping and specialties.

B. Connect fuel, cooling-system, and exhaust-system piping adjacent to packaged engine generator to allow service and maintenance.

C. Connect cooling-system water piping to engine-generator set and heat exchanger with flexible connectors.

D. Connect engine exhaust pipe to engine with flexible connector.

E. Connect fuel piping to engines with a gate valve and union and flexible connector.

1. Diesel storage tanks, tank accessories, piping, valves, and specialties for fuel systems are specified in Division 23 Section "Facility Fuel-Oil Piping."
2. Natural-gas piping, valves, and specialties for gas distribution are specified in Division 23 Section "Facility Natural-Gas Piping."
3. LP-gas piping, valves, and specialties for gas piping are specified in Division 23 Section "Facility Liquefied-Petroleum Gas Piping."

F. Ground equipment according to Division 26 Section "Grounding and Bonding for Electrical Systems."

G. Connect wiring according to Division 26 Section "Low-Voltage Electrical Power Conductors and Cables."

3.4 IDENTIFICATION

A. Identify system components according to Division 23 Section "Identification for HVAC Piping and Equipment" and Division 26 Section "Identification for Electrical Systems."

3.5 FIELD QUALITY CONTROL

A. Testing Agency: Engage a qualified testing agency to perform tests and inspections and prepare test reports.

B. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust components, assemblies, and equipment installations, including connections. Report results in writing.

C. Perform tests and inspections and prepare test reports.

1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.

D. Tests and Inspections:

1. Perform all tests recommended by manufacturer and each electrical test and visual and mechanical inspection for "AC Generators and for Emergency Systems" specified in NETA Acceptance Testing Specification. Certify compliance with test parameters.
2. NFPA 110 Acceptance Tests: Perform tests required by NFPA 110 that are additional to those specified here including, but not limited to, single-step full-load pickup test.
3. Battery Tests: Equalize charging of battery cells according to manufacturer's written instructions. Record individual cell voltages.

    a. Measure charging voltage and voltages between available battery terminals for full-charging and float-charging conditions. Check electrolyte level and specific gravity under both conditions.
    b. Test for contact integrity of all connectors. Perform an integrity load test and a capacity load test for the battery.
    c. Verify acceptance of charge for each element of the battery after discharge.
    d. Verify that measurements are within manufacturer's specifications.

4. Battery-Charger Tests: Verify specified rates of charge for both equalizing and float-charging conditions.
5. System Integrity Tests: Methodically verify proper installation, connection, and integrity of each element of engine-generator system before and during system operation. Check for air, exhaust, and fluid leaks.
6. Exhaust-System Back-Pressure Test: Use a manometer with a scale exceeding 40-inch wg. Connect to exhaust line close to engine exhaust manifold. Verify that back pressure at full-rated load is within manufacturer's written allowable limits for the engine.
7. Exhaust Emissions Test: Comply with applicable government test criteria.
8. Voltage and Frequency Transient Stability Tests: Use recording oscilloscope to measure voltage and frequency transients for 50 and 100 percent step-load increases and decreases, and verify that performance is as specified.
9. Harmonic-Content Tests: Measure harmonic content of output voltage under 25 percent and at 100 percent of rated linear load. Verify that harmonic content is within specified limits.
10. Noise Level Tests: Measure A-weighted level of noise emanating from generator-set installation, including engine exhaust and cooling-air intake and discharge, at four locations on the property line, and compare measured levels with required values.

E. Coordinate tests with tests for transfer switches and run them concurrently.

F. Test instruments shall have been calibrated within the last 12 months, traceable to standards of NIST, and adequate for making positive observation of test results. Make calibration records available for examination on request.

G. Leak Test: After installation, charge system and test for leaks. Repair leaks and retest until no leaks exist.

H. Operational Test: After electrical circuitry has been energized, start units to confirm proper motor rotation and unit operation.

I. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.

J. Remove and replace malfunctioning units and retest as specified above.

K. Retest: Correct deficiencies identified by tests and observations and retest until specified requirements are met.

L. Report results of tests and inspections in writing. Record adjustable relay settings and measured insulation resistances, time delays, and other values and observations. Attach a label or tag to each tested component indicating satisfactory completion of tests.

M. Infrared Scanning: After Substantial Completion, but not more than 60 days after Final Acceptance, perform an infrared scan of each power wiring termination and each bus connection. Remove all access panels so terminations and connections are accessible to portable scanner.

1. Follow-up Infrared Scanning: Perform an additional follow-up infrared scan 11 months after date of Substantial Completion.
2. Instrument: Use an infrared scanning device designed to measure temperature or to detect significant deviations from normal values. Provide calibration record for device.
3. Record of Infrared Scanning: Prepare a certified report that identifies terminations and connections checked and that describes scanning results. Include notation of deficiencies detected, remedial action taken, and observations after remedial action.

N. Perform all testing required by the Ohio State Fire Marshall requirements for above ground fuel tanks.

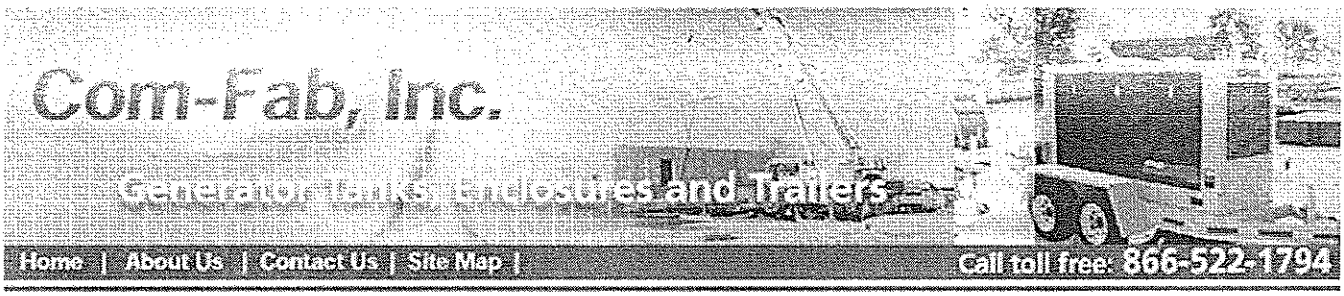
3.6 DEMONSTRATION

A. Engage a factory-authorized service representative to train **Owner's (Fairfield County's)** maintenance personnel to adjust, operate, and maintain packaged engine generators. Refer to Division 01 Section "Demonstration and Training."

END OF SECTION

Appendix G

Generator Details and Specifications



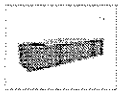
Products

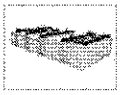
- Subbase Tanks
- Generator Enclosure
- Generator Trailer
- Color Charts
- Request for Quote

Quick Search
Our Products

search

Subbase Tanks



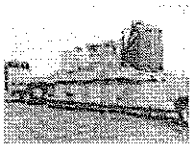


All tanks are custom built to meet customer requirements.

Click for printer-friendly specifications pages:
UL 142 Specification
UL 2085 Fireguard® Specification
Double Wall Specification

Features on All Standard Tanks

- Steel tank with baffles
- 10 gauge steel base
- Reinforced 7 gauge side supports with lifting eyes
- Filler neck with cap
- 2" normal vent
- Emergency venting per NFPA 30
- Conduit entry
- Mechanical fuel gauge
- NPT suction and return fittings with removable dip tubes
- Primed and painted black
- Drain fitting
- Removable panel for conduit access



Options

- UL 142 Listing Close Top Dike
- UL 2085 Fireguard® concrete protected tank
- Single wall
- Double Wall
- Stand alone tanks
- Custom color
- Electric fuel gauge
- Low level warning
- High level warning
- Overfill protection
- Leak detection alarm
- Extra openings
- Lockable fuel cap
- Extended fuel fill
- Fuel heater
- Crossmembers (for oversize tanks)
- Floor plate (for oversize tanks)
- Steps and handrail to meet OSHA requirements
- Spring isolator mounting pads
- Spill/fill alarm
- Spill/fill containment
- Florida DEP approved list (File EQ-386)
- Complete mounting before shipping

Tank Specifications

UL 142 Specification (click for a printer-friendly page)

The intent of this specification is to provide the owner with a "Subbase" type rectangular aboveground UL listed closed top dike double wall fuel storage tank, specifically designed and sized for standby emergency backup generators.

The double wall tank is used when extra protection against fuel leakage to the surrounding environment is desired or required. The double wall tank not only contains fuel leakage from the inner tank, it is also sealed to prevent the entrance of rain and debris.

COM-FAB, INC. manufactures it's double wall tank in two pieces; the inner tank, and the double wall base. The inner tank is made of 12 ga. steel, with 10 ga. baffles... space every 20 inches for

added support and rigidity. The tank is completely welded, and pressure tested at 5-7 pig for a minimum of 60 minutes.

The double wall base is made of 10 ga. main rails and 12 ga. top and bottom. There are also 3x4.1 channels below the double wall bottom to separate it from the concrete mounting pad. The double wall base supports all the weight of a generator as well as providing a rupture basin. The weight and vibration carrying part of the base is not mechanically connected to the inner tank, this reduces the risk of fatigue of the inner tank welds. The inner tank and the double wall top are welded together around the tank fittings only, to provide a completely sealed rupture basin. The rupture basin is fully welded, then tested with magna-flux penetrating dye.

The tank comes standard with the following fittings: fill, engine supply, engine return, inner tank drain, rupture basin drain, mechanical gauge, normal and emergency tank vents, and rupture basin vent.

COM-FAB,INC. MANUFACTURES IT'S TANKS TO MEET NFPA 30, 37 AND UL142

COM-FAB Inc. is UL listed under file MH17856 COM-FAB Inc. is listed as an approved equipment supplier for above ground tanks by The Florida Department of Environmental Protection under file EQ-386

UL 2085 Fireguard® Specification (click for a printer-friendly page)

Fireguard®, a Fire-Rated, Lightweight Double Wall Steel Aboveground Storage Tank.

The Fireguard® Thermally Insulated Aboveground Storage Standard is based on the application of sound engineering principles and the combined experience of STI membership, which includes state of-the-art manufacturing considerations. It represents a composite of input from users, regulatory authorities, manufacturers, and consultants. Fireguard® represents the second generation of thermally protected aboveground storage tanks with its unique double wall and insulated design. Other designs have relied upon costly, heavy materials such as concrete to provide secondary containment and insulation. However, Fireguard® uses three inches of lightweight monolithic thermal insulation between the two walls of steel to minimize heat transfer from the outer tank to the inner tank.

The thermal insulation material is a composition of perlite, cement, water and special ingredients carefully mixed to standardized proportions. The light weight of the completed tank unit eases relocation on projects that demand additional fire protection.

The Fireguard® design responds to the latest demands of the fuel and chemical storage marketplace where fire-rating, environmental safety and relocation are primary concerns.

The Fireguard® fuel-storage design provides secondary containment to prevent spillage or pool fires as well as both thermal insulation and emergency venting for a two-hour fire rating. A two-hour fire rating signifies that the structural integrity of the tank will not be compromised, for at least two hours, if a fire were to surround the tank system. The secondary containment provides 110 percent containment of the primary tank's capacity.

The steel outer wall of the tank is coated to prolong the Fireguard® tank's weather resistance and to further reduce maintenance needs.

Fireguard® tanks are built in accordance with Steel Tank Institute Publication No. F941, "Standard for Thermally Insulated Above-ground Storage Tanks." Tank capacities can be specified from less than 200 gallons to 5000 gallons. Smaller capacities typically provide greater ease of relocation.

Fireguard is a registered trademark of the Steel Tank Institute. Fireguard tanks are built by licensed members of STI.

Double Wall Specification (click for a printer-friendly page)

Used when the customer requires tanks outside of the UL 142 restrictions, but use the same general construction as our UL 142 tanks.

Com-Fab, Inc. | 4657 Price Hilliards, Plain City, OH 43064 | Toll Free: 866.522.1794 | Fax: 740.857.1757 | comfab@comfab-inc.com

Double Wall Specification

Used when the customer requires tanks outside of the UL 142 restrictions, but use the same general construction as our UL 142 tanks.

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COM-FAB, Inc. manufactures it's double wall tank in two pieces; the inner tank, and the double wall base. The inner tank is made of 12 ga. steel, with 10 ga. baffles... space every 20 inches for added support and rigidity. The tank is completely welded, and pressure tested at 5-7 pig for a minimum of 60 minutes.

The double wall base is made of 10 ga. main rails and 12 ga. top and bottom. There are also 3x4.1 channels below the double wall bottom to separate it from the concrete mounting pad. The double wall base supports all the weight of a generator as well as providing a rupture basin. The weight and vibration carrying part of the base is not mechanically connected to the inner tank, this reduces the risk of fatigue of the inner tank welds. The inner tank and the double wall top are welded together around the tank fittings only, to provide a completely sealed rupture basin. The rupture basin is fully welded, then tested with magna-flux penetrating dye.

The tank comes standard with the following fittings: fill, engine supply, engine return, inner tank drain, rupture basin drain, mechanical gauge, normal and emergency tank vents, and rupture basin vent.

COM-FAB, Inc. MANUFACTURES IT'S TANKS TO MEET NFPA 30 AND 37

Com-Fab, Inc.
4657 Price Hilliards
Plain City, OH 43064
Toll Free: 866.522.1794
Phone: 740.857.1107
Fax: 740.857.1757
comfab@comfab-inc.com

Print Page

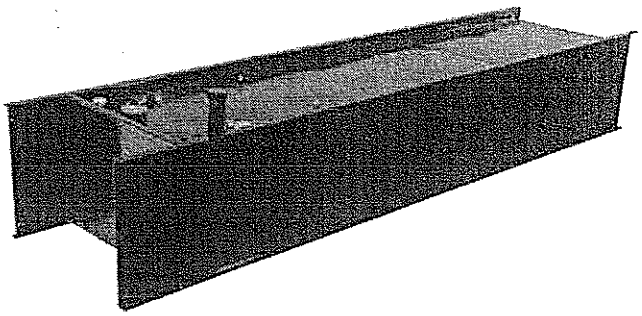

Image shown may not reflect actual package.

C15 / C18
Integral and Sub-Base Fuel Tanks

US Sourced
Diesel Generator Set
320 – 600 kW 60 Hz

FEATURES

- UL listed for United States (UL 142) and Canada (ULC S601)
- Compliant with NFPA 30, 37 & 110 and CSA C282-09 & B139-09 standards.
- Dual wall
- Lockable fuel fill cap, 4" (101.6mm) NPT
- Fuel fill drop tube with in 6" (152mm) from bottom of tank
- Low fuel level warning standard, customer configurable warning or shutdown
- Primary tank leak detection switch in containment basin
- Tank design provides capacity for thermal expansion of fuel
- Fuel supply dip tube is positioned so as not to pick up fuel sediment
- Fuel return and supply dip tube is separated by an internal baffle to prevent immediate re-supply of heated return fuel
- Pressure washed with an iron phosphate solution
- Interior tank surfaces coated with a solvent-based thin-film rust preventative
- Heavy guage steel gussets with internal lifting rings
- Primary and secondary tanks are leak tested at 20.7 kPa (3 psi) minimum
- Compatible with open packages and enclosures
- Gloss black polyester alkyd enamel exterior paint
- Welded steel containment basin (minimum of 110% of primary tank capacity)
- Direct reading fuel gauge with variable electrical output
- Emergency vents on primary and secondary tanks are sized in accordance with NFPA 30

DESCRIPTION – Sub Base

- The sub-base fuel tank mounts below the generator set wide base

DESCRIPTION – Integral

- Integral diesel fuel tank is incorporated into the generator set base frame
- Robust base design includes linear vibtration isolators between tank base and engine generator

OPTIONS

- Audio/visual fuel level alarm panel
- 5 gal (18.9 L) spill containment
- Overfill prevention valve

Appendix H

Specifications for Including City of Lancaster as an Additional Insured

SECTION 00 62 16
CERTIFICATE OF INSURANCE

The following pages are a sample of the certificate of insurance form required for this project. The Owner, the Architect and The City of Lancaster shall be named as additional insured.

ACORD®

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME:	
	PHONE (A/C, No, Ext):	FAX (A/C, No):
	E-MAIL ADDRESS:	

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A :	
INSURER B :	
INSURER C :	
INSURER D :	
INSURER E :	
INSURER F :	

INSURED

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
	COMMERCIAL GENERAL LIABILITY						EACH OCCURRENCE	$
	☐ CLAIMS-MADE ☐ OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$
							MED EXP (Any one person)	$
							PERSONAL & ADV INJURY	$
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$
	☐ POLICY ☐ PRO-JECT ☐ LOC						PRODUCTS - COMP/OP AGG	$
	☐ OTHER:							$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	$
	☐ ANY AUTO						BODILY INJURY (Per person)	$
	☐ ALL OWNED AUTOS ☐ SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	☐ HIRED AUTOS ☐ NON-OWNED AUTOS						PROPERTY DAMAGE (Per accident)	$
								$
	☐ UMBRELLA LIAB ☐ OCCUR						EACH OCCURRENCE	$
	☐ EXCESS LIAB ☐ CLAIMS-MADE						AGGREGATE	$
	☐ DED ☐ RETENTION $							$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y / N						☐ PER STATUTE ☐ OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? ☐ N / A						E.L. EACH ACCIDENT	$
	(Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$
							E.L. DISEASE - POLICY LIMIT	$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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The ACORD name and logo are registered marks of ACORD

END SECTION

Appendix I

Insurance Certificate
for Construction Site Manager
With City of Lancaster as an Additional Insured

OP ID: BC

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 06/11/2015

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER David Chapman Agency, Inc. 5700 W. Mt. Hope Highway Lansing, MI 48917- Robert Chapman	CONTACT NAME: Kay Benjamin or Bob Chapman PHONE (A/C, No, Ext): 517-492-8265 FAX (A/C, No): 517-321-9443 E-MAIL ADDRESS: kbenjamin@davidchapmanagency.com PRODUCER CUSTOMER ID #: GRACS-1
INSURED Granger Construction Company P.O. Box 22187 Lansing, MI 48909-2187	INSURER(S) AFFORDING COVERAGE — NAIC # INSURER A : AMERISURE INSURANCE — 23396 INSURER B : Catlin Specialty Ins Co. — 15989 INSURER C : INSURER D : INSURER E : INSURER F :

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	GENERAL LIABILITY X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY X PRO-JECT LOC			CPP2095424	12/31/2014	12/31/2015	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 1,000,000 $ 300,000 $ 10,000 $ 1,000,000 $ 2,000,000 $ 2,000,000
A	AUTOMOBILE LIABILITY X ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS X HIRED AUTOS X NON-OWNED AUTOS			CA2026030	12/31/2014	12/31/2015	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (PER ACCIDENT)	$ 1,000,000 $ $ $
A	UMBRELLA LIAB X OCCUR EXCESS LIAB CLAIMS-MADE DEDUCTIBLE X RETENTION $ 10000			CU2034385	12/31/2014	12/31/2015	EACH OCCURRENCE AGGREGATE	$ 5,000,000 $ 5,000,000
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y / N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		WC2043130	12/31/2014	12/31/2015	X WC STATU-TORY LIMITS OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ 500,000 $ 500,000 $ 500,000
B	Professional Liab. & Polllution Liab.			CPL 673007 1215	12/31/2014	12/31/2015	Each Loss Aggregate	5,000,000 5,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

New Public Safety & Jail Facility: Fairfield County Commissioners, City of Lancaster, Wachtel & McAnally A/P Inc are additional insured on general liability per form CG7048,automobile liability per form CA7015, and umbrella liability providing primary non-contributory coverage. Policies endorsed to provide 30 day notice of cancellation to this certificate holder per IL7046

CERTIFICATE HOLDER

FAICO-1

Fairfield County Commissioners
210 E Main Street 3rd Floor
Lancaster, OH 43130

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

David G. Chapman

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