CITY of LITTLE ROCK

LANDFILL TRUCK WASH

10801 IRONTON CUT-OFF ROAD,
LITTLE ROCK, ARKANSAS
72206

ISSUE DATE: 02-06-2024

NOTE:
REFER TO WHITING SYSTEMS FOR TRUCK WASHING AND CLEANING EQUIPMENT
CONTACT RANDY HALEY - rhaley@whitingsystems.com
Phone:
(501) 847-9031

CROMWELL
1300 East 6th Street Little Rock, AR 72202
501.372.2900 cromwell.com

Project

CITY OF LITTLE ROCK

LANDFILL TRUCK WASH

LITTLE ROCK, ARKANSAS

Design Phase

CONSTRUCTION DOCUMENTS

Revisions

No.	Date	Description

Stamp

ARCHITECTS ENGINEERS INC. C-98 REGISTERED ARCHITECTS ARKANSAS

REGISTERED ARCHITECT EDWIN C. LEVY 2394 ARKANSAS
02-06-2024

Notes

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Project Number **2023-143**

Issue Date **02-06-2024**

Sheet Title **TITLE SHEET**

Sheet Number **G-001**

ARCHITECTURAL ABBREVIATIONS

AB	ANCHOR BOLT	KG	KILOGRAM
ACOUST.	ACOUSTICAL	LCB	LIQUID CHALK BOARD
AD	AUXILIARY DRAIN	LM	LINEAL METER
ADJ.	ADJUSTABLE	LG	LONG
ADMIN.	ADMINISTRATION	MAS	MASONRY
A.F.F.	ABOVE FINISH FLOOR	MATL.	MATERIAL
AGGRE.	AGGREGATE	MAX	MAXIMUM
ALUM.	ALUMINUM	MB	MINI-BLINDS
BD	BOARD	M.D.	METAL DECK
B.F.F.	BELOW FINISH FLOOR	MECH.	MECHANICAL
BLKG	BLOCKING	MEMB.	MEMBRANE
BM	BEAM	MEZZ.	MEZZANINE
B.O.	BOTTOM OF	MFR	MANUFACTURER
BPL	BASE PLATE	MISC.	MISCELLANEOUS
BS	BOTH SIDES	MO	MASONRY OPENING
BTWN.	BETWEEN	M.S.	METAL STUD
B.U.R.	BUILT-UP ROOF	MTL.	METAL
CAL.	CALIPER	N.I.C.	NOT IN CONTRACT
CL	CENTERLINE	NS	NON-SHRINK
CFC	COMBINED FACILITIES COMPLEX	N.T.S.	NOT TO SCALE
CSF	COMBINED SHARED FACILITIES	OC	ON CENTER
CG	CORNER GUARD	OD	OUTSIDE DIAMETER
CJ	CONTROL JOINT	OFW	OUTSIDE FACE OF WALL
CLG	CEILING	OPNG	OPENING
CMU	CONCRETE MASONRY UNIT	OPP.	OPPOSITE
COL.	COLUMN	P LAM	PLASTIC LAMINATE
CONC.	CONCRETE	PL	PLATE
CONC. BLK	CONCRETE BLOCK	PLYWD.	PLYWOOD
CONST.	CONSTRUCTION	PNL	PANEL
CONT.	CONTINUOUS	PROD	PRODUCE
CT	CERAMIC TILE	KG/SQM	KILOGRAMS PER SQUARE METER
DB	DECK BEARING	KG/SQCM	KILOGRAMS PER SQUARE CENTIMETER
DIM.	DIMENSION	QTY	QUANTITY
DR	DOOR	R	RISER
DTL	DETAIL	R	RADIUS
DWG	DRAWING	RD	ROOF DRAIN
EA	EACH	REFRIG	REFRIGERATION
E.B.	EXPANSION BOLT	REINF	REINFORCING
EF	EXHAUST FAN	REQD	REQUIRED
E.I.F.S.	EXTERIOR INSULATION AND FINISH SYSTEM	RM	ROOM
EJ	EXPANSION JOINT	RPP	RACK POST PROTECTOR
ELEC.	ELECTRICAL	SC	SOLID CORE
ELEV.	ELEVATION	SCHED.	SCHEDULE
EQ	EQUAL	SECT.	SECTION
EQUIP.	EQUIPMENT	SHT.	SHEET
EW	EACH WAY	SIM.	SIMILAR
EWC	ELECTRIC WATER COOLER	SPECS	SPECIFICATIONS
EXIST.	EXISTING	SMFE	SURFACE MOUNTED FEC
EXP	EXPANSION	SRFE	SEMI-RECESSED FEC
EXT.	EXTERIOR	S	SEWER
F	FEMALE	SS	SANITARY SEWER
FD	FLOOR DRAIN	S.S.	STAINLESS STEEL
FE	FIRE EXTINGUISHER	SSC	STAINLESS STEEL CLOSURE
FEC	FIRE EXTINGUISHER CABINET	SST	STAINLESS STEEL THRESHOLD
F.F.E.	FINISH FLOOR ELEVATION	STB	STAFF TRAINING BUILDING
FIN.	FINISH	STL	STEEL
FLR	FLOOR	STO.	STORAGE
FND	FOUNDATION	STRUCT.	STRUCTURAL
F.O.C.	FACE OF CONCRETE	SYM.	SYMBOL
FRP	FIBERGLASS REINFORCED PANEL	T	TREAD
FTG	FOOTING	T & B	TOP AND BOTTOM
GA	GAGE	THK	THICK
GALV	GALVANIZED	THRESH.	THRESHOLD
GR	GUARD RAIL	TJ	TOOLED JOINT
GP	GUARD POST	TO	TOP OF
GYP	GYPSUM	T.O.S.	TOP OF STEEL
GYP.BD.	GYPSUM BOARD	T.O.P.	TOP OF PANEL
H	HIGH	TS	TUBE STEEL
HD	HANDICAP	TYP	TYPICAL
HC	HOLLOW CORE	T.O.M.	TOP OF MASONRY
HDW	HARDWARE	U.N.O.	UNLESS NOTED OTHERWISE
HM	HOLLOW METAL	VCT	VINYL COMPOSITION TILE
HORIZ.	HORIZONTAL	VERT.	VERTICAL
HP	HORSEPOWER	VEST.	VESTIBULE
HT	HEIGHT	V.I.F.	VERIFY IN FIELD
INFO.	INFORMATION	W	WIDE
INSUL.	INSULATION	W/	WITH
INT	INTERIOR	WC	WATER CLOSET
JAN	JANITOR.	WD	WOOD
JT	JOINT	WDW	WINDOW
JST	JOIST	WG	WALL GUARD
KCJ	KEYED CONTROL JOINT	W/O	WITHOUT
LAV.	LAVATORY	WP	WATERPROOFING
		WT	WEIGHT
		WWF	WELDED WIRE FABRIC

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1 OF 18	WHITING SYSTEMS, INC. EQUIPMENT OVERALL LAUOUT	
2 OF 18	WHITING SYSTEMS, INC. EQUIPMENT GENERAL LAYOUT FOR WASH BAY	
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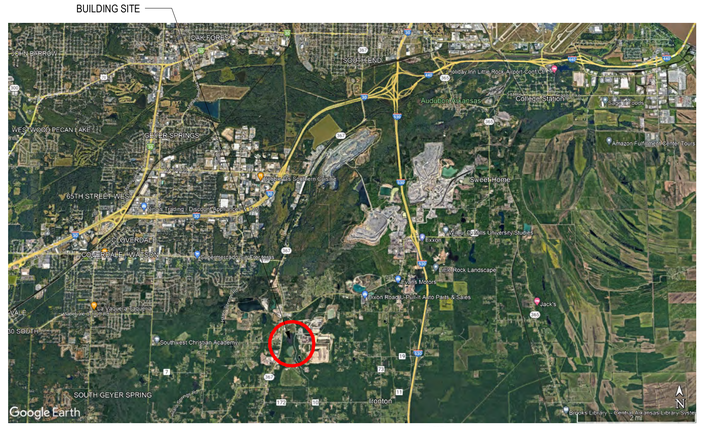
BUILDING SITE

LOCATION MAP

NORTH

BUILDING SITE

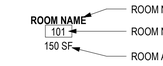


VICINITY MAP

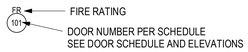
NORTH

SYMBOLS LEGEND

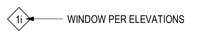
ROOM LABEL



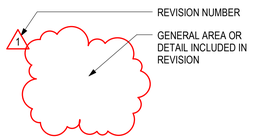
DOOR LABEL



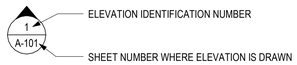
WINDOW LABEL



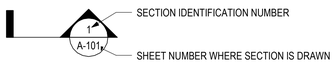
REVISION IDENTIFICATION



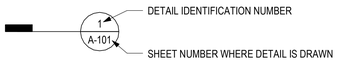
ELEVATION SYMBOL



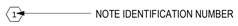
SECTION SYMBOL



DETAIL SYMBOL

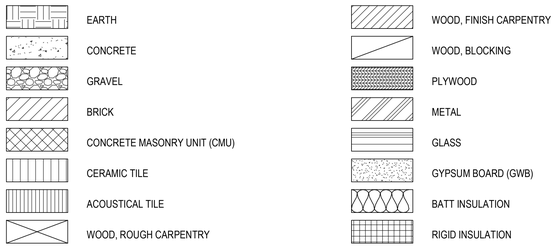


KEY NOTE



PARTITION TAG

SECTION INDICATIONS



CROMWELL
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Project

City of LITTLE ROCK

CITY OF LITTLE ROCK

LANDFILL TRUCK WASH

LITTLE ROCK, ARKANSAS

Design Phase

CONSTRUCTION DOCUMENTS

Revisions

No.	Date	Description

Stamp

Notes

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Project Number **2023-143**

Issue Date **02-06-2024**

Sheet Title **INDEX, SYMBOLS & ABBREV.**

Sheet Number **G-002**

LIFE SAFETY CODE ANALYSIS - EXISTING EQUIPMENT BUILDING

APPLICABLE CODES AND STANDARDS

CODE	EDITION	DESCRIPTION
AFPC	2021	ARKANSAS FIRE PREVENTION BUILDING CODE
NFPA 1	2021	FIRE CODE
NFPA 10	2022	STANDARD FOR PORTABLE FIRE EXTINGUISHERS
NFPA 13	2019	INSTALLATION OF SPRINKLER SYSTEMS
NFPA 24	2019	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
NFPA 25	2020	STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER BASED FIRE PROTECTION SYSTEMS
NFPA 70	2020	NATIONAL ELECTRIC CODE
NFPA 72	2019	NATIONAL FIRE ALARM CODE
NFPA 90A	2021	STANDARD INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS
NFPA 101	2021	LIFE SAFETY CODE

EXISTING STRUCTURE - CLASSIFICATION OF WORK

PER INTERNATIONAL EXISTING BUILDING CODE

- ☐ REPAIRS
- ☐ ALTERATION LEVEL 1
- ☐ ALTERATION LEVEL 2
- ☒ ALTERATION LEVEL 3
- ☐ CHANGE OF OCCUPANCY
- ☐ ADDITIONS
- ☐ HISTORIC BUILDING
- ☐ RELOCATED BUILDING

OCCUPANCY CLASSIFICATION

☒ SINGLE
☐ MIXED
☐ SEPARATED ☐ NON SEPARATED

OCCUPANCY CLASSIFICATION(S): F-1
ACCESSORY OCCUPANCIES: N/A

CONSTRUCTION CLASSIFICATION: IIB

HEIGHT AND AREA - ACTUAL

BUILDING HEIGHT	HEIGHT IN FEET 17' - 11"	HEIGHT IN STORIES 1
BUILDING AREA	584.00 SF	

HEIGHT AND AREA- ALLOWABLE

		TABULAR AREA (TABLE 506.2)		TABULAR HEIGHT (TABLE 504.3-4)		
OCCUPANCY CLASSIFICATION	TYPE OF CONSTRUCTION	AREA FACTOR	AREA	AREA FACTOR	FEET	STORIES
F-1	IIB	NS	15500	NS	55	2

UNLIMITED AREA ☐ YES ☒ NO
QUALIFY FOR FRONTAGE INCREASE? ☒ YES ☐ NO
FRONTAGE INCREASE FACTOR (TABLE 506.3.3): 0.5

ALLOWABLE AREA A_A = $[A_T + (NS \times I_F)]$ (506.2)

23250	=	[15500	+	(15500	X	0.5	)]
ALLOWABLE AREA		TABULAR ALLOWABLE AREA FACTOR		TABULAR ALLOWABLE AREA FACTOR FOR NS		FACTOR INCREASE DUE TO FRONTAGE	

INTERIOR FINISH REQUIREMENTS

	EXITS	EXIT ACCESS CORRIDORS	OTHER SPACES
WALL & CEILING FINISH	B	C	C
FLOOR COVERINGS	II	II	II

(TABLE 803.13)

INCIDENTAL USES

- ☐ FURNACE ROOM
- ☐ ROOMS WITH BOILERS
- ☐ REFRIGERANT MACHINERY ROOM
- ☐ HYDROGEN FUEL GAS ROOMS
- ☐ INCINERATOR ROOMS
- ☐ PAINT SHOPS IN OTHER THAN F
- ☐ GROUP E LABORATORIES AND VOCATIONAL SHOPS
- ☐ GROUP I-2 LABORATORIES
- ☐ AMBULATORY CARE FACILITIES LABORATORIES
- ☐ LAUNDRY ROOMS OVER 100 SQFT
- ☐ GROUP I-2 LAUNDRY ROOMS OVER 100 SQFT
- ☐ GROUP I-3 CELLS AND GROUP I-2 PATIENT ROOMS
- ☐ GROUP I-2 PHYSICAL PLANT MAINTENANCE SHOPS
- ☐ AMBULATORY CARE FACILITIES OR GROUP I-2 WASTE AND LINEN COLLECTION ROOM WITH AGGREGATE VOLUME OF 10CF
- ☐ OTHER THAN AMBULATORY AND GROUP I-2 WASTE AND LINEN COLLECTION ROOMS OVER 100 SQFT
- ☐ AMBULATORY CARE FACILITIES OR GROUP I-2 STORAGE ROOMS OVER 100 SQFT
- ☐ ELECTRICAL INSTALLATIONS AND TRANSFORMERS

IF APPLICABLE, SEPARATION AND/OR PROTECTION: N/A (TABLE 509.1)

FIRE PROTECTION SYSTEMS

FIRE PROTECTION SYSTEM	REQUIRED	PROVIDED	SECTION
AUTOMATIC SPRINKLER			903
ALTERNATIVE AUTO FIRE EXT			904
STANDPIPE			905
PORTABLE FIRE EXTINGUISHERS	●	●	906
FIRE ALARM AND DETECTION			907
EMERGENCY ALARM			908
SMOKE CONTROL			909
SMOKE & HEAT REMOVAL			910
FIRE COMMAND CENTER			911
FIRE DEPT. CONNECTIONS			912
FIRE PUMPS			913
EMERGENCY RESPONDER FEATURES			914
CARBON MONOXIDE DETECTION			915
GAS DETECTION SYSTEMS			916
MASS NOTIFICATION SYSTEMS			917
EMERGENCY RESP. COMM COVERAGE			918

FIRE RESISTANCE OF BUILDING ELEMENTS

	REQUIRED	SECTION
STRUCTURAL FRAME	0	601
BEARING WALLS (EXTERIOR)	0	601
BEARING WALLS (INTERIOR)	0	601
NON-BEARING WALLS (EXTERIOR)	0	601
NON-BEARING WALLS (INTERIOR)	0	601
FLOOR CONSTRUCTION	0	601
ROOF CONSTRUCTION	0	601
INTERIOR EXIT STAIRWAYS	N/A	1023
SHAFT ENCLOSURE	N/A	713
CORRIDORS	0	1020

MEANS OF EGRESS

MEANS OF EGRESS ELEMENT	REQUIRED	PROVIDED	SECTION
NUMBER OF EXITS	1	1	1006.3.3
EXIT ACCESS TRAVEL DISTANCE	200 ft	45 ft	1017.2
DEAD-END LIMIT	20 ft	0 ft	1020.5
COMMON PATH OF TRAVEL LIMIT	75 ft	45 ft	1006.2.1

TOTAL OCCUPANT LOAD:	2
EGRESS WIDTH:	0.2" PER PERSON FOR LEVEL COMPONENTS/ 0.3" STAIRS AND RAMPS
MINIMUM CORRIDOR WIDTH:	32"
CLEAR OPENING DOOR WIDTH:	36"
ILLUMINATION OF EGRESS:	1 FT-CANDLE AT THE FLOOR AND 0.2 FT-CANDLE FOR A SINGLE LIGHT FAILURE.
EMERGENCY EGRESS LIGHTING:	EXIT ACCESS AND DISCHARGE ONLY. ACCESS INCLUDES DESIGNATED CORRIDORS, AISLES, AND PASSAGEWAYS. DISCHARGE INCLUDES DESIGNATED DOORS, WALKWAYS, AND RAMPS LEADING TO A PUBLIC WAY. PERFORMANCE PER AFPC VOLUME II 1008.
EXIT MARKING:	MARKING OF EXITS AND THE MEANS OF EGRESS SHALL BE PER AFPC VOLUME II 1013

CROMWELL
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City of LITTLE ROCK

CITY OF LITTLE ROCK
LANDFILL TRUCK WASH
LITTLE ROCK, ARKANSAS

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CERTIFICATE OF AUTHORIZATION
CROMWELL ARCHITECTS/ ENGINEERS #5
LITTLE ROCK, ARKANSAS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 19823
02-06-2024

Notes

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Project Number **2023-143**

Issue Date **02-06-2024**

Sheet Title
LIFE SAFETY CODE ANALYSIS - EXISTING EQUIPMENT BUILDING

Sheet Number
G1001

LIFE SAFETY CODE ANALYSIS - TRUCK WASH BUILDING

APPLICABLE CODES AND STANDARDS

CODE	EDITION	DESCRIPTION
AFPC	2021	ARKANSAS FIRE PREVENTION BUILDING CODE
NFPA 1	2021	FIRE CODE
NFPA 10	2022	STANDARD FOR PORTABLE FIRE EXTINGUISHERS
NFPA 13	2019	INSTALLATION OF SPRINKLER SYSTEMS
NFPA 24	2019	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
NFPA 25	2020	STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER BASED FIRE PROTECTION SYSTEMS
NFPA 70	2020	NATIONAL ELECTRIC CODE
NFPA 72	2019	NATIONAL FIRE ALARM CODE
NFPA 90A	2021	STANDARD INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS
NFPA 101	2021	LIFE SAFETY CODE

OCCUPANCY CLASSIFICATION

☒ SINGLE
☐ MIXED
☐ SEPARATED ☐ NON SEPARATED

OCCUPANCY CLASSIFICATION(S): U
ACCESSORY OCCUPANCIES: N/A

CONSTRUCTION CLASSIFICATION: IIB

HEIGHT AND AREA - ACTUAL

BUILDING HEIGHT	HEIGHT IN FEET 24' - 8"	HEIGHT IN STORIES 1
BUILDING AREA	2,528.00 SF	

HEIGHT AND AREA- ALLOWABLE

		TABULAR AREA (TABLE 506.2)		TABULAR HEIGHT (TABLE 504.3-4)		
OCCUPANCY CLASSIFICATION	TYPE OF CONSTRUCTION	AREA FACTOR	AREA	AREA FACTOR	FEET	STORIES
U	IIB	NS	8500	NS	55	2

UNLIMITED AREA ☐ YES ☒ NO
QUALIFY FOR FRONTAGE INCREASE? ☒ YES ☐ NO
FRONTAGE INCREASE FACTOR (TABLE 506.3.3): 0.75

ALLOWABLE AREA $A_A = [A_T + (NS \times I_F)]$ (506.2)

14875 = [8500 + (8500 X 0.75)]

ALLOWABLE AREA | TABULAR ALLOWABLE AREA FACTOR | TABULAR ALLOWABLE AREA FACTOR FOR NS | FACTOR INCREASE DUE TO FRONTAGE

INTERIOR FINISH REQUIREMENTS

NR = NO RESTRICTIONS

	EXITS	EXIT ACCESS CORRIDORS	OTHER SPACES
WALL & CEILING FINISH	NR	NR	NR
FLOOR COVERINGS	DOC FF1 or ASTM D2859	DOC FF1 or ASTM D2859	DOC FF1 or ASTM D2859

(TABLE 803.13)

INCIDENTAL USES

- ☐ FURNACE ROOM
- ☐ ROOMS WITH BOILERS
- ☐ REFRIGERANT MACHINERY ROOM
- ☐ HYDROGEN FUEL GAS ROOMS
- ☐ INCINERATOR ROOMS
- ☐ PAINT SHOPS IN OTHER THAN F
- ☐ GROUP E LABORATORIES AND VOCATIONAL SHOPS
- ☐ GROUP I-2 LABORATORIES
- ☐ AMBULATORY CARE FACILITIES LABORATORIES
- ☐ LAUNDRY ROOMS OVER 100 SQFT
- ☐ GROUP I-2 LAUNDRY ROOMS OVER 100 SQFT
- ☐ GROUP I-3 CELLS AND GROUP I-2 PATIENT ROOMS
- ☐ GROUP I-2 PHYSICAL PLANT MAINTENANCE SHOPS
- ☐ AMBULATORY CARE FACILITIES OR GROUP I-2 WASTE AND LINEN COLLECTION ROOM WITH AGGREGATE VOLUME OF 10CF
- ☐ OTHER THAN AMBULATORY AND GROUP I-2 WASTE AND LINEN COLLECTION ROOMS OVER 100 SQFT
- ☐ AMBULATORY CARE FACILITIES OR GROUP I-2 STORAGE ROOMS OVER 100 SQFT
- ☐ ELECTRICAL INSTALLATIONS AND TRANSFORMERS

IF APPLICABLE, SEPARATION AND/OR PROTECTION: N/A (TABLE 509.1)

FIRE PROTECTION SYSTEMS

FIRE PROTECTION SYSTEM	REQUIRED	PROVIDED	SECTION
AUTOMATIC SPRINKLER			903
ALTERNATIVE AUTO FIRE EXT			904
STANDPIPE			905
PORTABLE FIRE EXTINGUISHERS	●	●	906
FIRE ALARM AND DETECTION			907
EMERGENCY ALARM			908
SMOKE CONTROL			909
SMOKE & HEAT REMOVAL			910
FIRE COMMAND CENTER			911
FIRE DEPT. CONNECTIONS			912
FIRE PUMPS			913
EMERGENCY RESPONDER FEATURES			914
CARBON MONOXIDE DETECTION			915
GAS DETECTION SYSTEMS			916
MASS NOTIFICATION SYSTEMS			917
EMERGENCY RESP. COMM COVERAGE			918

FIRE RESISTANCE OF BUILDING ELEMENTS

	REQUIRED	SECTION
STRUCTURAL FRAME	0	601
BEARING WALLS (EXTERIOR)	0	601
BEARING WALLS (INTERIOR)	0	601
NON-BEARING WALLS (EXTERIOR)	0	601
NON-BEARING WALLS (INTERIOR)	0	601
FLOOR CONSTRUCTION	0	601
ROOF CONSTRUCTION	0	601
INTERIOR EXIT STAIRWAYS	N/A	1023
SHAFT ENCLOSURE	N/A	713
CORRIDORS	0	1020

MEANS OF EGRESS

MEANS OF EGRESS ELEMENT	REQUIRED	PROVIDED	SECTION
NUMBER OF EXITS	2	4	1006.3.3
EXIT ACCESS TRAVEL DISTANCE	300 ft	52 ft	1017.2
DEAD-END LIMIT	20 ft	0 ft	1020.5
COMMON PATH OF TRAVEL LIMIT	100 ft	0 ft	1006.2.1

TOTAL OCCUPANT LOAD: 24
EGRESS WIDTH: 0.2" PER PERSON FOR LEVEL COMPONENTS/ 0.3" STAIRS AND RAMPS
MINIMUM CORRIDOR WIDTH: 36"
CLEAR OPENING DOOR WIDTH: 32"
ILLUMINATION OF EGRESS: 1 FT-CANDLE AT THE FLOOR AND 0.2 FT-CANDLE FOR A SINGLE LIGHT FAILURE.
EMERGENCY EGRESS LIGHTING: EXIT ACCESS AND DISCHARGE ONLY. ACCESS INCLUDES DESIGNATED CORRIDORS, AISLES, AND PASSAGEWAYS. DISCHARGE INCLUDES DESIGNATED DOORS, WALKWAYS, AND RAMPS LEADING TO A PUBLIC WAY. PERFORMANCE PER AFPC VOLUME II 1008.
EXIT MARKING: MARKING OF EXITS AND THE MEANS OF EGRESS SHALL BE PER AFPC VOLUME II 1013

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Project

City of LITTLE ROCK

CITY OF LITTLE ROCK
LANDFILL TRUCK WASH
LITTLE ROCK, ARKANSAS

Design Phase
CONSTRUCTION DOCUMENTS

Revisions

No.	Date	Description

Stamp

CERTIFICATE OF AUTHORIZATION
CROMWELL ARCHITECTS/ ENGINEERS #5
ARKANSAS, INC.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 19823
02-06-2024

Notes

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Project Number
2023-143
Issue Date
02-06-2024
Sheet Title
LIFE SAFETY CODE ANALYSIS - TRUCK WASH BUILDING
Sheet Number
G1002

GENERAL SYMBOLS

- REVISION NUMBER SHOWN ON PLANS
- POINT WHERE NEW CONNECTS TO EXISTING
- DEMOLISH TO POINT INDICATED
- 1 / GI001 — NUMBER OF DETAIL ON SHEET / NUMBER OF SHEET WHERE DETAIL APPEARS
- 1 — KEYNOTE
- PIPE CONTINUATION

SPACE TAG:
OFFICE — SPACE NAME
101 — SPACE NUMBER
100 SF — SPACE AREA

- ITEM TO BE DEMOLISHED
- AREA NOT IN CONTRACT

EGRESS SYMBOLS

EGRESS SPACE TAG:
OFFICE — SPACE NAME
101 — SPACE NUMBER
100 SF — SPACE AREA
1 Occupant(s) — SPACE OCCUPANCY LOAD

- PATH OF EGRESS
- COMMON PATH OF TRAVEL
- TOTAL TRAVEL DISTANCE
- COL / TEC — EGRESS DOOR LOAD TAG: CALCULATED OCCUPANT LOAD / TOTAL EXITING CAPACITY
- COL / TEC — EGRESS STAIR DOOR LOAD TAG: CALCULATED OCCUPANT LOAD / TOTAL EXITING CAPACITY

LIFE SAFETY EQUIPMENT

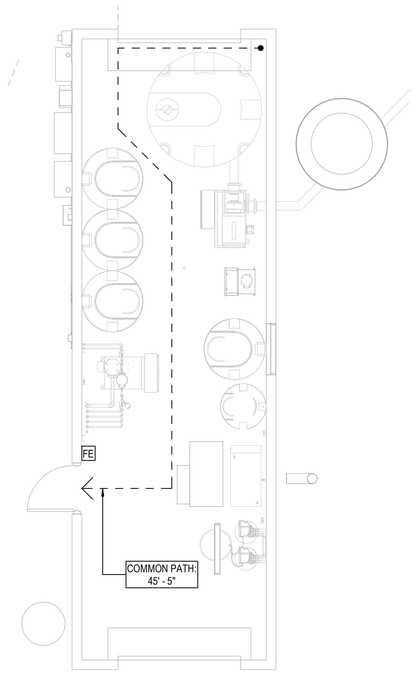
- FE — FIRE EXTINGUISHER - HOOK MOUNTED
- FEC — FIRE EXTINGUISHER IN CABINET
- FHV — FIRE HOSE VALVE CABINET
- 75' TRAVEL DISTANCE FOR FIRE EXTINGUISHERS

WALL SEPERATIONS

- HALF-HOUR FIRE WALL
- 45-MINUTE FIRE WALL
- 1 HOUR FIRE WALL
- 2 HOUR FIRE/SMOKE WALL
- "S" REPRESENTS SMOKE BARRIER WALL
- EACH ◆ REPRESENTS 1-HOUR OF FIRE RATING

LIFE SAFETY SCHEDULE

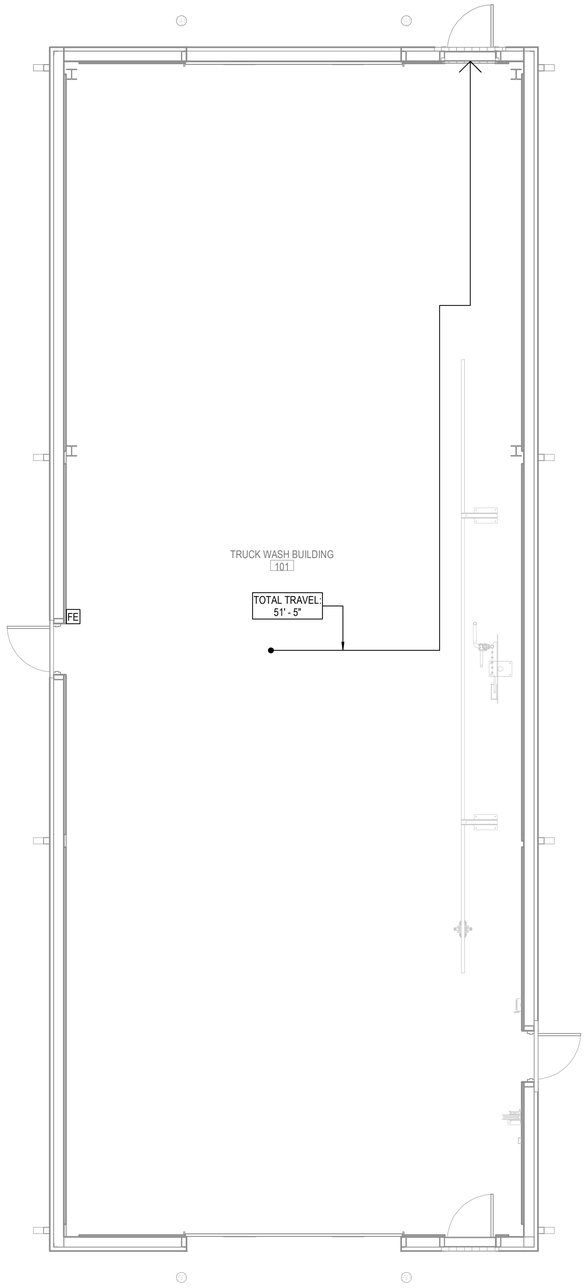
NAME	NUMBER	SPACE AREA	AREA PER PERSON	OCCUPANT LOAD
		487 SF	300 SF	2
		487 SF		2



1 LIFE SAFETY FLOOR PLAN - EXISTING EQUIPMENT BUILDING
1/4" = 1'-0"
0 2 4 8
NORTH

LIFE SAFETY SCHEDULE

NAME	NUMBER	SPACE AREA	AREA PER PERSON	OCCUPANT LOAD
TRUCK WASH BUILDING	101	2443 SF	100 SF	24
		2443 SF		24



2 LIFE SAFETY FLOOR PLAN - TRUCK WASH BUILDING
1/4" = 1'-0"
0 2 4 8
NORTH

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City of LITTLE ROCK

CITY OF LITTLE ROCK

LANDFILL TRUCK WASH

LITTLE ROCK, ARKANSAS

Design Phase

CONSTRUCTION DOCUMENTS

Revisions

No.	Date	Description

Stamp

CERTIFICATE OF AUTHORIZATION — CROMWELL ARCHITECTS ENGINEERS #5 — ARKANSAS ENGINEER

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 19823

02-06-2024

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Project Number **2023-143**

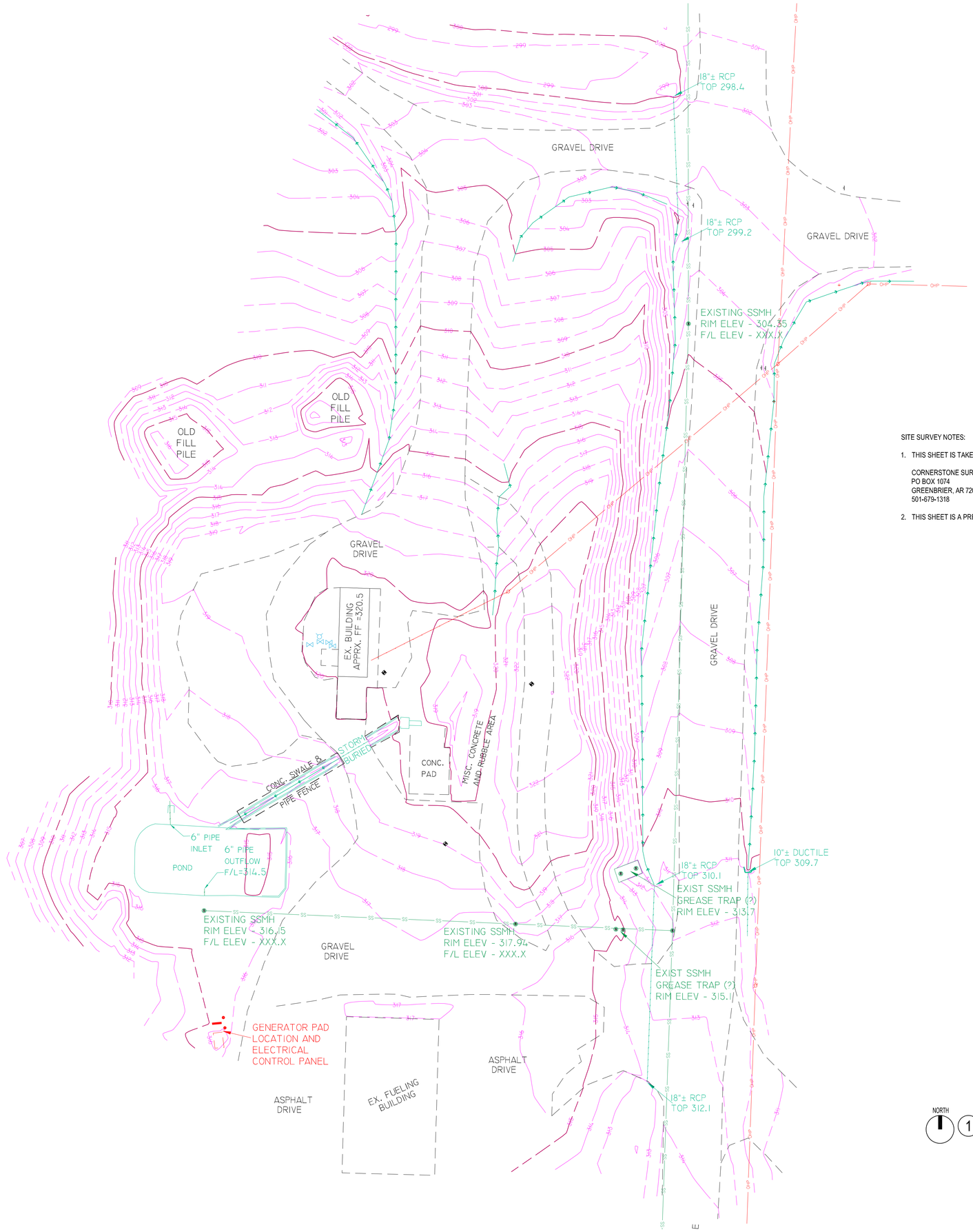
Issue Date **02-06-2024**

Sheet Title

LIFE SAFETY FLOOR PLANS

Sheet Number

GI101



LEGEND

- FOUND 1/2" REBAR(UNLESS NOTED)
- SET IRON PIN
- CALCULATED OR ANGLE POINT
- FOUND STONE/CONC CORNER
- POWER POLE (OVER-HEAD ELECTRIC)
- GUY WIRE ANCHOR
- LIGHT POLE
- WARNING OR INFO SIGN
- STORM DRAIN COVER
- WATER UTILITY BOX
- UTILITY VALVE
- FIRE HYDRANT
- TELEPHONE PEDESTAL
- SANITARY SEWER MANHOLE
- UTILITY AS NOTED

SITE SURVEY NOTES:

1. THIS SHEET IS TAKEN FROM A SURVEY PROVIDED BY:

   CORNERSTONE SURVEYING & MAPPING
   PO BOX 1074
   GREENBRIER, AR 72058
   501-679-1318

2. THIS SHEET IS A PRESENTATION DRAWING FOR INFORMATION ONLY TO SHOW THE EXISTING CONDITIONS OF THE SITE .

NORTH

1 SITE SURVEY

0 10' 20' 40'

SCALE:1"=20'

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Project

City of LITTLE ROCK

CITY OF LITTLE ROCK

LANDFILL TRUCK WASH

LITTLE ROCK, ARKANSAS

Design Phase

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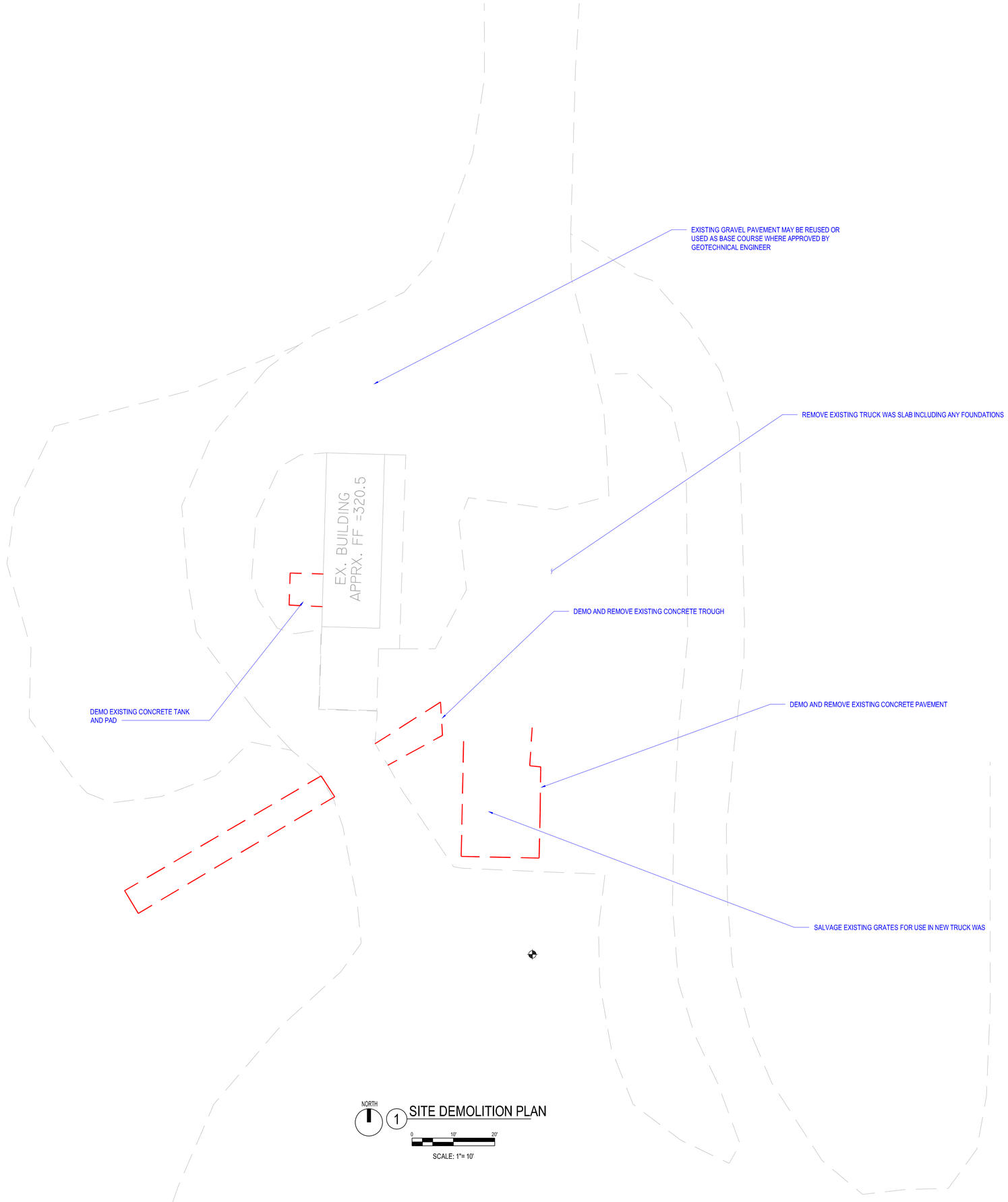
Project Number **2023-143**

Issue Date **02-06-2023**

Sheet Title **SITE SURVEY**

Sheet Number

VF101



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NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL, IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES, OF ALL STRUCTURES, PADS, WALLS, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER SPECIFICATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND DISPOSING ALL DEBRIS FROM THE SITE IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
3. THE CONTRACTOR MUST PROTECT THE PUBLIC FROM CONSTRUCTION ACTIVITIES AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. TO THE BEST PRACTICES AND APPROVED BY THE OWNER.
4. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING PARKING, SIDEWALKS, DRIVES, ETC. CLEAR AND FREE FROM ANY CONSTRUCTION ACTIVITY AND/OR MATERIAL TO ENSURE EASY AND SAFE PEDESTRIAN AND VEHICULAR TRAFFIC TO AND FROM THE SITE.
5. PRIOR TO CLEARING, VEGETATION TO REMAIN SHALL BE PROTECTED FROM DAMAGE AND THE CONTRACTOR SHALL INSTALL EROSION CONTROL STRUCTURES AND DEVICES AND TREE PRESERVATION FENCING.
6. CONTRACTOR SHALL NOTIFY GOVERNING AUTHORITY PRIOR TO ANY WORK IN PUBLIC RIGHT-OF-WAY AND OBTAIN ANY NECESSARY PERMITS.
7. ANY DAMAGE TO THE EXISTING PUBLIC STREET OR OTHER PUBLIC INFRASTRUCTURE DUE TO THE CONSTRUCTION SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE.
8. ALL PAVEMENT OR STRUCTURE DEMOLITION INCLUDES ASSOCIATED FOUNDATIONS AND/OR BASE COURSE LAYERS.
9. THERE ARE NUMEROUS PUBLIC AND PRIVATE UTILITIES WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION AND AN ATTEMPT HAS BEEN MADE TO INDICATE THEIR PRESENCE ON THE PLAN. PRIOR TO BEGINNING ANY TYPE OF EXCAVATION THE CONTRACTOR SHALL CONTACT THE VARIOUS UTILITY COMPANIES AND MAKE ARRANGEMENTS FOR LOCATION OF THE UTILITY ON THE GROUND. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN THE UTILITY LOCATION MARKINGS UNTIL THEY ARE NO LONGER NEEDED. EXISTING AND ABANDONED UTILITY LOCATIONS ARE UNKNOWN. SURVEY MARKERS ARE APPROXIMATE LOCATIONS ONLY. ALL UTILITIES ARE TO BE RELOCATED PRIOR TO CONSTRUCTION.
10. ALL UTILITIES SHOWN FOR REMOVAL BACK TO MAIN SHALL BE REMOVED AND CAPPED PER UTILITY STANDARD REQUIREMENTS. UTILITY REMOVAL SHALL BE COORDINATED WITH THE UTILITY AND THE OWNER. 72 HOURS WRITTEN NOTICE SHALL BE GIVEN TO THE OWNER AND UTILITY PRIOR TO DEMOLISHING ANY UTILITY.
11. EXISTING UTILITIES TO REMAIN ARE TO BE PROTECTED AND ADJUSTED TO MATCH PROPOSED GRADE.
12. SEE ELECTRICAL SITE PLAN FOR ADDITIONAL ELECTRIC SERVICE REMOVAL.
13. CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL EXISTING SITE CONDITIONS DISTURBED BY CONSTRUCTION ACTIVITIES BACK TO EXISTING OR BETTER CONDITIONS.
14. ANY ITEMS SHOWN TO BE SALVAGED SHALL BE STORED AND REUSED AS SHOWN ON OTHER PLAN DRAWINGS OR RETURNED TO THE OWNER AND STORED AT THE OWNER'S DIRECTION.
15. SHOULD REMOVAL AND/OR RELOCATIONS ACTIVITIES DAMAGE FENCING, SIDEWALKS, LIGHTING, STORM INLET STRUCTURES, ETC. THEN THE CONTRACTOR SHALL PROVIDE NEW MATERIAL/STRUCTURES IN ACCORDANCE WITH CONTRACT DOCUMENTS. EXCEPT FOR MATERIALS DESIGNATED TO BE RELOCATED ON THIS PLAN, ALL CONSTRUCTION MATERIALS SHALL BE NEW.
16. ANY CONSTRUCTION ACTIVITIES THAT WILL REQUIRE ROAD OR LANE CLOSURES SHALL BE COORDINATED WITH THE APPROPRIATE ORGANIZATION PRIOR TO CLOSURE AND APPROPRIATE PERMITS OBTAINED BY THE CONTRACTOR.
17. CONTRACTOR SHALL PAY FOR ALL TRAFFIC CONTROL DEVICES AND PERSONNEL FOR ROAD CLOSURES AND DETOURS.
18. ALL EXISTING SIGNS AND POSTS TO BE REMOVED SHALL BE RELOCATED, STOCKPILED, OR REMOVED AS DIRECTED.
19. **DIG CAREFULLY.** STATE LAWS GENERALLY PROHIBIT THE USE OF MECHANIZED EQUIPMENT WITHIN 18-24 INCHES OF A MARKED UTILITY, WHICH IS CALLED THE "TOLERANCE ZONE". CONTACT THE PROPER LOCAL AGENCY PRIOR TO DIGGING.

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Project

City of LITTLE ROCK

CITY OF LITTLE ROCK

LANDFILL TRUCK WASH

LITTLE ROCK, ARKANSAS

Design Phase

CONSTRUCTION DOCUMENTS

Revisions

No.	Date	Description

Stamp

CERTIFICATE OF AUTHORIZATION — CROMWELL ARCHITECTS/ ENGINEERS #5 — ARKANSAS-ENGINEER

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 19907 — CHARLES WISE — 02-06-2023

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Project Number **2023-143**

Issue Date **02-06-2023**

Sheet Title **SITE DEMOLITION PLAN**

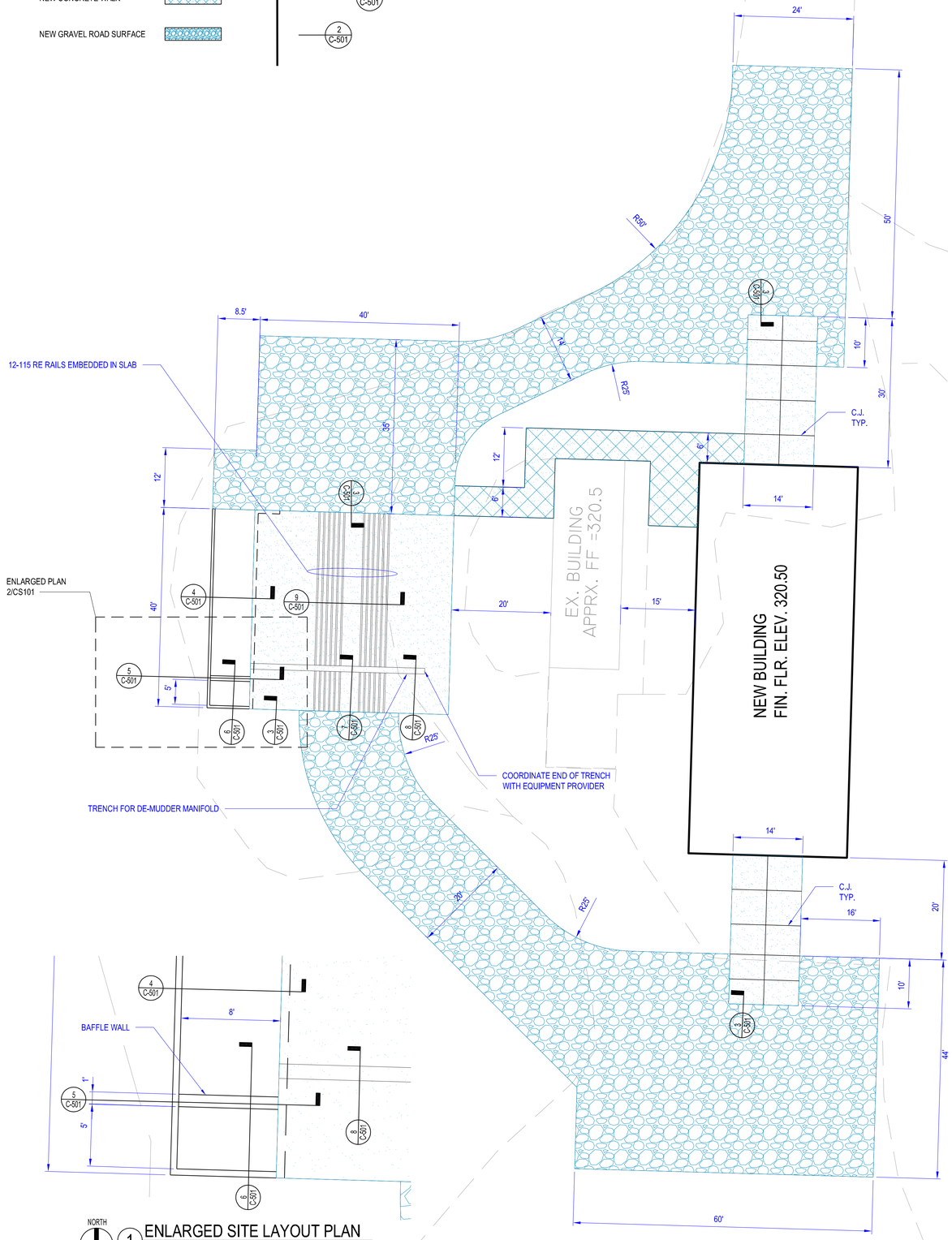
Sheet Number **CD101**

LEGEND

	DETAIL REFERENCE
NEW CONCRETE PAVEMENT (JOINTS SHOWN)	1 C-501
CJ (TYP)	
NEW CONCRETE WALK	1 C-501
NEW GRAVEL ROAD SURFACE	2 C-501

NOTES:

1. CONTRACTOR SHALL BE CONFINED TO THE LIMITS OF CONSTRUCTION SHOWN UNLESS OTHER PROVISIONS HAVE BEEN MADE WITH THE OWNER. THIS INCLUDES STAGING AND LAYDOWN AREAS.
2. CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO WORK BEGINNING.
3. DIMENSIONS TO CURBS ARE TO BACK OF CURB. DIMENSIONS TO BUILDINGS ARE TO OUTSIDE FACE OF BUILDING WALL.
4. THE CONTRACTOR SHALL LAYOUT AND VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION, ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR DIRECTION AND RESOLUTION PRIOR TO PROCEEDING.
5. PROVIDE EXPANSION JOINTS IN ALL CASES WHERE CONCRETE FLATWORK MEETS VERTICAL STRUCTURES OR WHERE NEW CONCRETE SURFACE ABUTS EXISTING CONCRETE SURFACE.
6. RESTORATION AND CLEANUP SHALL BE COMPLETE PRIOR TO ACCEPTANCE OF THE JOB.
7. ALL WORK DONE IN PUBLIC RIGHT-OF-WAY SHALL MEET THE REQUIREMENTS AND SPECIFICATIONS OF THE GOVERNING AUTHORITY.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING NEWLY PAVED AREAS THAT SHOW DIFFERENTIAL SETTLEMENT OR RANDOM CRACKING AT ENGINEER'S DISCRETION.



NORTH 1 ENLARGED SITE LAYOUT PLAN

0 4' 8'

SCALE: 1"= 4'

NORTH 1 SITE LAYOUT PLAN

0 10' 20'

SCALE: 1"= 10'

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Project

City of LITTLE ROCK

CITY OF LITTLE ROCK
LANDFILL TRUCK WASH
LITTLE ROCK, ARKANSAS

Design Phase

CONSTRUCTION DOCUMENTS

Revisions

No.	Date	Description

Stamp

CERTIFICATE OF AUTHORIZATION — CROMWELL ARCHITECTS/ ENGINEERS #5 — ARKANSAS ENGINEER

STATE OF ARKANSAS — REGISTERED ENGINEER — No. 15927 — CHARLES WISE

02-06-2023

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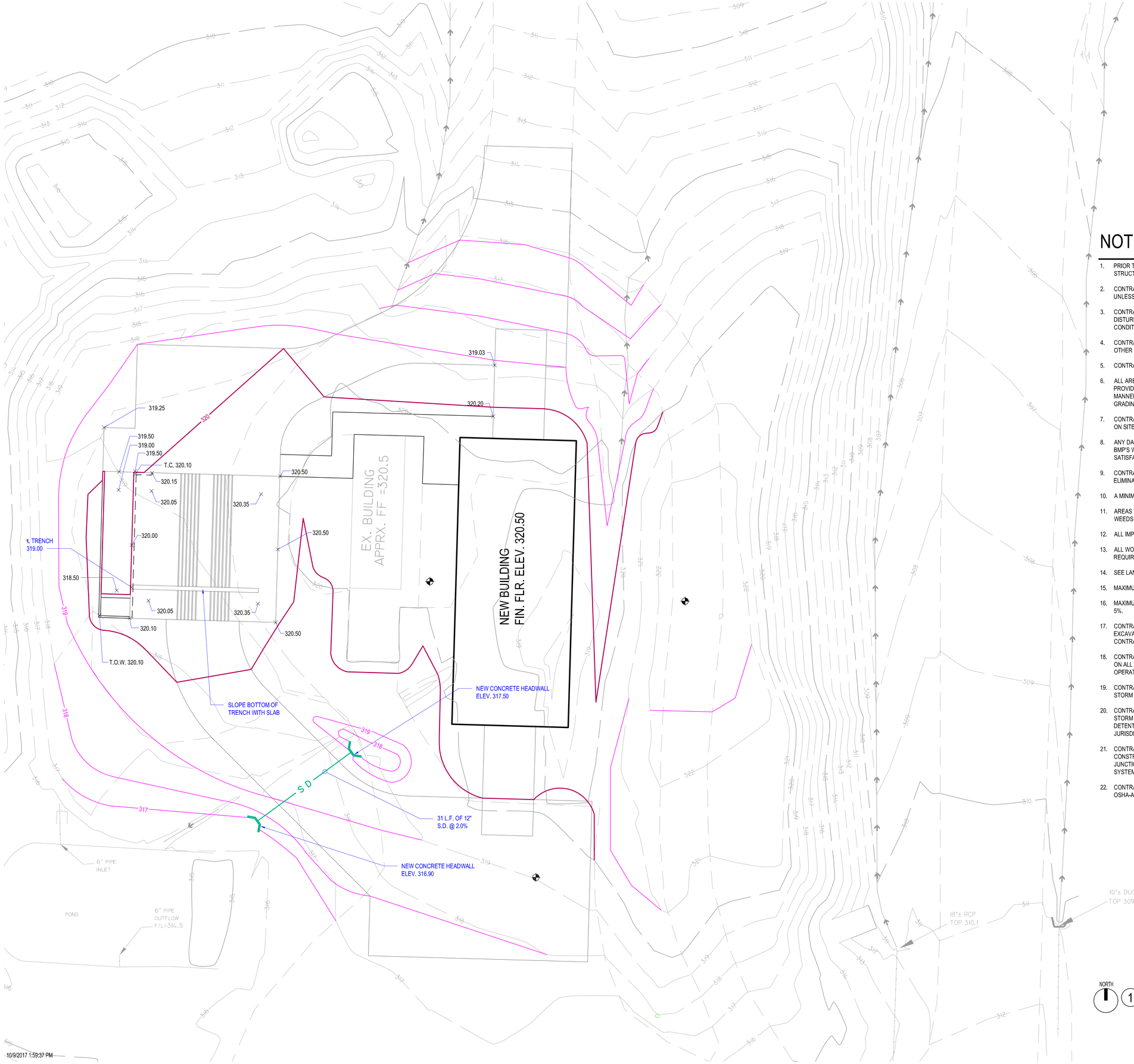
Project Number **2023-143**

Issue Date **02-06-2023**

Sheet Title **SITE LAYOUT PLAN**

Sheet Number **CS101**



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LEGEND

- EXISTING GRADE CONTOUR (1 FOOT INTERVAL) — 382
- EXISTING GRADE CONTOUR (5 FOOT INTERVAL) — 375
- FINISHED GRADE CONTOUR (1 FOOT INTERVAL) — 382
- FINISHED GRADE CONTOUR (5 FOOT INTERVAL) — 380
- FINISHED SPOT ELEVATION (T.C.=TOP OF CURB) — T.C.384.00
- SOIL BORING LOCATION

NOTES:

1. PRIOR TO CLEARING, THE CONTRACTOR SHALL INSTALL EROSION CONTROL STRUCTURES AND DEVICES AND TREE PRESERVATION FENCING.
2. CONTRACTOR SHALL BE CONFINED TO THE LIMITS OF CONSTRUCTION SHOWN UNLESS OTHER PROVISIONS HAVE BEEN MADE WITH THE OWNER.
3. CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL EXISTING SITE CONDITIONS DISTURBED BY CONSTRUCTION ACTIVITIES BACK TO EXISTING OR BETTER CONDITIONS.
4. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING PUBLIC STREETS OR OTHER PUBLIC INFRASTRUCTURE DUE TO CONSTRUCTION.
5. CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO WORK BEGINNING.
6. ALL AREAS NOT WITHIN THE PARKING LOT ARE TO RECEIVE LOOSE STRAW TO PROVIDE EROSION CONTROL IF WORK IS NOT PROGRESSING IN AN ORDERLY MANNER. A RATE OF 2 TONS/ACRE IS TO BE APPLIED WITHIN TWO WEEKS OF FINAL GRADING.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING BMP'S, POSTING SWPPP ON SITE AND MONITORING/MAINTAINING EROSIONS CONTROL MEASURES.
8. ANY DAMAGE TO PUBLIC STORM WATER SYSTEM DUE TO LACK OF MAINTAINING BMP'S WILL BE THE CONTRACTOR'S RESPONSIBILITY TO CLEAN OR REPAIR TO THE SATISFACTION OF THE ENGINEER OR LOCAL AUTHORITY.
9. CONTRACTOR SHALL MODIFY THE EROSION CONTROL PLAN AS NEEDED TO ELIMINATE SEDIMENTATION FROM LEAVING THE SITE AS SITE CONDITIONS CHANGE.
10. A MINIMUM OF 4" OF TOP SOIL SHALL BE REQUIRED IN AREAS TO BE LANDSCAPED.
11. AREAS THAT ARE TO BE SODDED OR SEEDED SHALL BE RELATIVELY FREE OF WEEDS AT TIME OF FINAL ACCEPTANCE.
12. ALL IMPORTED FILL SHALL BE FREE OF ORGANIC MATERIAL.
13. ALL WORK WITHIN PUBLIC - RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH REQUIREMENTS AND SPECIFICATIONS OF THE GOVERNING AUTHORITY.
14. SEE LANDSCAPE PLAN FOR SLEEVE SIZE AND LOCATION.
15. MAXIMUM LAWN GRADE SLOPE SHALL BE 3:1, UNLESS SHOWN OTHERWISE.
16. MAXIMUM WALK CROSS SLOPE SHALL BE 2%. MAXIMUM LINEAR GRADE SHALL BE 5%.
17. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATING. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
18. CONTRACTOR SHALL SPREAD 4" TOPSOIL AND INSTALL SOD(SEED) AND FERTILIZER ON ALL DISTURBED EARTH SURFACES RESULTING FROM THE CONTRACTOR'S OPERATIONS, UNLESS SHOWN OTHERWISE.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING SWPPP AND KEEPING STORM WATER SYSTEM CLEAN DURING CONSTRUCTION.
20. CONTRACTOR IS RESPONSIBLE FOR PURSUING AND OBTAINING ALL NECESSARY STORM WATER PERMITS AND FOLLOWING ALL LOCAL STORM WATER DETENTION/RETENTION AND OUTFALL REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION
21. CONTRACTOR SHALL CLEAN ALL EXISTING STORM DRAINS OF SEDIMENT AND CONSTRUCTION DEBRIS FROM INLET TO DISCHARGE POINT AT HEADWALL OR JUNCTION BOX ON PUBLIC RIGHT-OF-WAY. INCLUDE ROOF, DRAINS, GUTTER SYSTEMS AND LATERAL LINES.
22. CONTRACTOR SHALL MEET ALL OSHA REQUIREMENTS AND/OR COMPARABLE OSHA-APPROVED STATE PLAN REQUIREMENTS FOR TRENCHING AND EXCAVATION.

NORTH

1 SITE GRADING AND DRAINAGE PLAN

0 10' 20'

SCALE: 1"= 10'

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Project

City of LITTLE ROCK

CITY OF LITTLE ROCK

LANDFILL TRUCK WASH

LITTLE ROCK, ARKANSAS

Design Phase

CONSTRUCTION DOCUMENTS

Revisions

No.	Date	Description

Stamp

CERTIFICATE OF AUTHORIZATION — CROMWELL ARCHITECTS/ ENGINEERS #5 — ARKANSAS-ENGINEER

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 16907 — CHARLES WISE

02-06-2023

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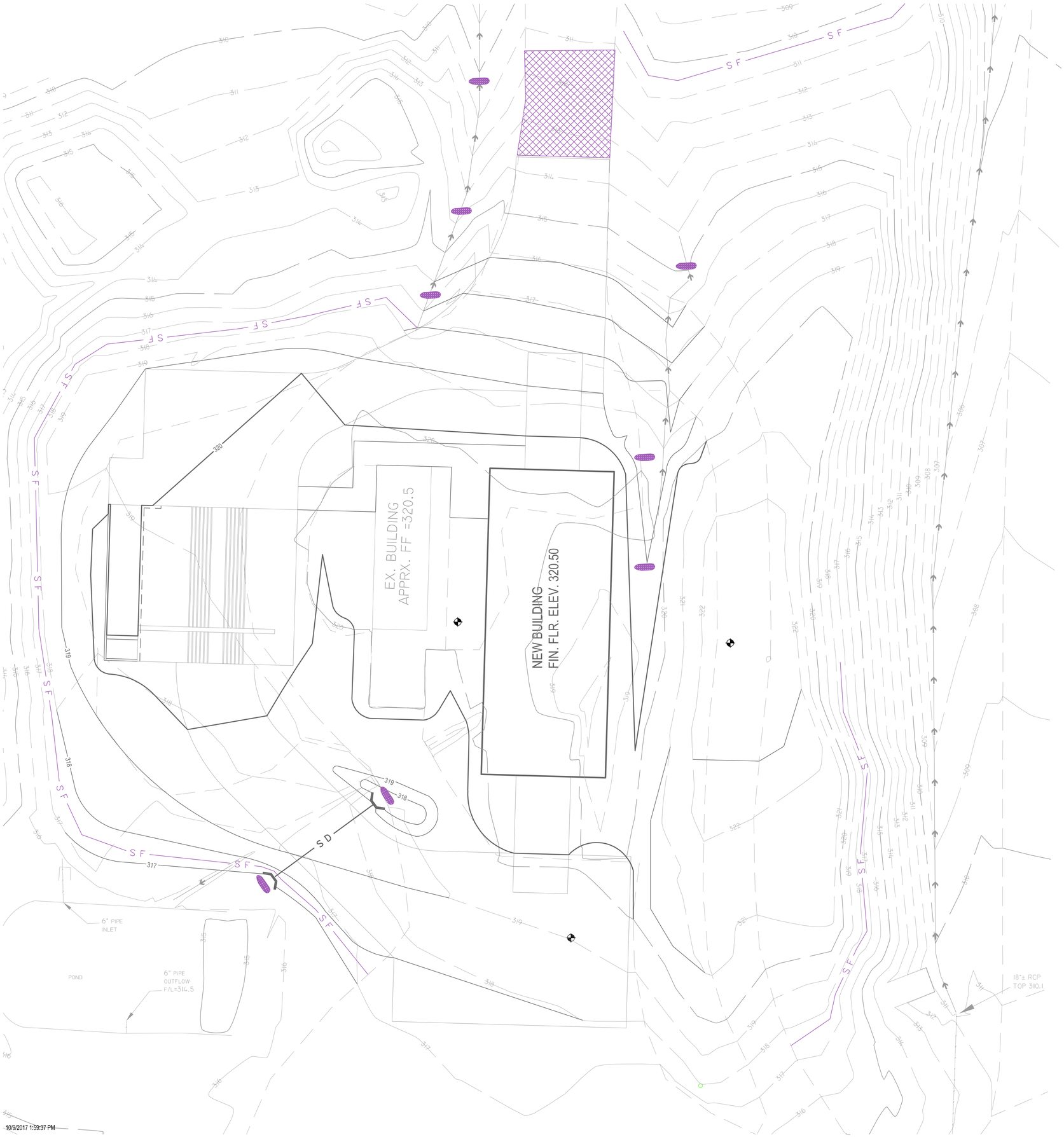
Project Number **2023-143**

Issue Date **02-06-2023**

Sheet Title **SITE GRADING AND DRAINAGE PLAN**

Sheet Number **CG101**



LEGEND

		DETAIL REFERENCE
SILT FENCE	SF SF	2 CG702
CONSTRUCTION ENTRANCE/EXIT PAD		1 CG702
10' LONG ROCK FILTER DAM		3 CG702

SITE SEDIMENTATION AND EROSION CONTROL PLAN NOTES

1. ALL AREAS OF THE SITE EXPOSED BY CONSTRUCTION ACTIVITY AND LEFT UNDISTURBED FOR 21 DAYS MUST BE MULCHED WITHIN 14 DAYS OF LAST DISTURBANCE.
2. PRIOR TO CLEARING, THE CONTRACTOR SHALL INSTALL EROSION CONTROL STRUCTURES AND DEVICES AND TREE PRESERVATION FENCING.
3. ALL AREAS WITHIN THE ROADS AND PAVING ARE TO RECEIVE A GRAVEL BASE TO PROVIDE EROSION CONTROL IF WORK IS NOT PROGRESSING IN AN ORDERLY MANNER. A RATE OF 135 TONS/ACRE IS TO BE APPLIED WITHIN TWO WEEKS OF FINAL GRADING.
4. ALL AREAS NOT WITHIN THE ROADS AND PAVING ARE TO RECEIVE LOOSE STRAW TO PROVIDE EROSION CONTROL IF WORK IS NOT PROGRESSING IN AN ORDERLY MANNER. A RATE OF 2 TONS/ACRE IS TO BE APPLIED WITHIN TWO WEEKS OF FINAL GRADING.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING BMP'S, POSTING SWPPP ON SITE AND MONITORING/MAINTAINING EROSIONS CONTROL MEASURES.
6. ANY DAMAGE TO PUBLIC STORM WATER SYSTEM DUE TO LACK OF MAINTAINING BMP'S WILL BE THE CONTRACTOR'S RESPONSIBILITY TO CLEAN OR REPAIR TO THE SATISFACTION OF THE ENGINEER OR LOCAL AUTHORITY.
7. CONTRACTOR SHALL MODIFY THE EROSION CONTROL PLAN AS NEEDED TO ELIMINATE SEDIMENTATION FROM LEAVING THE SITE AS SITE CONDITIONS CHANGE.
8. CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL EXISTING SITE CONDITIONS DISTURBED BY CONSTRUCTION ACTIVITIES BACK TO EXISTING OR BETTER CONDITIONS.
9. CONTRACTOR SHALL PREVENT OFF-SITE TRACKING OF CONSTRUCTION SEDIMENT AND RUNOFF TO ADJACENT PROPERTY AND PUBLIC ROADS.
10. THIS PLAN SHOWS THE LOCATION AND DETAILS PRIMARY SEDIMENT CONTROLS TO BE CONSTRUCTED. THE CONTRACTOR OR THEIR REPRESENTATIVE IS RESPONSIBLE FOR CONTROLLING EROSION AND DISCHARGE OF SEDIMENT FROM THE SITE AT ALL TIMES DURING CONSTRUCTION. THE PERMITTEE OR THEIR REPRESENTATIVE SHALL PROVIDE NECESSARY MEASURES DURING ALL PHASES OF CONSTRUCTION REGARDLESS OF WHETHER THEY ARE SPECIFICALLY NOTED ON THIS PLAN AND SHALL MAINTAIN AND REPLACE CONTROLS AS NECESSARY DURING CONSTRUCTION TO PREVENT THE MOVEMENT OF SEDIMENT DOWNSTREAM.
11. THE CONTRACTOR OR THEIR REPRESENTATIVE IS RESPONSIBLE FOR INFORMING ALL PARTIES ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE SWPPP.
12. THE LIMITS OF CLEARING, GRADING, AND DISTURBANCE, AS SHOWN ON THE PLAN(S), SHALL BE KEPT TO A MINIMUM WITHIN THE APPROVED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE THE LIMITS OF DISTURBANCE SHALL REMAIN TOTALLY UNDISTURBED. PHASING SHALL BE USED TO MINIMIZE THE AMOUNT OF DISTURBED AREA AT ANY GIVEN TIME.
13. A COPY OF THE SWPPP AND INSPECTION REPORTS MUST BE DISPLAYED AT THE CONSTRUCTION SITE.
14. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE CLEANED AND SWEPT AT THE END OF EACH WORKING DAY AT A MINIMUM, MORE FREQUENTLY IF SEDIMENT TRACK OUT IS HEAVY. WASHING OF ACCUMULATED SEDIMENT INTO THE STORM DRAIN OR WATERWAYS IS PROHIBITED.
15. DUST SHALL BE CONTROLLED DURING CONSTRUCTION AND CONSTRUCTION AREAS SHALL BE WATERED WHENEVER CONDITIONS WARRANT.
16. SEDIMENT REMOVED FROM EROSION AND SEDIMENT CONTROLS AND FACILITIES SHALL NOT BE PLACED ON STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES AND SHALL BE IMMEDIATELY STABILIZED, OR PLACED IN TOPSOIL STOCKPILES.
17. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH AN APPROVED SEDIMENT CONTROL BMP, SUCH AS A PUMPED WATER FILTER BAG DISCHARGING OVER NON DISTURBED AREAS.
18. THE CONTRACTOR OR THEIR REPRESENTATIVE IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS OFF-SITE BORROW AND FILL AREAS.
19. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT DEPOSITION, THE CONTRACTOR OR THEIR REPRESENTATIVE SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT DEPOSITION.
20. THE CONTRACTOR OR THEIR REPRESENTATIVE SHALL STABILIZE ALL DISTURBED AREAS NOT SUBJECT TO CONSTRUCTION ACTIVITY WITHIN 14 CALENDAR DAYS AFTER ACTIVITY HAS CEASED, HOWEVER WITHIN THE RIPARIAN AREA, BANKS, ETC., SEEDING, MULCHING AND NEEDED FERTILIZATION SHOULD BE WITHIN THREE DAYS OF FINAL CONTOURING.
21. PERMANENT SWALES OR OTHER POINTS OF CONCENTRATED WATER FLOW SHALL BE STABILIZED WITHIN 7 CALENDAR DAYS OF ESTABLISHMENT WITH SOD OR SEED WITH APPROVED EROSION CONTROL MATTING OR BY OTHER APPROVED MEASURES.
22. ALL DISTURBED AREAS NOT RECEIVING OTHER PERMANENT STABILIZATION SUCH AS PAVEMENT, ROOFS,SOD, ETC., SHALL BE SEEDED AND MULCHED, AS SPECIFIED IN THE SWPPP BEFORE TEMPORARY SEDIMENT CONTROLS CAN BE REMOVED AND PRIOR TO FINAL APPROVAL OF CONSTRUCTION.
23. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.
24. AFTER FINAL STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENTATION CONTROLS SHALL BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS SHALL BE STABILIZED IMMEDIATELY.
25. SILT AND DEBRIS MUST BE REMOVED FROM STORM DRAINS, CONVEYANCE CHANNELS, BASINS OR ANY PART OF THE STORMWATER SYSTEM PRIOR TO FINAL SITE STABILIZATION APPROVAL.
26. THE FOLLOWING WILL BE IMPLEMENTED ACCORDING TO LOCAL, STATE, AND FEDERAL REGULATIONS: LIQUID AND SOLID WASTE MANAGEMENT, CHEMICAL AND MATERIAL DELIVERY AND STORAGE, CONCRETE WASTE, PAINTING AND DRYWALL WORK, VEHICLE FUELING, MAINTENANCE AND CLEANING, ASPHALT, SAWCUTTING, CORING, AND GRINDING ACTIVITIES, BUILDING BLASTING AND CLEANING, CEMENT, GROUT AND MORTAR WORK, SANITARY AND SEPTIC WASTES, WATER LINE DISINFECTION, FLUSHING, DEWATERING, AND OTHER NON-STORMWATER DISCHARGES, HAZARDOUS WASTE MANAGEMENT, AND PROHIBITED DISCHARGES.
27. CONTRACTOR OR THEIR REPRESENTATIVE SHALL MEET ALL OTHER STATE AND FEDERAL CLEAN WATER REQUIREMENTS.

NORTH

1 SITE EROSION AND SEDIMENTATION CONTROL PLAN

0 10' 20'

SCALE: 1"= 10'

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Project

City of LITTLE ROCK

CITY OF LITTLE ROCK

LANDFILL TRUCK WASH

LITTLE ROCK, ARKANSAS

Design Phase

CONSTRUCTION DOCUMENTS

Revisions

No.	Date	Description

Stamp

CERTIFICATE OF AUTHORIZATION
CROMWELL ARCHITECTS' ENGINEERS #5
ARKANSAS ENGINEER

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15927
CHARLES WISE
02-06-2023

Notes

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Project Number **2023-143**

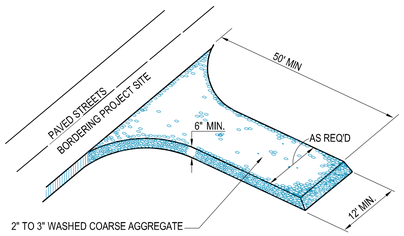
Issue Date **02-06-2023**

Sheet Title

SITE EROSION AND SEDIMENTATION CONTROL PLAN

Sheet Number

CG701



NOTE:
1. GRAVEL PAD IS REQUIRED TO PROVIDE BUFFER AREA WHERE VEHICLES CAN DROP THEIR MUD AND SEDIMENT TO AVOID TRANSPORTING IT ONTO PAVED STREETS, TO CONTROL EROSION FROM SURFACE RUNOFF, AND TO HELP CONTROL DUST.
2. PLACE AT ENTRANCE FROM PAVED ROAD TO SITE AS LOCATED ON THE DRAWINGS.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT

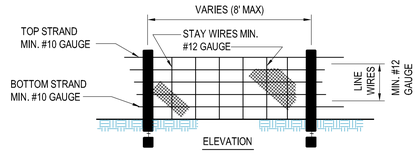
LOCATION:
LOCATE CONSTRUCTION ENTRANCES AND EXITS TO LIMIT SEDIMENT FROM LEAVING THE SITE AND TO PROVIDE FOR MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES. AVOID STEEP GRADES, AND ENTRANCES AT CURVES IN PUBLIC ROADS WHERE VEHICLES ENTER AND LEAVE A CONSTRUCTION SITE. THE PURPOSE IS TO PROVIDE A BUFFER AREA WHERE VEHICLES CAN DROP THEIR MUD AND SEDIMENT TO AVOID TRANSPORTING IT ONTO PUBLIC ROADS, TO CONTROL EROSION FROM SURFACE RUNOFF, AND TO HELP CONTROL DUST.

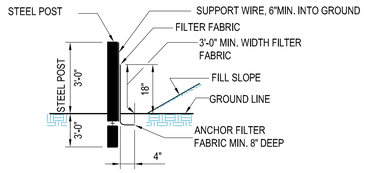
CONDITIONS WHERE PRACTICE APPLIES:
WHEREVER TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE AND MOVING DIRECTLY ONTO A PUBLIC ROAD OR OTHER PAVED OFF-SITE AREA.

WASHING:
IF CONDITIONS AT THE SITE ARE SUCH THAT MOST OF THE MUD AND SEDIMENT ARE NOT REMOVED BY VEHICLES TRAVELING OVER THE GRAVEL, THE TIRES SHOULD BE WASHED. WASHING SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO A SUITABLE DISPOSAL AREA.

MAINTENANCE:
MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH 2-INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.

1 TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT PAD DETAIL
NOT TO SCALE



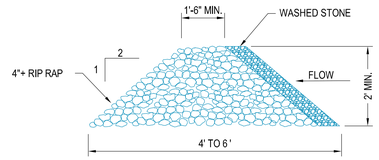


GENERAL NOTES:
1. SILT FENCE SHALL BE INSTALLED OUTSIDE TOE OF EARTHFILL EMBANKMENTS.
2. WIRE SHALL BE A MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MIN. OF 6 LINE WIRES WITH 12" STAY SPACING.
3. FILTER FABRIC SHALL BE A MINIMUM OF 36" IN WIDTH AND SHALL BE FASTENED SECURELY TO THE WIRE.
4. STEEL POSTS SHALL BE 6'-0" IN HEIGHT AND BE OF SELF-FASTENER ANGLE STEEL TYPE.
5. CONTRACTOR SHALL PERIODICALLY REMOVE ACCUMULATED SEDIMENT, AS REQUIRED
   NOTE: THE FILTER FABRIC SHALL MEET THE FOLLOWING REQUIREMENTS:
   A) EOS IS NOT LARGER THAN U.S. STANDARD SIEVE NO.70
   B) GRAB STRENGTH 90-120 LB
   C) CONFORM TO ASTM D-1682 OR ASTM D-177

2 TEMPORARY SEDIMENT FENCE DETAIL
NOT TO SCALE

TEMPORARY SEDIMENT FENCE MAINTENANCE:

1) INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2) SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
3) REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKING CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
4) REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.



GENERAL NOTES:
1. CHECK DAMS MAY BE USED IN SLOPING DITCHES OR CHANNELS TO SLOW VELOCITY OR TO CREATE SEDIMENT TRAPS.

3 ROCK FILTER DAM
NOT TO SCALE

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City of LITTLE ROCK

CITY OF LITTLE ROCK
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LITTLE ROCK, ARKANSAS

Design Phase
CONSTRUCTION DOCUMENTS

Revisions

No.	Date	Description

Stamp

CERTIFICATE OF AUTHORIZATION — CROMWELL ARCHITECTS/ ENGINEERS #5 — ARKANSAS ENGINEER

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 15907 — CHARLES WISE — 12/09/2023

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Project Number **2023-143**

Issue Date **02-06-2023**

Sheet Title
SITE EROSION AND SEDIMENTATION CONTROL DETAILS

Sheet Number
CG702

LEGEND

DETAIL REFERENCE

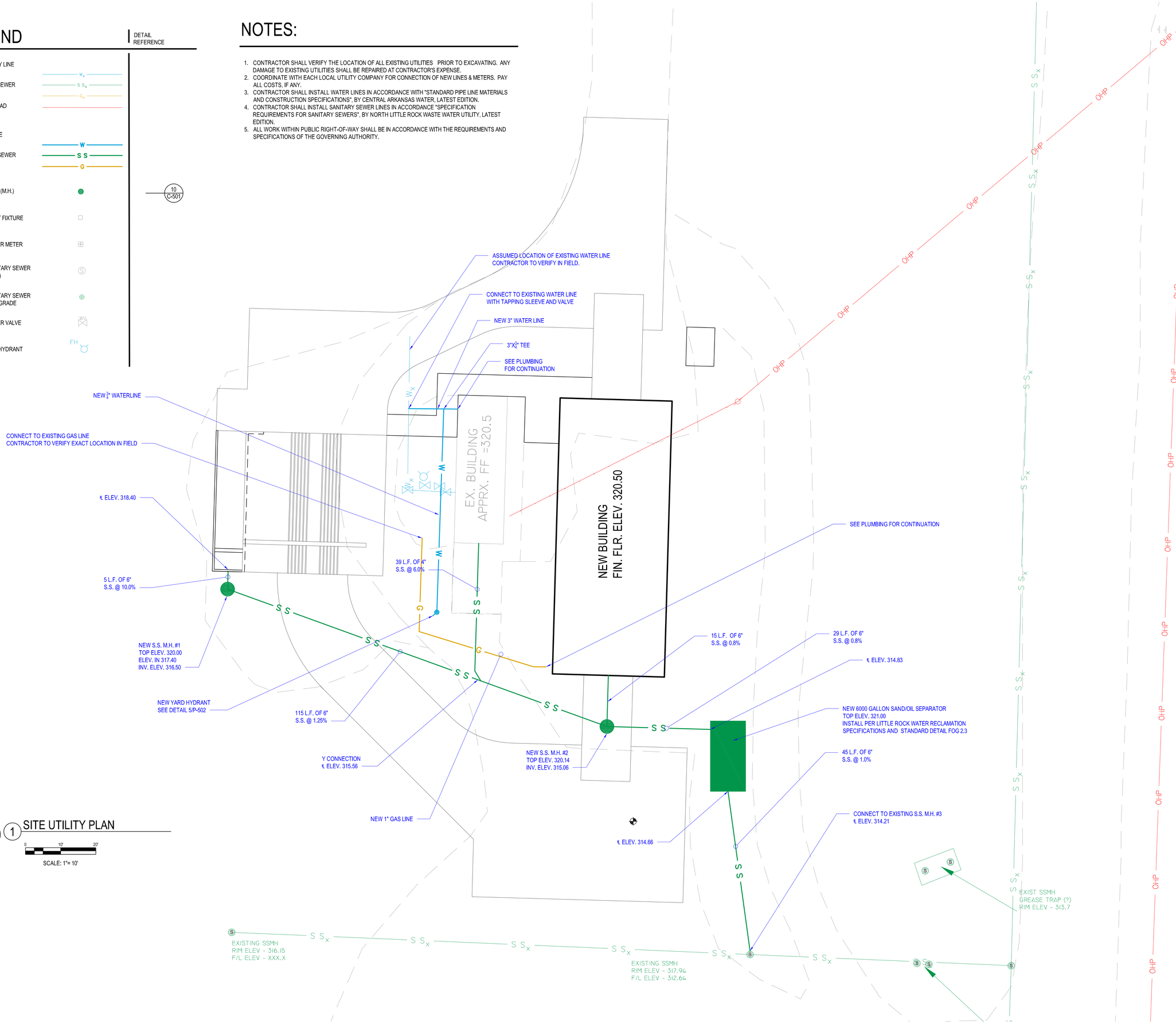
EXISTING UTILITY LINE
- W=WATER — W_x
- SS=SANITARY SEWER — $S\ S_x$
- G=GAS — G_x
- O.H.E.=OVERHEAD ELECTRIC

NEW UTILITY LINE
- W=WATER — W
- SS=SANITARY SEWER — S S
- G=GAS — G

- NEW MANHOLE (M.H.) — 10 / C-501
- EXISTING LIGHT FIXTURE
- EXISTING WATER METER
- EXISTING SANITARY SEWER MANHOLE (M.H.)
- EXISTING SANITARY SEWER CLEANOUT-TO-GRADE
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT — FH

NOTES:

1. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATING. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
2. COORDINATE WITH EACH LOCAL UTILITY COMPANY FOR CONNECTION OF NEW LINES & METERS. PAY ALL COSTS, IF ANY.
3. CONTRACTOR SHALL INSTALL WATER LINES IN ACCORDANCE WITH "STANDARD PIPE LINE MATERIALS AND CONSTRUCTION SPECIFICATIONS", BY CENTRAL ARKANSAS WATER, LATEST EDITION.
4. CONTRACTOR SHALL INSTALL SANITARY SEWER LINES IN ACCORDANCE "SPECIFICATION REQUIREMENTS FOR SANITARY SEWERS", BY NORTH LITTLE ROCK WASTE WATER UTILITY, LATEST EDITION.
5. ALL WORK WITHIN PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE GOVERNING AUTHORITY.



NORTH

1 SITE UTILITY PLAN

0 10' 20'

SCALE: 1"= 10'

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LITTLE ROCK, ARKANSAS

Design Phase

CONSTRUCTION DOCUMENTS

Revisions

No.	Date	Description

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CROMWELL ARCHITECTS/ ENGINEERS #5 — CERTIFICATE OF AUTHORIZATION — ARKANSAS-ENGINEER

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 15927 — CHARLES WISE

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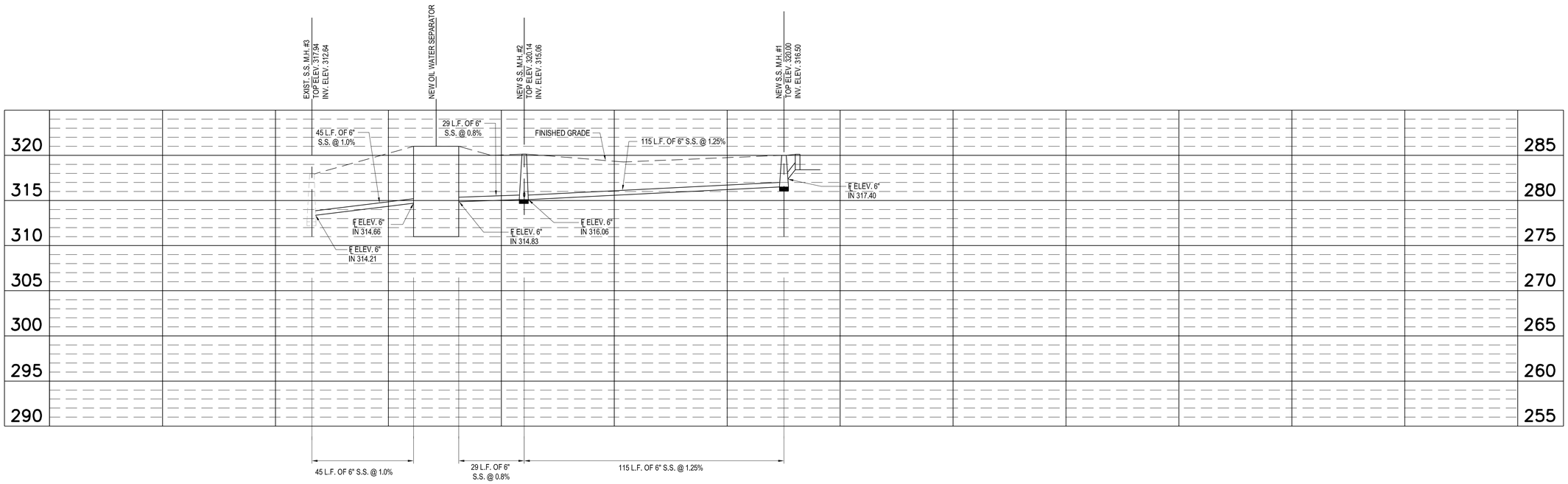
Project Number **2023-143**

Issue Date **02-06-2023**

Sheet Title **SITE UTILITY PLAN**

Sheet Number **CU101**



SANITARY SEWER PROFILE

20' 0' 20' 40'
HORIZONTAL SCALE: 1"=20'

5' 0' 5' 10'
VERTICAL SCALE: 1"=5'

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CONSTRUCTION DOCUMENTS

Revisions

No.	Date	Description

Stamp

CERTIFICATE OF AUTHORIZATION
CROMWELL ARCHITECTS/ ENGINEERS #5
ARKANSAS-ENGINEER

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15927
CHARLES WISE
02-06-2023

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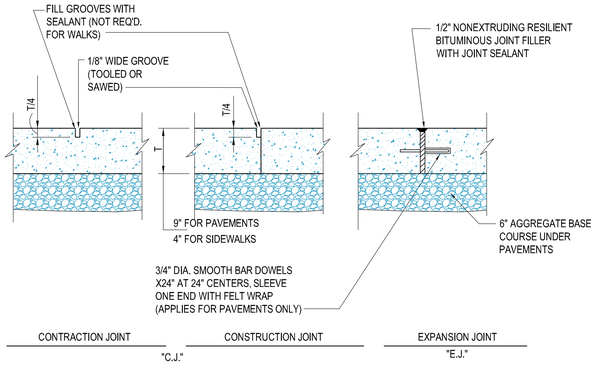
Project Number **2023-143**

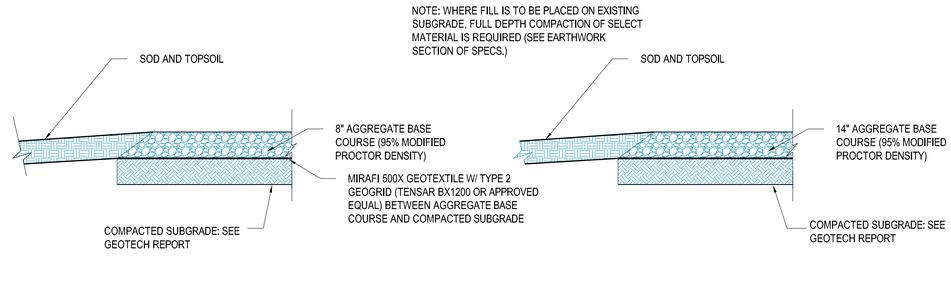
Issue Date **02-06-2023**

Sheet Title **SANITARY SEWER PROFILE**

Sheet Number **CU301**



1 CONCRETE JOINT DETAILS
NOT TO SCALE



OPTION A OPTION B

2 GRAVEL PAVING DESIGN SECTION
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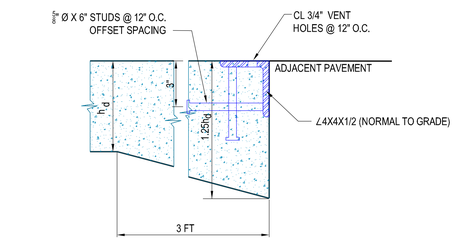

3 THICKENED FREE EDGE DETAIL
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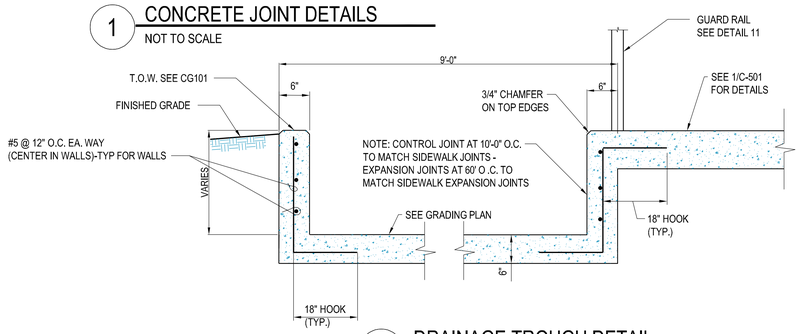

4 DRAINAGE TROUGH DETAIL
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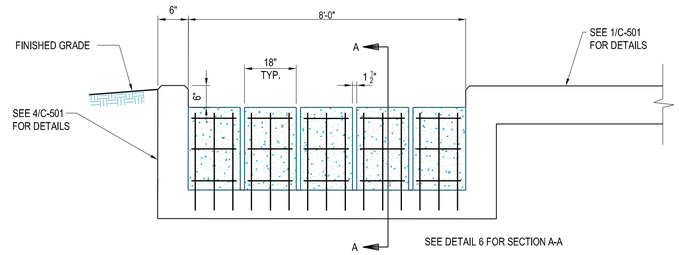
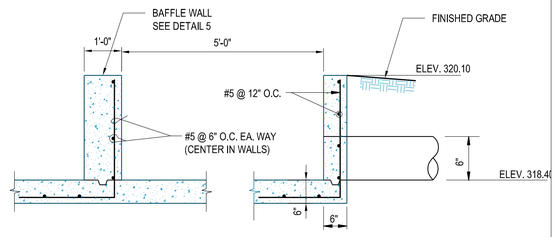


5 BAFFLE WALL DETAIL
NOT TO SCALE



SECTION A-A

6 HEADWALL DETAIL
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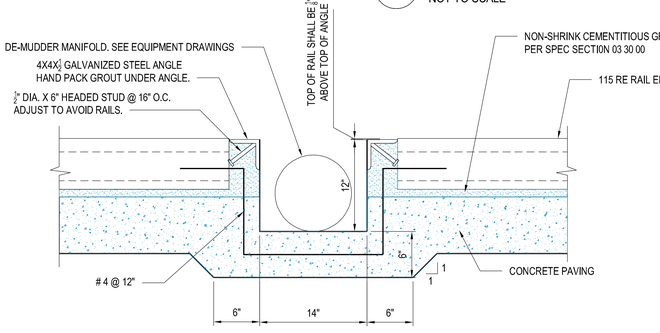

7 TRENCH DETAIL AT EMBED RAILS
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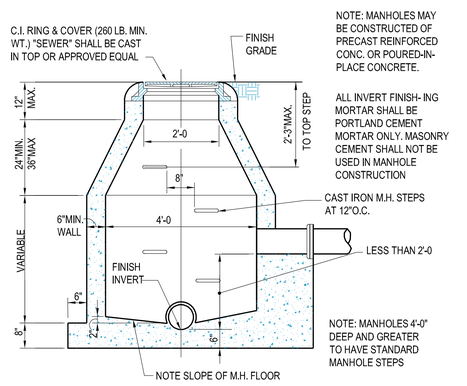

10 SANITARY SEWER MANHOLE DETAIL
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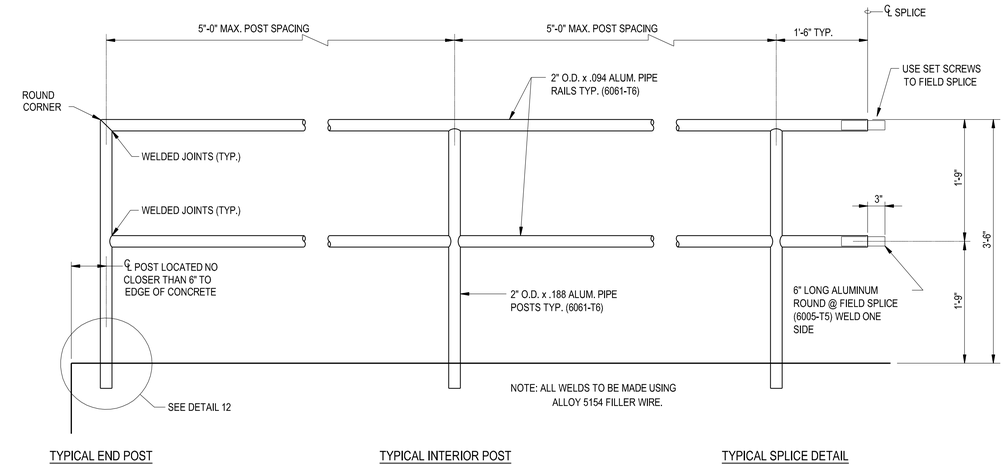
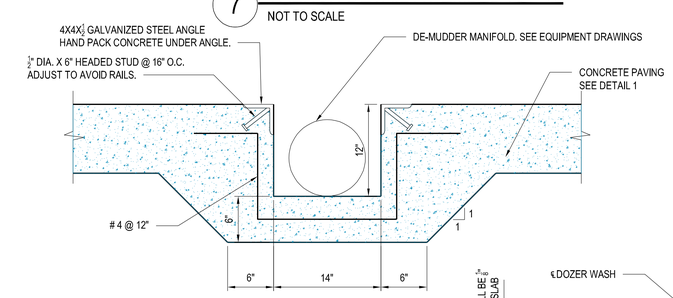


TYPICAL END POST TYPICAL INTERIOR POST TYPICAL SPLICE DETAIL

11 GUARDRAIL DETAIL
NOT TO SCALE



8 TRENCH DETAIL
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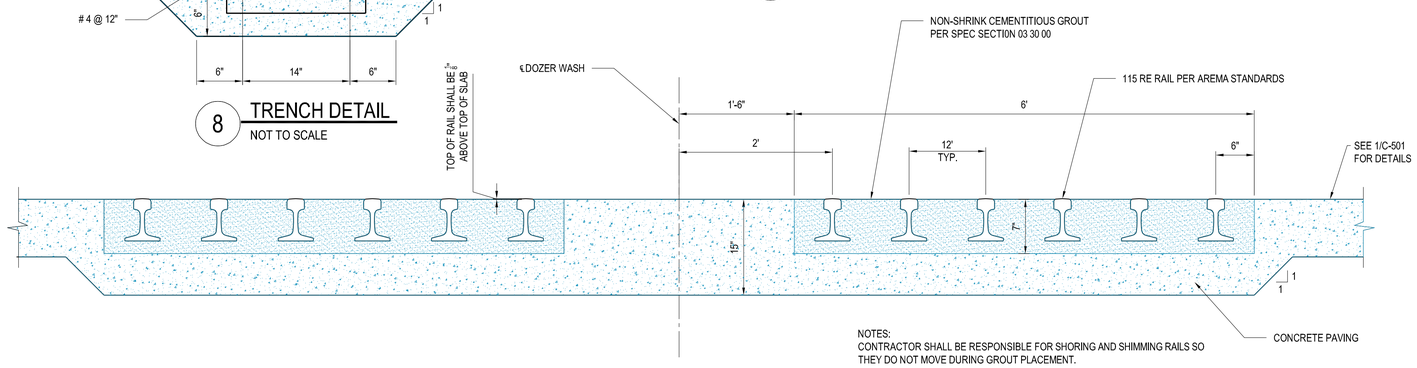

9 SLAB RAIL EMBEDMENT
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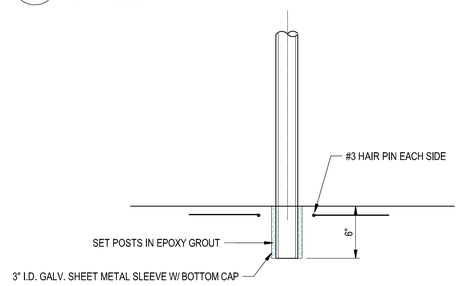

12 GUARDRAIL POST EMBEDDMENT DETAIL
NOT TO SCALE

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LITTLE ROCK, ARKANSAS

Design Phase

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Revisions

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CERTIFICATE OF AUTHORIZATION — CROMWELL ARCHITECTS/ ENGINEERS #5 — ARKANSAS ENGINEER

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 19907 — CHARLES WISE — 02-06-2023

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Project Number **2023-143**

Issue Date **02-06-2023**

Sheet Title **SITE DETAILS**

Sheet Number **C-501**

ABBREVIATIONS

(NOT ALL ABBREVIATIONS USED)

#XX	NUMBER
A.F.F.	ABOVE FINISHED FLOOR
ADD'L	ADDITIONAL
ADJ	ADJACENT
ARCH.	ARCHITECTURAL
B.F.F.	BELOW FINISHED FLOOR
BLDG.	BUILDING
BOT	BOTTOM
BTWN	BETWEEN
C	STANDARD CHANNEL
CFS	COLD-FORMED STEEL
CJ	CONTROL/ CONSTRUCTION/ CONTRACTION JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTER LINE
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONT.	CONTINUOUS
D.B.	DECK BEARING
DBA	DEFORMED BAR ANCHOR
DIA	DIAMETER
DTL	DETAIL
E.F.	EACH FACE
EA.	EACH
ELEV.	ELEVATION
EW	EACH WAY
EXIST.	EXISTING
EXP.	EXPANSION
FF	FINISHED FLOOR
FLR	FLOOR
FS	FAR SIDE
FTG	FOOTING
G.C.	GENERAL CONTRACTOR
GA.	GAUGE
GALV.	GALVANIZED
H.S.	HIGH STRENGTH
HORIZ.	HORIZONTAL
HSS	ROUND, SQUARE, OR RECTANGULAR STRUCTURAL TUBING
ID	INSIDE DIAMETER
JT.	JOINT
K or k	KIP (1,000 LBS)
KCJ	KEYED CONTROL JOINT
KSI	KIPS PER SQUARE INCH
L	ANGLE
LBS	POUNDS
LF	LINEAL FOOT
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSL	LONG SLOTTED HOLES
MANUF.	MANUFACTURER
MATL.	MATERIAL
MAX.	MAXIMUM
MC	MISCELLANEOUS CHANNEL
MECH.	MECHANICAL
MIN.	MINIMUM
MISC	MISCELLANEOUS
N.T.S.	NOT TO SCALE
NS	NEAR SIDE
Ø	DIAMETER
O.C.	ON CENTER
OD	OUTSIDE DIAMETER
OPP	OPPOSITE
P.J.	PANEL JOINT
PAF	POWDER ACTUATED FASTENER
PL	PLATE
PLBG	PLUMBING
PSF	POUNDS PER SQ FOOT
PSI	POUNDS PER SQ INCH
REINF.	REINFORCEMENT
REQD.	REQUIRED
SC	SLIP CRITICAL
SECT.	SECTION
SHT.	SHEET
SIM.	SIMILAR
SJ	SAWN JOINT
SPA.	SPACE
SQ	SQUARE
SSL	SHORT SLOTTED HOLES
STD.	STANDARD
T&B	TOP AND BOTTOM
T.O.F.	TOP OF FOOTING
T.O.S.	TOP OF STEEL or TOP OF SLAB
T.O.W.	TOP OF WALL
TC	TENSION CONTROL
THRU	THROUGH
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	
OR V	VERTICAL
VSC	VERTICAL SLIDING CLIP
W	WIDE FLANGE
W.W.R.	WELDED WIRE REINF.
w/	WITH
WP	WORK POINT
WT	TEE SHAPE MADE FROM W SHAPE
X/S-YYY	SECTION/DETAIL "X" ON SHEET "S-YYY"
XX#	POUNDS
ZRC	ZINC BASE PAINT

STRUCTURAL DESIGN CRITERIA

BUILDING CODE: 2021 ARKANSAS FIRE PREVENTION CODE (BASED ON 2021 IBC)

RISK CATEGORY (2021 IBC TABLE 1604.5): II

GRAVITY LOADS (REFERENCE: 2021 IBC & ASCE 7-16):

DEAD LOADS:		UNIFORM
	FLOOR:	100 PSF
	ROOF:	20 PSF
	COLLATERAL	5 PSF
TRUCK WASH FLOOR LIVE LOADS:		FRONT AXLE REAR AXLE GVRW
	GARBAGE TRUCK (WIDTH: 98", WHEEL BASE: 197")	16,000 LBS 46,000 LBS 62,000 LBS
ROOF LIVE LOADS:		20 PSF (NON-REDUCIBLE)
RAIN LOADS:		
	15 MINUTE DURATION / 100 YR RETURN PERIOD i15 = 6.54 IN./H	
	60 MINUTE DURATION / 100 YR RETURN PERIOD i60 = 3.32 IN./H	
SNOW LOADS:		
	GROUND SNOW LOAD	Pg = 10 PSF
	FLAT ROOF SNOW LOAD	Pf = 8.4 PSF
	SLOPED ROOF SNOW LOAD	Ps = 8.4 PSF
	SNOW LOAD IMPORTANCE FACTOR	Is = 1.0
	SNOW EXPOSURE FACTOR	Ce = 1.0
	THERMAL FACTOR	Ct = 1.0

LATERAL LOADS (REFERENCE: 2021 IBC & ASCE 7-16):

WIND:		
	ULTIMATE WIND SPEED	Vult = 105 MPH
	NOMINAL WIND SPEED	Vasd = 81.3 MPH
	TERRAIN EXPOSURE	C
	INTERNAL PRESSURE COEFFICIENTS (TRUCK WASH)	+/- 0.18
	INTERNAL PRESSURE COEFFICIENTS (DOZER WASH)	0.00 (OPEN STRUCTURE)
SEISMIC:		
	SEISMIC IMPORTANCE FACTOR	Ie = 1.00
	MAPPED SPECTRAL RESPONSE ACCELERATIONS	Ss = 0.353
		S1 = 0.144
	SITE CLASS	C
	DESIGN SPECTRAL RESPONSE ACCELERATIONS	SDS = 0.306
		SD1 = 0.144
	SEISMIC DESIGN CATEGORY	C
	SEISMIC FORCE RESISTING SYSTEM	(From ASCE 7 Table 12.2-1)
	DESIGN BASE SHEAR	V = 0.102W
	SEISMIC RESPONSE COEFFICIENT	Cs = 0.102
	RESPONSE MODIFICATION COEFFICIENT	R = 3
	ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
	NON-STRUCTURAL COMPONENT	
	IMPORTANCE FACTOR	Ip = 1.00

SYSTEMS AND COMPONENTS REQUIRING SPECIAL INSPECTION: SEE SPECIFICATION SECTION 014533

STRUCTURAL DESIGN APPROACH:

THE STRUCTURE CONSISTS OF A METAL BUILDING SYSTEM SUPPORTED ON SHALLOW FOUNDATIONS. LATERAL LOAD RESISTING SYSTEM FOR THE METAL BUILDING SYSTEM IS RIGID FRAMES IN ONE DIRECTION AND PORTAL FRAMES IN THE OTHER. TIE BEAMS TO RESIST THE THRUST OF THE METAL BUILDING SYSTEM ARE LOCATED IN THE FOOTINGS TO BE ABLE TO PASS BELOW THE TRENCH DRAIN IN THE MIDDLE OF THE SLAB. COLUMN FOOTINGS ARE DESIGNED FOR THE ECCENTRICITY FROM THE POINT OF APPLICATION OF THE THRUST TO THE TIE BEAM ELEVATION.

STRUCTURAL GENERAL NOTES

A. CONTRACTOR DELEGATED DESIGN COMPONENTS:

1. THE FOLLOWING ITEMS ARE NOTED AS A DELEGATED DESIGN COMPONENT AND SHALL BE DESIGNED BY THE CONTRACTOR. THE CONTRACTOR SHALL EMPLOY A SPECIALTY STRUCTURAL ENGINEER LICENSED IN THE STATE OF ARKANSAS TO DESIGN THE FOLLOWING ITEMS:
   a. METAL BUILDING SYSTEMS
2. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR EACH DELEGATED DESIGN COMPONENT. ALL STRUCTURAL DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY THE SPECIALTY STRUCTURAL ENGINEER. THE DRAWINGS SHALL BE REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR AND THE DESIGN ENGINEER PRIOR TO SUBMITTAL. INCOMPLETE SHOP DRAWINGS AND SHOP DRAWINGS THAT HAVE NOT BEEN REVIEWED BY THE CONTRACTOR AND THE SPECIALTY STRUCTURAL ENGINEER WILL BE RETURNED WITHOUT REVIEW BY THE ARCHITECT/ENGINEER.
3. THE CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL DELEGATED DESIGN COMPONENTS AND THEIR ACCESSORIES WITH OTHER TRADES TO AVOID CONFLICTS, e.g., JOIST BRIDGING AND FIRE SUPPRESSION SYSTEMS.

B. SPECIAL INSPECTIONS:

1. QUALIFIED INSPECTORS SHALL CONDUCT SPECIAL INSPECTIONS AND TESTS AND FURNISH REPORTS AS SPECIFIED IN SECTION 014533 AND IN ACCORDANCE WITH CHAPTER 17, INTERNATIONAL BUILDING CODE.
2. THE CONTRACTOR SHALL COORDINATE THE SPECIAL INSPECTIONS AND TESTING SERVICES WITH THE PROGRESS OF THE WORK, PROVIDE THE APPROPRIATE DOCUMENTATION AND PERFORM OTHER TASKS AS SPECIFIED IN SECTION 014533.
3. CONSTRUCTION THAT REQUIRES CONTINUOUS INSPECTION PER SECTION 014533 CAN NOT PROGRESS WITHOUT INSPECTORS PRESENT.
4. THE CONTRACTOR IS RESPONSIBLE FOR ALL OTHER INSPECTIONS OR TESTS IN THE SPECIFICATIONS, NOT LISTED IN THE SCHEDULE OF SPECIAL INSPECTION SERVICES IN SECTION 014533.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF REPAIR, REINSPECTION AND RETESTING FOR ITEMS THAT DO NOT PASS THE INSPECTIONS OR TESTS.
6. SPECIAL INSPECTION SERVICES DO NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR COMPLIANCE WITH OTHER CONSTRUCTION DOCUMENT REQUIREMENTS OR REGULATORY REQUIREMENTS.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF DEMOLITION, RECONSTRUCTION, INSPECTION AND TESTING OF ANY WORK COMPLETED WITHOUT INSPECTION AND TESTING AS SPECIFIED IN SECTION 014533.

C. STABILITY DURING CONSTRUCTION, SHORING, & TEMPORARY STRUCTURES:

1. PERMANENT STABILITY OF THE BUILDING AND COMPONENTS IS NOT PROVIDED UNTIL ALL THE STRUCTURAL ELEMENTS ARE INSTALLED AS SHOWN ON THE CONTRACT DRAWINGS.
2. PROVIDE STABILITY TO ALL NON-SELF SUPPORTING ELEMENTS UNTIL PERMANENT STRUCTURAL SUPPORTS ARE INSTALLED. PROVIDE BRACING, SHORING, AND/OR TEMPORARY STRUCTURES AS REQUIRED IN ORDER TO SATISFY THE CONTRACT REQUIREMENTS.
3. PROVIDE ALL BRACING NECESSARY TO STABILIZE THE BUILDING DURING THE ERECTION PROCESS. BRACING SHALL BE DESIGNED AND INSTALLED SUCH THAT IT DOES NOT TWIST OR DISTORT MEMBERS. BRACING SHALL BE DESIGNED FOR LOADS AS REQUIRED BY APPLICABLE CODES. THE DESIGN OF THE BRACING SHALL TAKE INTO ACCOUNT FORCES DUE TO THERMAL EXPANSION AND CONTRACTION OF THE BUILDING FRAME AND BRACES.
4. ANCHOR RODS FOR STEEL COLUMNS ARE NOT DESIGNED TO STABILIZE STRUCTURE BY PROVIDING FIXITY OF THE COLUMN BASE. PROVIDE TEMPORARY BRACING FOR STABILITY DURING THE ERECTION PHASE UNTIL ALL LATERAL LOAD RESISTING ELEMENTS ARE IN PLACE AND WELDING AND/OR BOLTING INSPECTIONS ARE COMPLETE.
5. COMPLY WITH ALL APPLICABLE OSHA SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION.

D. RENOVATIONS AND ADDITIONS TO EXISTING BUILDINGS:

1. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT/ENGINEER IF THE EXISTING CONDITIONS AND DIMENSIONS ARE DIFFERENT FROM THOSE INDICATED OR SHOWN ON THE CONTRACT DRAWINGS. INCORPORATE NECESSARY CHANGES INTO THE CONTRACT DOCUMENTS.
2. SCHEDULE AND COORDINATE WORK TO PREVENT DAMAGE TO THE BUILDING OUTSIDE THE LIMITS OF THE CONTRACT. REPAIR AT NO ADDITIONAL COST TO THE OWNER ANY DAMAGE CAUSED BY THE CONSTRUCTION.
3. INSTALL PIPING, CONDUIT, ETC. WITHIN THE EXISTING STRUCTURE AND UNDER THE EXISTING FLOOR SLAB/STRUCTURE AS SHOWN ON THE CONTRACT DOCUMENTS UNLESS SHOWN OTHERWISE, ESTABLISH THE METHOD OF INSTALLATION AND REPAIR AND REPLACEMENT OF THE FLOOR STRUCTURE INCLUDING THE SLAB ON GRADE.
4. FIELD VERIFY SIZES AND LAYOUT OF EXISTING STRUCTURAL MEMBERS NOTED ON THE STRUCTURAL DRAWINGS. NOTIFY ARCHITECT/ENGINEER IF SIZES OR LAYOUT DIFFERS. INCORPORATE NECESSARY CHANGES INTO THE CONTRACT DOCUMENTS.
5. DO NOT OVER CUT OPENINGS IN EXISTING CONCRETE WALLS. SAW TO EDGE OF OPENING WITH A CIRCULAR CONCRETE SAW & REMOVE PORTION LEFT WITH CHAIN SAW TYPE CONCRETE SAW OR SIMILAR.

STRUCTURAL GENERAL NOTES CONTINUED

E. GENERAL REQUIREMENTS:

1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH DRAWINGS RELATING TO OTHER TRADES. CHECK AND COORDINATE DIMENSIONS, CLEARANCES, OPENINGS, PIPE SLEEVES, CURBS, ETC. WITH THE WORK OF OTHER TRADES.
2. WORK NOT INDICATED ON A PART OF THE DRAWING BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
3. DETAILS DESIGNATED AS "TYPICAL" APPLY TO ALL AREAS WHERE THE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE DETAIL.
4. THE PLANS AND DETAILS IN THE CONTRACT DRAWINGS SHALL NOT BE REVISED WITHOUT PRIOR APPROVAL BY THE ARCHITECT/ENGINEER.
5. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS.
6. PRINCIPAL OPENINGS THROUGH THE FRAMING ARE SHOWN ON THESE DRAWINGS. EXAMINE THE DRAWINGS FOR REQUIRED OPENINGS AND PROVIDE FOR ALL OPENINGS WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT. VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ALL SUB-CONTRACTORS. PIPE SLEEVES THROUGH THE DECK WILL NOT REQUIRE ADDITIONAL FRAMING UNLESS THE DIAMETER EXCEEDS 10".
7. SPLICING OF STRUCTURAL MEMBERS WHERE NOT DETAILED IS PROHIBITED WITHOUT PRIOR APPROVAL OF ARCHITECT/ENGINEER. IF APPROVED, ADDITIONAL TESTING AND INSPECTION SHALL BE AS SPECIFIED BY THE ARCHITECT/ENGINEER AND PAID FOR BY THE CONTRACTOR.
8. NO CHANGE IN SIZE OR POSITION OF THE STRUCTURAL ELEMENTS SHALL BE MADE: HOLES, SLOTS, CUTS, ETC., ARE NOT PERMITTED THROUGH ANY MEMBER UNLESS THEY ARE DETAILED ON THE APPROVED SHOP DRAWINGS.
9. LOADINGS FOR MECHANICAL ROOMS ARE BASED ON THE WEIGHTS OF ASSUMED EQUIPMENT AS INDICATED ON THE MECHANICAL DRAWINGS (INCLUDING THE WEIGHT OF CONCRETE PADS, WHERE INDICATED). ANY CHANGES IN TYPE, SIZE, OR NUMBER OF PIECES OF EQUIPMENT SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR VERIFICATION OF THE ADEQUACY OF SUPPORTING MEMBERS PRIOR TO THE PLACEMENT OF SUCH EQUIPMENT.
10. ENSURE THAT ALL CONSTRUCTION LOADS DO NOT EXCEED THE DESIGN LIVE LOADS INDICATED ON THE STRUCTURAL DRAWINGS AND THAT THESE LOADS ARE NOT PUT ON THE STRUCTURAL MEMBERS PRIOR TO THE TIME THAT THE CONCRETE REACHES THE FULL DESIGN STRENGTH AND ALL FRAMING MEMBERS AND THEIR CONNECTIONS ARE IN PLACE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE ADEQUACY OF ELEVATED SLABS AND SLABS ON GRADE FOR SUPPORTING ALL CONSTRUCTION EQUIPMENT, INCLUDING AREAL LIFTS.

F. SHOP DRAWINGS:

1. SUBMIT SHOP DRAWINGS FOR REVIEW BY THE ARCHITECT/ENGINEER FOR THE FOLLOWING ITEMS. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS:
   a. CONCRETE REINFORCING STEEL
      1. INDICATE ALL REINFORCING STEEL IN FOUNDATIONS AND SLABS ON GRADE,
      2. INDICATE ALL HORIZONTAL, VERTICAL, AND TIE REINFORCING
      3. INDICATE TYPE AND LOCATION OF ALL REINFORCING STEEL SPLICES
2. SUBMIT OTHER SHOP DRAWINGS FOR REVIEW BY ARCHITECT/ENGINEER AS REQUIRED BY PROJECT SPECIFICATIONS.
3. DETAILS FOR SOME SPECIAL CONDITIONS WILL NEED TO BE DEVELOPED BY THE DETAILER DURING THE DETAILING PROCESS. FINAL REVIEW OF THE DETAILS WILL BE AT THE DISCRETION OF THE ENGINEER OF RECORD. NO ADDITIONAL CHARGES FOR MAKING CORRECTIONS, CHANGES, OR ADDITIONS TO THE SHOP DRAWINGS ("RE-DETAILING COST") WILL BE ALLOWED. CONTRACTOR SHALL MAKE PROVISIONS FOR DETAILING CORRECTIONS AND MISCELLANEOUS MATERIAL IN THE BID PRICE. ADJUSTMENTS TO THE CONTRACT WILL ONLY BE MADE FOR CHANGE ORDERS APPROVED PRIOR TO THE COMMENCEMENT OF ANY ACTION ON THE CHANGES.
4. ALL SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR / CONSTRUCTION MANAGER PRIOR TO SUBMITTAL. INCOMPLETE SHOP DRAWINGS AND SHOP DRAWINGS THAT HAVE NOT BEEN REVIEWED BY THE CONTRACTOR WILL BE RETURNED WITHOUT REVIEW BY THE ARCHITECT/ENGINEER.
5. VERIFY AND COORDINATE ALL DIMENSIONS AND ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS. IN CASE OF CONFLICTS, THE ARCHITECT/ENGINEER IS TO BE NOTIFIED AND WILL PROVIDE THE CORRECT ELEVATIONS AND DIMENSIONS FOR WHICH SHALL BE INCORPORATED INTO THE SHOP DRAWINGS AT NO EXTRA COST.

G. EARTHWORK:

1. FOUNDATION DESIGN IS BASED ON SOIL INVESTIGATION AND REPORT BY GTS, Inc. (JOB NO.: 23-55031).
2. FOUNDATION DESIGN IS BASED ON THE FOLLOWING MINIMUM NET ALLOWABLE BEARING PRESSURE:
   a. CONTINUOUS FOOTINGS: 2.0 KSF
   b. INDIVIDUAL PAD FOOTINGS: 2.5 KSF
   ALL FOUNDATION BEARING CONDITIONS SHALL BE VERIFIED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.
3. BOTTOM OF FOUNDATION ELEVATIONS ARE GIVEN FOR BIDDING PURPOSES ONLY. ALL FOUNDATIONS SHALL BE FOUNDED A MINIMUM OF 18 INCHES BELOW EXISTING GRADE IN TESTED AND APPROVED, STIFF TO VERY STIFF LEAN CLAY OR SELECT FILL.
4. THE SITE SHALL BE STRIPPED A MINIMUM OF 1'-0", PROOF ROLLED, COMPACTED FILL PLACED, AND EXCAVATED AS REQUIRED FOR FOUNDATION. SEE SPECIFICATION DIVISION 31 FOR EARTHWORK REQUIREMENTS.
5. EXISTING FILL WAS ENCOUNTERED AT A DEPTH OF ABOUT 3.5 FEET BELOW EXISTING GRADE WITHIN THE PLANNED BUILDING FOOT PRINT. ALL EXISTING FILL SHALL BE UNVERCUT AND REPLACED WITH NEW COMPACTED SELECT FILL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
6. AFTER STIPPING OF SURFACE MATERIALS, REMOVING ANY SURFACE OR SUBSURFACE STRUCTURES AND COMPLETING CUTS NECESSARY FOR GRADING AND THE RECOMMENDED UNDERCUTS AND BEFORE PLACING ANY NEW FILL, THE EXPOSED SUBGRADE MATERIALS SHALL BE OBSERVED AND EVALUATED BY THE GEOTECHNICAL ENGINEER. THE EXPOSED SOILS SHALL ALSO BE PROOFROLLED WITH A LOADED, TANDEM-AXEL DUMP TRUCK WEIGHING AT LEAST 25 TONS.
7. AFTER PROOFROOLLING ANY UNSTABLE OR UNSUITABLE SOILS, THE SUBGRADE SOILS SHALL BE SCARIFIED A MINIMUM DEPTH OF 9 INCHES, MOISTURE CONDITIONED AND COMPACTED AS RECOMMENDED IN THE GEOTECHNICAL REPORT.
8. SHALLOW SYENITE BEDROCK WAS ENCOUNTERED IN SEVERAL BORINGS AT OR NEAR THE BUILDING FOOTPRINT. ROCK EXCAVATION MAY BE REQUIRED. REFER TO THE GEOTEHCNICAL REPORT FOR ADDITIONAL INFORMATION.
9. TAKE ADEQUATE MEASURES TO ALLOW FOR WORKING SURFACE DURING CONSTRUCTION OF FOUNDATIONS AND SLAB-ON-GRADE, SUCH AS GRAVEL BED OF ADEQUATE DEPTH, ETC.
10. PROVIDE EARTH RETENTION SYSTEMS AND TEMPORARY BRACING OR SHORING (INCLUDING UNDERPINNING) AS REQUIRED TO SUPPORT EXCAVATIONS AND TO PROTECT EXISTING STRUCTURES DURING CONSTRUCTION. TRENCHING AND EXCAVATIONS SHALL MEET ALL OSHA REQUIREMENTS.
11. WATER ACCUMULATION IS ANTICIPATED IN FOOTING EXCAVATIONS; PROVIDE DRAINAGE OF EXCAVATIONS FROM SURFACE WATER AND SEEPAGE. EXCAVATIONS SHALL BE DRAINED OR PUMPED DRY BEFORE POURING CONCRETE.
12. PROTECT ALL UTILITY LINES, ETC. ENCOUNTERED DURING EXCAVATION AND BACKFILLING.
13. NO BACKFILLING SHALL BE DONE AGAINST FOUNDATION WALLS AND GRADE BEAMS UNTIL CONCRETE HAS ATTAINED ITS FULL DESIGN STRENGTH. BEFORE BACKFILLING, PROVIDE BRACING FOR WALLS OR GRADE BEAMS SUSTAINING MORE THAN 3'-0" OF EARTH PRESSURE. THIS BRACING SHALL REMAIN IN PLACE UNTIL SLAB ON GRADE AND/OR FLOOR SLAB HAVE BEEN PLACED AND CURED.
14. IN NO CASE SHALL BULLDOZERS OR OTHER HEAVY EQUIPMENT BE PERMITTED CLOSER THAN 8'-0" FROM ANY FOUNDATION WALL.
15. BACKFILL AROUND PIPES, PITS, CONDUITS, ETC. UNDER FLOOR SLABS ON DONNA FILL WITH PEA GRAVEL AND WELL GRADED SAND. PROVIDE A MINIMUM OF 12" COVERAGE ALL SIDES.

H. CONCRETE AND REINFORCING STEEL:

1. THE DESIGN OF THE CONCRETE STRUCTURE IS BASED ON ACI 318-19 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
2. CAST IN PLACE CONCRETE SHALL HAVE THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS (f'c):

COMPONENT	COMPRESSIVE STRENGTH
FOOTINGS	3500 PSI
SLABS ON GRADE AND TURNDOWNS	4500 PSI

   SEE SPECIFICATION SECTION 033000 FOR ADDITIONAL MIX DESIGN REQUIREMENTS.
3. ALL DEFORMED REINFORCING STEEL SHALL BE A615 GRADE 60 STEEL, U.N.O.
4. ALL CONCRETE WORK SHALL CONFORM TO THE LATEST ACI CODE AND ACI DETAILING MANUAL.
5. MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE:

CONCRETE CAST AGAINST EARTH:	3"
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#5 BARS AND SMALLER:	1 ½"
#6 BARS AND LARGER:	2"
SLABS, WALLS, AND JOISTS:	1"
BEAMS AND COLUMNS:	1 ½"

6. ALL CONCRETE CONSTRUCTION AND MATERIALS SHALL BE PLACED ACCORDING TO ACI 117 TOLERANCES.
7. ALL CONCRETE REINFORCING STEEL SHALL BE SPLICED USING TENSION SPLICES:
   a. UNLESS NOTED OTHERWISE, LAP SPLICE ALL CONCRETE REINFORCING STEEL:

BARS #6 AND SMALLER:	48 BAR DIAMETERS
BARS #7 AND LARGER:	60 BAR DIAMETERS

   b. ONLY APPROVED MECHANICAL SPLICE SYSTEMS SHALL BE USED TO PROVIDE TENSION SPLICES. MECHANICAL SPLICES SHALL DEVELOP 125% OF THE YIELD STRENGTH OF THE BAR.
8. ALL CONCRETE REINFORCING SHALL BE SPLICED WHERE DETAILED ON THE DRAWINGS. UNLESS NOTED OTHERWISE:
   a. LAP GRADE BEAM AND WALL TOP REINFORCEMENT AT CENTER OF SPAN.
   b. LAP GRADE BEAM AND WALL BOTTOM REINFORCEMENT AT SUPPORT.
   c. STAGGER ALL TENSION LAP SPLICE LOCATIONS.
9. TERMINATE CONTINUOUS BARS AT NON-CONTINUOUS END WITH STANDARD HOOKS.
10. PROVIDE CORNER BARS IN ALL CONCRETE MEMBERS AT INTERSECTIONS. MATCH SIZE AND SPACING OF HORIZONTAL BARS IN THOSE MEMBERS.
11. AT COMPOSITE SLAB CONSTRUCTION REINFORCING BARS SHALL BE ADDED IN THE TOP OF THE SLAB CENTERED OVER, AND PERPENDICULAR TO ALL STEEL GIRDERS AND AROUND COLUMNS AS INDICATED IN THE TYPICAL DETAILS. GIRDERS ARE DEFINED AS STEEL BEAMS SUPPORTING OTHER (ONE OR MORE) BEAMS OR JOISTS.
12. ALL REINFORCING STEEL SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. ADDITIONAL BARS OR STIRRUPS SHALL BE PROVIDED AS REQUIRED TO FURNISH SUPPORT FOR ALL REINFORCING STEEL.
13. PROVIDE SUPPORT FOR ALL CONCRETE REINFORCING (INCLUDING SLABS ON GRADE AND ELEVATED COMPOSITE SLABS) AS REQUIRED TO MAINTAIN CLEAR COVER DIMENSIONS. SPACING SHALL NOT EXCEED 3'-0".
14. SUBMIT DRAWINGS SHOWING INTENDED POURING SEQUENCE AND LOCATION OF CONSTRUCTION JOINTS TO THE ARCHITECT/ENGINEER FOR APPROVAL.
15. HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. HORIZONTAL OR NEAR HORIZONTAL JOINTS SHALL BE PREPARED BY ROUGHENING THE SURFACE IN AN APPROVED MANNER SO THAT THE AGGREGATE IS EXPOSED UNIFORMLY, LEAVING NO LAITANCE, LOOSENED PARTICLES, OR DAMAGED CONCRETE.
16. PIPES OR CONDUITS PLACED IN FOUNDATIONS AND SLABS SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS ON CENTERS. PIPES AND CONDUITS PLACED IN SLAB SHALL NOT HAVE AN OUTSIDE DIAMETER LARGER THAN 1/3 OF SLAB THICKNESS. ALUMINUM CONDUITS SHALL NOT BE PLACED IN CONCRETE. NO CONDUIT SHALL BE PLACED WITHIN 24" OF COLUMN FACE.
17. LOCATION OF SLOTTED INSERTS, WELD PLATES AND ALL OTHER ITEMS TO BE EMBEDDED IN CONCRETE SHALL BE COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
18. REINFORCING BARS SHALL NOT BE WELDED.
19. VERIFY DIMENSIONS AND LOCATIONS OF ALL OPENINGS, PIPE SLEEVE CURBS, ETC., AS REQUIRED BY OTHER TRADES BEFORE CONCRETE IS PLACED.
20. AGGREGATE FOR CONCRETE SHALL NOT CONTAIN LIGNITE, STEEL, OR OTHER MATERIALS THAT MAY BE DETRIMENTAL TO THE CONCRETE. ALKALI-SILICA REACTIVE (ASR) AGGREGATES ARE NOT ALLOWED
21. MAXIMUM TOLERANCE FOR SLAB EDGES IS 1/2" +/- EXCEPT WHERE TIGHTER TOLERANCE IS REQUIRED FOR ARCHITECTURAL REASONS.
22. CONCRETE SHALL BE PLACED AND CURED IN ACCORDANCE WITH THE SPECIFICATIONS. WHEN THE AIR TEMPERATURE IS OVER 85 DEGREES FOLLOW THE RECOMMENDATIONS OF ACI 305R. WHEN THE AIR TEMPERATURE IS BELOW 40 DEGREES FOLLOW THE RECOMMENDATIONS OF ACI 306R.

J. METAL BUILDING SYSTEMS:

1. THE METAL BUILDING SYSTEM MANUFACTURER SHALL BE IAS AC472 ACCREDITED AND A MEMBER OF MBMA.
2. THE METAL BUILDING SYSTEM MANUFACTURER SHALL:
   a. DESIGN THE METAL BUILDING SYSTEM FOR THE LOADS AND DESIGN CRITERIA SHOWN ON THE PLANS AND IN SPECIFICATIONS.
   b. DESIGN THE BUILDING FOR A MAXIMUM DRIFT OF H/250 UNDER THE NOMINAL WIND SPEED INDICATED UNDER THE STRUCTURAL DESIGN CRITERIA. SEISMIC DRIFT SHALL BE LIMITED BASED ON ASCE 7 ASSUMING ACCOMMODATIONS FOR STORY DRIFTS HAVE NOT BEEN INCORPORATED INTO THE DESIGN. COLUMN BASES SHALL BE ASSUMED TO BE PINNED CONDITION.
   c. CHECK THE FOUNDATION DESIGN LOADS SHOWN ON THE DRAWINGS AND NOTIFY THE ARCHITECT/ENGINEER IF ANY OF THE LOADS FROM THE BUILDING WILL EXCEED THE LOADS SHOWN ON THE DRAWINGS.
3. DO NOT CONSTRUCT FOUNDATIONS UNTIL THE ARCHITECT/ENGINEER HAS APPROVED THE METAL BUILDING SYSTEM SUBMITTAL AND MADE ANY NECESSARY CHANGES TO THE FOUNDATION DRAWINGS.
4. PLACE AND SECURE ANCHOR RODS IN FOOTING EXCAVATION PRIOR TO POURING CONCRETE FOR FOOTING. DO NOT PLACE ANCHOR RODS IN WET CONCRETE.
5. ALL WELDING SHALL BE PERFORMED BY WELDERS CERTIFIED BY AWS TO PERFORM THE WELDING IN ACCORDANCE WITH AWS.
6. FINAL BOLTING OR WELDING SHALL NOT BE PERFORMED UNTIL THE STRUCTURE HAS BEEN PROPERLY ALIGNED.
7. DESIGN METAL BUILDING SYSTEM AND PROVIDE NECESSARY FRAMING TO SUPPORT ALL EQUIPMENT SHOWN TO ATTACH TO THE STRUCTURE IN ANY DISCIPLINES DRAWINGS IN THIS SET OF DOCUMENTS.

K. POST-INSTALLED ANCHORS IN CONCRETE OR MASONRY:

1. POST-INSTALLED ANCHORS (MECHANICAL OR ADHESIVE) SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS OR DOWELS. POST-INSTALLED ANCHORS SHALL BE BUILDING CODE COMPLIANT, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND INSPECTED PER THE APPLICABLE ICC-ES OR IAPMO UES EVALUATION REPORT.

CROMWELL

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Project

City of LITTLE ROCK

CITY OF LITTLE ROCK

LANDFILL TRUCK WASH

LITTLE ROCK, ARKANSAS

Design Phase

CONSTRUCTION DOCUMENTS

Revisions

No.	Date	Description

Stamp

CROMWELL ARCHITECTS ENGINEERS #5 CERTIFICATE OF AUTHORIZATION ARKANSAS ENGINEER

STATE OF ARKANSAS DAVID TAYLOR CLEMENT REGISTERED PROFESSIONAL ENGINEER No. 15642

02-06-2024

Notes

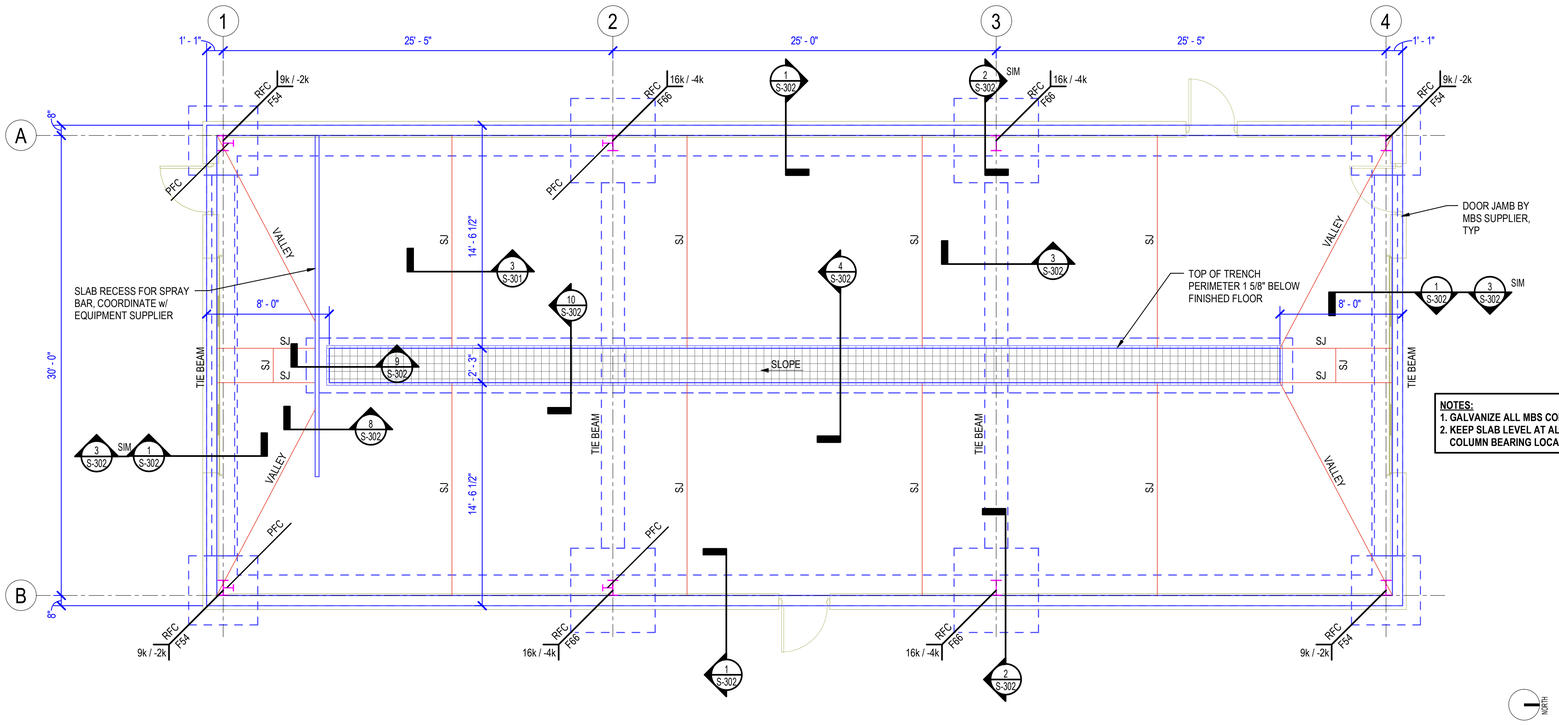
1. **CROMWELL ARCHITECTS ENGINEERS, INC. ALL RIGHTS RESERVED**
2. **THIS SHEET DESIGNED FOR COLOR PRINTING. CRITICAL INFORMATION MAY BE LOST WITH BLACK AND WHITE PRINTING.**

Project Number **2023-143**

Issue Date **02-06-2024**

Sheet Title **GENERAL NOTES**

Sheet Number **S-001**

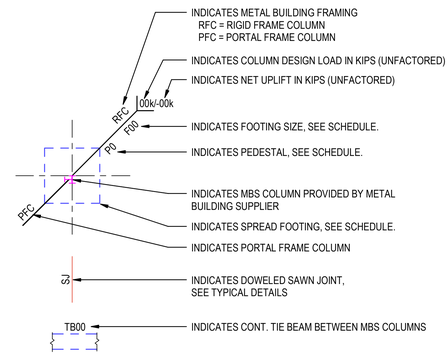


1 FOUNDATION AND SLAB PLAN - TRUCK WASH
1/4" = 1'-0"

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

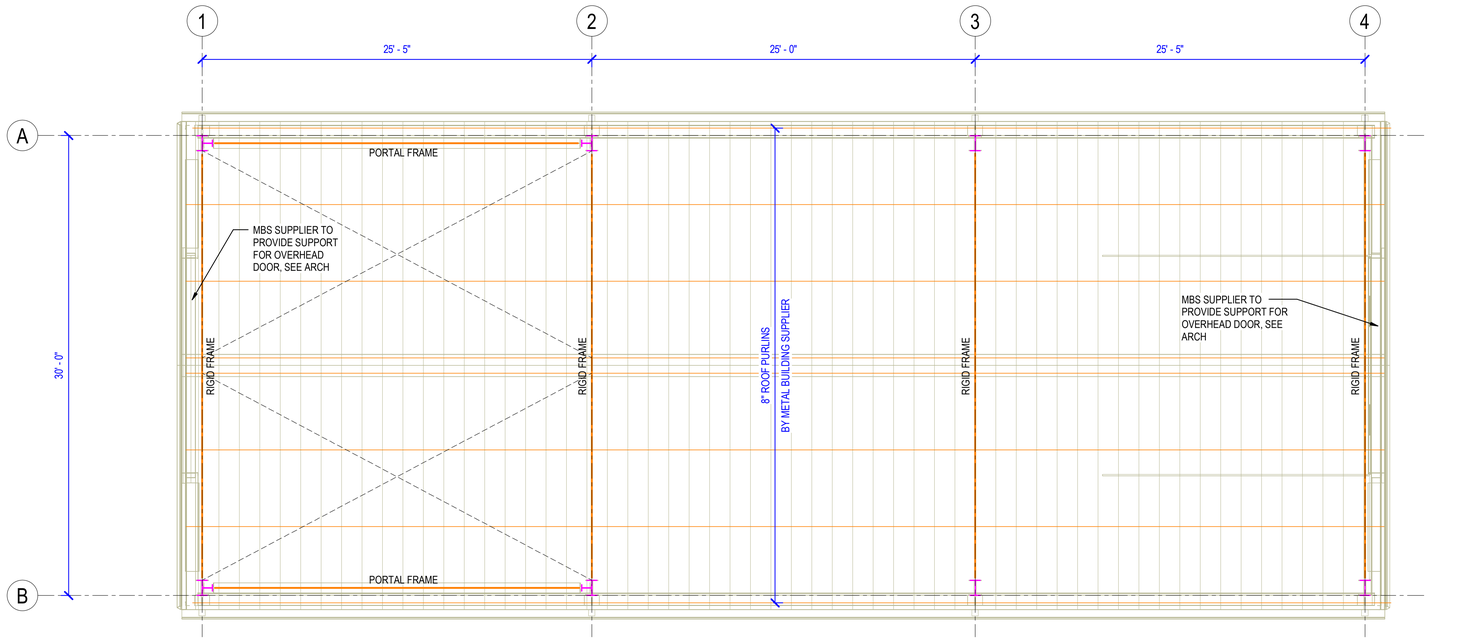
NOTES:
1. GALVANIZE ALL MBS COMPONENTS.
2. KEEP SLAB LEVEL AT ALL MBS COLUMN BEARING LOCATIONS.

FOUNDATION AND SLAB LEGEND



FOOTING SCHEDULE

MARK	SIZE	REINFORCING (TYP U.N.O.)
F54	4'-6"x4'-6" x 2'-0"	#5 AT 12" O.C. EA WAY, T&B
F66	5'-6"x5'-6" x 2'-0"	#5 AT 12" O.C. EA WAY, T&B
P1	1'-4"x1'-4" x 2'-6"	FOR REINF, SEE 6/S-302
P2	2'-0"x1'-4" x 2'-6"	FOR REINF, SEE 7/S-302



2 ROOF FRAMING PLAN - TRUCK WASH
1/4" = 1'-0"

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

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Project

City of LITTLE ROCK

CITY OF LITTLE ROCK
LANDFILL TRUCK WASH
LITTLE ROCK, ARKANSAS

Design Phase
CONSTRUCTION DOCUMENTS

Revisions

No.	Date	Description

Stamp

CROMWELL ARCHITECTS ENGINEERS #5 CERTIFICATE OF AUTHORIZATION ARKANSAS ENGINEER

STATE OF ARKANSAS DAVID TAYLOR CROMWELL PROFESSIONAL ENGINEER No. 15642
02-06-2024

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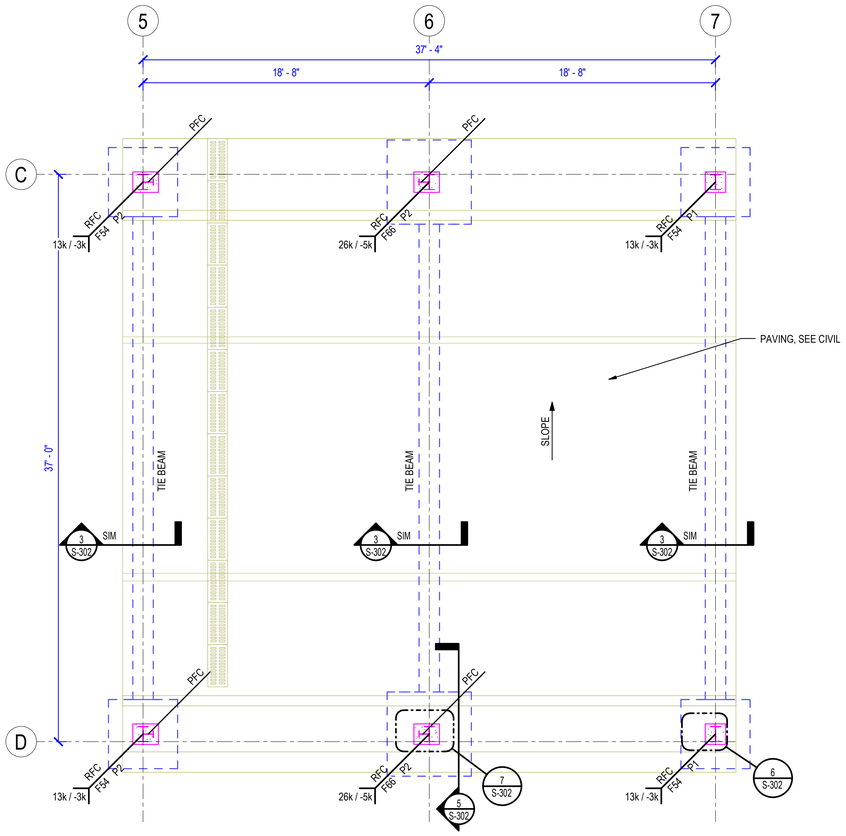
Project Number **2023-143**

Issue Date **02-06-2024**

Sheet Title
FOUNDATION, SLAB, AND ROOF FRAMING PLAN

Sheet Number
S-101



NOTES:
1. SEE S-101 FOR LEGEND, FOOTING SCHEDULE, AND NOTES.
2. GALVANIZE ALL MBS COMPONENTS

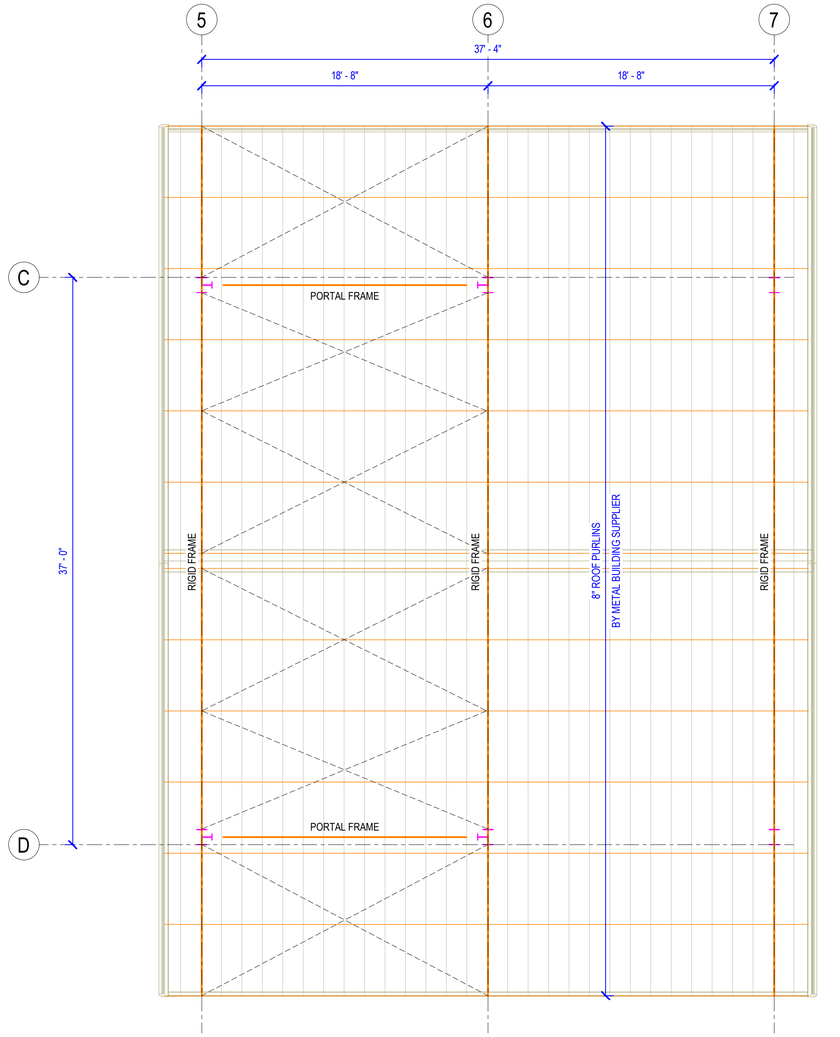
1 FOUNDATION PLAN - DOZER WASH

1/4" = 1'-0"

NORTH

0 2 4 8

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



2 ROOF FRAMING PLAN - DOZER WASH

1/4" = 1'-0"

NORTH

0 2 4 8

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

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City of LITTLE ROCK

CITY OF LITTLE ROCK

LANDFILL TRUCK WASH

LITTLE ROCK, ARKANSAS

Design Phase

CONSTRUCTION DOCUMENTS

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ARKANSAS ENGINEER

STATE OF ARKANSAS
DAVID TAYLOR CLEMENT
LICENSED PROFESSIONAL ENGINEER
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02-06-2024

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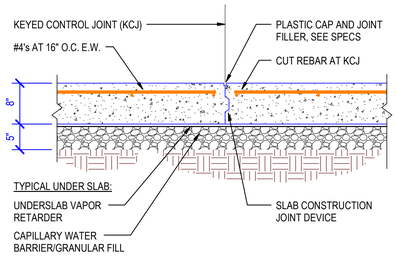
Issue Date **02-06-2024**

Sheet Title

FOUNDATION AND ROOF FRAMING PLAN

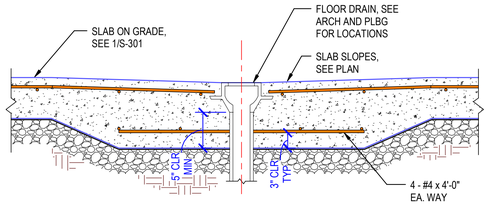
Sheet Number

S-102

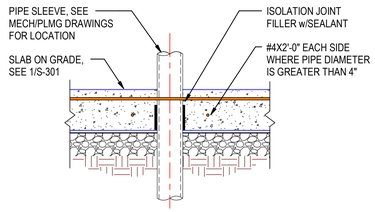


KCJ (KEYED CONSTRUCTION JOINT)

1 TYP SLAB ON GRADE REINF AND JOINT DETAIL
NOT TO SCALE

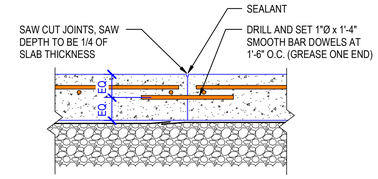


A FLOOR DRAIN AT SLOPED SLAB

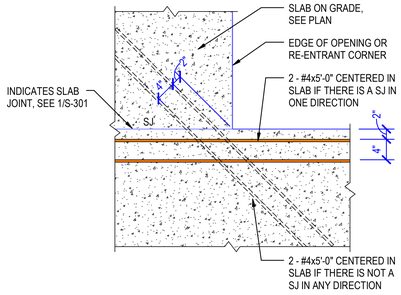


B MECH/PLMG PIPE THROUGH SLAB

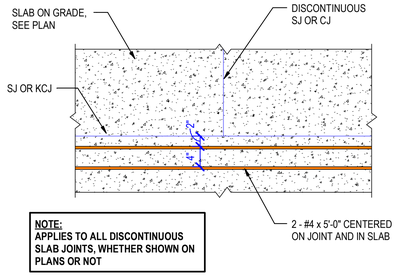
2 TYP SLAB ON GRADE PENETRATION DETAILS
NOT TO SCALE



3 TYPICAL DOWELED SAWN JOINT
NOT TO SCALE

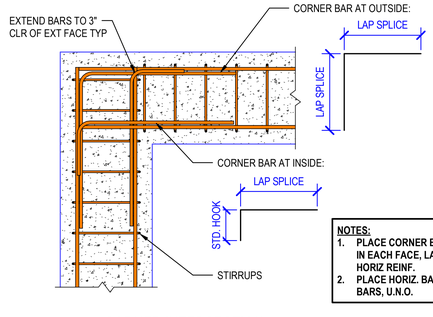


4 TYP SLAB OPENINGS AND REENTRANT CORNERS
NOT TO SCALE



NOTE:
APPLIES TO ALL DISCONTINUOUS SLAB JOINTS, WHETHER SHOWN ON PLANS OR NOT

5 TYP DISCONTINUOUS SLAB JOINT DETAIL
NOT TO SCALE

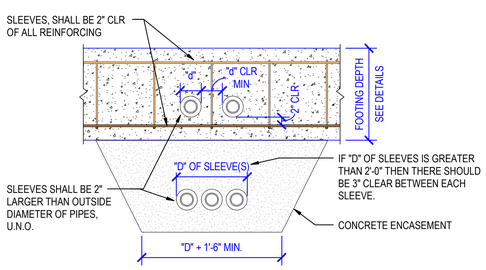


NOTES:
1. **PLACE CORNER BAR REINFORCING IN EACH FACE, LAP SPLICE w/ HORIZ REINF.**
2. **PLACE HORIZ. BARS OUTSIDE VERT BARS, U.N.O.**

CORNER INTERSECTION

6 TYP GRADE BEAM INTERSECTION REINFORCEMENT DETAIL
NOT TO SCALE

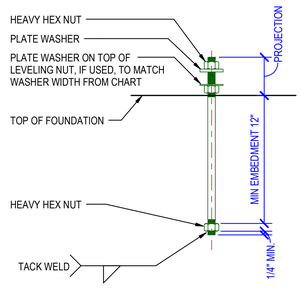
NOTES:
1. **PIPE SLEEVES SHALL BE PVC, CAST IRON, OR GALV. STEEL.**
2. **COORD. PIPE SLEEVE LOCATIONS w/ MECH. ELEC. AND PLMG.**
3. **THE NOMINAL SLEEVE DIAMETER SHALL NOT BE GREATER THAN 1/4 OF THE FOOTING DEPTH. THICKEN FOOTING AS REQUIRED.**
4. **SLEEVES SHALL BE 2" CLEAR FROM TOP REINF.**
5. **SEAL EACH SIDE OF SLEEVES AROUND PIPE.**



PIPES THROUGH OR BELOW FOOTING

7 TYP HORIZONTAL PENETRATIONS THRU CONT FOOTINGS
NOT TO SCALE

NOTE:
ALL ANCHOR RODS FOR RIGID FRAME COLUMNS SHALL BE 3/4" DIA



8 TYP ANCHOR ROD DETAIL
NOT TO SCALE

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City of LITTLE ROCK

CITY OF LITTLE ROCK
LANDFILL TRUCK WASH
LITTLE ROCK, ARKANSAS

Design Phase
CONSTRUCTION DOCUMENTS

Revisions

No.	Date	Description

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CERTIFICATE OF AUTHORIZATION CROMWELL ARCHITECTS/ ENGINEERS #5 ARKANSAS ENGINEER

STATE OF ARKANSAS DAVID TAYLOR CLEMENT Registered Professional ENGINEER No. 15642
02-06-2024

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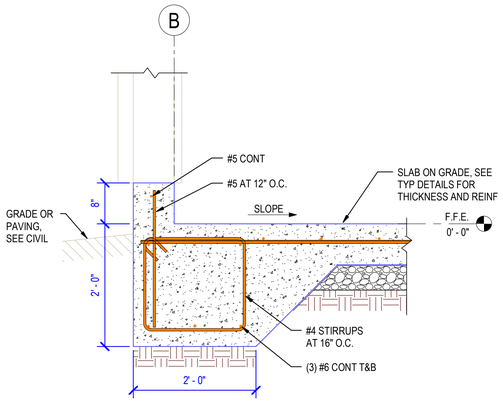
Project Number **2023-143**

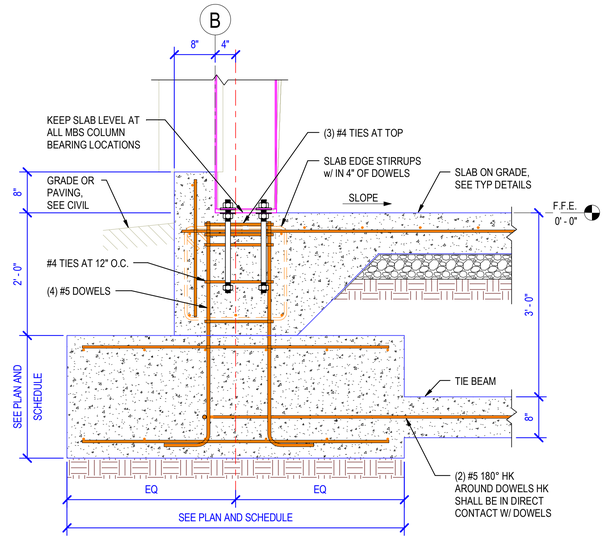
Issue Date **02-06-2024**

Sheet Title
FOUNDATION SECTIONS AND DETAILS

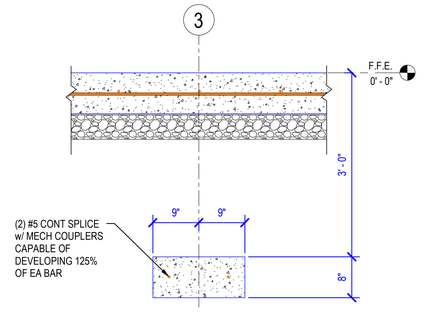
Sheet Number
S-301



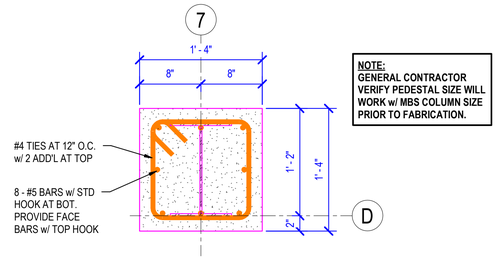
1 TYP TRUCK WASH SLAB EDGE
1" = 1'-0"



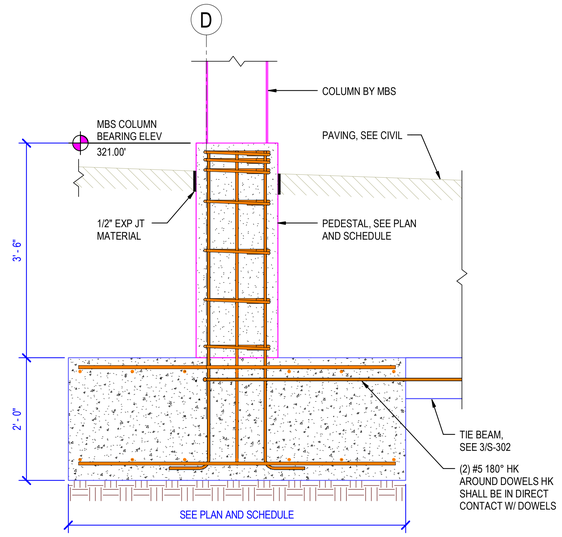
2 FOOTING DETAIL AT TRUCK WASH TURNDOWN
1" = 1'-0"



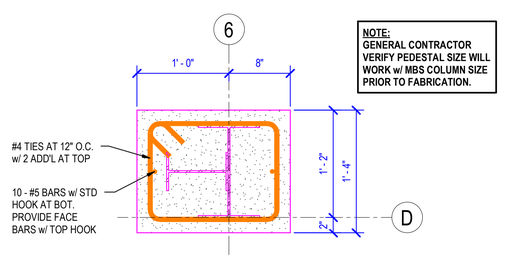
3 TIE BEAM
1" = 1'-0"



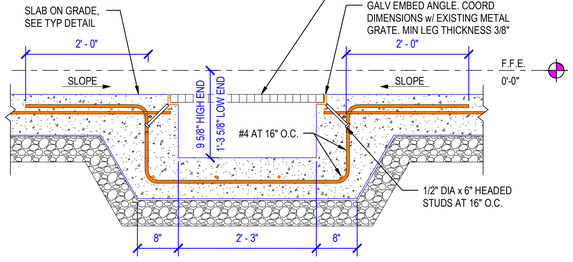
6 DOZER WASH P1 PEDESTAL
1 1/2" = 1'-0"



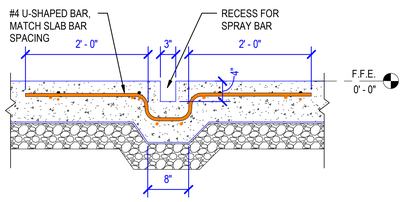
5 FOOTING DETAIL AT DOZER WASH PEDESTAL
1" = 1'-0"



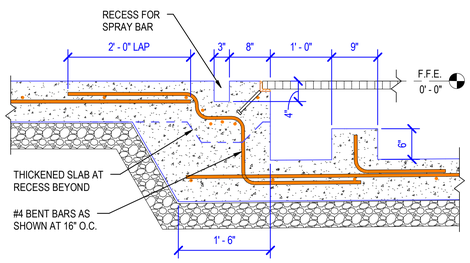
7 DOZER WASH P2 PEDESTAL
1 1/2" = 1'-0"



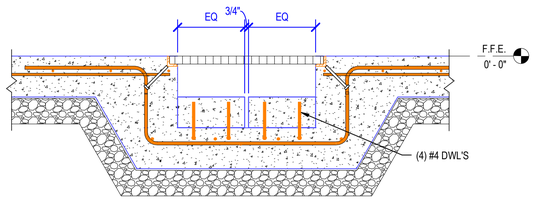
4 TRUCK WASH TRENCH DETAIL
1" = 1'-0"



8 SLAB RECESS FOR SPRAY BAR
1" = 1'-0"



9 SLAB RECESS FOR SPRAY BAR AT TRENCH
1" = 1'-0"



10 SECTION AT WEIR IN TRENCH
1" = 1'-0"

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City of LITTLE ROCK

CITY OF LITTLE ROCK

LANDFILL TRUCK WASH

LITTLE ROCK, ARKANSAS

Design Phase

CONSTRUCTION DOCUMENTS

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No.	Date	Description

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Project Number **2023-143**

Issue Date **02-06-2024**

Sheet Title

FOUNDATION SECTIONS AND DETAILS

Sheet Number

S-302

NOTE:
REFER TO CIVIL FOR SITE REQUIREMENTS. THIS PLAN IS FOR ILLUSTRATION PURPOSES ONLY.

1 ARCH. SITE PLAN
1" = 20'-0"

NORTH

0 10 20 40
SCALE : 1" = 20'

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LANDFILL TRUCK WASH

LITTLE ROCK, ARKANSAS

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REGISTERED ARCHITECTS ENGINEERS INC. C-98 REGISTERED ARCHITECTS ARKANSAS

REGISTERED ARCHITECT EDWIN C. LEVY 2394 ARKANSAS
02-06-2024

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Project Number **2023-143**

Issue Date **02-06-2024**

Sheet Title **ARCH. SITE PLAN**

Sheet Number **AS101**

FLOOR PLAN GENERAL NOTES:

1. DIMENSIONS ARE TO FINISH FACE OF EXTERIOR WALLS AND FACE OF METAL PANEL AT INTERIOR WALLS, UNLESS NOTED OTHERWISE.
2. REFER TO ELECTRICAL DRAWINGS FOR ALL ELECTRICAL ITEMS, CONTRACTOR SHALL PROVIDE METAL BACKING FOR MOUNTING ALL ITEMS. COORDINATE EXACT LOCATION & HEIGHT WITH THE OWNER ON SITE. REFER TO ELECTRICAL DOCUMENTS FOR ADDITIONAL REQUIREMENTS. REFER TO ELECTRICAL FOR DEMOLITION OF EXISTING ITEMS.
3. REFER TO CIVIL FOR CONCRETE SITE PAVING, (C.J.) - CONSTRUCTION JOINTS & (E.J.) - EXPANSION JOINTS.
4. REFER TO CS101 FOR BUILDING SITE LOCATION & CONCRETE CURBS.
5. ALL TRUCK WASH EQUIPMENT IS INDICATED ON THE FLOOR PLAN IN RED COLOR IS BY WHITING SYSTEMS.
6. ALL EXISTING EQUIPMENT AND PIPING (HVAC, PLUMBING, ELECTRICAL FIRE PROTECTION, ETC.) IN THE EXISTING BUILDING TO BE REMOVED ENTIRELY.
7. POWER WASH / CLEAN THE INTERIOR AND EXTERIOR OF THE EXISTING BUILDING.
8. PAINT THE INTERIOR WALLS AND CONCRETE CEILING AT THE EXISTING BUILDING. USE EPOXY PAINT AND COLOR TO BE WHITE.
9. VERIFY THE OPERATION OF THE EXISTING OVERHEAD DOORS. REPAIR AS REQUIRED. PROVIDE NEW DOOR WEATHER SEALS AT THE BOTTOM OF THE EXISTING OVERHEAD DOORS. CLEAN AND EPOXY PAINT EXISTING OHD.
10. CLEAN AND EPOXY PAINT EXISTING PERSONAL DOOR & FRAME.
11. CLEAN, TUCK-POINT & SEAL CMU AT THE EXTERIOR OF THE EXISTING BUILDING.
12. EXISTING CONCRETE ROOF - CLEAN AND SEAL & INSTALL SEALANT AT EXISTING JOINTS.
13. POWER WASH / CLEAN THE EXISTING CONCRETE FLOOR.
14. REMOVED DAMAGED PLYWOOD AND INSTALL NEW PLYWOOD AT EXISTING OPENING IN CMU AND PAINT TO MATCH EXISTING COLOR.
15. CAULK AND SEAL AROUND EXISTING LOUVER OPENING.
16. REUSE EXISTING TRENCH DRAIN GRATES. VERIFY EXISTING NUMBER OF 27" WIDE GRATES.
17. REFER TO PLUMBING DRAWINGS FOR NEW PLUMBING ITEMS.
18. REFER TO PLUMBING DRAWINGS FOR NEW HVAC ITEMS.

EXISTING RETENTION POND

GAS PUMPS BEYOND

CONCRETE DRAIN SLAB

PAINTED METAL SAFETY GUARDRAIL

PAINTED YELLOW PIPE BOLLARD

SLOPE DOWN 12" - 18" IN 40' - 0"

START CONC. DRAIN PAD 5" BELOW LOWEST SIDE OF DOZER WASH PAD

PORTAL FRAME

REFER TO WHITING SYSTEMS FOR EQUIP.

PAINTED YELLOW GRAPHICS

NEW GRAVEL ROAD

ENTER

IN

SLOPE CONCRETE PAD 5" IN 40' - 0"

DOZER WASH PAD - REFER TO CIVIL FOR RAILS IN CONCRETE SLAB

OUT

EXIT

NEW TRENCH GRATES - VERIFY SIZE AND LOCATION WITH EQUIPMENT

METAL BUILD. RIGID FRAME

PAINTED YELLOW PIPE BOLLARD

REMOVE EXISTING CONCRETE PAD

NEW CONC. SIDEWALK

REMOVE EXISTING TANK ON CONC. PAD

EXISTING FIRE HYDRANT

REFER TO WHITING SYSTEMS FOR EQUIP.

EXISTING CMU BUILDING

EXISTING OHD

EXISTING CONC. DRIVE

EXISTING EQ. BUILDING

EXISTING DOOR & FRAME TO REMAIN - CLEAN AND PAINT

ELECTRICAL PANELS - REFER TO ELEC.

EXISTING VACUUM CLEANER

EXIST. CONC. WALK

NEW CONC. SIDEWALK

SAWCUT AND REPAIR CONCRETE FLOOR AREA - COORDINATE WITH PLUMBING & WASH EQUIPMENT

GOOSENECK CONTROL PAD POST - VERIFY HEIGHT AND LOCATION WITH OWNER'S REPRESENTATIVE

CONCRETE SPLASH BLOCK & D.S.

NEW GRAVEL ROAD

PAINTED YELLOW PIPE BOLLARD

PORTAL FRAME

TRUCK WASH BUILDING 101

REFER TO WHITING SYSTEMS FOR EQUIPMENT

PAINTED YELLOW GRAPHICS

ENTER

IN

OUT

EXIT

27" WIDE TRENCH DRAIN VERIFY WIDTH REQUIRED FOR REMOVAL FOR CLEANING

NEW CONC. DRIVE

REUSE EXISTING TRENCH GRATES

PAINTED YELLOW PIPE BOLLARD

NEW CONC. SIDEWALK

GRAVEL DRIVE - REFER TO CIVIL

REFER TO WHITING SYSTEMS FOR EQUIP.

NEW CONC. DRIVE

EXISTING DRIVE

OVERALL LENGTH OF TRENCH DRAIN SHALL ALLOW FOR INSTALLATION OF EXISTING DRAIN GRATES WITHOUT REQUIRING MODIFICATIONS TO THE LENGTH OF THE GRATES. ALLOW ENOUGH SPACE BETWEEN GRATES SO THAT GRATES CAN BE EASILY REMOVED FOR CLEANING.

NOTE:
PROVIDE ADDITIONAL GRATES TO MATCH SALVAGED GRATES IF REQUIRED TO COVER ENTIRE LENGTH OF TRENCH DRAIN AS SHOWN.

CONCRETE SPLASH BLOCK & D.S.

NEW CONC. SIDEWALK

CONCRETE SPLASH BLOCK & D.S.

1 FLOOR PLAN
3/16" = 1'-0"

SCALE : 3/16" = 1'-0"

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CITY OF LITTLE ROCK

LANDFILL TRUCK WASH

LITTLE ROCK, ARKANSAS

Design Phase

CONSTRUCTION DOCUMENTS

Revisions

No.	Date	Description

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C-98 REGISTERED ARCHITECTS ARKANSAS

REGISTERED ARCHITECT EDWIN C. LEVY 2394 ARKANSAS

02-06-2024

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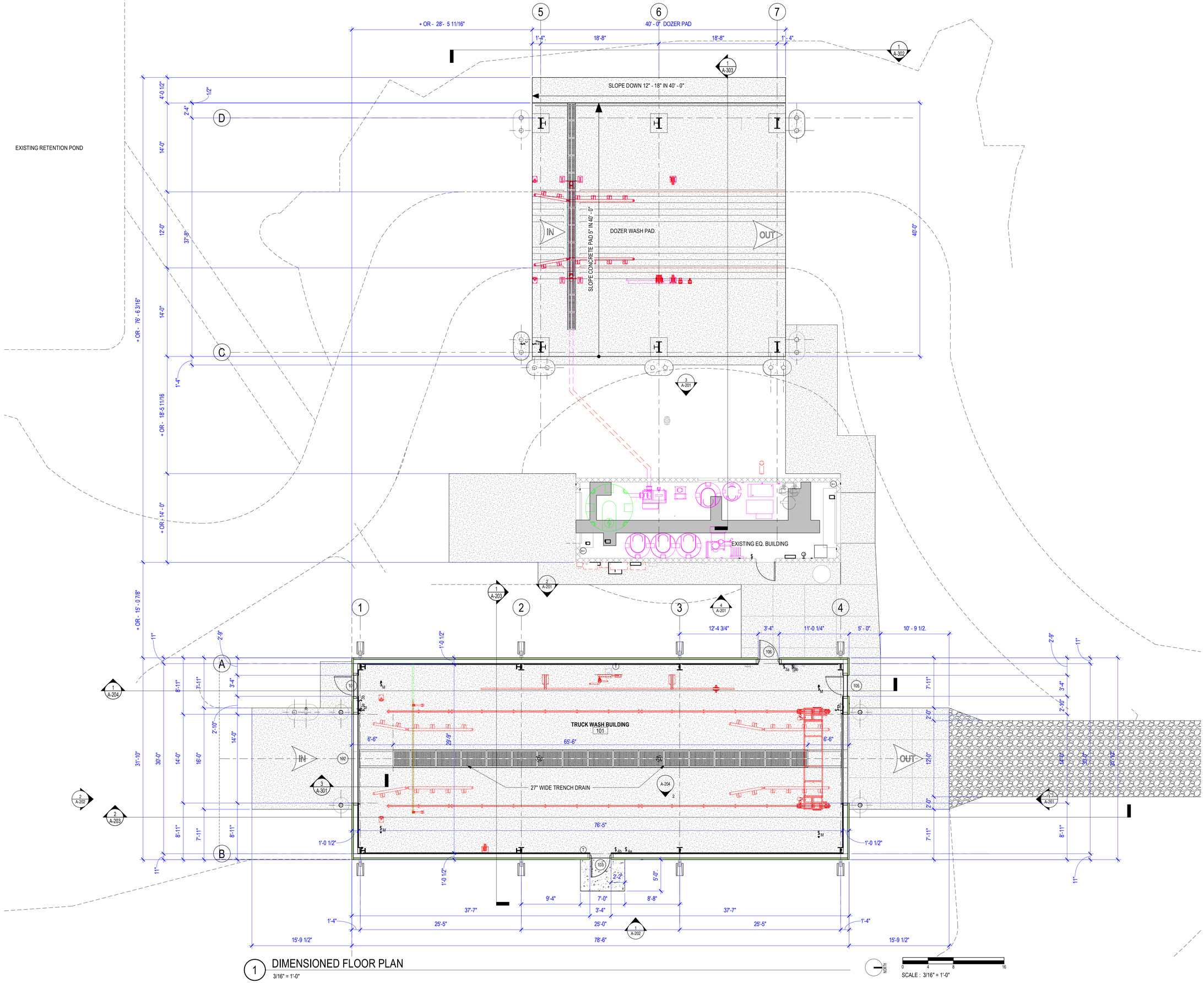
Project Number 2023-143

Issue Date 02-06-2024

Sheet Title FLOOR PLAN

Sheet Number A-101



1 DIMENSIONED FLOOR PLAN

3/16" = 1'-0"

NORTH

0 4 8 16

SCALE : 3/16" = 1'-0"

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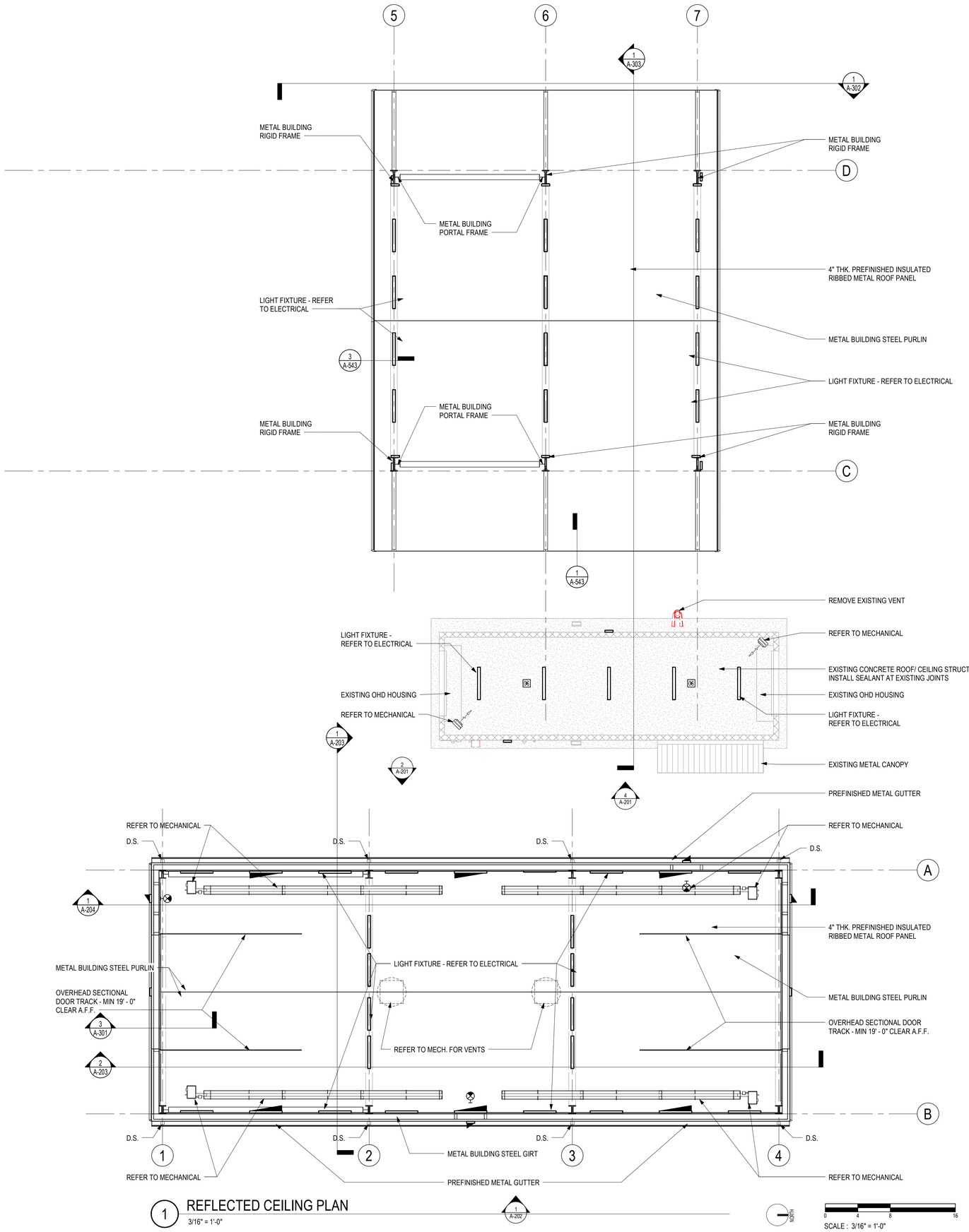
Issue Date **02-06-2024**

Sheet Title

DIMENSIONED FLOOR PLAN

Sheet Number

A-102



1 REFLECTED CEILING PLAN
3/16" = 1'-0"

1
A-202

NORTH

0 4 8 16

SCALE : 3/16" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES:

1. ALL EXISTING EQUIPMENT IN THE EXISTING BUILDING TO BE REMOVED.
2. POWER WASH / CLEAN THE INTERIOR AND EXTERIOR OF THE EXISTING BUILDING.
3. EPOXY PAINT THE INTERIOR WALLS AND CONCRETE CEILING AT THE EXISTING BUILDING.
4. REFER TO ELECTRICAL FOR LIGHTING.
5. REFER TO MECHANICAL FOR HEATING AND DUCTWORK.

SYMBOLS LEGEND

- LAY-IN ACOUSTICAL CEILING GRID
- GYP. BOARD CEILING - FINISH AS SCHEDULED
- LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
- EMERGENCY LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
- EMERGENCY LIGHT FIXTURE W/BATTERY PACK - SEE ELECTRICAL DRAWINGS
- CEILING MOUNTED EXIT LIGHT
- SUPPLY AIR GRILLE
- RETURN AIR GRILLE

REFER TO LIFE SAFETY, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION NOT SHOWN.

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Project

City of LITTLE ROCK

CITY OF LITTLE ROCK

LANDFILL TRUCK WASH

LITTLE ROCK, ARKANSAS

Design Phase

CONSTRUCTION DOCUMENTS

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No.	Date	Description

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ARCHITECTS ENGINEERS INC. C-98 REGISTERED ARCHITECTS ARKANSAS

REGISTERED ARCHITECT EDWIN C. LEVY 2394 ARKANSAS

02-06-2024

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Project Number **2023-143**

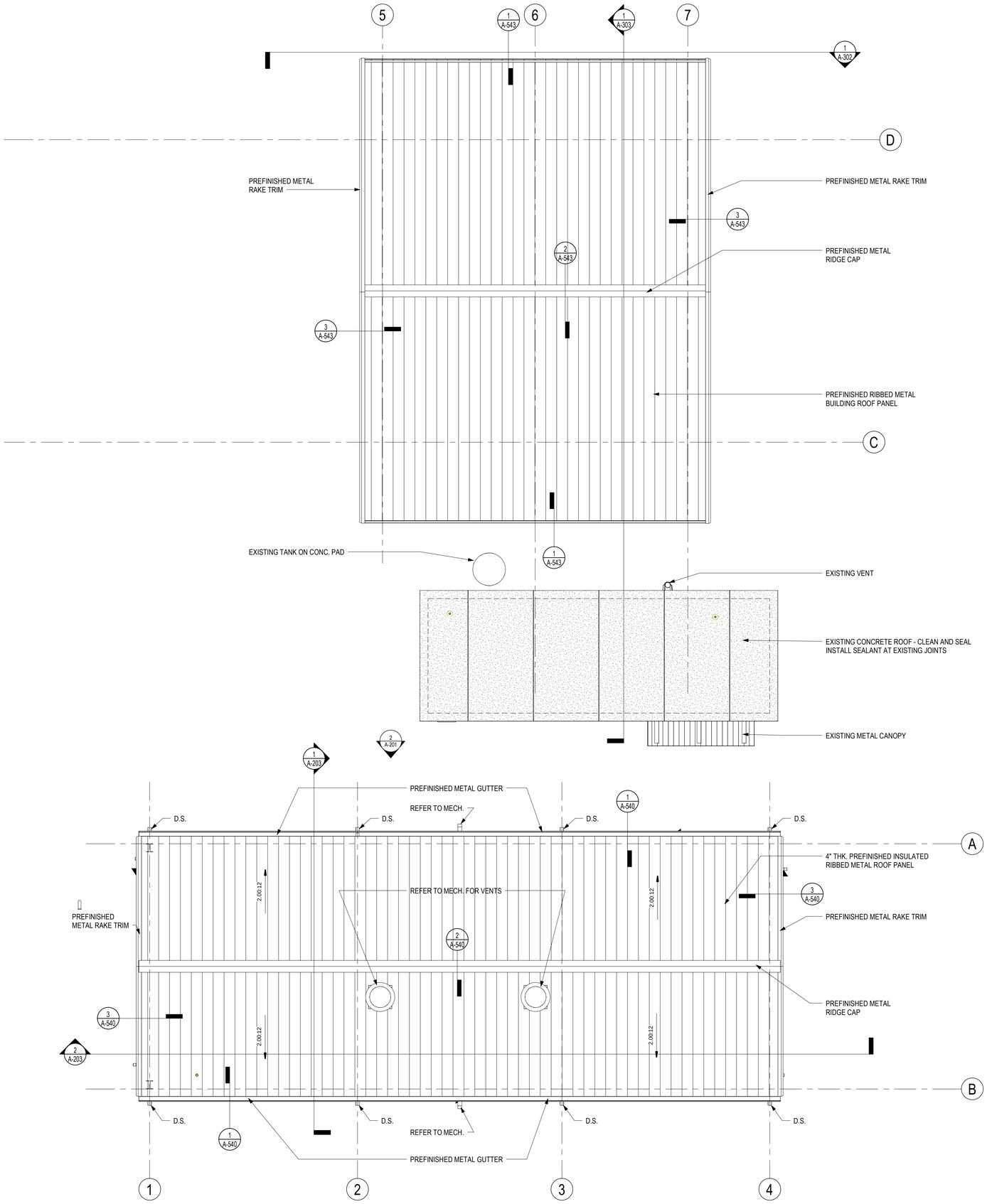
Issue Date **02-06-2024**

Sheet Title

FIRST FLOOR REFLECTED CEILING PLAN

Sheet Number

A-103



1 ROOF PLAN
3/16" = 1'-0"

NORTH

0 4 8 16
SCALE : 3/16" = 1'-0"

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City of LITTLE ROCK

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LITTLE ROCK, ARKANSAS

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ARKANSAS STATE BOARD OF ARCHITECTS ENGINEERS LANDSCAPE ARCHITECTS
C-98
REGISTERED ARCHITECTS
ARKANSAS

REGISTERED ARCHITECT
EDWIN C. LEVY
2394
ARKANSAS
02-06-2024

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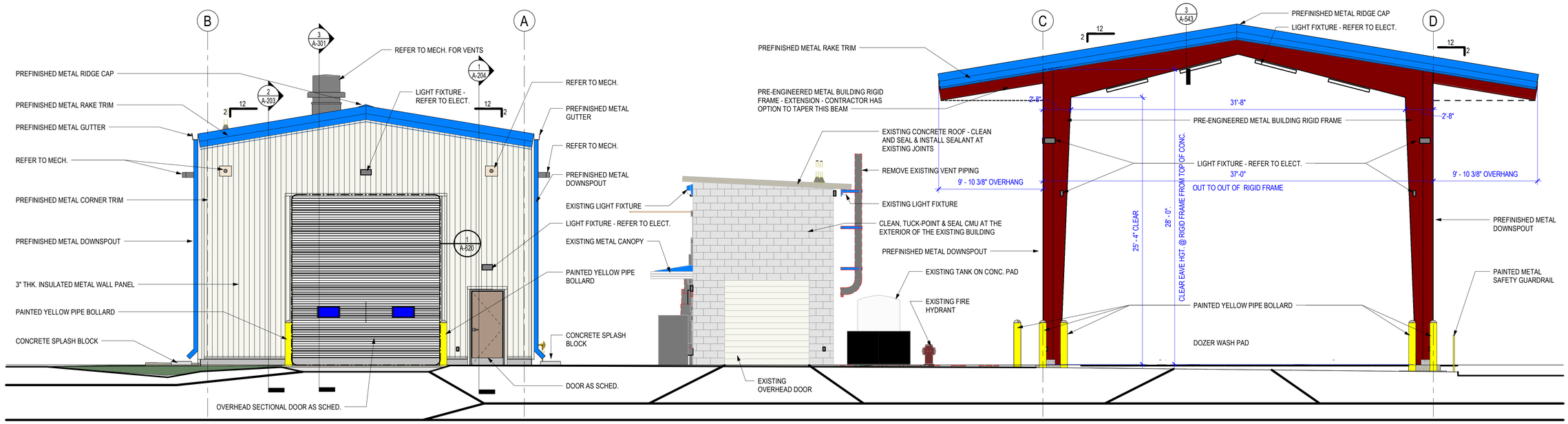
Project Number
2023-143

Issue Date
02-06-2024

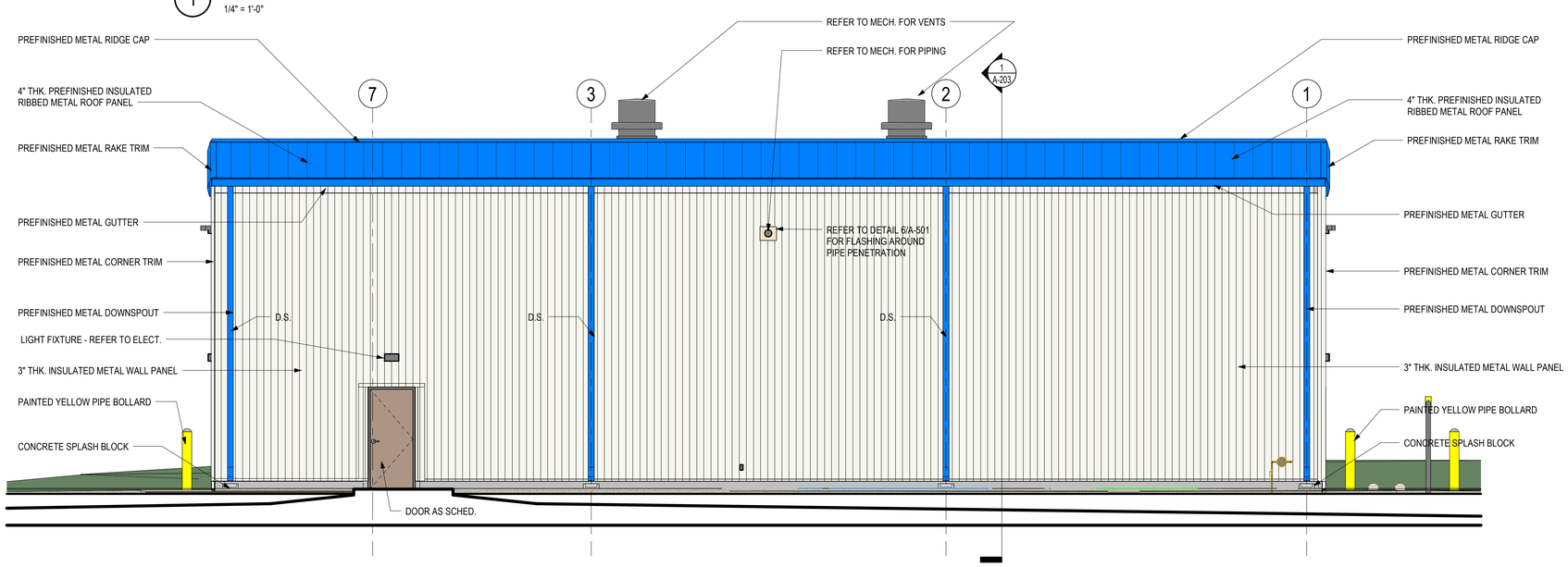
Sheet Title
ROOF PLAN

Sheet Number
A-104



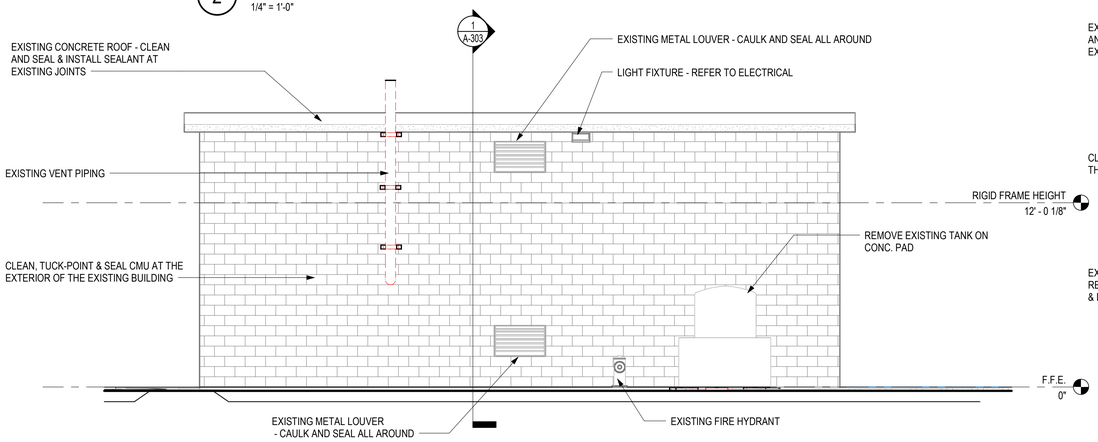
1 NORTH ELEVATION

1/4" = 1'-0"



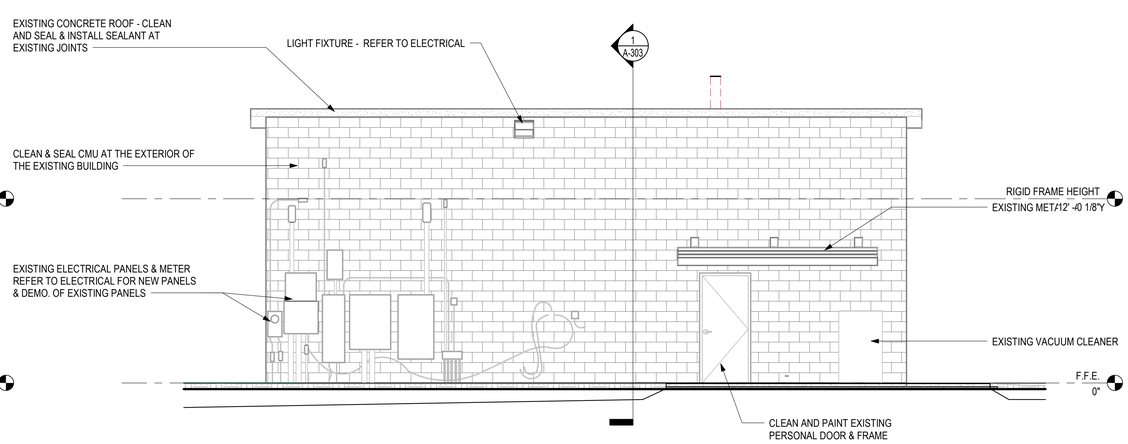
2 WEST ELEVATION

1/4" = 1'-0"



3 EAST ELEVATION @ EXISTING BUILDING

1/4" = 1'-0"



4 WEST ELEVATION @ EXISTING BUILDING

1/4" = 1'-0"

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City of LITTLE ROCK

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LANDFILL TRUCK WASH

LITTLE ROCK, ARKANSAS

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CENTRAL ARKANSAS ARCHITECTS ENGINEERS C-98 REGISTERED ARCHITECTS ARKANSAS

REGISTERED ARCHITECT EDWIN C. LEVY 2394 ARKANSAS

02-06-2024

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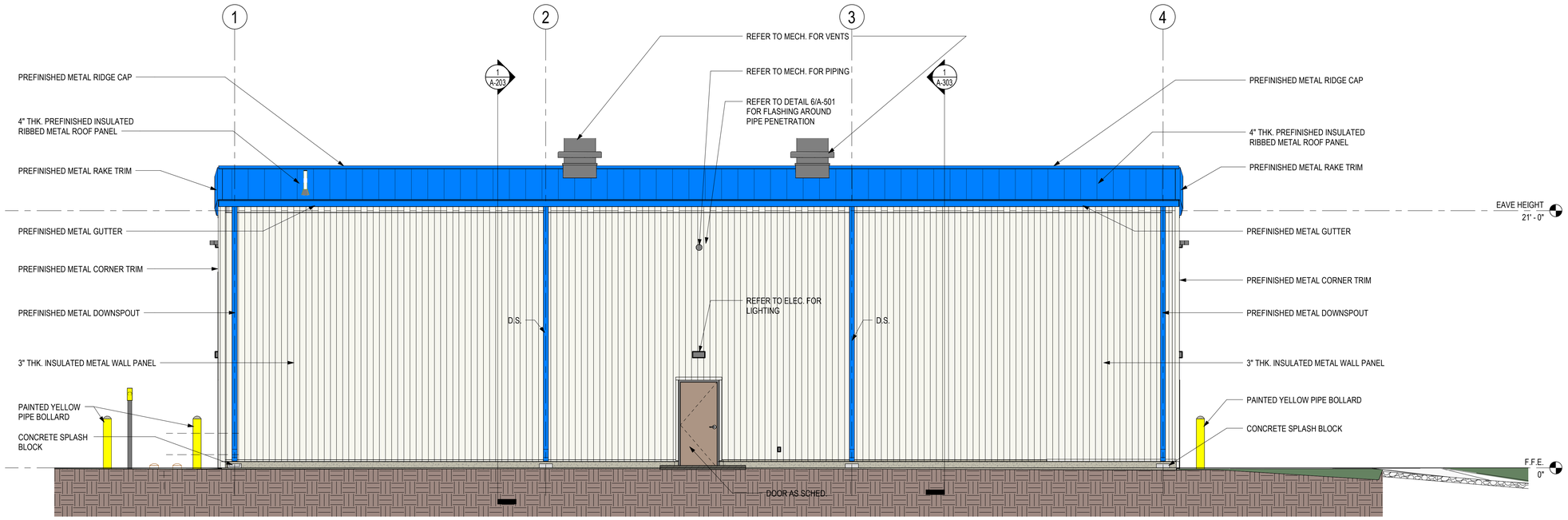
Issue Date **02-06-2024**

Sheet Title

EXTERIOR ELEVATIONS

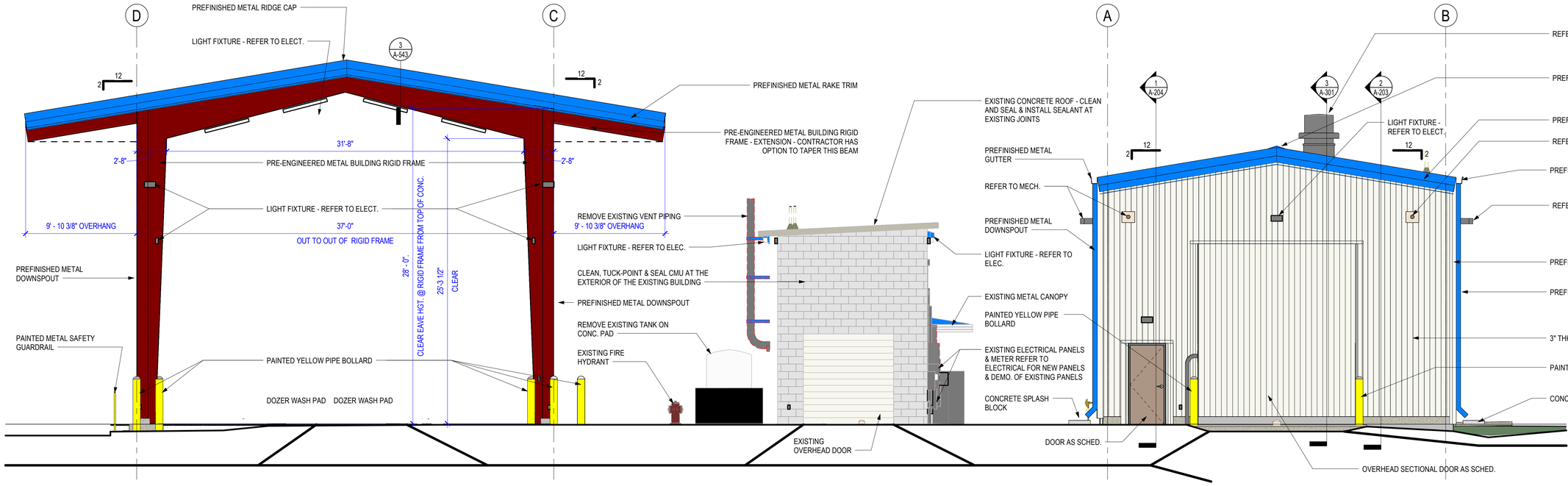
Sheet Number

A-201



1 EAST ELEVATION

1/4" = 1'-0"



2 SOUTH ELEVATION

1/4" = 1'-0"

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LITTLE ROCK, ARKANSAS

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ARCHITECTS ENGINEERS C-98 REGISTERED ARCHITECTS ARKANSAS

REGISTERED ARCHITECT EDWIN C. LEVY 2394 ARKANSAS
02-06-2024

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Project Number 2023-143

Issue Date 02-06-2024

Sheet Title

EXTERIOR ELEVATIONS

Sheet Number

A-202

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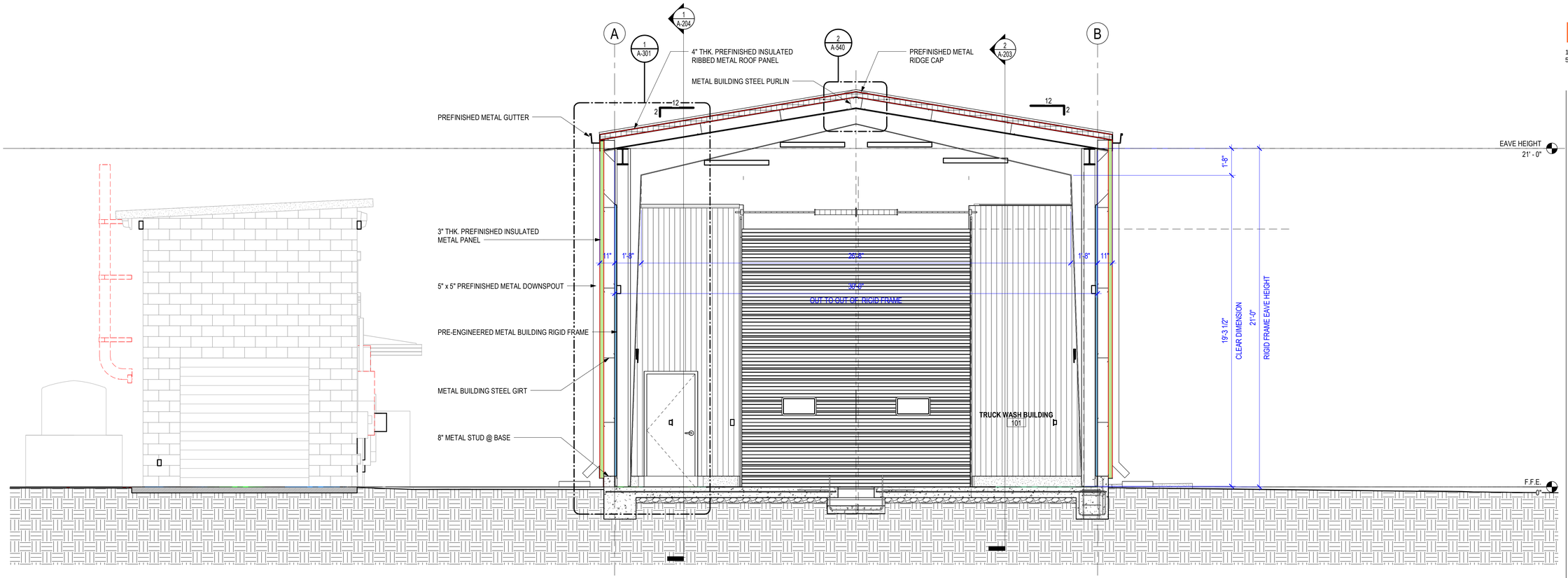
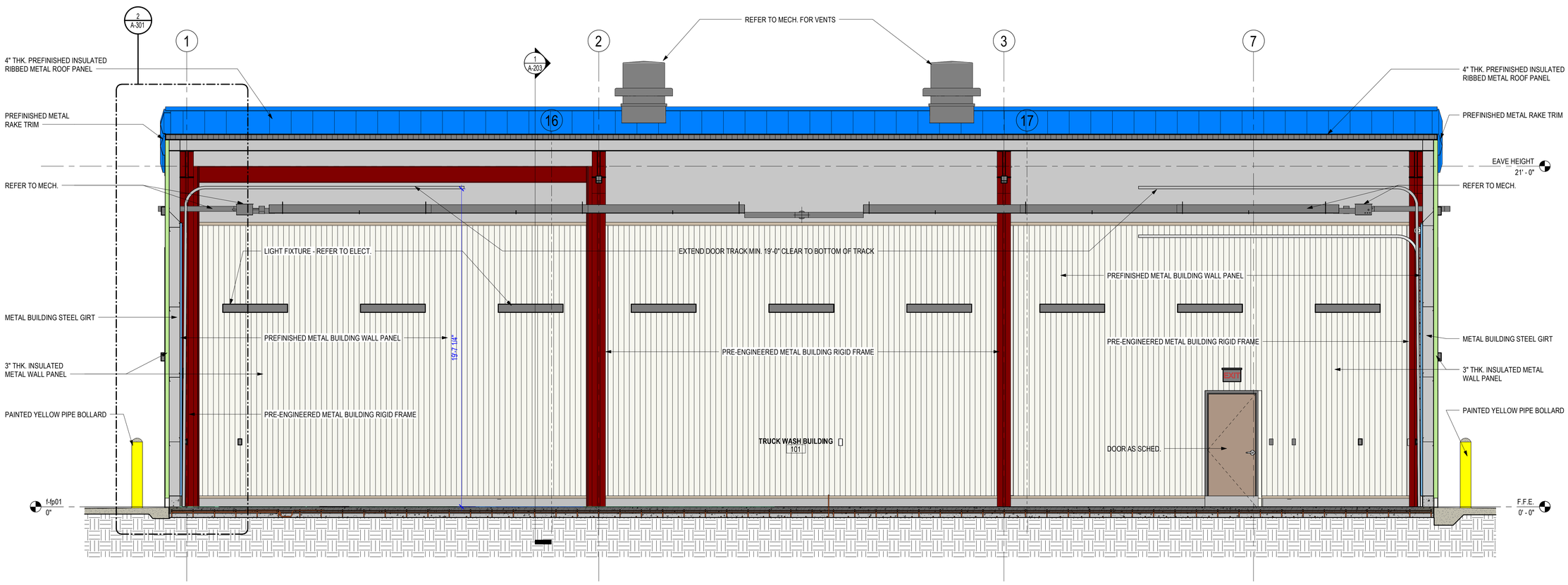


1 BUILING SECTION
3/8" = 1'-0"



2 BUILDING SECTION
3/8" = 1'-0"

Project

City of LITTLE ROCK

CITY OF LITTLE ROCK
LANDFILL TRUCK WASH
LITTLE ROCK, ARKANSAS

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C-98 REGISTERED ARCHITECTS ARKANSAS

REGISTERED ARCHITECT EDWIN C. LEVY 2394 ARKANSAS
02-06-2024

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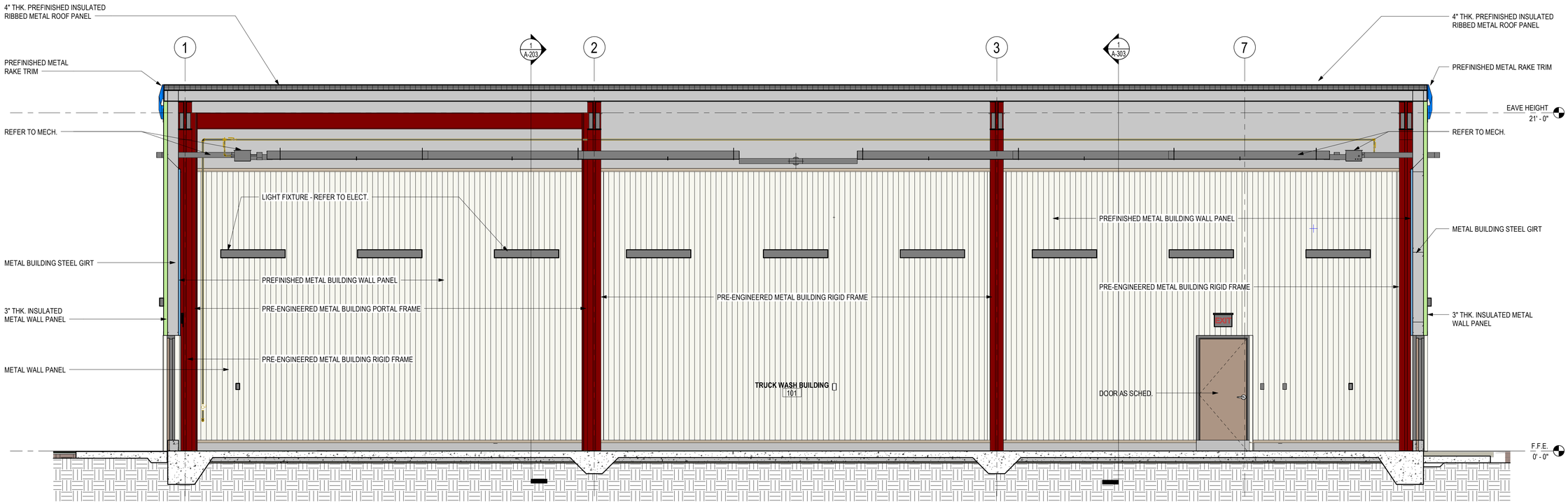
Project Number
2023-143

Issue Date
02-06-2024

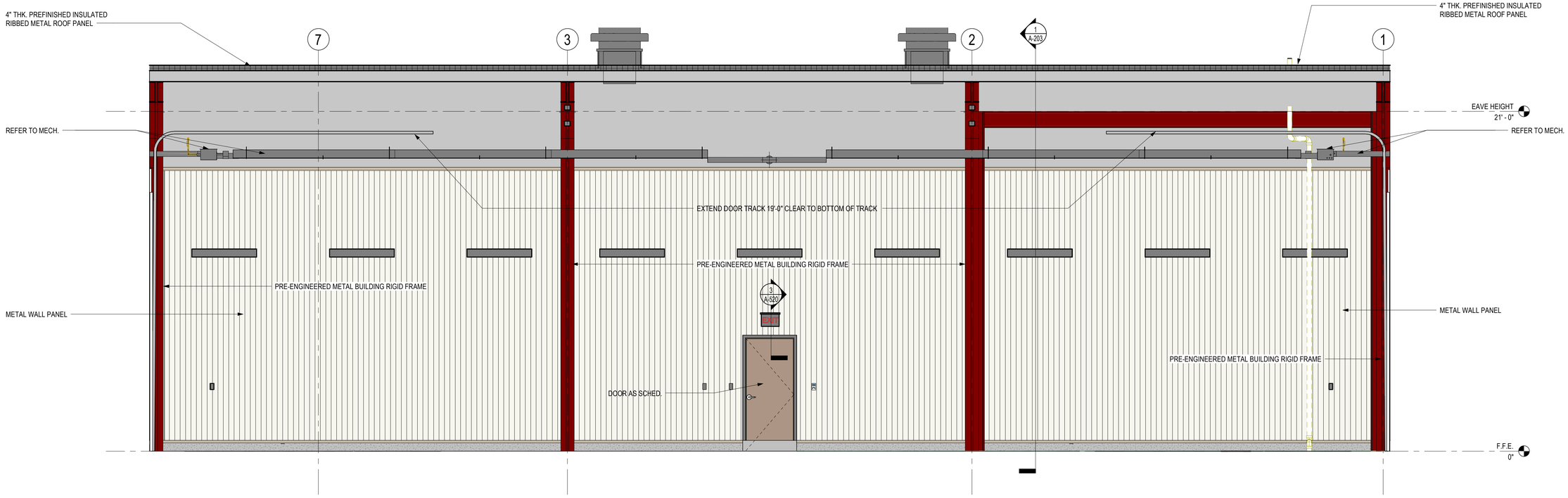
Sheet Title
BUILDING SECTIONS

Sheet Number
A-203



1 BUILDING SECTION LOOKING @ WEST INTERIOR WALL

3/8" = 1'-0"



2 EAST INTERIOR WALL ELEVATION

3/8" = 1'-0"

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City of LITTLE ROCK

CITY OF LITTLE ROCK

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LITTLE ROCK, ARKANSAS

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ARCHITECT'S ENGINEER'S C-98 REGISTERED ARCHITECTS ARKANSAS

REGISTERED ARCHITECT EDWIN C. LEVY 2394 ARKANSAS

02-06-2024

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Project Number 2023-143

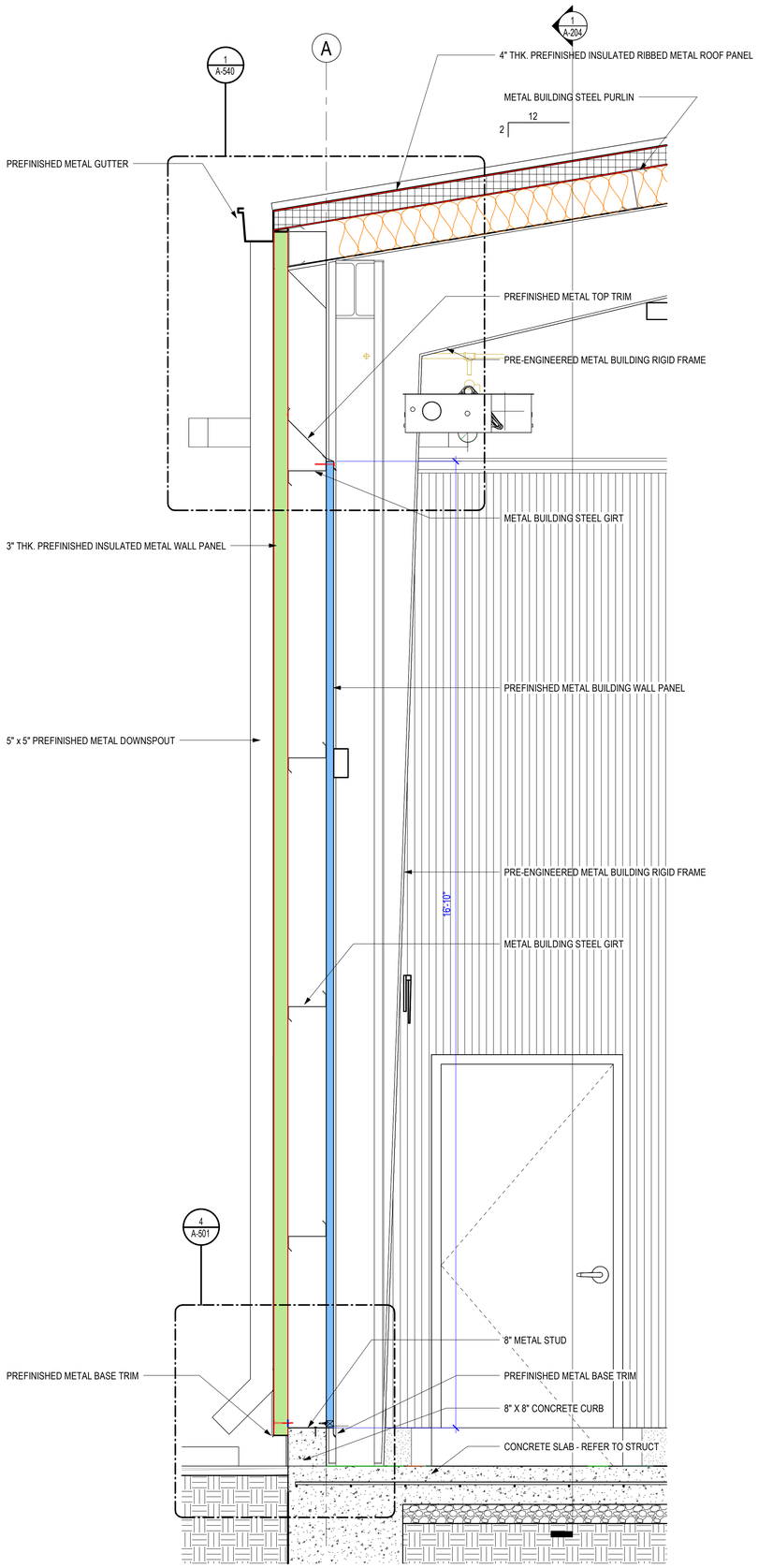
Issue Date 02-06-2024

Sheet Title

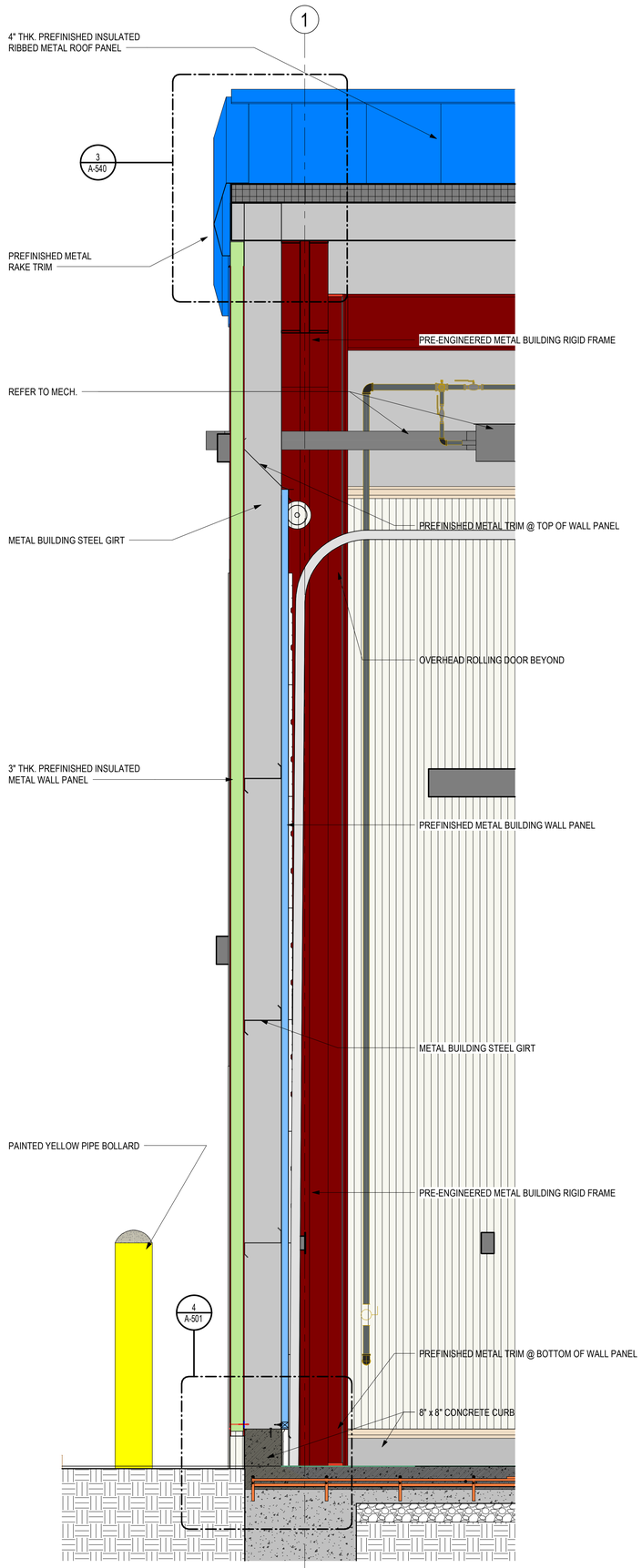
BUILDING SECTION & INTERIOR ELEVATION

Sheet Number

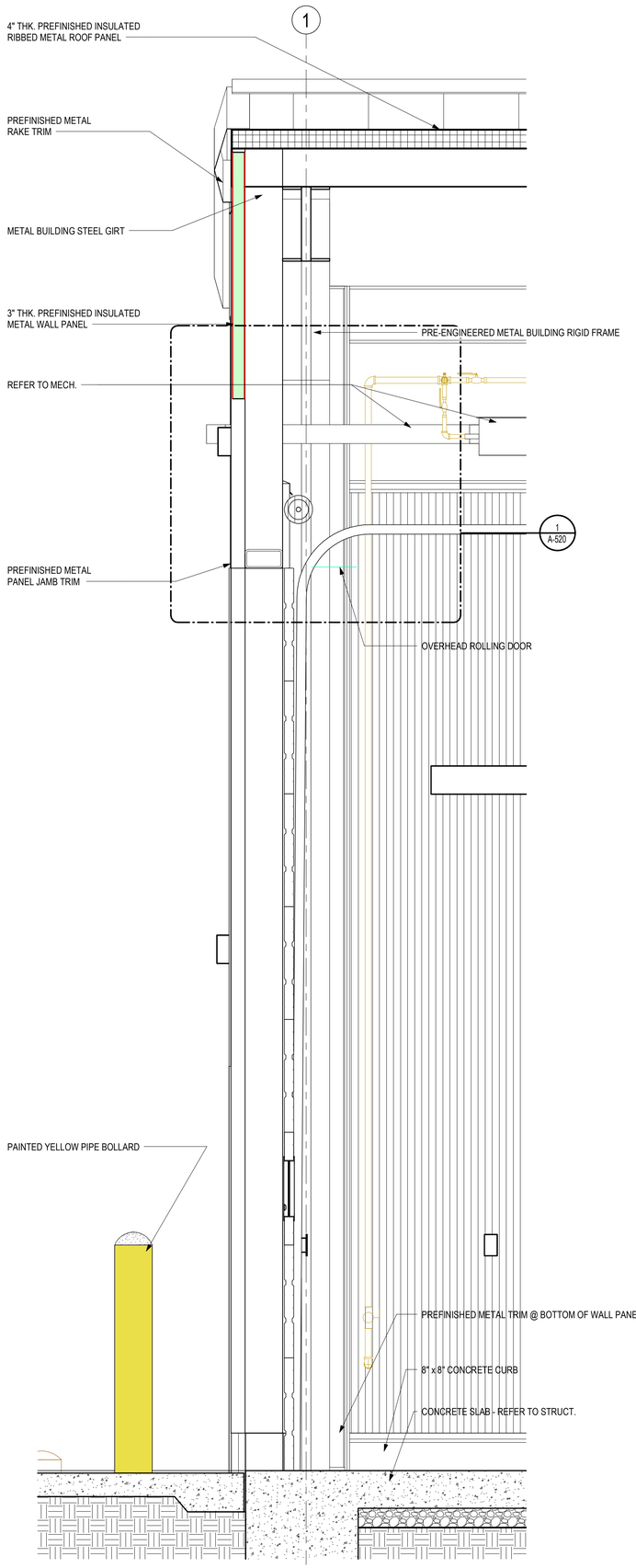
A-204



1 WALL SECTION
1" = 1'-0"



2 WALL SECTION
1" = 1'-0"



3 WALL SECTION @ OVERHEAD DOOR
1" = 1'-0"

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CROMWELL ARCHITECTS ENGINEERS INC. C-98 REGISTERED ARCHITECTS ARKANSAS

REGISTERED ARCHITECT EDWIN C. LEVY 2394 ARKANSAS

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Project Number **2023-143**

Issue Date **02-06-2024**

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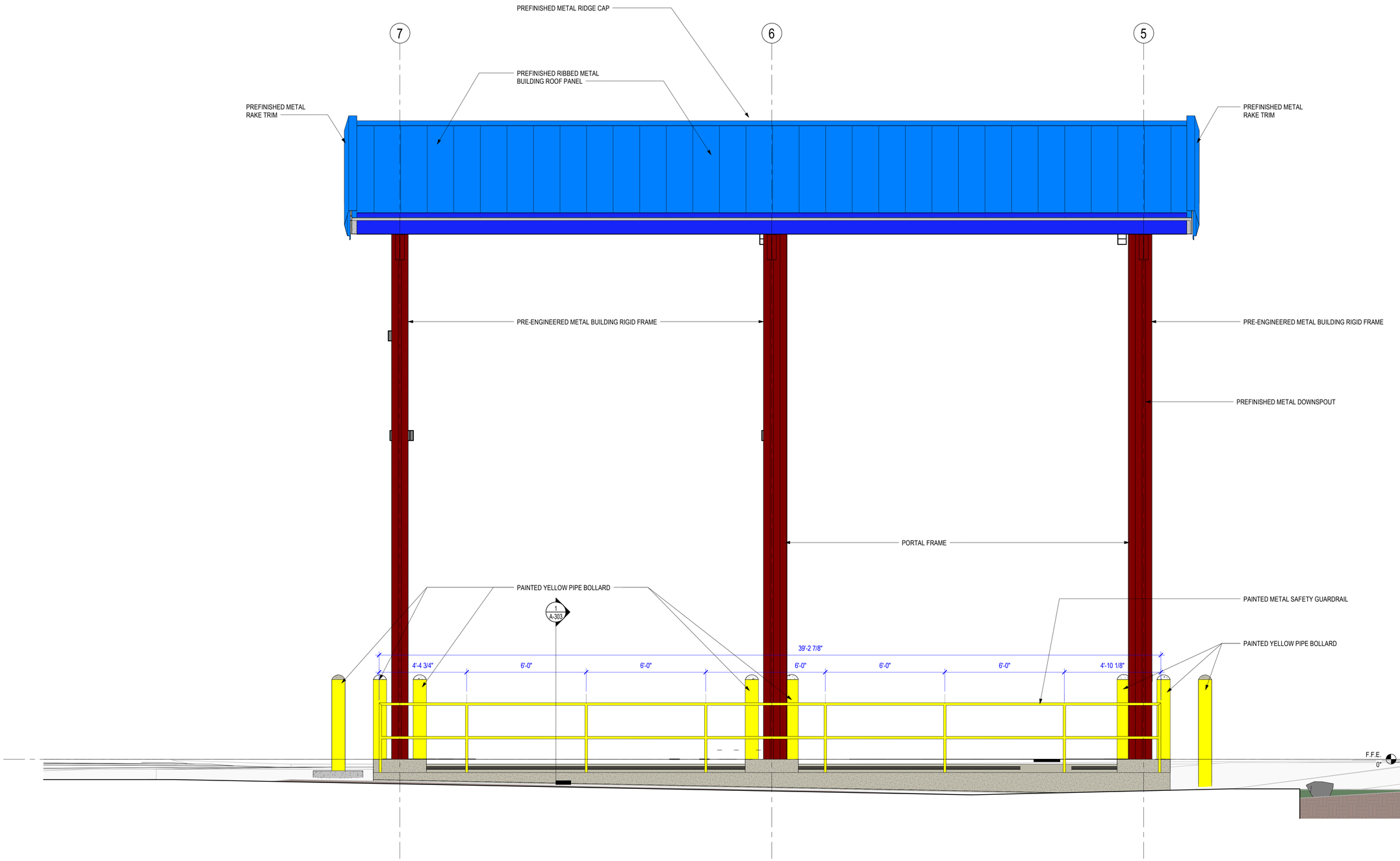
WALL SECTIONS

Sheet Number

A-301



1 ELEVATION OF PAINTED METAL GUARDRAIL

1/2" = 1'-0"

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LITTLE ROCK, ARKANSAS

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ARCHITECTS ENGINEERS C-98 REGISTERED ARCHITECTS ARKANSAS

REGISTERED ARCHITECT EDWIN C. LEVY 2394 ARKANSAS

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Sheet Title

SECTIONS

Sheet Number

A-302

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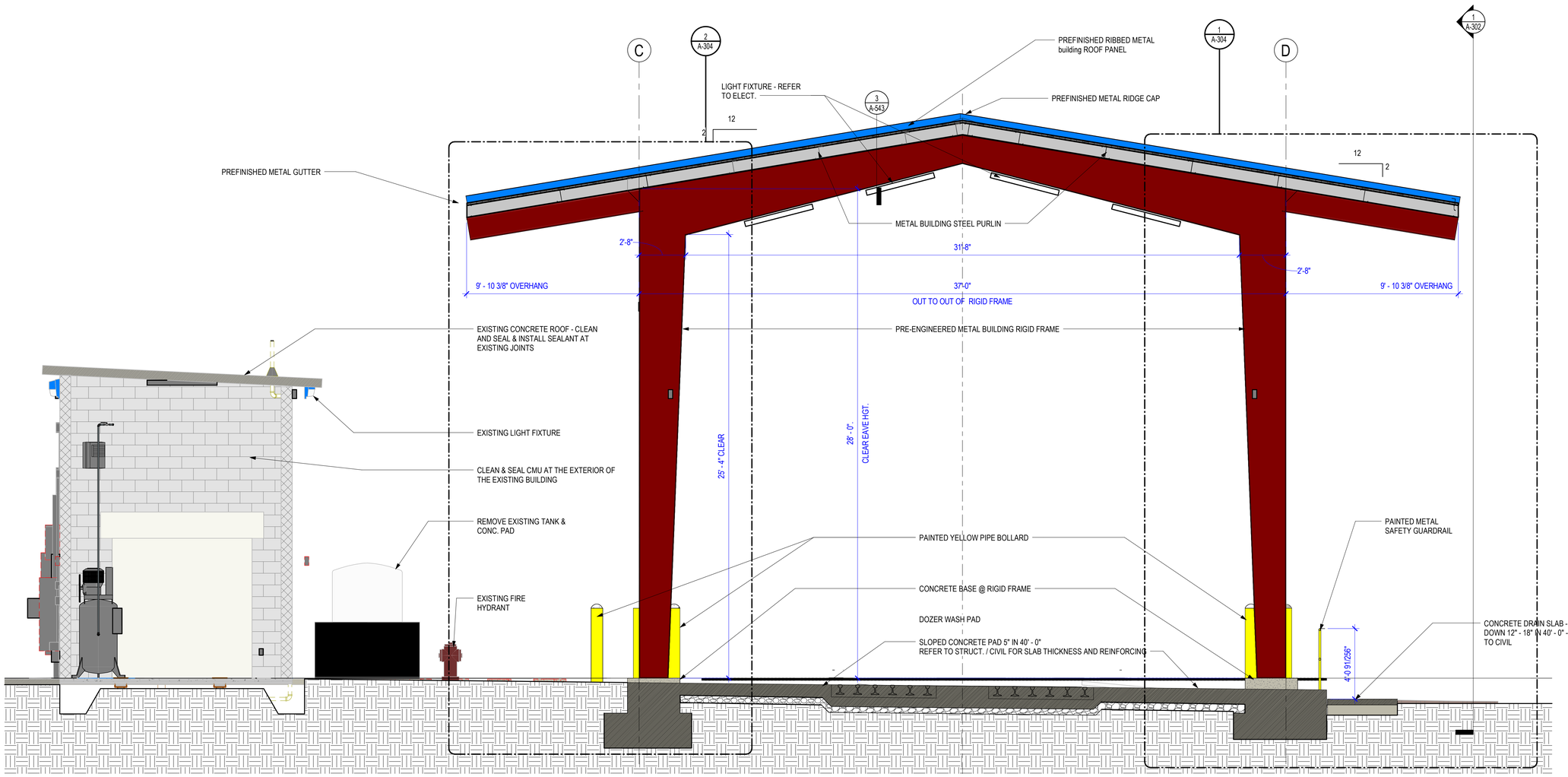

1 SECTION THRU BULL DOZER WASH PAD & METAL CANOPY
3/8" = 1'-0"

Project

City of LITTLE ROCK

CITY OF LITTLE ROCK
LANDFILL TRUCK WASH
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CROMWELL ARCHITECTS ENGINEERS INC. C-98 REGISTERED ARCHITECTS ARKANSAS

REGISTERED ARCHITECT EDWIN C. LEVY 2394 ARKANSAS
02-06-2024

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Project Number **2023-143**

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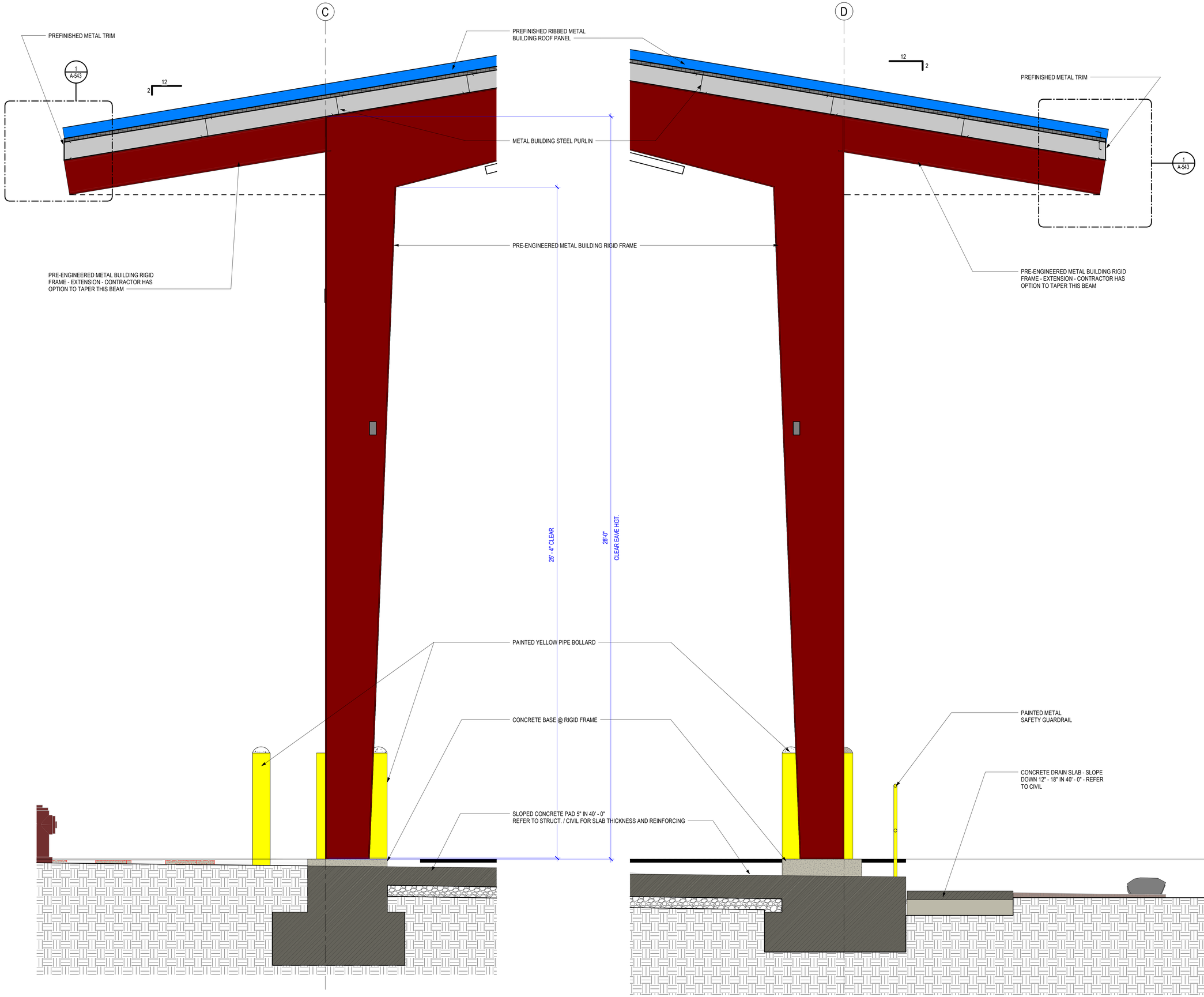
Sheet Title

SECTION THRU DOZER PAD CANOPY

Sheet Number

A-303



2 SECTION THRU BULL DOZER WASH PAD & METAL CANOPY - GRID C
3/4" = 1'-0"

1 SECTION THRU BULL DOZER WASH PAD & METAL CANOPY - GRID D
3/4" = 1'-0"

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City of LITTLE ROCK

CITY OF LITTLE ROCK
LANDFILL TRUCK WASH
LITTLE ROCK, ARKANSAS

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C-98 REGISTERED ARCHITECTS ARKANSAS

EDWIN C. LEVY 2394 REGISTERED ARCHITECT ARKANSAS
02-06-2024

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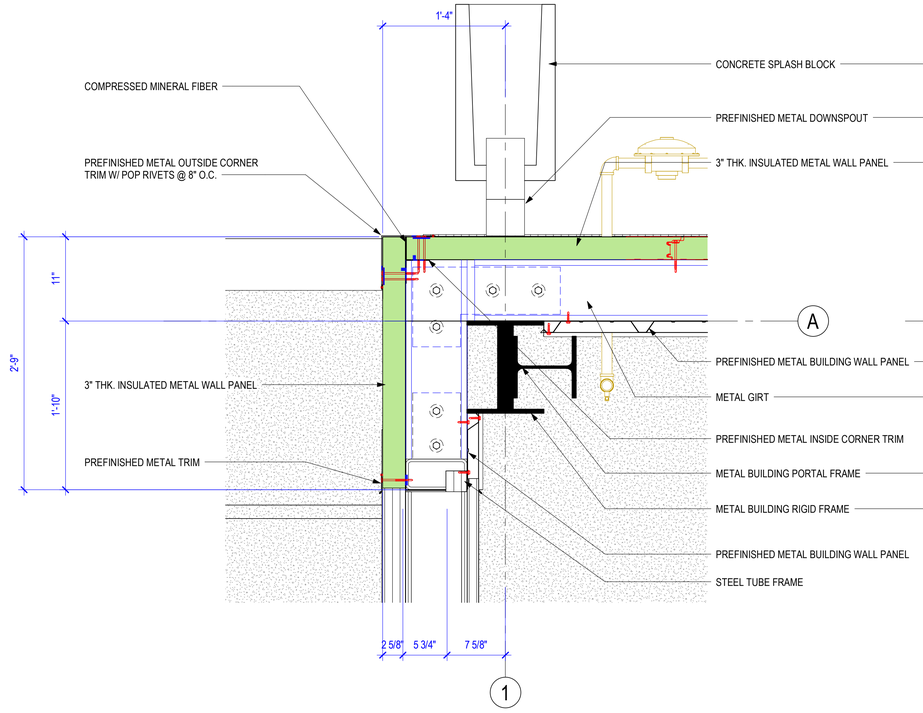
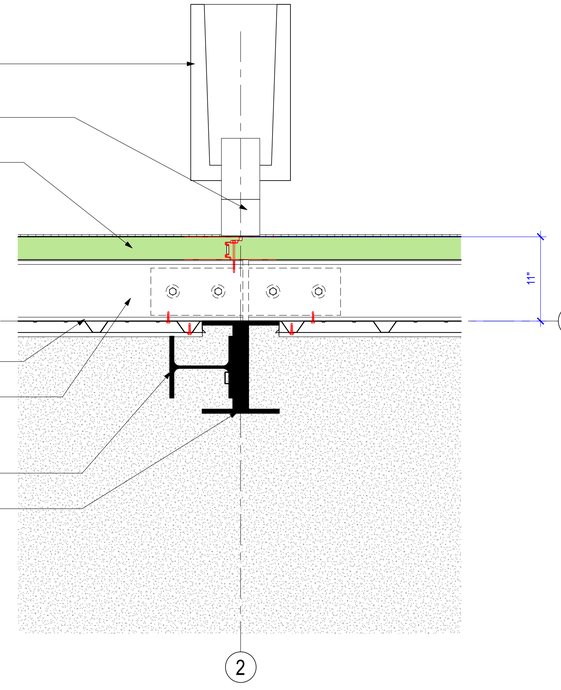
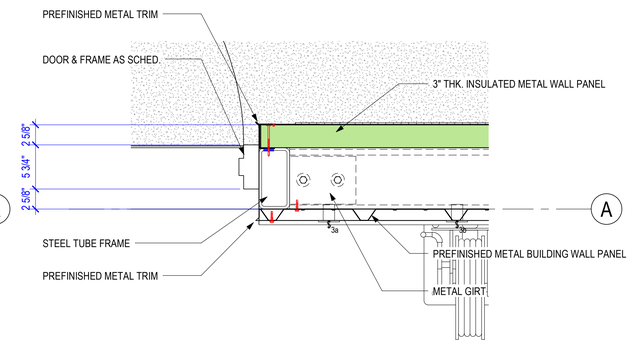
Project Number 2023-143
Issue Date 02-06-2024
Sheet Title **WALL SECTIONS**
Sheet Number **A-304**



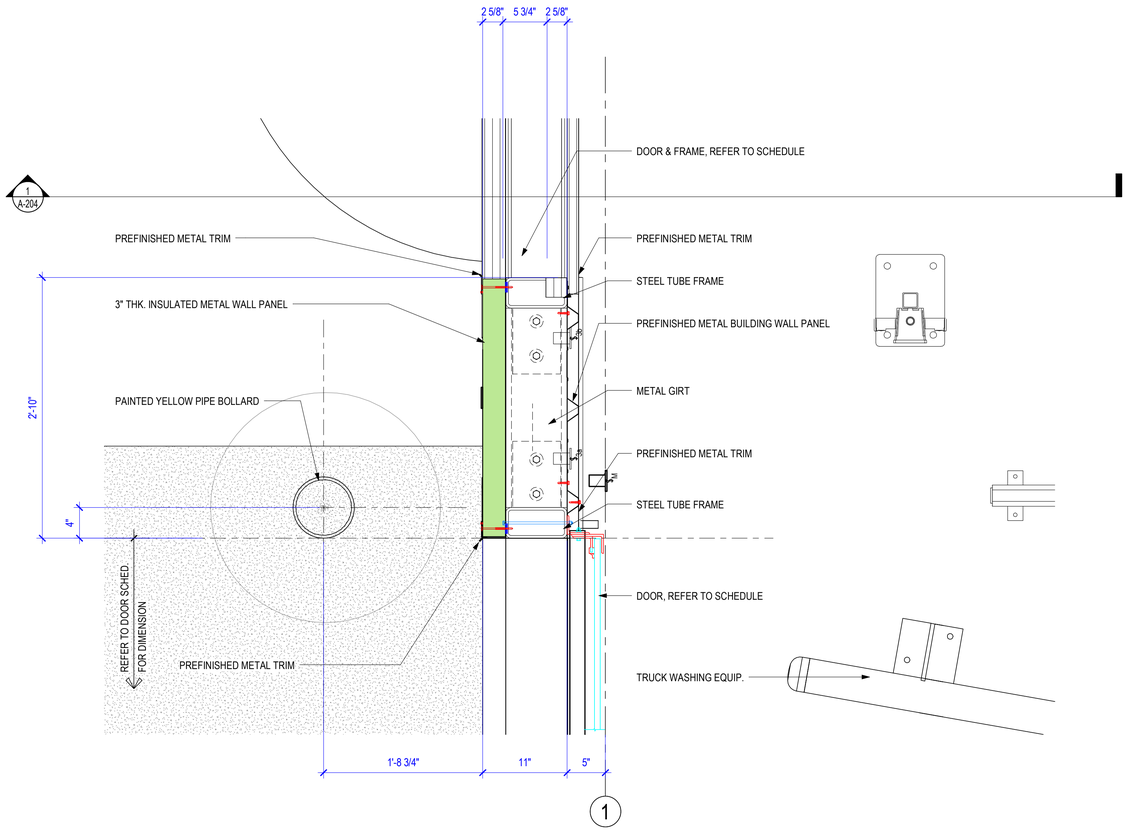
1 COLUMN DETAIL - GRID A1
1 1/2" = 1'-0"



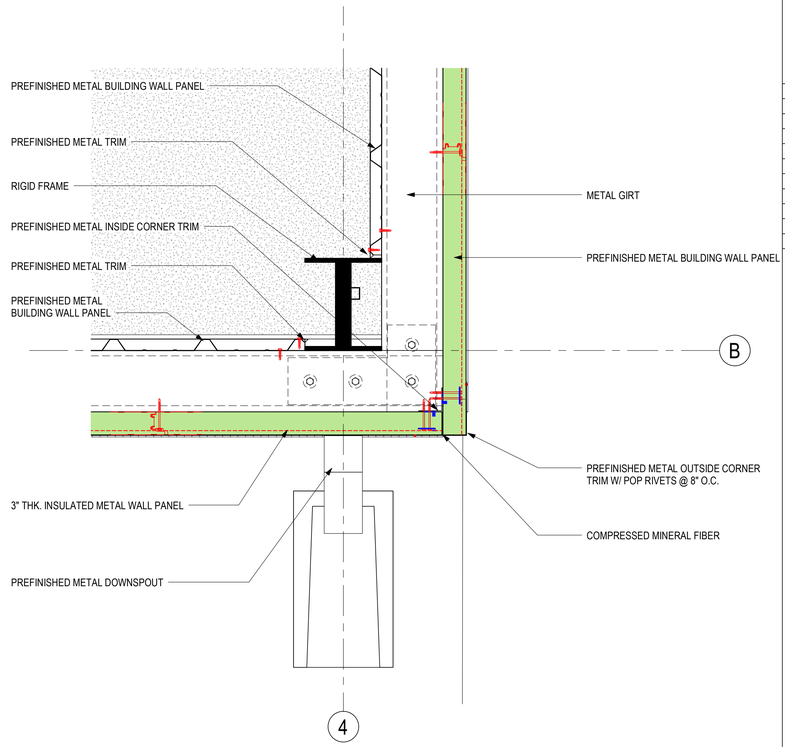
2 COLUMN DETAIL - GRID A2
1 1/2" = 1'-0"



3 PLAN DETAIL @ DOOR JAMB
1 1/2" = 1'-0"



4 PLAN DETAIL @ OHD & MAN DOOR
1 1/2" = 1'-0"



5 COLUMN DETAIL @ GRID B4
1 1/2" = 1'-0"

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LITTLE ROCK, ARKANSAS

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C-98 REGISTERED ARCHITECTS ARKANSAS

EDWIN C. LEVY 2394 REGISTERED ARCHITECT ARKANSAS

02-06-2024

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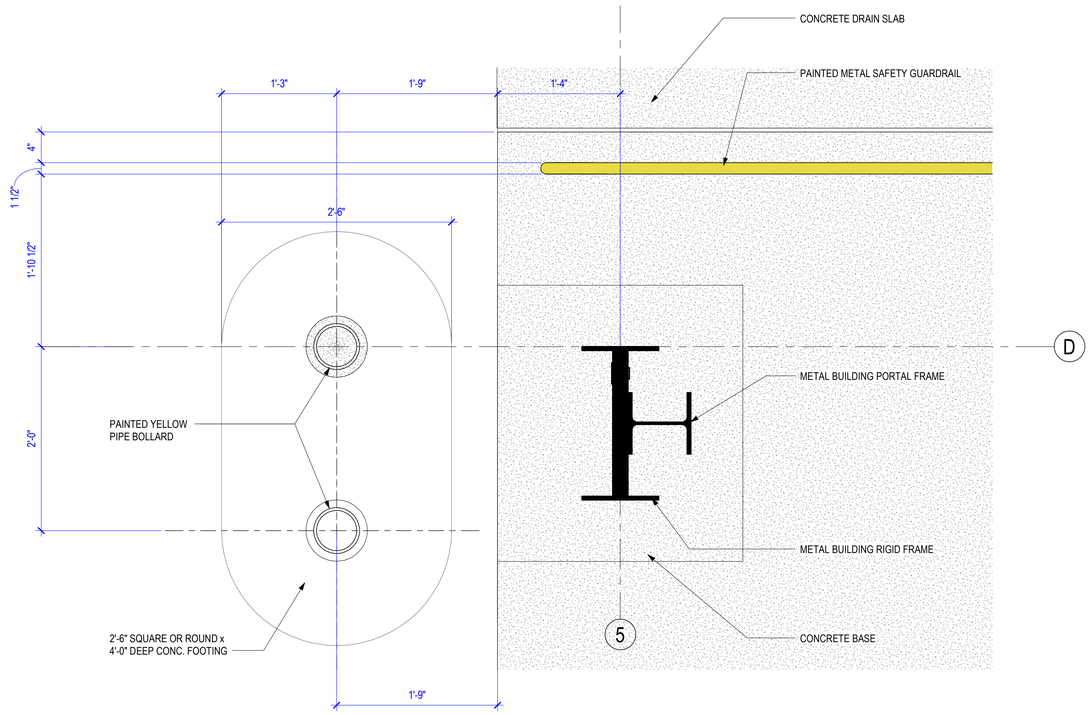
Sheet Title

COLUMN & PLAN DETAILS

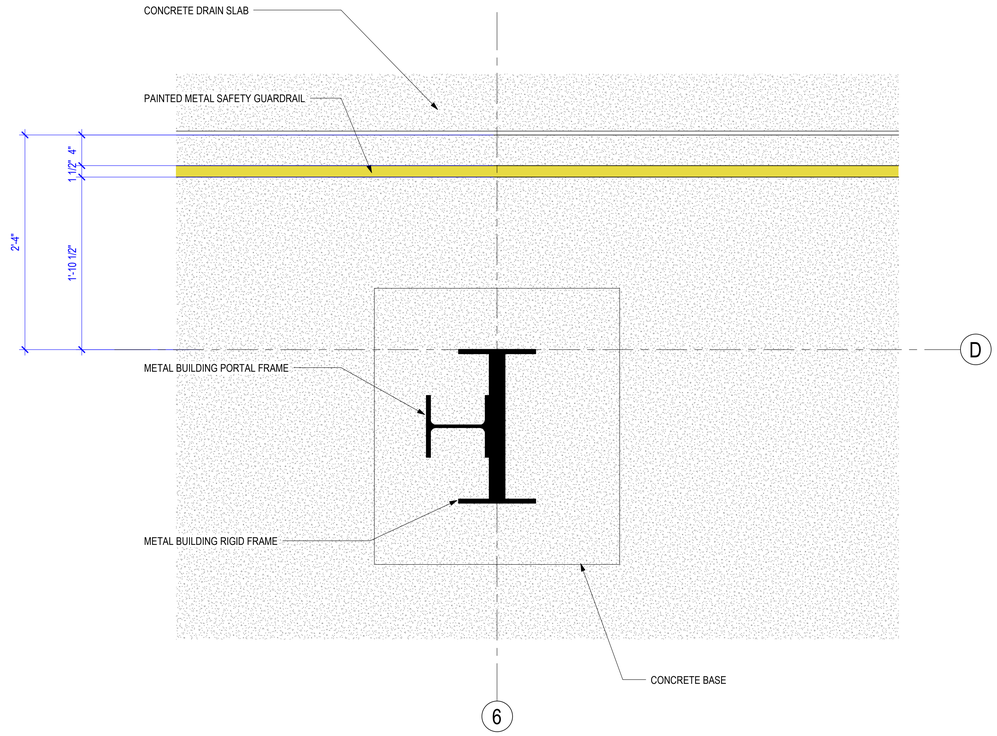
Sheet Number

A-401



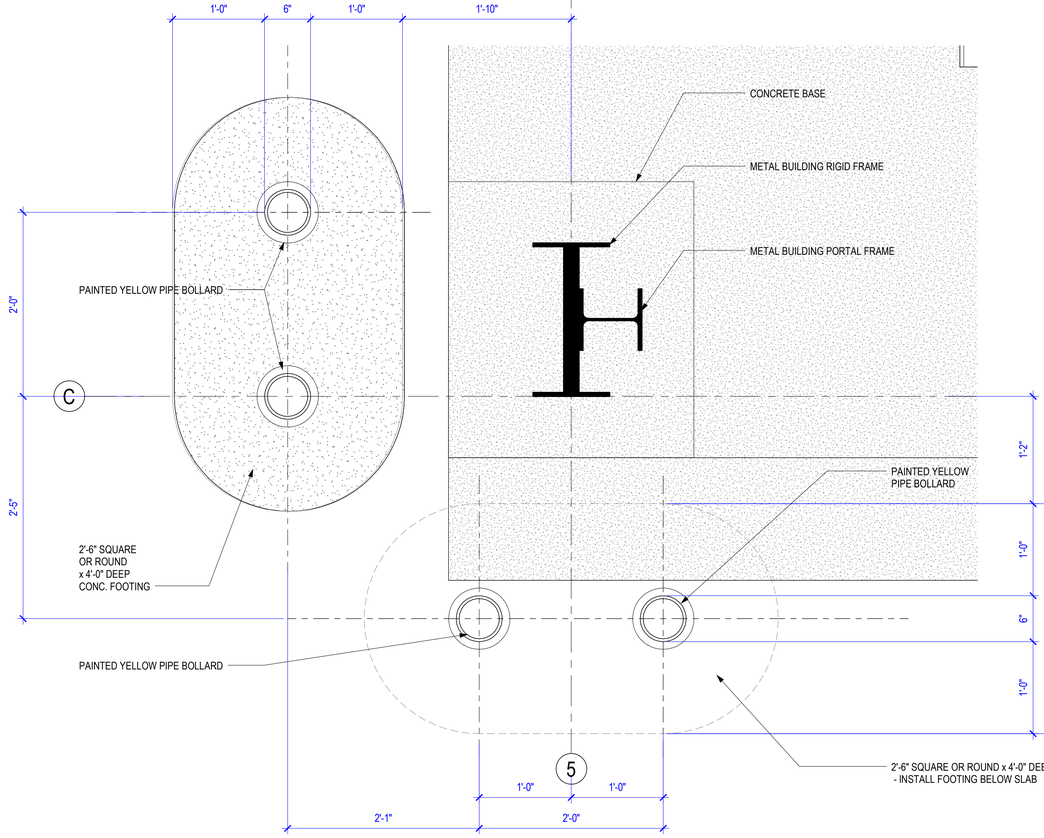
1 COLUMN DETAIL

1 1/2" = 1'-0"



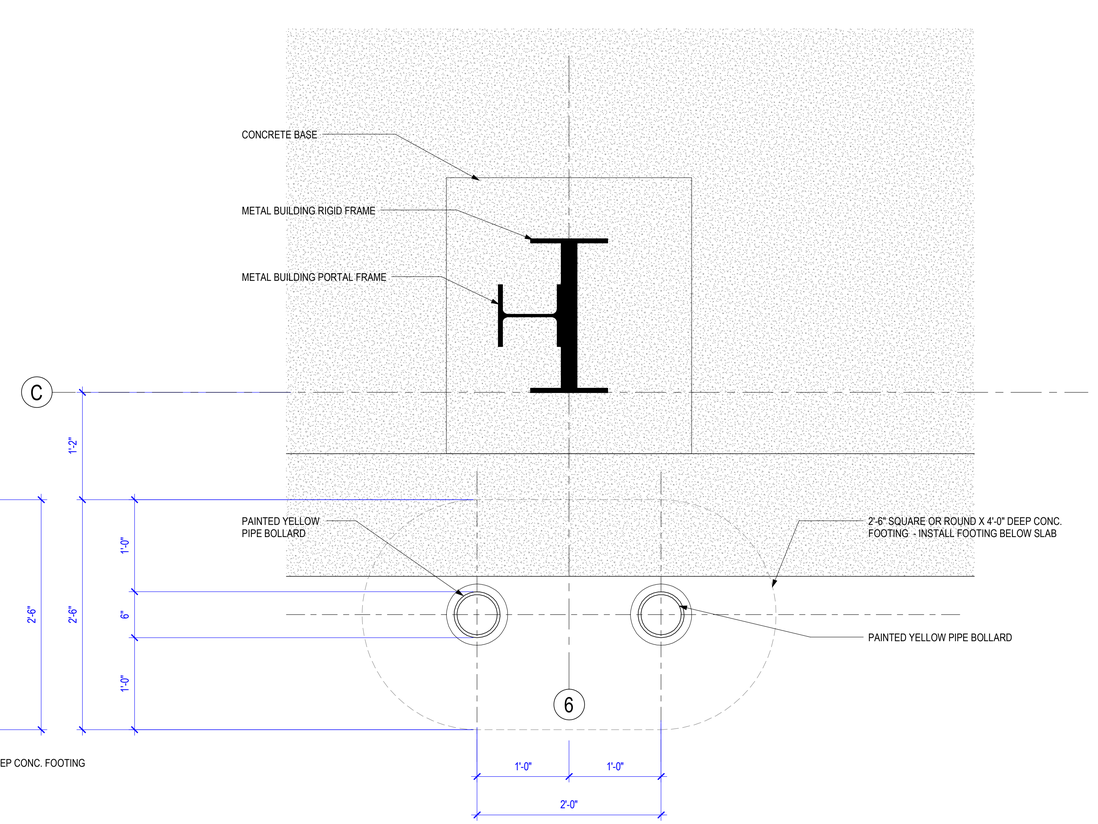
2 COLUMN DETAIL

1 1/2" = 1'-0"



3 COLUMN DETAIL

1 1/2" = 1'-0"



4 COLUMN DETAIL

1 1/2" = 1'-0"

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LITTLE ROCK, ARKANSAS

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CROMWELL ARCHITECTS ENGINEERS, INC. C-98 REGISTERED ARCHITECTS ARKANSAS

REGISTERED ARCHITECT EDWIN C. LEVY 2394 ARKANSAS

02-06-2024

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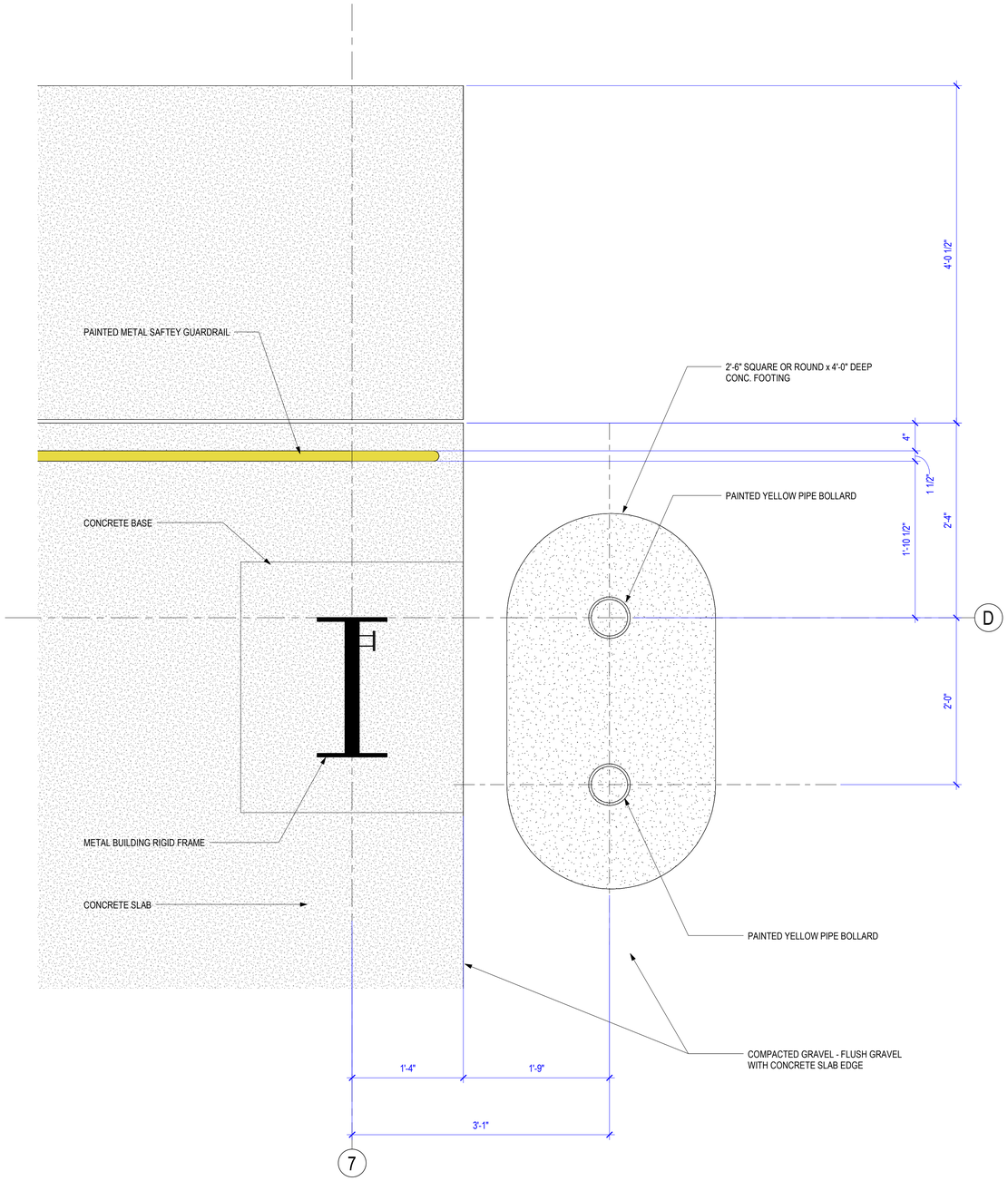
COLUMN DETAILS

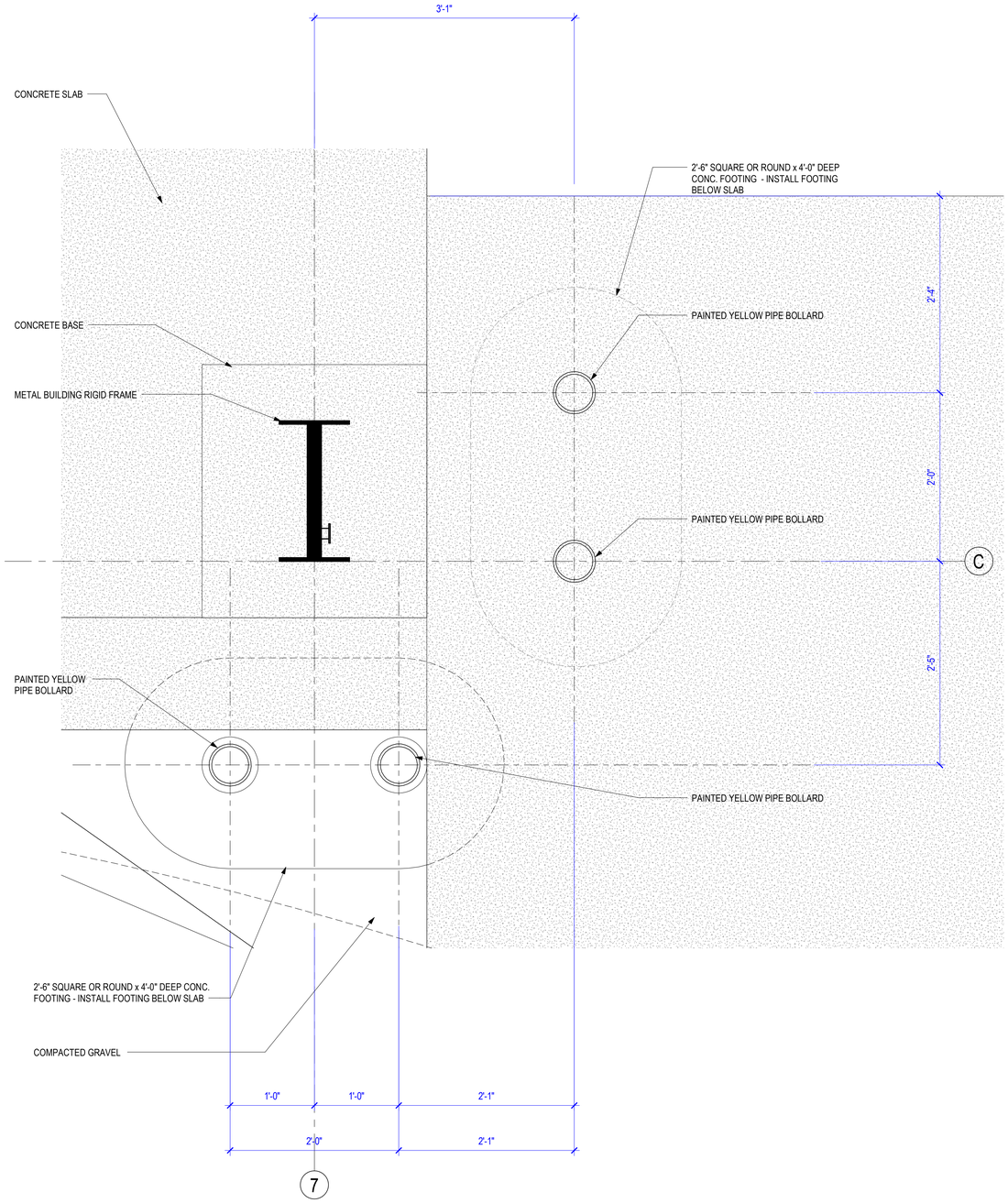
Sheet Number

A-402



1 COLUMN DETAIL

1 1/2" = 1'-0"



2 COLUMN DETAIL

1 1/2" = 1'-0"

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City of LITTLE ROCK

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LITTLE ROCK, ARKANSAS

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CROMWELL ARCHITECTS ENGINEERS C-98 REGISTERED ARCHITECTS ARKANSAS

REGISTERED ARCHITECT EDWIN C. LEVY 2394 ARKANSAS

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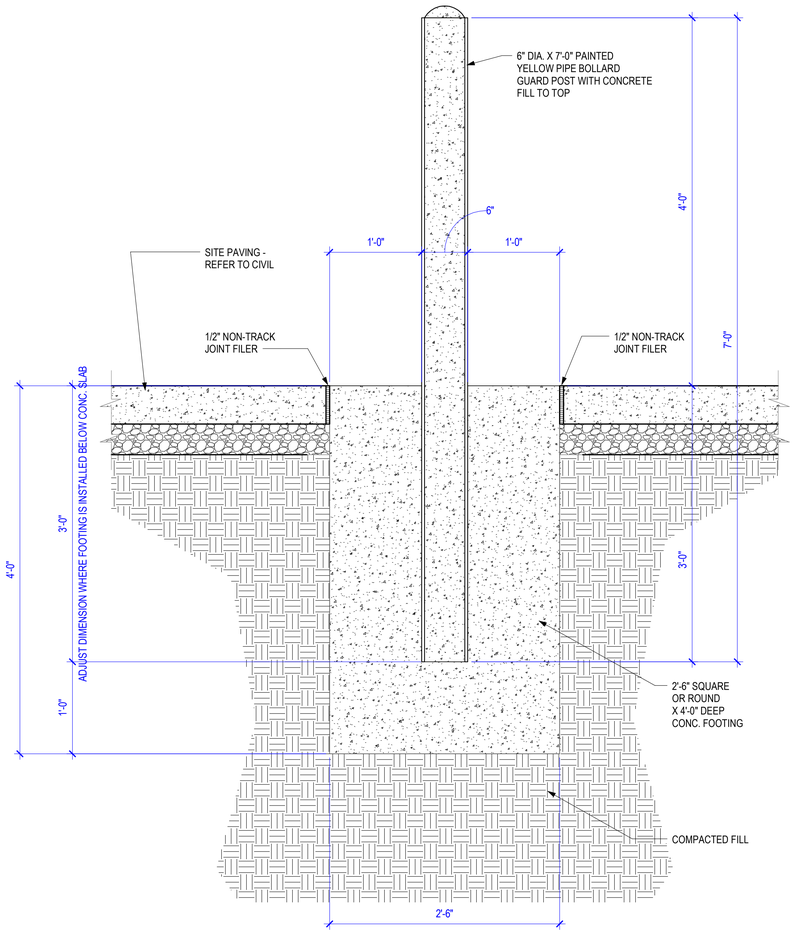
Issue Date **02-06-2024**

Sheet Title

COLUMN DETAILS

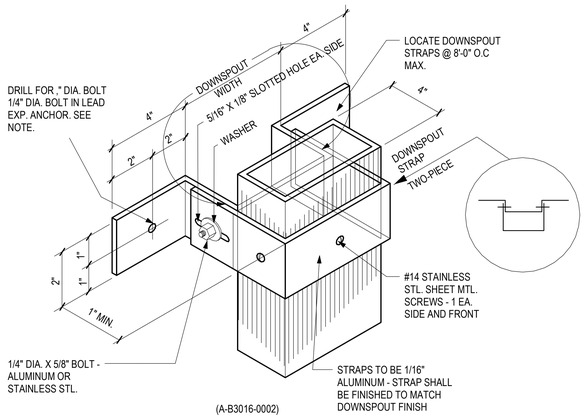
Sheet Number

A-403



1 PIPE BOLLARD DETAIL @ EXTERIOR SITE AREAS

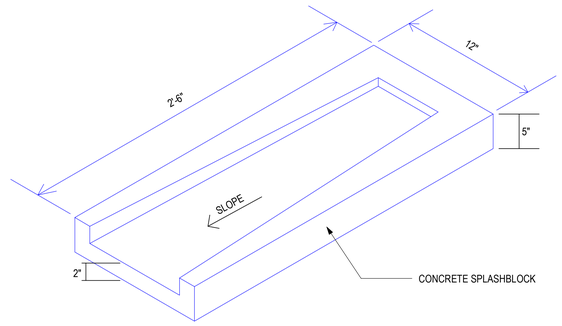
1 1/2" = 1'-0"



(A-B3016-0002)

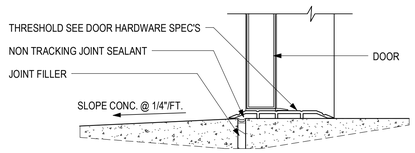
2 DOWNSPOUT BRACKET DETAIL

3" = 1'-0"



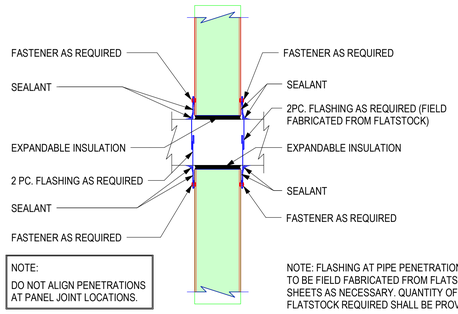
3 CONCRETE SPLASH BLOCK DETAIL - TYPICAL

3" = 1'-0"



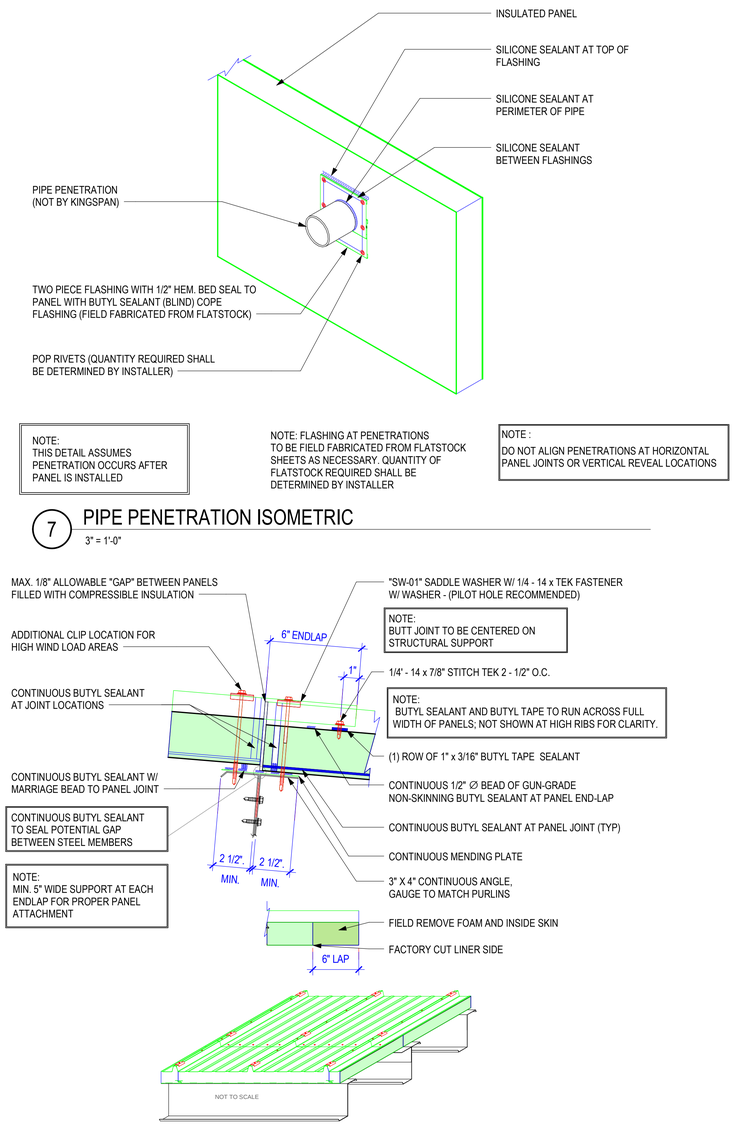
5 ALUM DOOR SILL - THRESHOLD

3" = 1'-0"



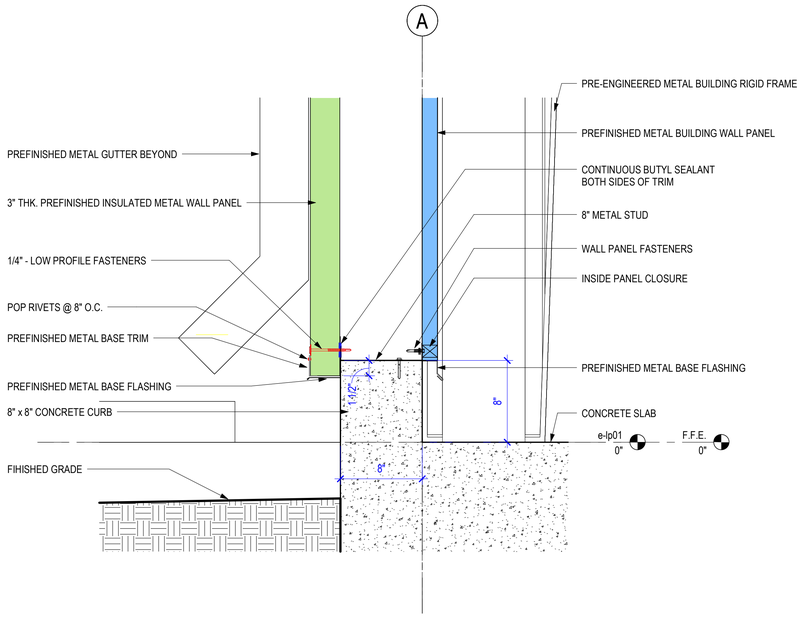
6 PIPE PENETRATION DETAIL

3" = 1'-0"



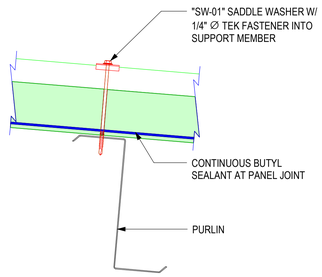
7 PIPE PENETRATION ISOMETRIC

3" = 1'-0"



4 WALL PANEL BASE SUPPORT DETAIL

1 : 6



8 INTERMEDIATE SUPPORT DETAIL @ ROOF PANEL

3" = 1'-0"

9 END LAP DETAIL @ ROOF PANEL

3" = 1'-0"

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Issue Date **02-06-2024**

Sheet Title **MISC. DETAILS**

Sheet Number **A-501**

1 PHOTO IMAGE

2 PHOTO IMAGE

3 PHOTO IMAGE

4 PHOTO IMAGE

5 PHOTO IMAGE

6 PHOTO IMAGE

7 PHOTO IMAGE

8 PHOTO IMAGE

9 PHOTO IMAGE

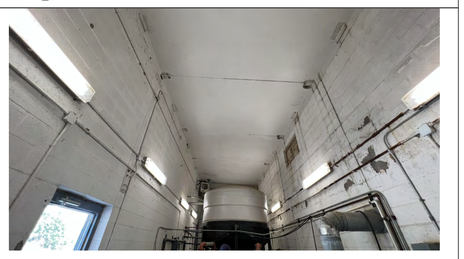
10 PHOTO IMAGE

11 PHOTO IMAGE

12 PHOTO IMAGE

13 PHOTO IMAGE

14 PHOTO IMAGE



15 PHOTO IMAGE

16 PHOTO IMAGE

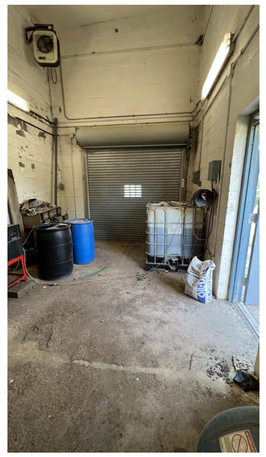
17 PHOTO IMAGE

18 PHOTO IMAGE

19 PHOTO IMAGE

20 PHOTO IMAGE

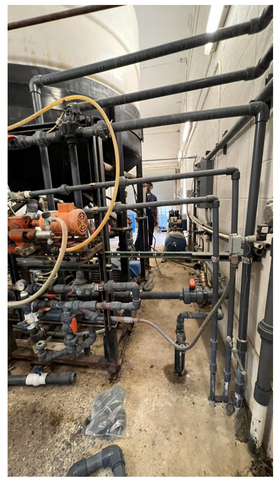
21 PHOTO IMAGE



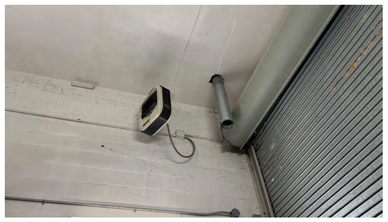
22 PHOTO IMAGE

23 PHOTO IMAGE

24 PHOTO IMAGE



25 PHOTO IMAGE



26 PHOTO IMAGE

27 PHOTO IMAGE

28 PHOTO IMAGE

29 PHOTO IMAGE

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REGISTERED ARCHITECT EDWIN C. LEVY 2394 ARKANSAS

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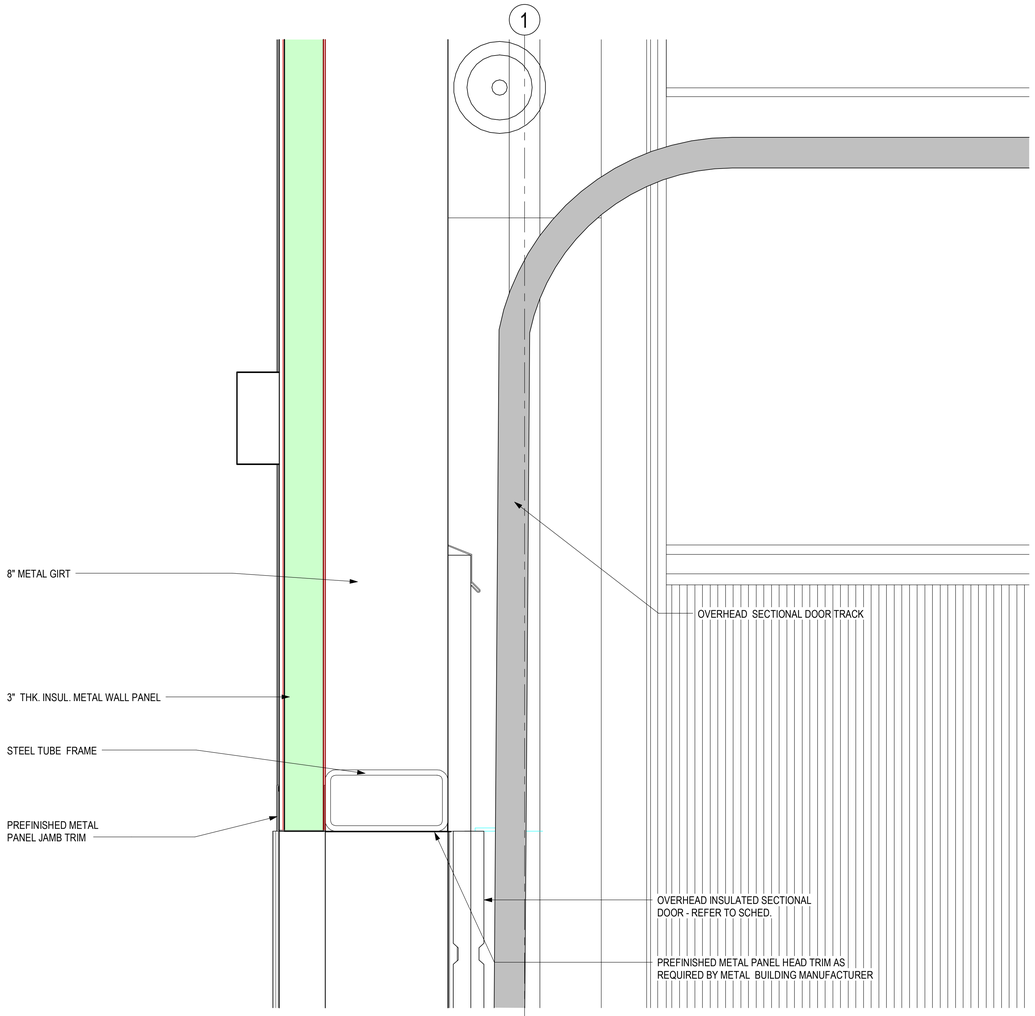
Issue Date 02-06-2024

Sheet Title

EXISTING BUILDING & SITE - PHOTO IMAGES

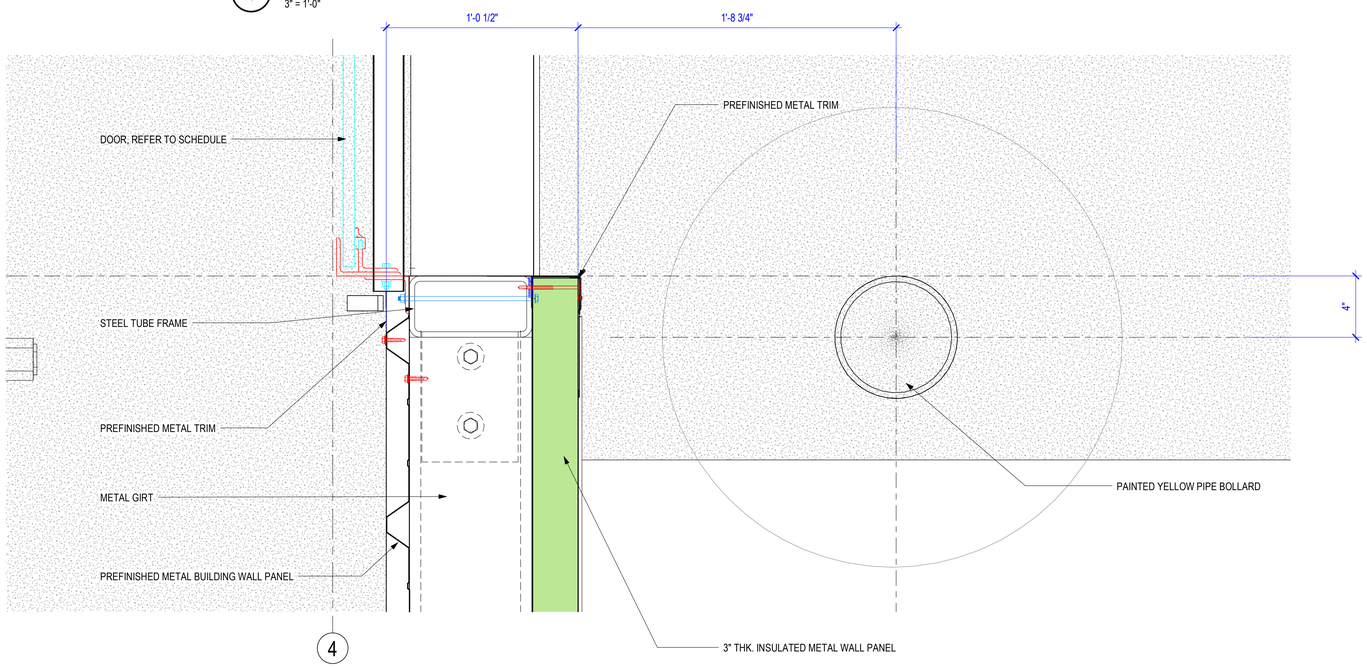
Sheet Number

A-502



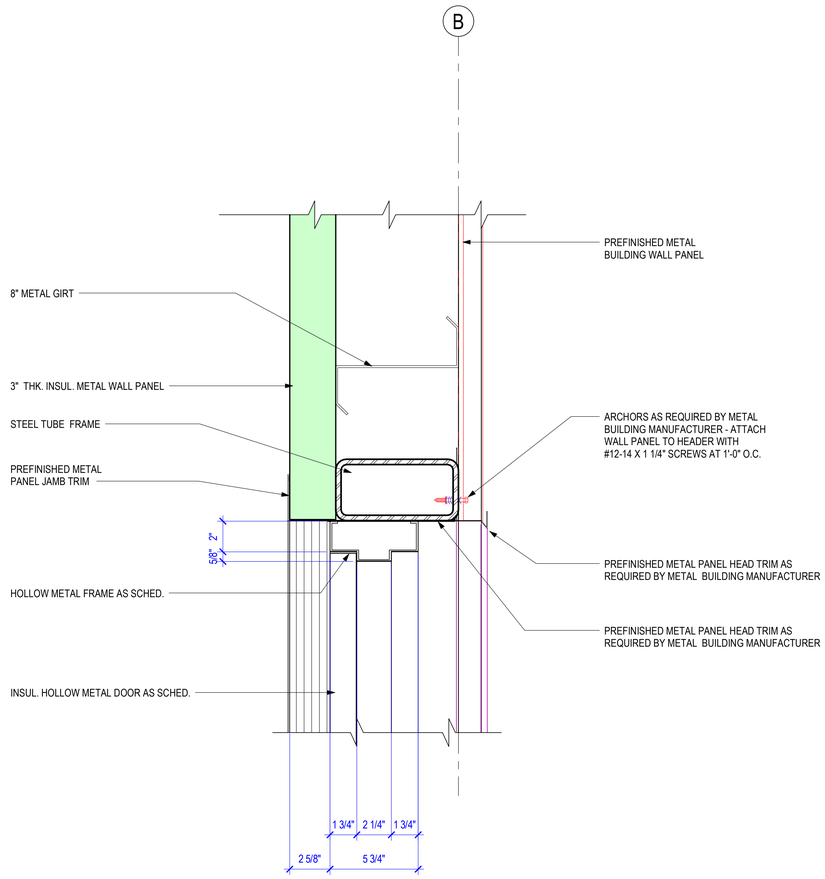
1 OVERHEAD DOOR HEAD DETAIL

3" = 1'-0"



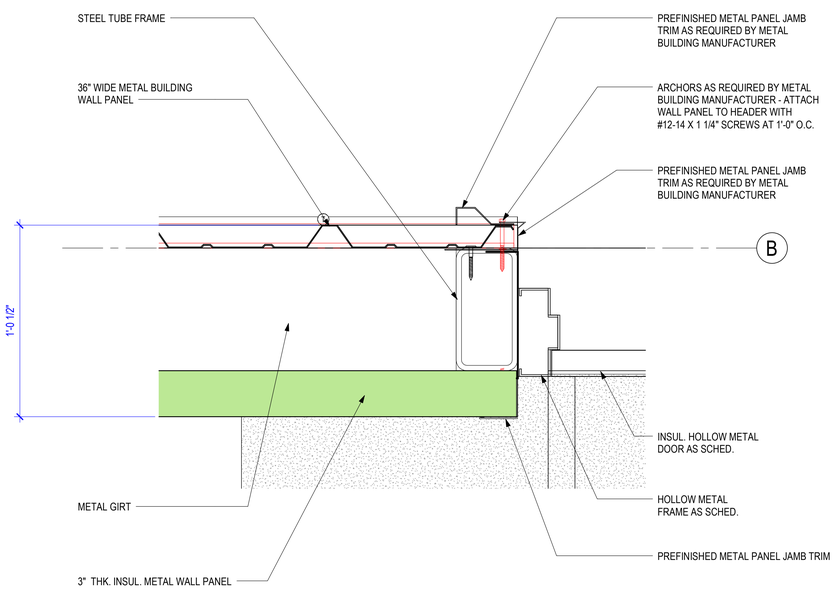
2 OVERHEAD DOOR JAMB DETAIL

3" = 1'-0"



3 DOOR HEAD DETAIL

3" = 1'-0"



4 DOOR JAMB DETAIL

3" = 1'-0"

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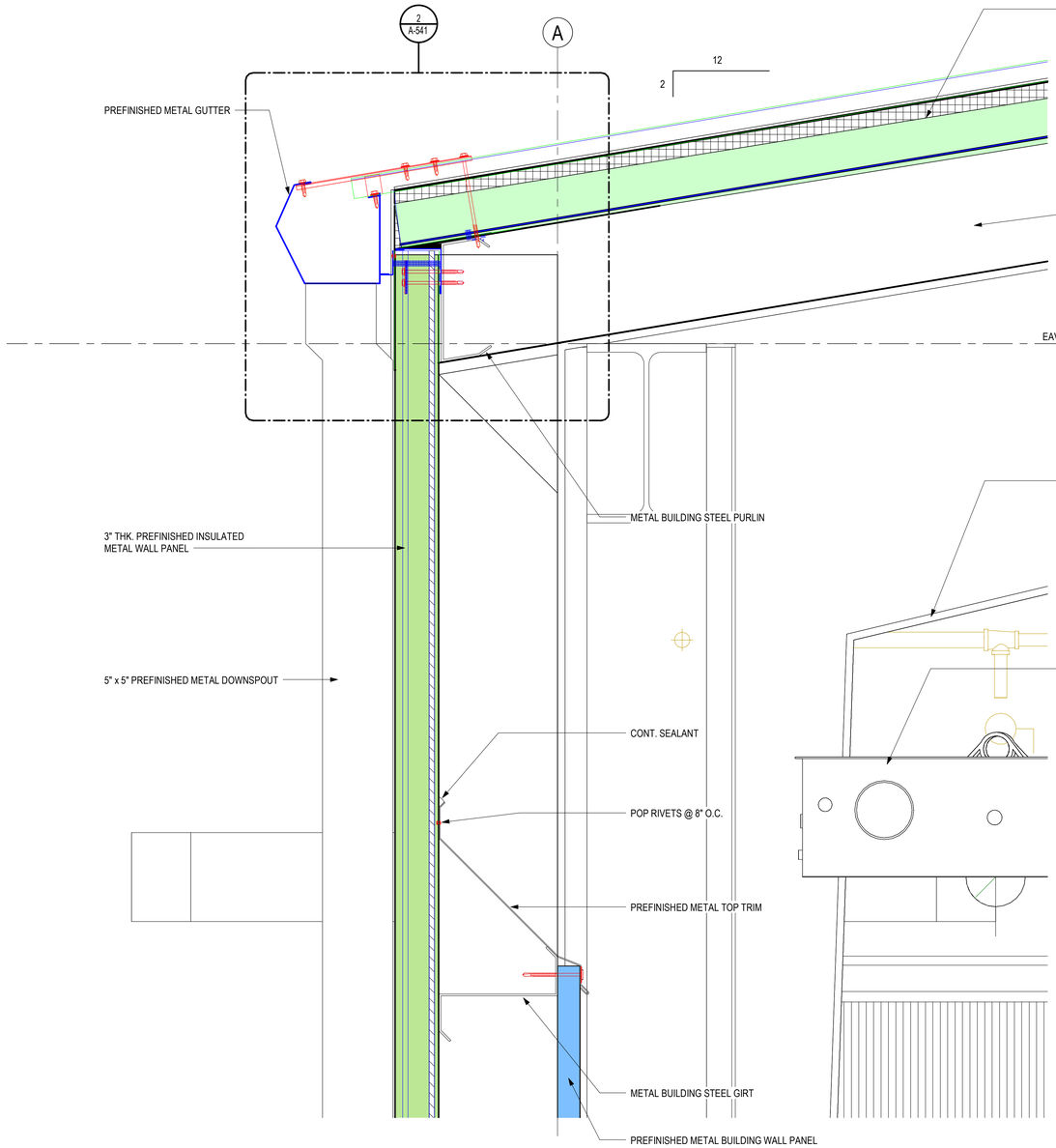
Issue Date 02-06-2024

Sheet Title

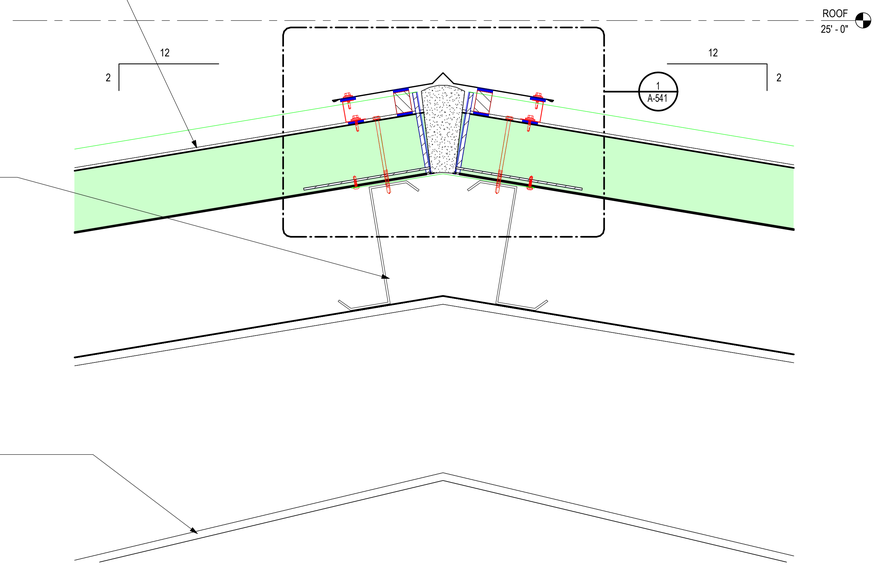
DOOR DETAILS

Sheet Number

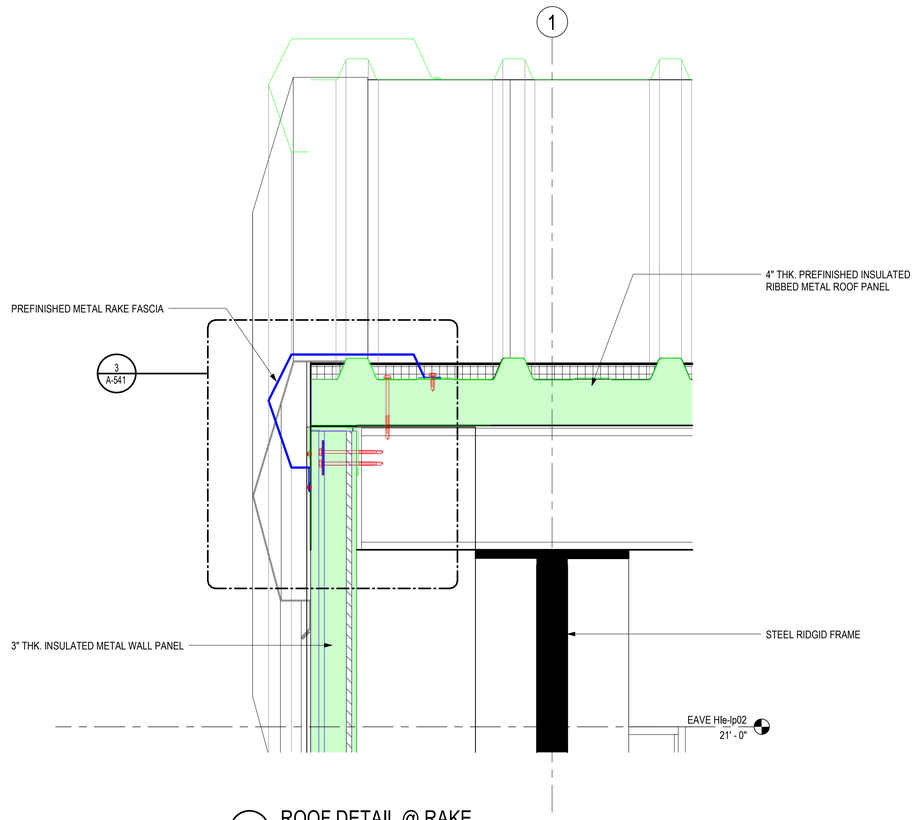
A-520



1 ROOF DETAIL @ GUTTER
3" = 1'-0"



2 ROOF DETAIL @ RIDGE
3" = 1'-0"



3 ROOF DETAIL @ RAKE
3" = 1'-0"

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ARKANSAS

REGISTERED ARCHITECT
EDWIN C. LEVY
2394
ARKANSAS
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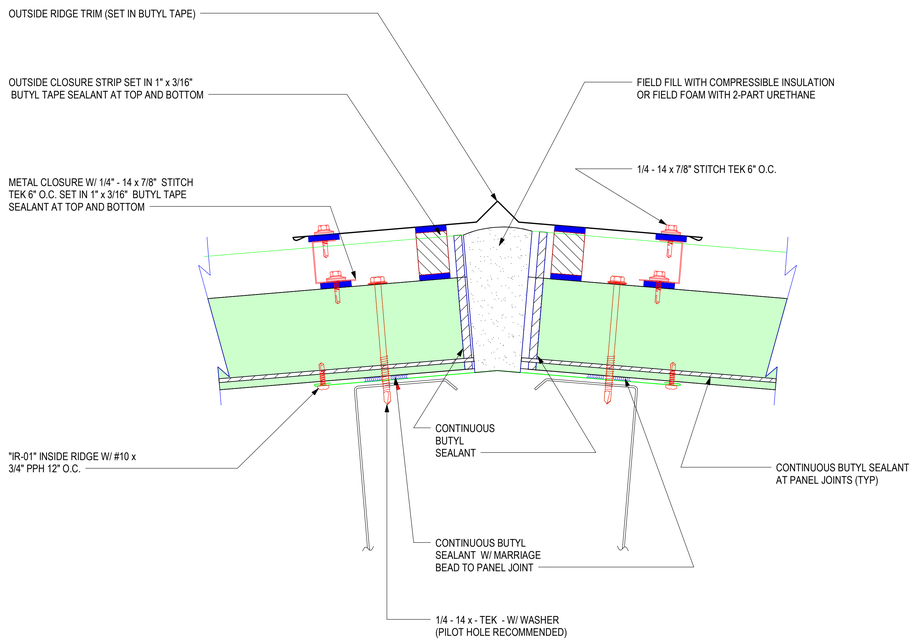
Issue Date **02-06-2024**

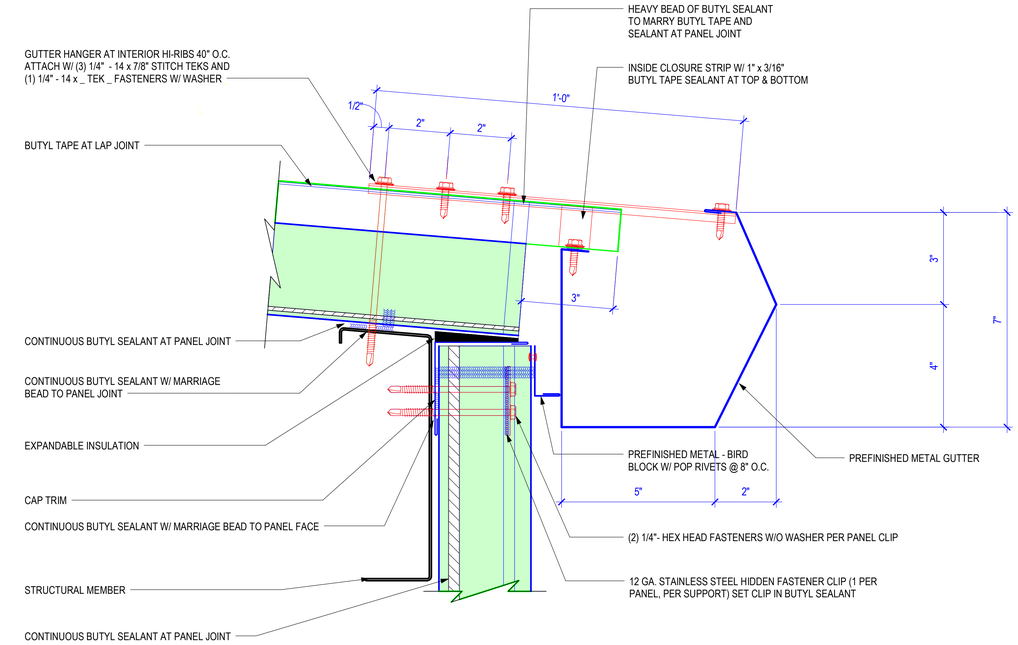
Sheet Title **ROOF DETAILS**

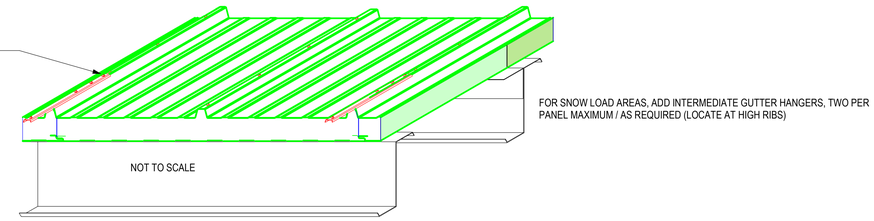
Sheet Number **A-540**



1 RIDGE DETAIL @ ROOF

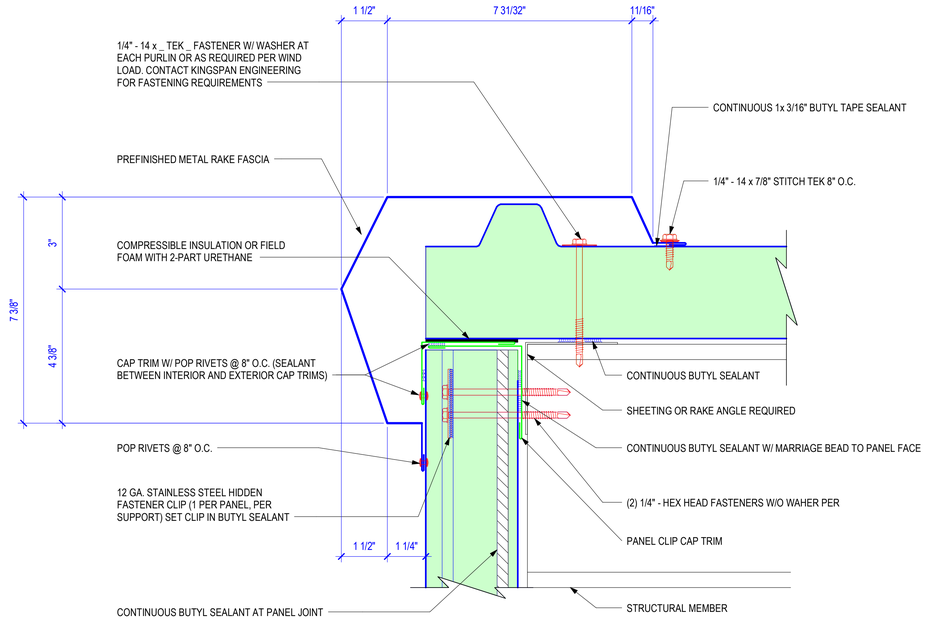
6" = 1'-0"





2 ROOF EDGE DETAIL @ GUTTER

6" = 1'-0"



3 ROOF EDGE DETAIL @ RAKE

6" = 1'-0"

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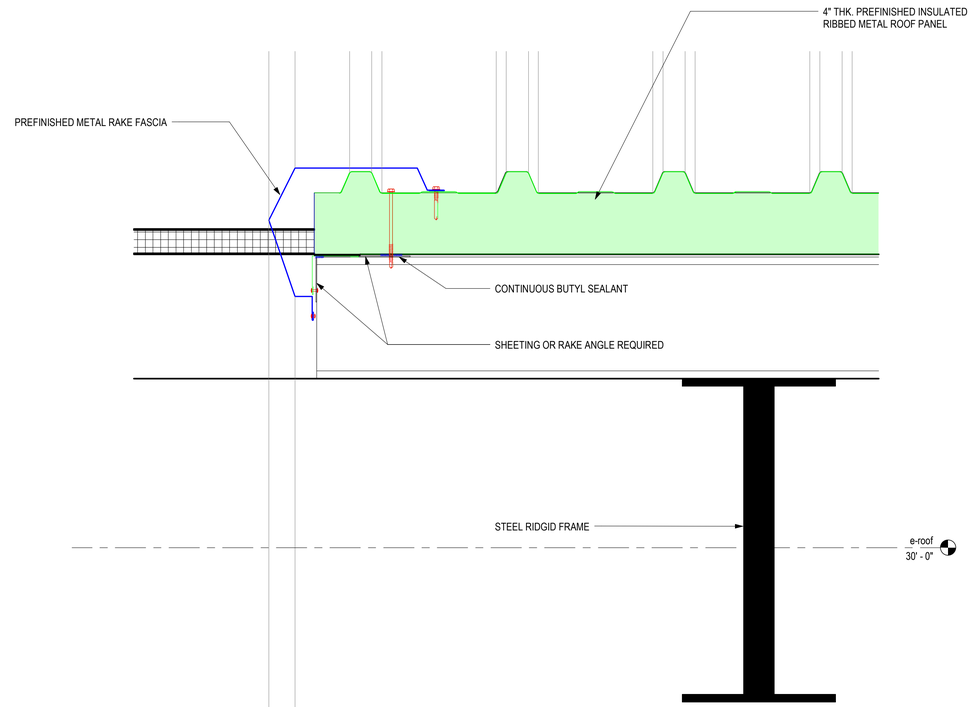
Issue Date **02-06-2024**

Sheet Title **ROOF DETAILS**

Sheet Number **A-541**

1 ROOF GUTTER / EDGE DETAIL @ DOZER BUILDING

6" = 1'-0"



2 ROOF EDGE DETAIL @ RAKE @ DOZER BUILDING

3" = 1'-0"

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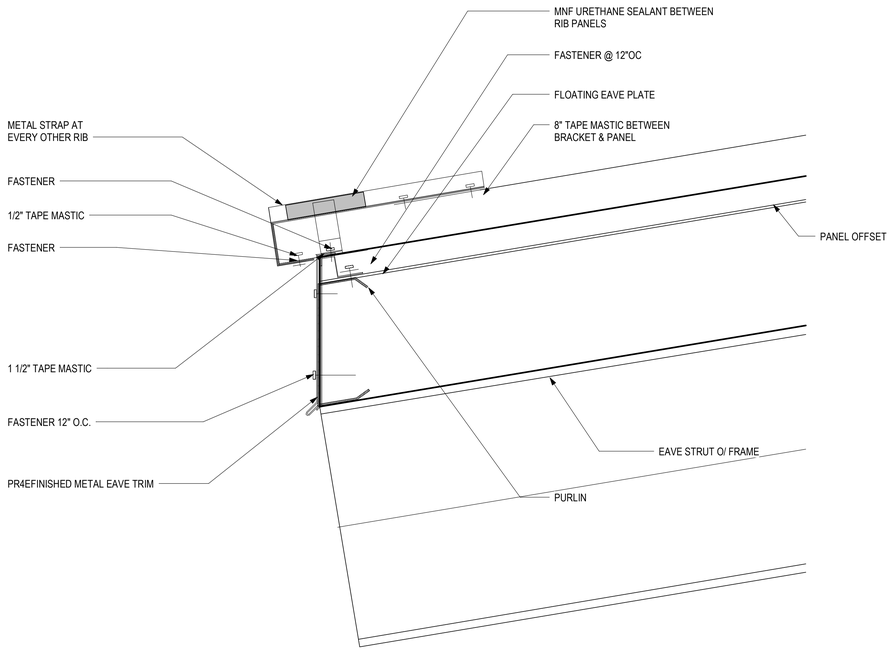
Sheet Title

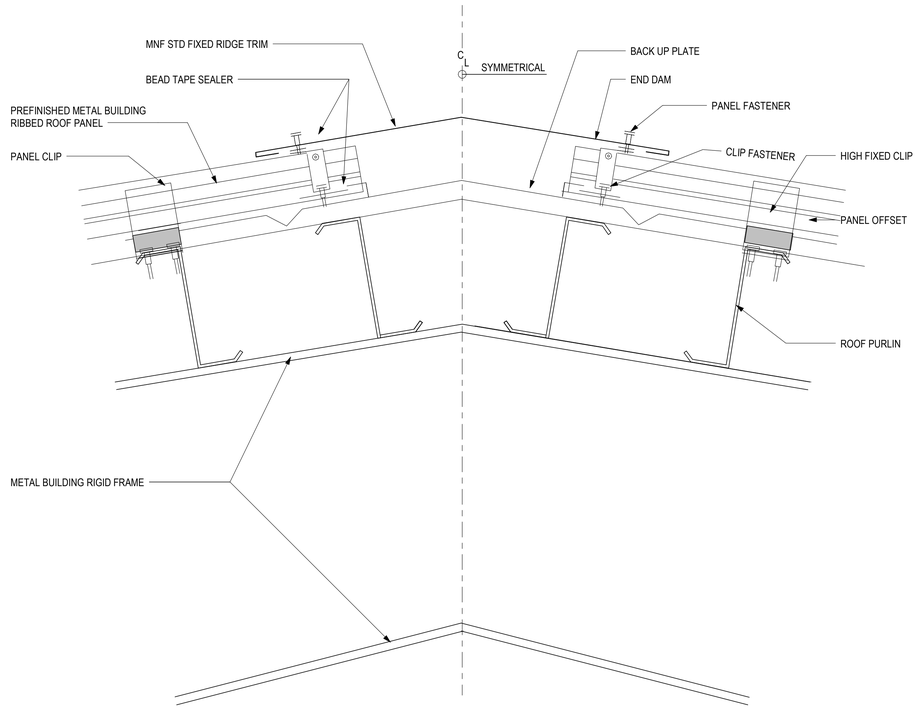
ROOF DETAILS

Sheet Number

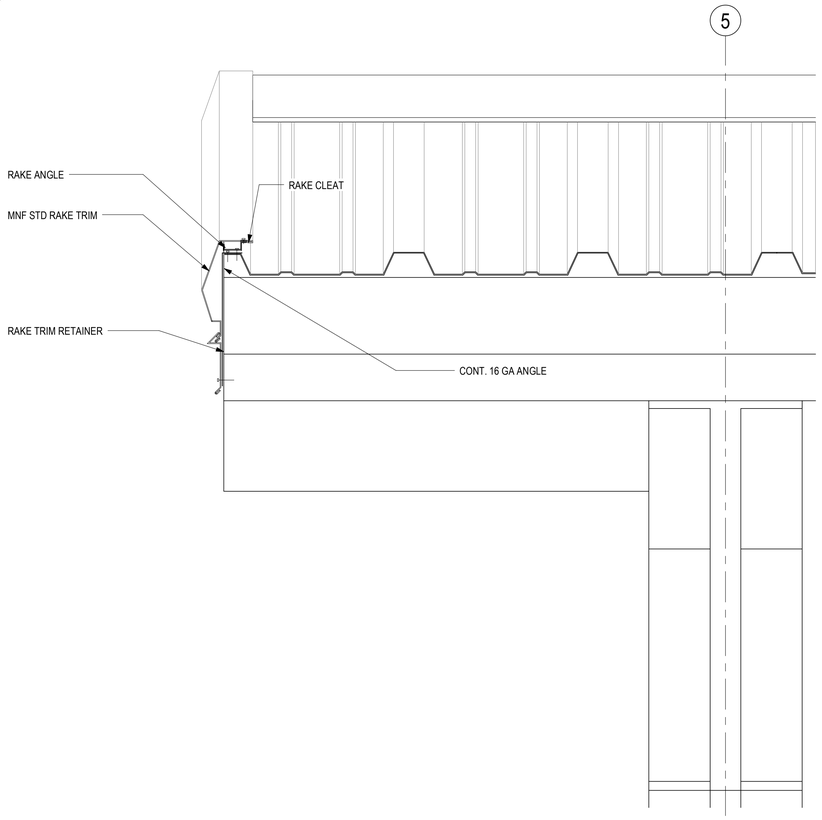
A-542



1 ROOF DETAIL @ GUTTER - DOZER BLDG.
3" = 1'-0"



2 RIDGE DETAIL @ ROOF - DOZER BLDG.
3" = 1'-0"



3 ROOF RAKE DETAIL @ DOZER BLDG.
3" = 1'-0"

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Issue Date **02-06-2024**

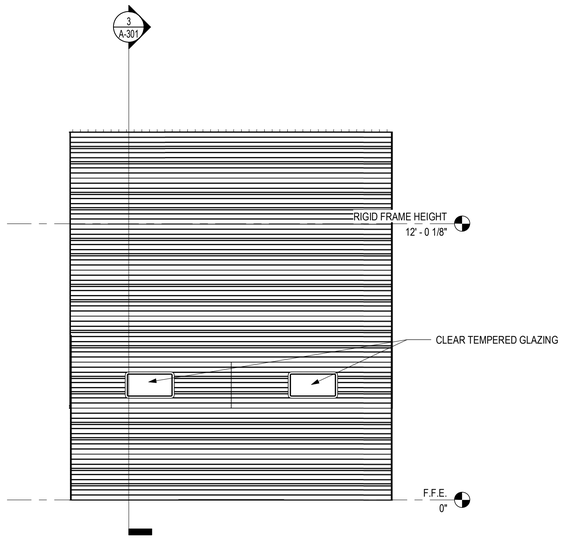
Sheet Title **ROOF DETAILS**

Sheet Number **A-543**

DOOR SCHEDULE

DOOR NO.	DOOR TYPE	SIZE W	SIZE HT	SIZE THK	DOOR MATERIAL	LOUVER W	LOUVER H	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DETAILS HEAD	DETAILS JAMB	DETAILS THRSHLD.	FIRE RATING IN MINUTES	HARDWARE SET NO.	DOOR NO.	COMMENTS
101	A	3' - 0"	7' - 0"	1 3/4"	IHM	-	-	HM-1	HM	PAINTED	3/A-520	4/A-520	5/A-501	-	1	101	
102	OHD-4	14' - 0"	16' - 0"	-	-	-	-	-	-	-	1/A-520	2/A-520	-	-	-	102	INSULATED SECTIONAL OVERHEAD DOOR WITH AUTOMATIC DOOR OPERATOR - EXTEND BOTTOM OF TRACK MIN. 19' - 0" CLEAR A.F.F.
103	A	3' - 0"	7' - 0"	1 3/4"	IHM	-	-	HM-1	HM	PAINTED	3/A-520	4/A-520	5/A-501	-	1	103	
104	OHD-4	14' - 0"	16' - 0"	-		-	-	-	-	-	1/A-520	2/A-520	-	-	-	104	INSULATED SECTIONAL OVERHEAD DOOR WITH AUTOMATIC DOOR OPERATOR - EXTEND BOTTOM OF TRACK MIN. 19' - 0" CLEAR A.F.F.
105	A	3' - 0"	7' - 0"	1 3/4"	IHM	-	-	HM-1	HM	PAINTED	3/A-520	4/A-520	5/A-501	-	1	105	
106	A	3' - 0"	7' - 0"	1 3/4"	IHM	-	-	HM-1	HM	PAINTED	3/A-520	4/A-520	5/A-501	-	1	106	

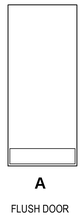
MATERIALS	
AL	ALUMINUM
ALG	ALUMINUM AND GLASS STOREFRONT DOOR
CT	CLEAR TEMPERED GLASS
GHM	GALVANIZED HOLLOW METAL
HM	HOLLOW METAL
IHM	INSULATED HOLLOW METAL
SCW	SOLID CORE WOOD
ST	STEEL
W	WOOD
MATERIALS	
S	STAIN
P	PAINT
CA	CLEAR ANODIZED



INSULATED OVERHEAD SECTIONAL DOOR
DOOR TRACK TO HAVE A MININUM CLEAR HEIGHT OF 19'-0" A.F.F.

1 OHD - 1

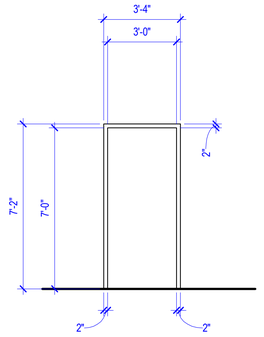
3/8" = 1'-0"



FLUSH DOOR

2 FLUSH INSULATED METAL DOOR TYPE

3/8" = 1'-0"



3 HM 1 - HOLLOW METAL FRAME

3/8" = 1'-0"

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Project Number **2023-143**

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Sheet Title **DOOR SCHEDULE**

Sheet Number **A-620**

ABBREVIATIONS

AC	AIR COMPRESSOR	HS	HOSE STATION
ACU	AIR CONDITIONING UNIT	HT	HEIGHT
AD	AREA DRAIN	HTG	HEATING
AFC	ABOVE FINISH CEILING	HVAC	HEATING, VENTILATION, AIR COND.
AFF	ABOVE FINISH FLOOR	HW	HOT WATER
AFG	ABOVE FINISHED GRADE	HWG	HOT WATER GENERATOR
AHJ	AUTHORITY HAVING JURISDICTION	HWR	HOT WATER RETURN
APPROX	APPROXIMATE	HWST	HOT WATER STORAGE TANK
ARCH	ARCHITECT/ARCHITECTURAL	ID	INSIDE DIAMETER/DIMENSION
ARD	AUXILIARY ROOF DRAIN	KW	KILOWATTS
BFF	BELOW FINISH FLOOR	LAV	LAVATORY
BLDG	BUILDING	LF	LINEAR FEET
BTU	BRITISH THERMAL UNITS	LPG	LIQUID PETROLEUM GAS
BTUH	BRITISH THERMAL UNITS/HOUR	LWT	LEAVING WATER TEMPERATURE
CAP	CAPACITY	MAX	MAXIMUM
CB	CATCH BASIN	MBH	THOUSAND BTU/PER HOUR
CD	CONDENSATE DRAIN	MDL	MODEL
CFH	CUBIC FEET/HOUR	MECH	MECHANICAL
CFM	CUBIC FEET/MINUTE	MFR	MANUFACTURER
CI	CAST IRON	MH	MANHOLE
CLG	CEILING	MIN	MINIMUM
CO	CLEAN OUT	MISC	MISCELLANEOUS
COL	COLUMN	MTD	MOUNTED
CONC	CONCRETE	NA	NOT APPLICABLE
CONN	CONNECT	NFPA	NATIONAL FIRE PROTECTION ASSO.
CONST	CONSTRUCTION	NTS	NOT TO SCALE
CONT	CONTINUE	OA	OUTSIDE AIR
COTG	CLEAN OUT TO GRADE	OD	OUTSIDE DIAMETER/DIMENSION
CP	CIRCULATING PUMP	PD	PRESSURE DROP
CR	CONDENSATE RETURN	PLBG	PLUMBING
CW	COLD WATER	PRESS	PRESSURE
DCOTG	DOUBLE CLEANOUT TO GRADE	PRV	PRESSURE REDUCING VALVE
DD	DESICCANT DEHUMIDIFIER	PSI	POUNDS PER SQUARE INCH
DEG(°)	DEGREE	RA	RETURN AIR
DEMO	DEMOLITION	RD	ROOF DRAIN
DF	DRINKING FOUNTAIN	REF	REFERENCE
DIA	DIAMETER	REQD	REQUIRED
DS	DOWN SPOUT	REV	REVISION, REVISED
DTL	DETAIL	RM	ROOM
EFF	EFFICIENT	RPM	REVOLUTIONS PER MINUTE
ELEC	ELECTRICAL	SC	STEAM CONDENSATE
ELEV	ELEVATION	SCH	SCHEDULE
EQ	EQUAL	SECT	SECTION
EQUIP	EQUIPMENT	SK	SINK
EWH	ELECTRIC WATER HEATER	SP	STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE	SPEC	SPECIFICATION(S)
EX, EXT	EXISTING	SS	SANITARY SEWER
EXP	EXPANSION	ST	STEAM
FCO	FLOOR CLEANOUT	STL	STEEL
FD	FLOOR DRAIN	SUCT	SUCTION
FL	FLOW LINE	TDH	TOTAL DYNAMIC HEAD
FLEX	FLEXIBLE CONNECTION	TEMP	TEMPERATURE
FLR	FLOOR	TH	TOTAL HEAD
FPM	FEET PER MINUTE	TMV	THERMOSTATIC MIXING VALVE
FPRH	FREEZE PROOF ROOF HYDRANT	TWMV	THREE WAY MODULATING VALVE
FPWH	FREEZE PROOF WAL HYDRANT	TYP	TYPICAL
FS	FLOOR SINK	UL	UNDERWRITERS LABORATORY
G	GAS	UR	URINAL
GA	GAUGE	V	VENT
GAL	GALLON	VEL	VELOCITY
GALV	GALVANIZED	VERT	VERTICAL
GI	GREASE INTERCEPTOR	VLV	VALVE
GPH	GALLONS PER HOUR	VOL	VOLUME
GPM	GALLONS PER MINUTE	VTR	VENT THROUGH ROOF
GT	GREASE TRAP	WC	WATER CLOSET
GWH	GAS WATER HEATER	WCO	WALL CLEANOUT
HB	HOSE BIBB	WP	WORKING PRESSURE
HP	HORSE POWER	WT	WEIGHT
HRWH	HEAT RECLAIM WATER HEATER	WTR	WATER

GENERAL PLUMBING SYMBOLS

- REVISION NUMBER SHOWN ON PLANS
- POINT WHERE NEW CONNECTS TO EXISTING
- DEMOLISH TO POINT INDICATED
- 1 / P-001 — NUMBER OF DETAIL ON SHEET / NUMBER OF SHEET WHERE DETAIL APPEARS
- 1 — KEYNOTE
- PIPE CONTINUATION

SPACE TAG:

- OFFICE — SPACE NAME
- 101 — SPACE NUMBER
- 100 SF — SPACE AREA
- ITEM TO BE DEMOLISHED
- AREA NOT IN CONTRACT

SEISMIC DESIGN CRITERIA

1. SEISMIC DESIGN DATA:
   - A. SEISMIC DESIGN CATEGORY: C
     - a. SEE SHEET S-001 FOR MORE INFO.
2. THE FOLLOWING COMPONENT TIMPORTANCE FACTORS ARE USED:
   - A. WATER HEATERS (STORAGE WATER 140°F): 1.5
   - B. WATER PIPING (GREATER THAN 120°F): 1.5
   - C. SEWER PIPING: 1.5
   - D. NATURAL GAS PIPING: 1.5
3. SEISMIC BRACING IS NOT REQUIRED FOR THE PLUMBING COMPONENTS.
4. REFER TO THE SPECIFICATIONS.

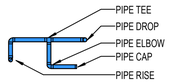
PLUMBING PHASING

- EWH-1 — NEW CONSTRUCTION PLUMBING EQUIPMENT/ FIXTURES (TYPICAL TAG FOR ALL NEW CONSTRUCTION)
- (E)EWH-1 — EXISTING PLUMBING EQUIPMENT/FIXTURES (TYPICAL TAG FOR ALL EXISTING)
- (D)EWH-1 — PLUMBING EQUIPMENT/FIXTURES FOR DEMOLITION (TYPICAL TAG FOR ALL DEMOLITION)

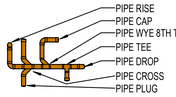
PIPING LEGEND

(E)	EXISTING PIPE TAG
(D)	DEMOLISHED PIPE TAG
CW	DOMESTIC COLD WATER
HW	HOT WATER 120°F
HWR	HOT WATER 120°F RECIRC.
G	NATURAL GAS
CD	CONDENSATE DRAIN
SPD	PUMP DISCHARGE
SS	SANITARY SEWER
V	SANITARY VENT
SD	STORM DRAIN
ASD	STORM DRAIN OVERFLOW / AUX

PRESSURE PIPE SYMBOLS



GRAVITY PIPE SYMBOLS



PIPE ACCESSORIES

- 3-WAY MOTORIZED CONTROL VALVE
- 3-WAY MIXING VALVE
- BALANCING VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- ELBOW VALVE
- GATE VALVE
- GLOBE VALVE
- MOTOR CONTROL VALVE
- PRESSURE REDUCING VALVE
- PLUG VALVE
- SOLENOID VALVE
- THREE-WAY VALVE
- STRAINER-WYE
- STRAINER-WYE WITH BLOWOFF VALVE

DUCTWORK LEGEND

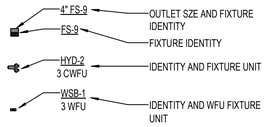
C/F	CONCENTRIC FLUE
C/A	COMBUSTION AIR
F/A	EXHAUST AIR

- DROP / RISE — ROUND CONCENTRIC FLUE AIR DUCT RISE
- DROP / RISE — ROUND COMBUSTION AIR DUCT RISE
- DROP / RISE — ROUND EXHAUST AIR DUCT RISE

PLUMBING TAGS

PIPE TAG

FIXTURE TAG



PLUMBING SHEET SET NOTE

* NOTE *
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THE CONTAINED REFERENCE DRAWINGS.

PLUMBING GENERAL NOTES

1. ALL PLUMBING SYSTEMS SHALL BE INSTALLED AS PER SPECIFICATIONS AND GOVERNING CODES.
2. ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRIC RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, FITTING OR COMPONENT. CONTRACTOR SHALL NOT SCALE DRAWINGS. INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE-VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH. THE CONTRACTOR SHALL SUBMIT A REQUEST FOR INFORMATION (RFI) IF INFORMATION CONFLICTS. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY CONTRACT DOCUMENTS. REFER TO ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND OTHER DRAWINGS FOR COMPLETE INFORMATION.
3. BY NECESSITY, THESE DRAWINGS REFLECT A SYSTEM DESIGNED AROUND SPECIFIC REFERENCE PRODUCTS, THE SELECTION OF WHICH HAS IMPACTED THE DESIGNS OF OTHER TRADES (HVAC, ELECTRICAL, STRUCTURAL, ETC.). IF ALTERNATE MANUFACTURERS, FUEL SOURCES, SIZES, OR MODEL NUMBERS ARE SUBMITTED OR BID, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS TO COORDINATE ALL DIFFERENCES PRIOR TO BID. NO EXTRAS WILL BE ALLOWED FOR CHANGES REQUIRED TO OTHER TRADES IF ALTERNATE EQUIPMENT IS BID OR INSTALLED AT THE CONTRACTORS OPTION.
4. EXCEPT WHERE MODIFIED BY SPECIFIC NOTATION TO THE CONTRARY, IT SHALL BE UNDERSTOOD THAT THE INDICATION AND/OR DESCRIPTION OF ANY ITEM, IN THE DRAWINGS OR SPECIFICATIONS OR BOTH, CARRIES WITH IT THE INSTRUCTION TO FURNISH AND INSTALL THE ITEM, REGARDLESS OF WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED AS PART OF THE INDICATION OR DESCRIPTION.
5. CONTRACTOR SHALL PAY ALL UTILITY FEES & CHARGES AS PART OF BASE BID IN THE CONTRACT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THAT OF OTHER TRADES; i.e., ARCHITECTURAL, HVAC, ELECTRICAL, STRUCTURAL, FIRE PROTECTION AND CIVIL PRIOR TO CONSTRUCTION.
7. THE CONTRACTOR SHALL COORDINATE UTILITY LOCATIONS, SIZES AND INVERT ELEVATIONS PRIOR TO CONSTRUCTION; i.e., SANITARY SEWER, STORM DRAIN, FIRE PROTECTION, DOMESTIC WATER AND NATURAL GAS. ALL SERVICES SHALL TERMINATE 5 FEET OUTSIDE THE BUILDING, EXCEPT WHERE SHOWN OTHERWISE. SEE SITE UTILITY DRAWINGS FOR CONTINUATION OF ALL SERVICE LINES.
8. PROVIDE ISOLATION VALVES AT EACH FIXTURE GROUP OR BATTERY OF FIXTURES IN THE DOMESTIC CW, HW, HWR AND GAS PIPING. VALVES SHALL BE EASILY ACCESSIBLE. WHERE HARD CEILINGS ARE LOCATED, VALVES SHALL BE ACCESSED THROUGH ACCESS PANELS. ACCESS PANELS SHALL BE COORDINATED WITH ARCHITECT PRIOR TO CONSTRUCTION.
9. PROVIDE ALL FITTINGS, TRANSITIONS, COUPLINGS, ADAPTERS, UNIONS, AND OTHER ACCESSORIES NEEDED TO COMPLETE CONNECTIONS AND PROPER OPERATIONS OF PLUMBING FIXTURES AND PLUMBING EQUIPMENT.
10. REFER TO SPECIFICATIONS FOR ACCEPTABLE MANUFACTURERS OF PLUMBING FIXTURES AND EQUIPMENT, AND PROPER APPLICATIONS OF SAME.
11. PROVIDE CLEANOUTS IN ALL SEWERS, WHETHER SHOWN OR NOT, AT INTERVALS NOT TO EXCEED 50 FEET, AT EACH CHANGE OF DIRECTION GREATER THAN 45°, AND ALL VERTICAL STACKS AT A HEIGHT OF 30" ABOVE FINISH FLOOR AT THE BASE OF EACH STACK.
12. WHERE WATER PRESSURES EXCEED 70 PSI, PROVIDE WATER PRESSURE REDUCING VALVES (PRV) CONFORMING TO ASSE 1003 WITH STRAINER IN WATER SUPPLY LINES, SETTING AT 70 PSI. SEE CODE AND MANUFACTURER INFORMATION FOR ACCEPTABLE PRESSURE REQUIREMENTS.
13. ALL PIPING PENETRATIONS OF THE RATED CEILING AND WALL MUST BE MADE WITH METAL PIPE OR UL LISTED APPROVED DEVICES. FIRE STOP ALL PIPE PENETRATIONS THRU RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS, RATINGS AND FIRE STOPPING DETAILS.
14. DO NOT ROUTE ANY PIPING OVER ELEC. ROOMS, COMPUTER ROOMS, OR ELEC. PANELS.
15. INSTALL AN AGA LISTED NATURAL GAS COCK, DIRT LEG AND UNION IMMEDIATELY UPSTREAM OF EQUIPMENT CONNECTIONS. AS NOTED ON DRAWINGS PROVIDE AN AGA LISTED VENT LIMITING GAS REGULATOR. GAS REGULATORS SHALL NOT BE INSTALLED IN AIR PLENUMS (SEE HVAC PLANS FOR AIR PLENUM LOCATIONS). PAINT ALL NATURAL GAS PIPING WITH TWO COATS OF OIL BASED YELLOW PAINT IN ALL LOCATIONS NOT SPECIFIED BY ARCHITECT.
16. ALL DOMESTIC WATER PIPING ROUTED IN AREAS SUBJECT TO FREEZING TEMPERATURES SHALL BE ROUTED BELOW INSULATION AND WITHIN THE HEATED ENVELOPE OF THE BUILDING. WHERE PIPING CAN NOT BE ROUTED BELOW INSULATION, PIPING SHALL HAVE 5 WATT/FT HEAT TRACING ATTACHED. SEE ARCHITECTURAL DRAWINGS FOR INSULATION PLACEMENT AND DETAILS. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR AND ENGINEER.
17. UNLESS OTHERWISE INDICATED, DO NOT ROUTE WATER PIPING IN EXTERIOR WALLS. WHEN ROUTED IN EXTERIOR WALLS, CAREFULLY POSITION WATER PIPING ON THE HEATED SIDE (INTERIOR SIDE) OF THE WALL INSULATION.
18. MAINTAIN 10'-0" MINIMUM CLEARANCE BETWEEN FRESH AIR INTAKES, OPERABLE WINDOWS AND FLUES, PLUMBING VENTS AND GAS REGULATORS.
19. ALL STORM DRAIN, CONDENSATE DRAIN, SEWER & VENT PIPING SHALL BE RODDED AND CLEANED AT END OF CONSTRUCTION. ALL TRAPS SHALL BE CLEANED AND PRIMED AT END OF CONSTRUCTION.
20. ALL PIPE DROPS FROM CEILING PLENUM TO FLOOR SHALL BE MADE IN FURROUTS AT COLUMNS, IN WEB OF BEAMS AT COLUMNS OR IN WALLS. PIPING SHALL BE CONCEALED UNLESS APPROVED BY ARCHITECT.
21. PROVIDE WATER HAMMER ARRESTORS IN FIXTURE BRANCHES WHERE QUICK CLOSING VALVES ARE INSTALLED; i.e., FLUSH VALVES, ICE MAKERS, DISHWASHERS, ETC.
22. BELOW SLAB WATER PIPE TO BE TYPE K SOFT DRAWN COPPER WITHOUT FITTINGS OR JOINTS. SLEEVE IN ENTIRETY WITH ARMAFLEX OR APPROPRIATE POLYETHYLENE SLEEVE MATERIAL.
23. PROVIDE APPROVED BACKFLOW PREVENTION OR ANTI-SIPHON DEVICES AT ALL FIXTURES THAT COULD CONTAMINATE THE POTABLE WATER SYSTEM.
24. INSULATE ALL WATER, CONDENSATE, STORM DRAIN PIPING (VERTICAL AND HORIZONTAL) AND ROOF DRAIN BODIES ABOVE FINISH FLOOR. SEE SPECIFICATIONS FOR THICKNESS SCHEDULE.
25. INSULATE ALL EXPOSED HOT WATER & DRAIN PIPING FOR ACCESSIBLE FIXTURES PER ANSI A117.1 AND ADA REQUIREMENTS.
26. FLOOR DRAINS IN MECHANICAL ROOMS ARE SHOWN FOR GENERAL LOCATION ONLY. FLOOR DRAINS SHALL BE ACCESSIBLE AND SHALL BE VERIFIED WITH EQUIPMENT LAYOUT FOR INTERFERENCES.
27. AN APPROVED TRAP SEAL DEVICE CONFORMING TO ASSE 1072 SHALL BE INSTALLED AT ALL FLOOR AND HUB DRAINS. ALL DRAINS SHALL HAVE DEEP SEAL TRAPS, 4" DEEP SEAL MINIMUM. INSTALL TRAP GUARD DEVICES PER MANUFACTURER'S INSTRUCTIONS.
28. DOMESTIC WATER SERVICE PIPING AND FITTINGS; E.G., CHECK VALVES, RPZA, SHUT-OFF VALVES, STRAINERS, PRESSURE REGULATORS, ETC. SHALL COMPLY WITH NSF 61 CRITERIA. ALL CAST IRON EQUIPMENT IS TO BE INTERNALLY EPOXY COATED.
29. SLOPE 2-1/2" AND SMALLER DRAIN WASTE AND VENT (DWV) LINES AT MIN, (2%) 1/4" FALL PER FT., 3" TO 6" DWV LINES AT MIN. (1%) 1/8" FALL PER FT. AND 8" AND LARGER DWV LINES AT MIN. (.5%) 1/16" FALL PER FT. SANITARY SEWER AND WATER SHALL BE A MINIMUM OF 10' APART OR THE DOMESTIC WATER SERVICE SHALL BE 12" ABOVE THE TOP OF THE SEWER LINE, AT ITS HIGHEST POINT, IF PLACED IN SAME TRENCH.

SANITARY SEWER CLEANING AND HYDROSCOPE INSPECTION NOTES:

CONTRACTOR SHALL FACILITATE THE CLEANING OF THE BUILDING SANITARY SEWER SYSTEM AND HYDROSCOPING INSPECTION OF THE CLEANED SANITARY SEWER LINES AND PROVIDE THE OWNER WITH A DETAILED REPORT THAT INCLUDES AS-BUILT PLANS.

CLEANING:
THE SANITARY SEWER SYSTEM SHALL BE THOROUGHLY CLEANED FROM THE NEAREST MANHOLE TO THE MOST REMOTE PIPE IN THE SYSTEM. DURING THE COURSE OF NORMAL CLEANING OPERATIONS, IMMEDIATELY REPORT PRE-EXISTING DAMAGE SUCH AS BROKEN OR MISSING PIPE TO THE CONTRACTING OFFICER'S REPRESENTATIVE. RESTORE PROPERTY DAMAGED AS A RESULT OF SUCH CLEANING AND PREPARATION OPERATIONS TO PRE-EXISTING CONDITIONS. CONTRACTOR SHALL ASSUME THAT HEAVY CLEANING IS REQUIRED ON ALL SANITARY PIPING 3" AND LARGER.

INSPECTION:
AFTER SANITARY SEWER SYSTEM HAS BEEN PROPERLY CLEANED, PROVIDE A COMPLETE HYDROSCOPING INSPECTION OF THE CLEANED LINES. PROVIDE A CONTINUOUS AND UNINTERRUPTED RECORDED VIDEO FOR THE ENTIRE SANITARY SEWER SYSTEM SHOWING THE DIRECTION OF VIDEO AND FLOW, PIPE SIZES AND MATERIAL, MATERIAL CHANGES IN THE PIPE SEGMENT, PIPE LATERALS, FIXTURES, AND PROBLEM AREAS WITHIN THE SYSTEM.

REPORT:
SUBMIT A DETAILED REPORT TO THE CONTRACTING OFFICER'S REPRESENTATIVE UPON CLEANING AND INSPECTION COMPLETION. HYDROSCOPING VIDEO AND AS-BUILT PLANS THAT INCLUDE ALL PIPING LOCATIONS, PIPE DIAMETERS, PIPE MATERIAL, LATERALS AND BRANCH LOCATIONS, DEFECTS, AND ANY UNUSUAL CONDITIONS FOUND SHALL BE INCLUDED IN THE REPORT.

PLUMBING FIXTURE SCHEDULE

(NOTE: FIXTURES SCHEDULED ARE BASIS OF DESIGN. PROVIDE LISTED APPROVED "EQUAL TO" FIXTURES SCHEDULED)

FS-1 FLOOR SINK, EXISTING EQUIPMENT BUILDING
FIXTURE - EQUAL TO **ZURN #1902-2-19-32**, 12" X 12" X 10" DEEP CAST IRON FLOOR SINK, ½ NICKEL BRONZE GRATE, WITH FLANGE, INTEGRAL CLAMPING COLLAR, HEAVY DUTY, ACID RESIST EPOXY COATED (A.R.C.) CAST IRON, ANTI-SPLASH ALUMINUM BOTTOM DOME STRAINER, WITH DEEP-SEAL TRAP. PROVIDE **TRUE SEAL** IN-LINE FLOOR DRAIN TRAP SEALER INSERT.
PLUMBINGROUGH-IN - SEE PLAN FOR SIZE.

TD-1 TRENCH DRAIN, TRUCK WASHING BUILDING
FIXTURE – **ZURN #Z150**, 14" SQUARE TOP PROM-DECK DRAIN,DURA-COATED CAST IRON BODY WITH ROTATTABLE SQUARE PROMENADE FRAME WITH SEEPAGE OPENING, FRAME CLAMPS, HEAVY-DUTY HEEL-PROOF DURESIST GRATE AND SEDIMENT BUCKET.
PLUMBING ROUGH-INS – SEE PLANS.

WATER HAMMER ARRESTORS
FIXTURE - **WADE #4481 "SHOKTROL"** STAINLESS STEEL (PISTON TYPE) WHERE REQUIRED IN PIPING SYSTEMS, PROPERLY SIZED WATER HAMMER ARRESTORS SHALL BE PROVIDED. WATER HAMMER ARRESTORS SHALL BE LOCATED ON ALL QUICK CLOSING VALVE (FLUSH VALVES, DISHWASHERS, ICE MAKERS, SOLENOID VALVES, ETC.).

RPZBFP-1 REDUCED PRESSURE ZONE ASSEMBLY BACKFLOW PREVENTER, EXISTING EQUIPMENT BUILDING
FIXTURE – EQUAL TO **WATTS #LF909-3"-S-QT**, LEAD FREE REDUCED PRESSURE ZONE ASSEMBLY, 175 PSI MAX. WORKING PRESSURE, BRONZE BODY, (-S) WYE STRAINER, (-QT) QUARTER-TURN BALL VALVES. FOR POTABLE WATER APPLICATIONS AND SHALL MEET THE REQUIREMENTS OF ASSE STD.1013; AWWA STD. C511-92; CSA B64.5. PROVIDE WALL SUPPORT SYSTEM, BRACING, SHUT-OFF VALVES, UNIONS, REDUCERS, ETC.

FPYH FREEZEPROOF YARD HYDRANT
FIXTURE - **WOODFORD #Y34**, ¾" NPT INLET, LEVER HANDLE, 1" GALVANIZED STEEL PIPE CASING, 8 " N.P.T. TAPPED DRAIN HOLE, ¾" VALVE BODY, ¾" BRASS MALE HOSE NOZZLE, 125 P.S.I. MAXIMUM WORKING PRESSURE, ONE PIECE VARIABLE FLOW PLUNGER
PLUMBING ROUGH-INS - ¾" CW.

ACP-1 AIR COMPRESSOR PUMP, EXISTING EQUIPMENT BUILDING
EQUIPMENT - EQUAL TO **INGERSOLL RAND #7100E15-V**, RECIPROCATING ELECTRIC-DRIVEN TWO-STAGE AIR COMPRESSORS VALUE PACKAGE, VERTICAL SIMPLEX UNIT WITH 120 GALLON STORAGE CAPACITY, 50 CFM @ 175 PSIG WORKING PRESSURE, 208 VOLTS/3 PHASE,60 HZ., 5 HP, 17.5 AMPS, 37" LENGTH X 24" WIDTH X 74" HEIGHT. THE COMPRESSOR AND MOTOR ARE ALIGNED ON A HEAVY STEEL BASE.
PLUMBING ROUGH-INS - ¾" NPT OUTLET.

CAF-1 COMPRESSED AIR FILTER, EXISTING EQUIPMENT BUILDING
EQUIPMENT - EQUAL TO **INGERSOLL RAND #FA401G** CARBON COMPREESED AIR FILTER, 22 CFM @ 250 PSIG MAX. PRESSURE, 1 MICRON FILTER RATING, ALUMINUM MATERIAL, 9" HEIGHT X 3" WIDTH.
PLUMBING ROUGH-INS - ½" NPT INLET AND OUTLET.

WATER HAMMER ARRESTOR

WADE SHOKTROL SIZE	#5	#10	#20	#50	#75	#100
P.D.I. UNITS	A	B	C	D	E	F
FIXTURE UNITS	1-11	12-32	33-60	61-113	114-154	155-330

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Project

City of LITTLE ROCK

CITY OF LITTLE ROCK
LANDFILL TRUCK WASH
LITTLE ROCK, ARKANSAS

Design Phase
CONSTRUCTION DOCUMENTS

Revisions

No.	Date	Description

Stamp

02-06-2024

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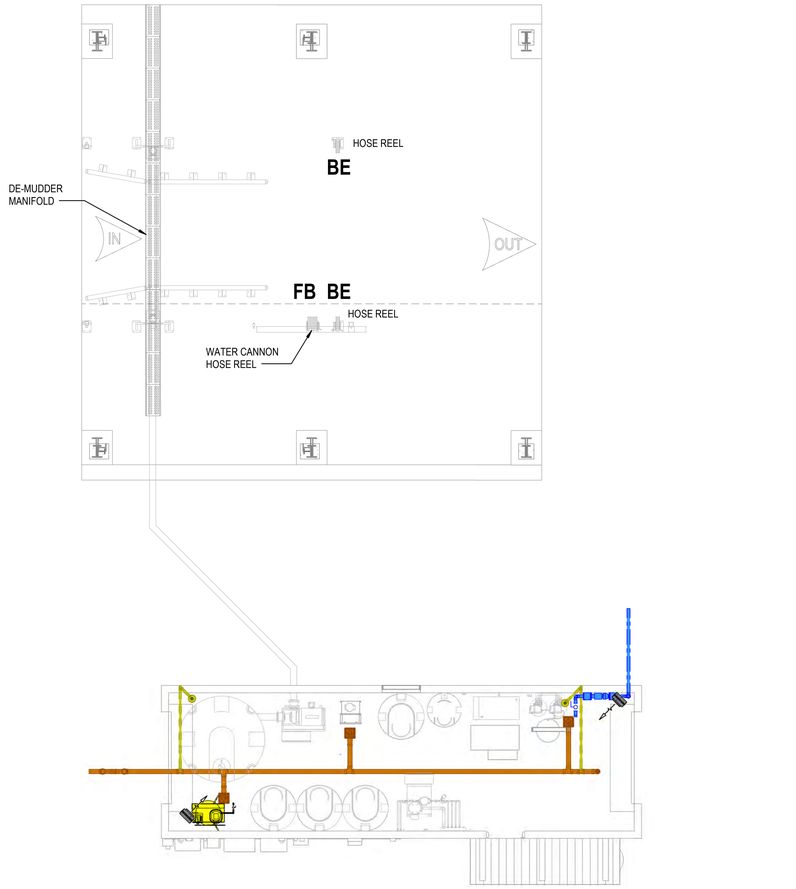
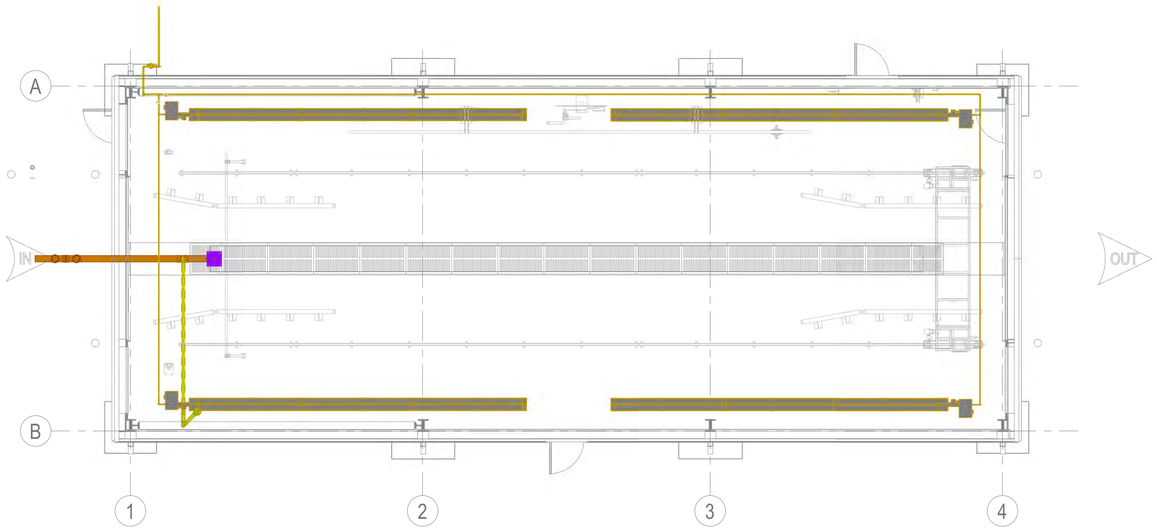
Project Number **2023-143**

Issue Date **02-06-2024**

Sheet Title
PLUMBING FIXTURES SCHEDULE, SYMBOLS, LEGENDS AND NOTES

Sheet Number
P-001





1 OVERALL PLUMBING PLAN
3/16" = 1'-0"
SCALE : 3/16" = 1'-0"

PLUMBING GENERAL NOTES:

1. SEE SHEET **P-001** FOR ADDITIONAL PLUMBING FIXTURES, SYMBOLS, LEGENDS AND NOTES.

2. THIS SHEET IS FOR REFERENCE ONLY, SEE SHEET **P-102** FOR ADDITIONAL INFORMATION OF PLUMBING PLANS.

3. SEE SHEET **A-101** **"FLOOR PLAN GENERAL NOTES"**, NOTE NUMBER 6 FOR ALL PLUMBING (EQUIPMENT, FIXTURES AND PIPING) TO BE REMOVED AND DEMOLISHED ENTIRELY IN EXISTING EQUIPMENT BUILDING.

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Project

City of LITTLE ROCK

CITY OF LITTLE ROCK
LANDFILL TRUCK WASH
LITTLE ROCK, ARKANSAS

Design Phase
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Revisions

No.	Date	Description

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CROMWELL ARCHITECTS ENGINEERS #5 CERTIFICATE OF AUTHORIZATION ARKANSAS ENGINEER

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9395 CHRISTOPHER S. CROM
02-06-2024

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Project Number **2023-143**

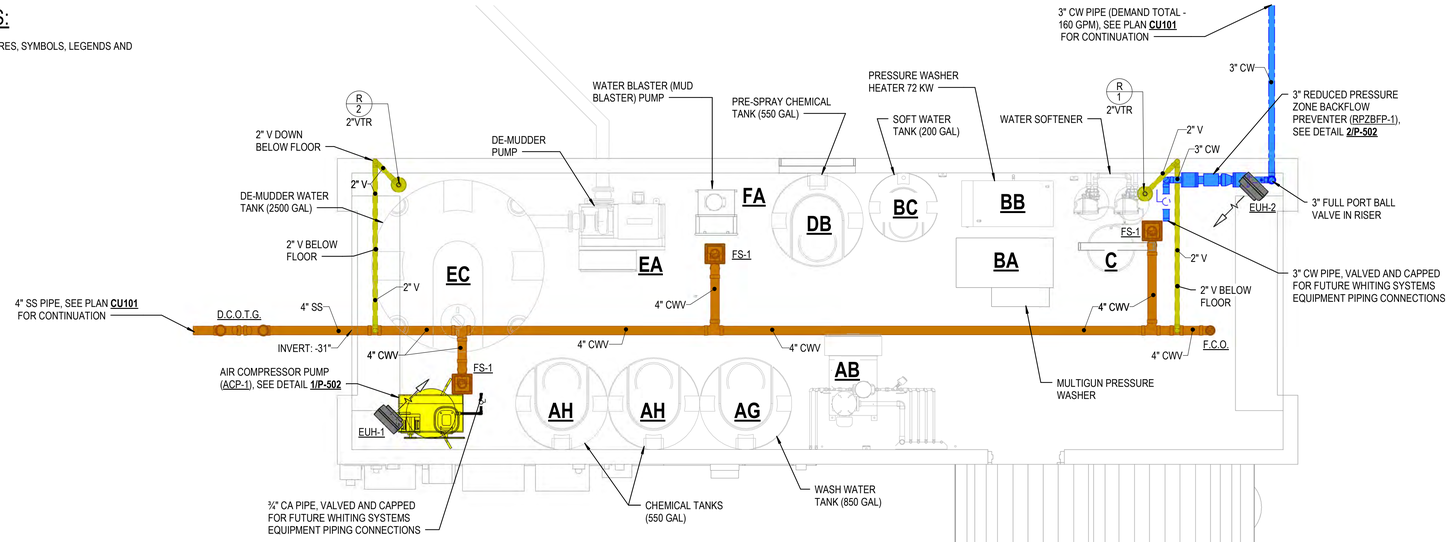
Issue Date **02-06-2024**

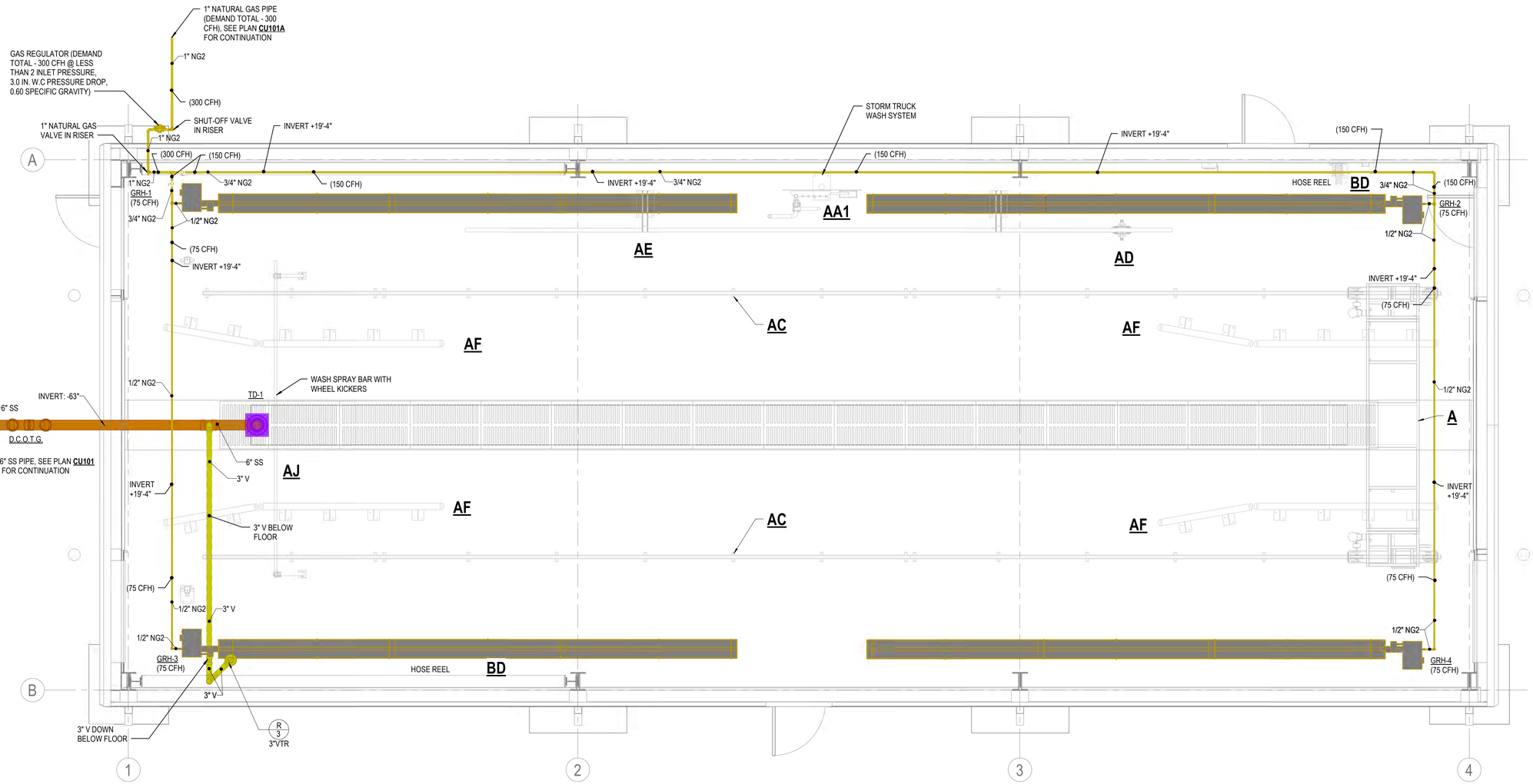
Sheet Title
OVERALL PLUMBING PLAN

Sheet Number
P-101

PLUMBING GENERAL NOTES:

1. SEE SHEET **P-001** FOR ADDITIONAL PLUMBING FIXTURES, SYMBOLS, LEGENDS AND NOTES.





1 PLUMBING PLAN - TRUCK WASH BLDG & EXIST. EQUIP BLDG
3/8" = 1'-0"

SCALE : 3/8" = 1'-0"

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Project

City of LITTLE ROCK

CITY OF LITTLE ROCK

LANDFILL TRUCK WASH

LITTLE ROCK, ARKANSAS

Design Phase

CONSTRUCTION DOCUMENTS

Revisions

No.	Date	Description

Stamp

CERTIFICATE OF AUTHORIZATION — CROMWELL ARCHITECTS/ ENGINEERS #5 — ARKANSAS ENGINEER

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 9395 — CHRISTOPHER R. CROMWELL

02-06-2024

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Project Number **2023-143**

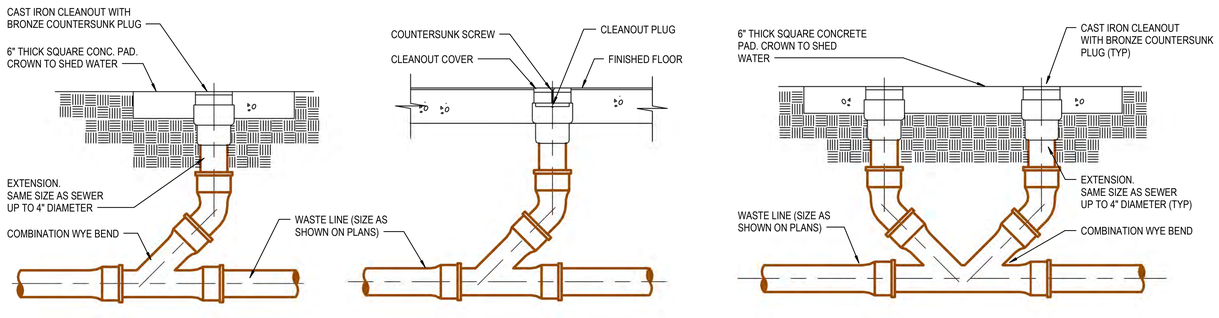
Issue Date **02-06-2024**

Sheet Title

PLUMBING PLAN - TRUCK WASH BLDG & EXIST. EQUIP BLDG

Sheet Number

P-102

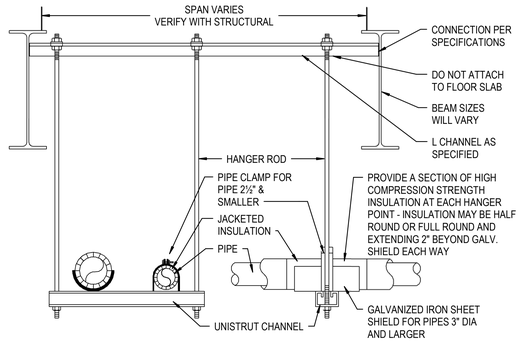


A CLEANOUT-TO-GRADE
NOTE: SEE SPECIFICATIONS FOR MATERIALS

B FLOOR CLEANOUT
NOTE: SEE SPECIFICATIONS FOR MATERIALS

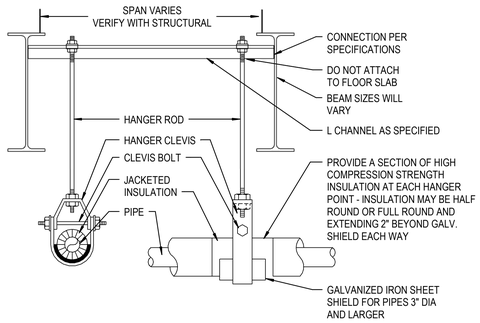
C DOUBLE CLEANOUT-TO-GRADE
NOTE: SEE SPECIFICATIONS FOR MATERIALS

1 TYPICAL CLEANOUTS
NOT TO SCALE



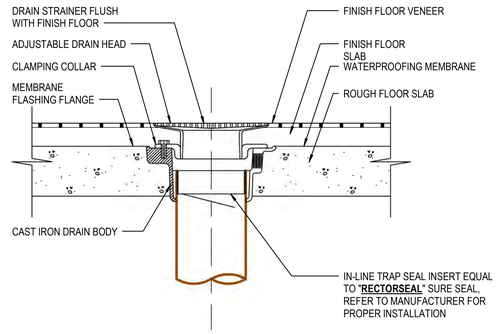
NOTES:
1. INSULATION TO BE CONTINUOUS THROUGH HANGERS. DO NOT BREAK INSULATION AT SUPPORTS, DO NOT INSULATE AROUND HANGERS.
2. INSULATION JACKET TO BE CONTINUOUS THROUGH PIPE SUPPORT COMPONENTS.
3. USE CLEVIS HANGERS FOR SINGLE PIPE RUNS, USE TRAPEZE HANGERS TO GROUP AS MUCH PIPING AS POSSIBLE PER HANGER.

2 TRAPEZE PIPE HANGER
NOT TO SCALE

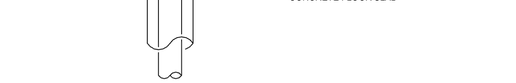


NOTES:
1. INSULATION TO BE CONTINUOUS THROUGH HANGERS. DO NOT BREAK INSULATION AT SUPPORTS, DO NOT INSULATE AROUND HANGERS.
2. INSULATION JACKET TO BE CONTINUOUS THROUGH PIPE SUPPORT COMPONENTS.
3. USE CLEVIS HANGERS FOR SINGLE PIPE RUNS, USE TRAPEZE HANGERS TO GROUP AS MUCH PIPING AS POSSIBLE PER HANGER.

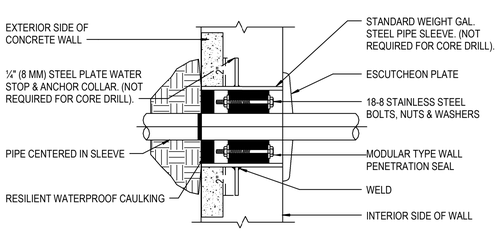
3 ADJUSTABLE CLEVIS HANGER
NOT TO SCALE



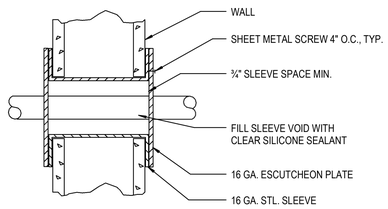
4 TRAP SEAL DEVICE INSTALLATION
NOT TO SCALE



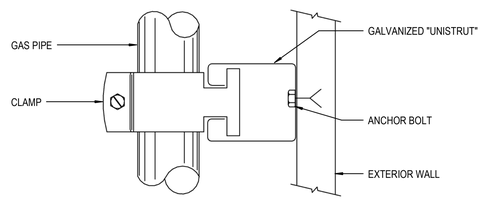
5 PIPE RISER INSULATION
NOT TO SCALE



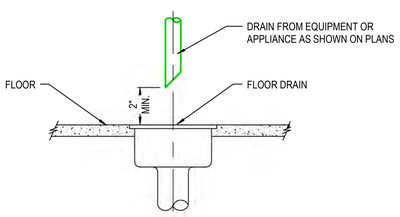
6 BELOW GRADE PIPE THRU FOUNDATION
NOT TO SCALE



7 PIPE SLEEVE THRU EXTERIOR WALL
NOT TO SCALE



8 PIPE WALL SUPPORT
NOT TO SCALE



9 INDIRECT WASTE DRAIN
NOT TO SCALE

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LANDFILL TRUCK WASH

LITTLE ROCK, ARKANSAS

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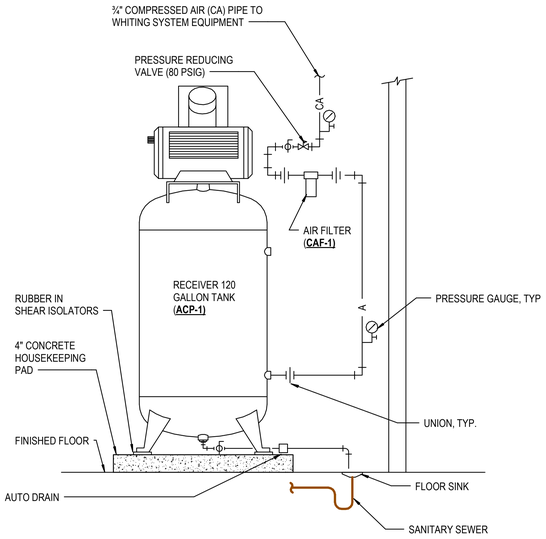
Project Number **2023-143**

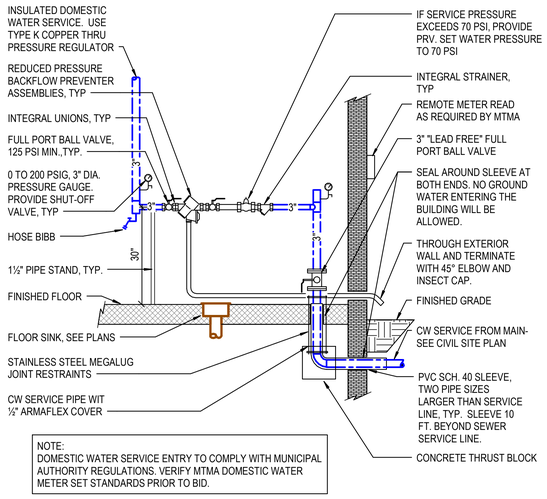
Issue Date **02-06-2024**

Sheet Title **PLUMBING DETAILS**

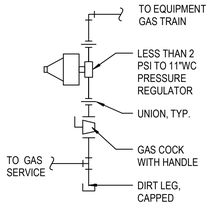
Sheet Number **P-501**



1 AIR COMPRESSOR PUMP (ACP-1)
NOT TO SCALE

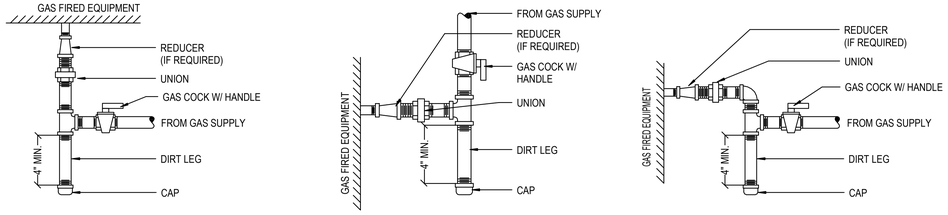


2 DOMESTIC BACKFLOW PREVENTER (RPZBFP-1)
NOT TO SCALE

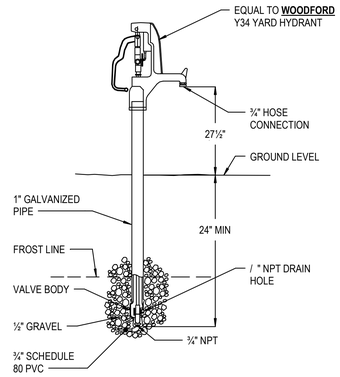


NOTES:
1. MAINTAIN CLEARANCE BETWEEN VENT RELIEF TERMINATION AND FRESH AIR INTAKES, WINDOWS AND DOOR PER CODE.
2. VERIFY GAS CONNECTIONS REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO CONSTRUCTION. PROVIDE ALL NECESSARY UNIONS, ADAPTERS, VALVES, ETC. FOR OPERATION.
3. GAS REGULATOR, VALVES AND DIRT LEG SHALL BE SERVICEABLE.

3 NATURAL GAS REGULATOR
NOT TO SCALE



4 TYPICAL GAS PIPING CONNECTIONS
NOT TO SCALE



SEE CIVIL SHEET CU101 FOR EXACT LOCATION OF YARD HYDRANT

INSTALLATION INSTRUCTIONS

1. DIG HOLE FOR HYDRANT APPROXIMATELY 2 FEET IN DIAMETER AND DEEPER THAN THE BURY DEPTH.

2. FLUSH GRAVEL, DEBRIS, etc. OUT OF THE SUPPLY LINE BEFORE CONNECTION HYDRANT.

3. USE WRENCHES ON SUPPLY LINE FITTING AND BRASS VALVE BODY ONLY. THIS AVOIDS OVER TIGHTENING THE HYDRANT ASSEMBLY WHICH COULD AFFECT OPERATION.

4. IF SUPPLY LINE TO THE HYDRANT WILL NOT SUPPORT HYDRANT, USE RE-BAR, LENGHT OF PIPE OR OTHER SUITABLE SUPPORT DRIVEN IN BOTTOM OF PIT TO HELP SUPPORT HYDRANT. BEFORE FILLING EXCAVATION, TURN ON WATER AND CHECK HYDRANT CONNECTION FOR LEAKS.

5. FILL BOTTOM OF PIT WITH ½" GRAVEL TO WITHIN 4" OF SURFACE.

5 FREEZEPROOF YARD HYDRANT DETAIL (FPYH)
NOT TO SCALE

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CERTIFICATE OF AUTHORIZATION CROMWELL ARCHITECTS/ ENGINEERS #5 ARKANSAS

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9286 CHRISTOPHER R. CROMWELL

02-06-2024

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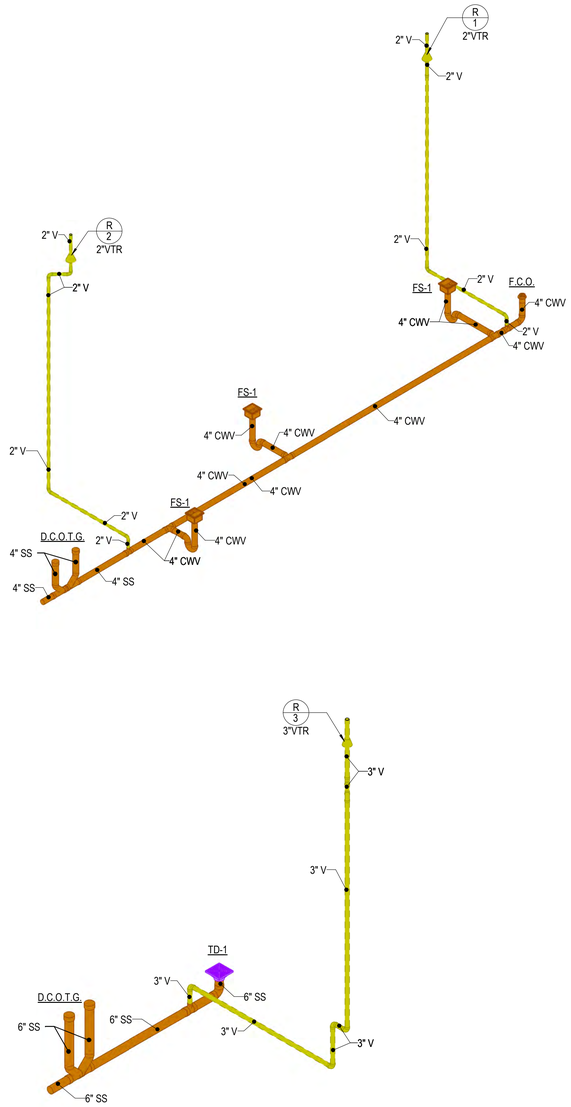
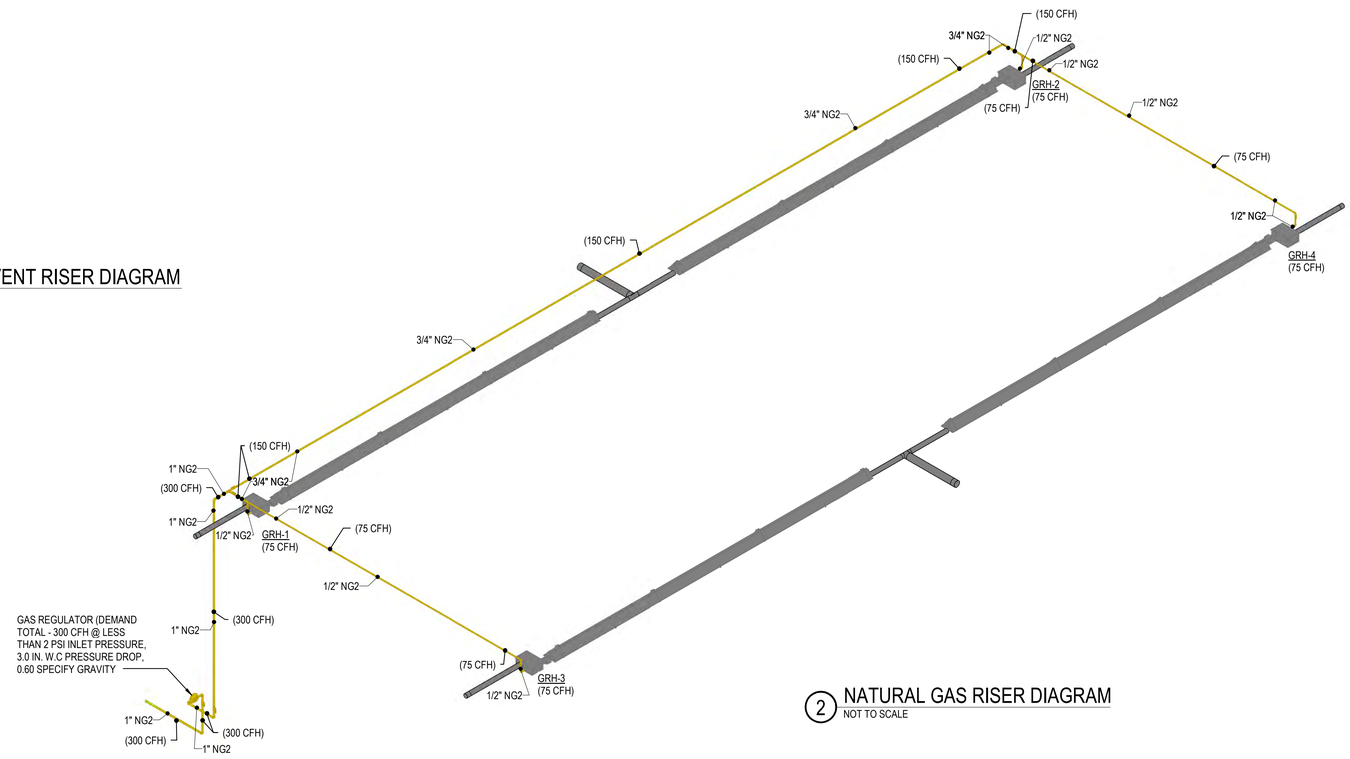
Sheet Title **PLUMBING DETAILS**

Sheet Number **P-502**



1 PLUMBING WASTE AND VENT RISER DIAGRAM
NOT TO SCALE



2 NATURAL GAS RISER DIAGRAM
NOT TO SCALE

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Sheet Title

PLUMBING WASTE AND VENT & NATURAL GAS RISER DIAGRAMS

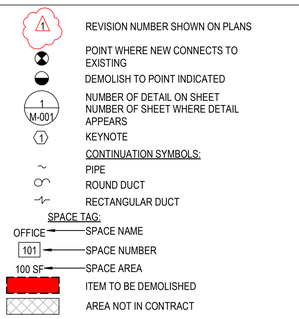
Sheet Number

P-901

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	MBH	THOUSAND BTUs PER HOUR
AHU	AIR HANDLING UNIT	MCA	MINIMUM CIRCUIT AMPS
BHP	BRAKE HORSE POWER	MOCP	MAXIMUM OVER CURRENT PROTECTION
BTU	BRITISH THERMAL UNIT		
CFM	CUBIC FEET PER MINUTE	NC	NORMALLY CLOSED
CV	CONSTANT VOLUME	NO	NORMALLY OPENED
CU	CONDENSING UNIT	NTS	NOT TO SCALE
DB	DRY BULB TEMPERATURE (°F)	OA	OUTSIDE AIR
DDC	DIRECT DIGITAL CONTROLS	PSI	POUNDS PER SQUARE INCH
DOAS	DEDICATED OUTSIDE AIR SYSTEM	PSIG	PSI GAUGE
DN	DOWN	PVC	POLYVINYL CHLORIDE PIPE
EAT	ENTERING AIR TEMPERATURE	RA	RETURN AIR
EF	EXHAUST FAN	RH	RELATIVE HUMIDITY
ESP	EXTERNAL STATIC PRESSURE	RHC	REHEAT COIL
EWT	ENTERING WATER TEMPERATURE	RLA	RUNNING LOAD AMPS
FCU	FAN COIL UNIT	RPM	REVOLUTIONS PER MINUTE
FD	FIRE DAMPER	RS/RL	REFRIGERANT SUCTION & LIQUID LINES
FLA	FULL LOAD AMPS		
FPI	FINS PER INCH	RTU	ROOFTOP AIR HANDLING UNIT
FPM	FEET PER MINUTE	SA	SUPPLY AIR
GPM	GALLONS PER MINUTE	SF	SUPPLY FAN
IV	INTAKE VENTILATOR	SP	STATIC PRESSURE
KW	KILOWATT	TSP	TOTAL STATIC PRESSURE
LAT	LEAVING AIR TEMPERATURE	VAV	VARIABLE AIR VOLUME
LRA	LOCKED ROTOR AMPS	VRF	VARIABLE REFRIGERANT FLOW
LWT	LEAVING WATER TEMPERATURE	VFD	VARIABLE FREQUENCY DRIVE
		WB	WET BULB TEMPERATURE (°F)

GENERAL MECHANICAL SYMBOLS



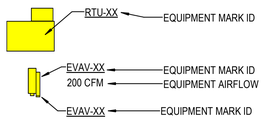
HVAC ENERGY DESIGN CONDITIONS

LOCATION:	LITTLE ROCK, AR
OUTDOOR SUMMER (0.4% OCCURANCE):	98°F DB / 77°F WB
OUTDOOR WINTER (99.0% OCCURANCE):	17°F DB / 14°F WB

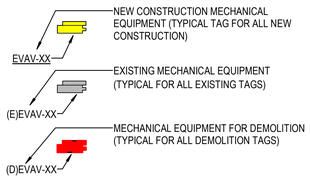
SEISMIC DESIGN CONDITIONS

1. SEISMIC DESIGN DATA:
   A. SEISMIC DESIGN CATEGORY: C
   B. MECHANICAL COMPONENTS IMPORTANCE FACTOR: 1.0
2. SEISEMIC RESTRAINTS ARE NOT REQUIRED FOR THE MECHANICAL COMPONENTS AND SYSTEMS PER THE REQUIREMENTS FOR THE INTERNATIONAL BUILDING CODE (IBC) AS DEFINED PER ASCE 7-10 SECTION 13.6.
3. REFER TO THE SPECIFICATIONS.

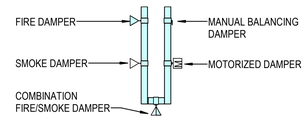
MECHANICAL EQUIPMENT TAGS



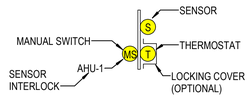
MECHANICAL PHASING



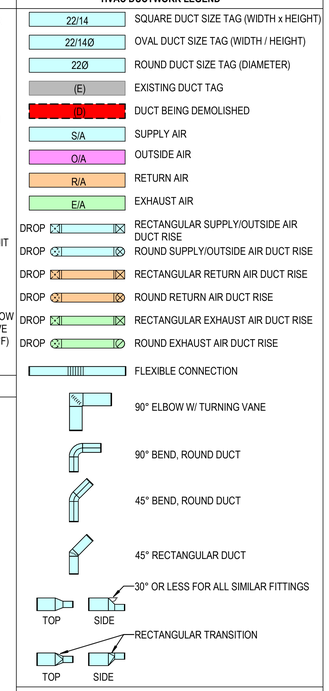
DUCT ACCESSORIES



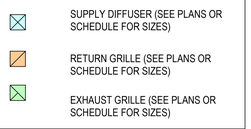
MECHANICAL DATA DEVICES



HVAC DUCTWORK LEGEND



HVAC GRILLES/DIFFUSERS



MECHANICAL SHEET SET NOTE

* NOTE *
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THE CONTAINED REFERENCE DRAWINGS.

GENERAL NOTES

1 ALL WORK SHALL COMPLY WITH THE 2021 EDITION OF THE "INTERNATIONAL MECHANICAL CODE", THE 2014 EDITION OF THE "ARKANSAS ENERGY CODE", NFPA 90A, AND ALL CITY, STATE, AND LOCAL REQUIREMENTS.
2 REFER TO THE PROJECT MANUAL FOR ALL REQUIREMENTS
3 ALL DUCTWORK SHALL BE CONSTRUCTED FROM GALVANIZED STEEL IN CONFORMANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS," LATEST EDITION
4 CLOSELY COORDINATE LOCATIONS OF INSTALLED EQUIPMENT TO ACHIEVE THE GREATEST ACCESSIBILITY.
6 MAINTAIN 10'-0" MINIMUM CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND ALL EXHAUST FANS, FLUES, PLUMBING VENTS, ETC.
7 ALL ROOF MOUNTED HVAC EQUIPMENT, INCLUDING BUT NOT LIMITED TO EXHAUST FANS, CONDENSING UNITS, AND ROOF-TOP UNITS, SHALL BE A MINIMUM OF 10' FROM THE ROOF'S EDGE, OR PARAPET, UNLESS OTHERWISE NOTED ON PLANS. IN SUCH CASE, CONTRACTOR SHALL COORDINATE WITH ARCHITECT TO PROVIDE SAFETY HANDRAILS AROUND ROOF MOUNTED HVAC EQUIPMENT THAT IS LOCATED LESS THAN 10' FROM ROOF'S EDGE, OR PARAPET.
8 PROVIDE FLEXIBLE CONNECTIONS AT INLETS AND OUTLETS OF ALL AIR HANDLING UNITS, MAKE-UP AIR UNITS, FURNACES, AND/OR EXHAUST FANS.
9 ALL WALL-MOUNTED, OCCUPANT-CONTROLLED HVAC DEVICES, I.E., THERMOSTATS, HUMIDISTAT, CO2 CONTROLLERS, CONTROL PANELS, ETC., SHALL BE MOUNTED 4'-0" ABOVE FINISHED FLOOR. CONTROLS LOCATED IN PUBLIC AREAS SHALL HAVE CLEAR PLASTIC LOCKING COVERS.
10 COORDINATE WORK CLOSELY WITH CONTROL CONTRACTOR. PROVIDE ALL NECESSARY DUCT, PIPE TAPS, TEES, WELLS, CONTROL DAMPERS, AIR MEASURING STATIONS, AND OTHER ACCESSORIES REQUIRED BY CONTROL SYSTEM
11 SLEEVE AND SEAL ALL PIPE AND DUCT PENETRATIONS THROUGH FIRE RATED AND NON-RATED SLABS AND PARTITIONS.

DEMOLITION NOTES

1 CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO:
* PIPE SIZES AND ROUTING.
* EQUIPMENT CONNECTIONS AND LOCATIONS.
* CONTROLS.
2 EXISTING SYSTEMS AND INFORMATION SHOWN ON THESE PLANS WERE DEVELOPED USING EXISTING BUILDING DRAWINGS. CONTRACTOR SHALL VERIFY AT SITE ALL EXISTING SYSTEMS. CLOSELY COORDINATE NEW WORK WITH EXISTING SYSTEMS. PROVIDE OFFSETS IN EXISTING AND NEW SYSTEMS AS REQUIRED TO AVOID CONFLICTS.
3 MAINTAIN EXISTING BUILDING SYSTEMS WITH PHASED DEMOLITION AND INSTALLATION OF NEW WORK, PROVIDING TEMPORARY SERVICES AS REQUIRED.
4 REMOVE AND RELOCATE SMALL CONDUIT, CABLE, PIPE AND DUCT, PIPE AND CEILING HANGERS ETC. AS NECESSARY TO ACHIEVE A COMPLETE INSTALLED MECHANICAL SYSTEM AS SHOWN ON DRAWINGS.
5 PATCH ALL WALLS, FLOORS, ROOFS AND CEILINGS TO MATCH EXISTING OR NEW (IF APPLIED) FOR ALL OPENINGS CREATED BY DEMOLITION WORK OF EQUIPMENT AND HVAC SERVICE PENETRATIONS.
6 REFER TO ELECTRICAL PLANS FOR EXTENT OF DEMOLITION WORK RELATING TO WIRING FOR SUPPORT OF HVAC EQUIPMENT TO BE REMOVED.

UNIT HEATERS - GAS FIRED RADIANT

MARK	LOCATION	TYPE	HEATING CAPACITY (MBH)			ELECTRICAL DATA		LENGTH (FT.)	BASIS OF DESIGN	REMARKS
			INPUT (H/L)	OUTPUT	GAS TYPE	VOLTS	PH			
GRH-1	SEE PLANS	TUBE	75/50	60/40	NAT. GAS	120	1	30	DETROIT RADIANT HL2-SS-30-80	SEE NOTES
GRH-2	SEE PLANS	TUBE	75/50	60/40	NAT. GAS	120	1	30	DETROIT RADIANT HL2-SS-30-80	SEE NOTES
GRH-3	SEE PLANS	TUBE	75/50	60/40	NAT. GAS	120	1	30	DETROIT RADIANT HL2-SS-30-80	SEE NOTES
GRH-4	SEE PLANS	TUBE	75/50	60/40	NAT. GAS	120	1	30	DETROIT RADIANT HL2-SS-30-80	SEE NOTES

NOTES:
1. PROVIDE UNIT MOUNTED ELECTRIC DISCONNECT.
2. PROVIDE REMOTE THERMOSTAT.
3. PROVIDE 4" COMBUSTION AIR INTAKE AND SIDEWALL CAP.
4. PROVIDE STAINLESS STEEL REFLECTOR AND TUBES.
5. PROVIDE 6" SIDEWALL VENT KIT FOR THRU WALL VENTING..
6. PROVIDE STAINLESS STEEL 45° MOUNTING ANGLE BRACKET

UNIT HEATERS - ELECTRIC

MARK	LOCATION	CFM	KW	ELECTRICAL DATA			BASIS OF DESIGN	REMARKS
				BKR SIZE (A)	VOLTS	PH		
EUH-1	SEE PLANS	300	3.0	20	208	1	REZNOR EGW	SEE NOTES
EUH-2	SEE PLANS	300	3.0	20	208	1	REZNOR EGW	SEE NOTES

NOTES:
1. PROVIDE ELECTRICAL DISCONNECT SWITCH.
2. PROVIDE INTEGRAL THERMOSTAT.
3. PROVIDE WALL BRACKET.

EXHAUST FAN

MARK	SERVES	TYPE	DRIVE	FAN DATA			MOTOR DATA			MAX SONES LEVEL	WEIGHT (LBS.)	MANUFACTURER	MODEL	REMARKS
				CFM	ESP	RPM	HP	VOLTS	PH					
EF-1	SEE PLANS	CENTRIFUGAL	DIRECT	9000	0.574	1140	5	460	3	39	166	GREENHECK	G-240-B	SEE NOTES
EF-2	SEE PLANS	CENTRIFUGAL	DIRECT	9000	0.574	1140	5	460	3	39	166	GREENHECK	G-240-B	SEE NOTES

NOTES:
1. PROVIDE MANUFACTURER'S RIDGE ROOF CURB.
2. PROVIDE ELECTRICAL DISCONNECT.
3. PROVIDE BACKDRAFT DAMPER.
4. PROVIDE BIRDSCREEN.
5. PROVIDE GREENHECK MOTOR STARTER #MSAC

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2023-143

Issue Date

02-06-2024

Sheet Title

MECHANICAL LEGEND, SYMBOLS, AND SCHEDULES

Sheet Number

M-001

GENERAL NOTES

1 REFER TO SHEET M-001 FOR MECHANICAL NOTES, ABBREVIATIONS, AND LEGEND SYMBOLS.

KEYED NOTES

1 INSTALL GAS FIRED RADIANT HEATER APPROXIMATELY 18'-6" A.F.F.

2 INSTALL 4" COMBUSTION AIR INTAKE AND SIDE WALL INTAKE CAP. SEAL PENETRATION WEATHERTIGHT.

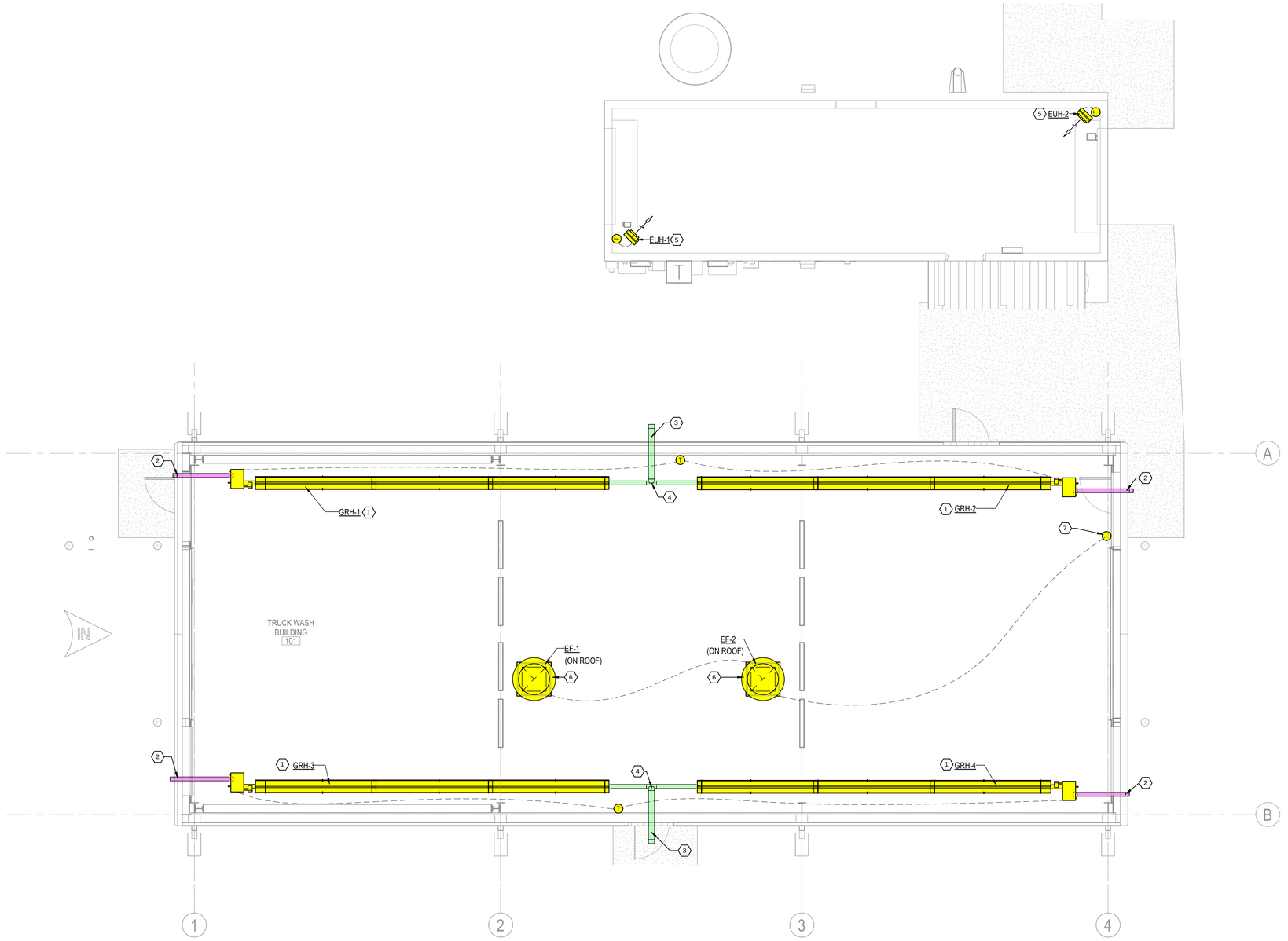
3 INSTALL 6" SIDEWALL VENT KIT FOR THRU WALL VENTING. SEAL PENETRATION WEATHERTIGHT. SEE DETAIL "4/M-501

4 PROVIDE COMMON VENTING KIT, INSTALL PER MANUFACTURER'S RECOMENDATIONS.

5 INSTALL ELECTRIC UNIT HEATER APPROXIMATELY 10'-0" A.F.F.

6 INSTALL EXHAUST FAN ON ROOF. PROVIDE MANUFACTURER'S RIDGE ROOF CURB.

7 INSTALL ON/OFF SWITCH APPROXIMATELY 4'-0" A.F.F., INTERLOCK WITH EF-1 AND EF-2.



1 MECHANICAL PLAN - TRUCK WASH BLDG & EXIST. EQUIP BLDG
1/4" = 1'-0"
0 2 4 8

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ARKANSAS ENGINEER

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9395
CHRISTOPHER R. CROMWELL

02-06-2024

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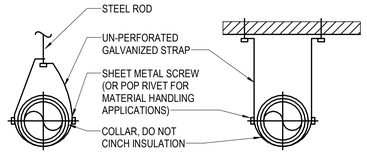
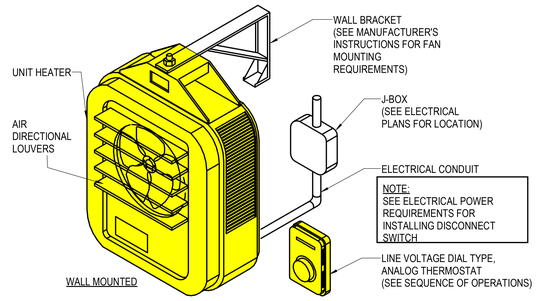
Issue Date **02-06-2024**

Sheet Title **MECHANICAL PLAN - TRUCK WASH BLDG & EXIST. EQUIP BLDG**

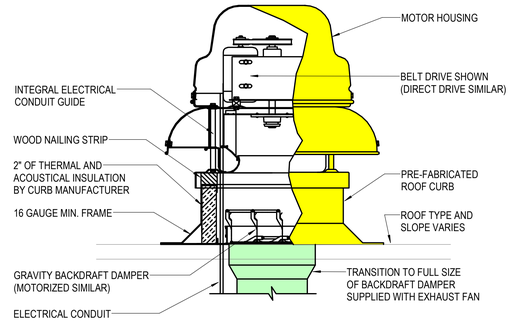
Sheet Number **M-101**



1 DUCT HANGERS
NOT TO SCALE

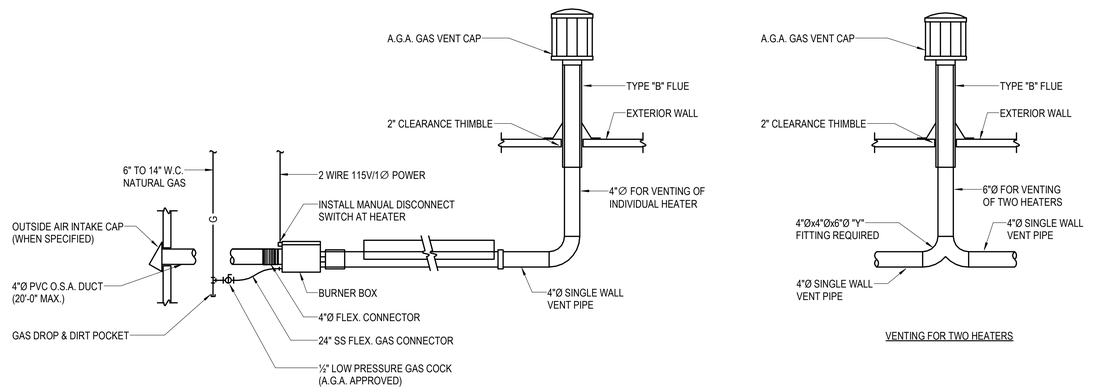


2 ELECTRIC UNIT HEATER
NOT TO SCALE



NOTE: CURB, DISCONNECT SWITCH, BACKDRAFT DAMPER, INSULATION & SEAL STRIP SHALL BE PROVIDED BY FAN MANUFACTURER (COORDINATE CURB WITH ROOF TYPE AND SLOPE).

3 EXHAUST FAN DETAIL
NOT TO SCALE



VENTING FOR TWO HEATERS

NOTES

1. IF GAS PRESSURE EXCEEDS MAXIMUM ALLOWABLE AT HEATER, PROVIDE A.G.A. APPROVED HIGH PRESSURE REGULATOR DOWNSTREAM OF GAS COCK.
2. HEATERS MUST NOT BE HUNG TIGHT TO STRUCTURE. ALLOW ENOUGH HANGER LENGTH TO ACCOMMODATE HEATER EXPANSION & CONTRACTION DUE TO HEATING & COOLING CYCLES. REFER TO MANUFACTURERS INSTRUCTIONS.
3. MAINTAIN ALL CLEARANCES TO COMBUSTIBLES AS RECOMMENDED IN THE MANUFACTURERS INSTRUCTIONS.

4 RADIANT TUBE HEATER INSTALLATION
NOT TO SCALE

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Project

City of LITTLE ROCK

CITY OF LITTLE ROCK

LANDFILL TRUCK WASH

LITTLE ROCK, ARKANSAS

Design Phase

CONSTRUCTION DOCUMENTS

Revisions

No.	Date	Description

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Project Number **2023-143**

Issue Date **02-06-2024**

Sheet Title

MECHANICAL DETAILS

Sheet Number

M-501

ELECTRICAL SYMBOLS

RECEPTACLES (MOUNTED 18" AFF UNLESS INDICATED OTHERWISE)

- DUPLEX RECEPTACLE OUTLET (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- DUPLEX RECEPTACLE OUTLET (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R) MOUNT 4" ABOVE COUNTER TOP, SINK, OR BACKSPLASH (IF PRESENT)
- SINGLE RECEPTACLE OUTLET (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- FLOOR RECEPTACLE OUTLET (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- SINGLE RECEPTACLE OUTLET (50A, 250V, 3 POLE, 3 WIRE, NEMA 10-50R)
- SINGLE RECEPTACLE OUTLET (20A, 250V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 6-20R)
- SINGLE RECEPTACLE OUTLET (30A, 250V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 6-30R)
- SINGLE RECEPTACLE OUTLET (30A, 250V, 3 POLE, 4 WIRE, TWIST-LOCK, GROUNDING TYPE, NEMA L15-30R)
- 1 SINGLE SPECIAL-PURPOSE RECEPTACLE OUTLET; NUMBER CORRESPONDS TO THE SPECIAL-PURPOSE RECEPTACLE SCHEDULE
- R SINGLE RECEPTACLE FOR ELECTRIC RANGE (50A, 125/250V, 3 POLE, 4 WIRE, GROUNDING TYPE, NEMA 14-50R)
- DUPLEX RECEPTACLE MOUNTED IN CEILING (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- TWO (2) DUPLEX RECEPTACLES MOUNTED IN DOUBLE GANG BACKBOX (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- TWO (2) DUPLEX RECEPTACLES FLOOR MOUNTED IN DOUBLE GANG BACKBOX (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)

LIGHT FIXTURES (SEE FIXTURE SCHEDULE ON E-602 FOR TYPE)

- LIGHT FIXTURE, CEILING MOUNTED
- LIGHT FIXTURE, CEILING MOUNTED, ON EMERGENCY CIRCUIT
- LIGHT FIXTURE, CEILING MOUNTED, WITH EMERGENCY SELF CONTAINED BATTERY PACK. BATTERY PACK IS TO REMAIN UNSWITCHED.
- LIGHT FIXTURE, WALL MOUNTED
- LIGHT FIXTURE, INDUSTRIAL STRIP, SURFACE OR PENDANT MOUNTED
- LIGHT FIXTURE, INDUSTRIAL STRIP, SURFACE OR PENDANT MOUNTED, ON EMERGENCY CIRCUIT
- LIGHT FIXTURE, INDUSTRIAL STRIP, SURFACE OR PENDANT MOUNTED, WITH EMERGENCY SELF CONTAINED BATTERY PACK. BATTERY PACK IS TO REMAIN UNSWITCHED.
- LIGHT FIXTURE, CEILING MOUNTED
- LIGHT FIXTURE, CEILING MOUNTED, ON EMERGENCY CIRCUIT
- LIGHT FIXTURE, CEILING MOUNTED, WITH EMERGENCY SELF CONTAINED BATTERY PACK. BATTERY PACK IS TO REMAIN UNSWITCHED.
- LIGHT FIXTURE, WALL MOUNTED
- EMERGENCY BATTERY POWERED LIGHTING UNIT, WITH SELF CONTAINED BATTERY, CHARGER, ETC. (REFER TO FIXTURE SCHEDULE FOR BATTERY TYPE, VOLTAGE, LAMP TYPE, WATTAGE, ETC.) TRIANGLES DEPICT QUANTITY AND AIMING OF LAMP HEADS
- EXIT SIGN, LIGHTED, CEILING MOUNTED. SHADED AREA INDICATES FACE. ARROW DEPICTS DIRECTIONAL ARROW ON SIGN. WHEN REQUIRED BY THE FIXTURE SCHEDULE, AN EMERGENCY SELF-CONTAINED BATTERY PACK IS TO REMAIN UNSWITCHED.
- EXIT SIGN, LIGHTED, WALL MOUNTED AT 7'-6" AFF (TO BOTTOM OF SIGN) UNLESS INDICATED OTHERWISE. ARROW DEPICTS DIRECTIONAL ARROW ON SIGN. WHEN REQUIRED BY THE FIXTURE SCHEDULE, AN EMERGENCY SELF-CONTAINED BATTERY PACK IS TO REMAIN UNSWITCHED.
- FLOOD LIGHT, ARROW INDICATES DIRECTION OF BEAM
- DOCK LIGHT
- PARKING AREA LIGHT FIXTURE, POLE MOUNTED

LIGHT FIXTURE IDENTIFICATION

A a — LOWER CASE LETTER BESIDE FIXTURE DENOTES SWITCH CONTROL (WHERE APPLICABLE)

UPPER CASE LETTER BESIDE EACH FIXTURE DENOTES FIXTURE TYPE.

SWITCHGEAR

- MAGNETIC MOTOR STARTER (FURNISHED BY DIVISION 23, UNLESS NOTED OTHERWISE)
- ELECTRICAL PANELBOARD, FLUSH MOUNTED
- ELECTRICAL PANELBOARD, SURFACE MOUNTED
- EXISTING ELECTRICAL PANELBOARD, FLUSH MOUNTED
- EXISTING ELECTRICAL PANELBOARD, SURFACE MOUNTED
- SAFETY SWITCH; 30A CURRENT RATING UNLESS NOTED OTHERWISE. +4'-0" TO HANDLE
- 30 F20 FUSIBLE SAFETY SWITCH; CURRENT RATING AND FUSE RATING NOTED. +4'-0" TO HANDLE
- CB CIRCUIT BREAKER IN WALL MOUNTED ENCLOSURE
- T ELECTRICAL TRANSFORMER, FLOOR MOUNTED UNLESS INDICATED OTHERWISE

ELECTRICAL SYMBOLS

TELEPHONE/COMMUNICATIONS/DATA (OUTLETS SHALL BE MOUNTED 18" AFF UNLESS INDICATED OTHERWISE)

- TELEPHONE OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND PULL CORD. SUBSCRIPT: W - WALL MOUNTED AT 54" AFF;
- TELEPHONE FLOOR OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND PULL CORD.
- DATA OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND PULL CORD.
- DATA FLOOR OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND PULL CORD.
- COMBINATION VOICE/DATA OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND PULL CORD.
- COMBINATION VOICE/DATA FLOOR OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND PULL CORD.
- 4'-0" HIGH x 3/4" THICK FIRE-RETARDANT PLYWOOD BACKBOARD. SEE PLANS FOR LENGTH.
- 2 WIRELESS ACCESS POINT OUTLET CEILING MOUNTED. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESS CEILING SPACE AND PULL CORD. NUMBER INDICATES QUANTITY OF DATA JACKS. ABSENCE OF A NUMBER INDICATES ONE DATA JACK.
- CABLE TRAY

SINGLE LINE

- CIRCUIT BREAKER, TRIP RATING AS INDICATED, 3 POLE OR AS INDICATED
- 60A DISCONNECT SWITCH OR LOAD INTERRUPTER SWITCH, CURRENT RATING AS INDICATED, 3 POLE OR AS INDICATED
- GFI SWITCH WITH GROUND FAULT INTERRUPTER
- F30 FRS FUSE, CURRENT RATING AND TYPE WHEN INDICATED
- TRANSFORMER, DESCRIPTION AS NOTED OR PER SCHEDULE
- CURRENT TRANSFORMER
- POTENTIAL TRANSFORMER
- SS PHASE SELECTOR SWITCH
- A AMMETER
- V VOLTMETER
- WH WATT-HOUR METER
- SPD SURGE PROTECTIVE DEVICE
- AUTOMATIC TRANSFER SWITCH
- G GENERATOR

SWITCHES (MOUNTED AT 46", UNLESS INDICATED OTHERWISE) (LOWER CASE LETTER INDICATES DEVICES CONTROLLED)

- S_a SWITCH, SINGLE POLE, 20A
- S_2 SWITCH, DOUBLE POLE, 20A SWITCH
- S_3 3-WAY, 20A SWITCH
- S_4 4-WAY, 20A SWITCH
- S_K KEY OPERATED
- S_P SINGLE POLE SWITCH, WITH PILOT LIGHT
- S_M SINGLE POLE MANUAL MOTOR STARTING SWITCH, WITH THERMAL OVERLOAD ELEMENT AND PROVISIONS FOR LOCKING OPEN
- S_D SWITCH, DIMMING (COORDINATE WITH FIXTURE MANUFACTURER)
- S_X SWITCH, MULLION SWITCH
- S_{LV} LOW VOLTAGE WITH MOMENTARY CONTACTS SWITCH
- S_O OCCUPANCY SENSOR, WALL MOUNTED, DUAL TECHNOLOGY
- OS OCCUPANCY SENSOR, CEILING MOUNTED, DUAL TECHNOLOGY
- PC PHOTOCELL
- +6' AFF — MULTIPLE DEVICES LOCATED SIDE BY SIDE (OR ABOVE AND BELOW, IF DIFFERENT ELEVATIONS ARE SHOWN) AT THE LOCATION INDICATED)

ELECTRICAL SYMBOLS

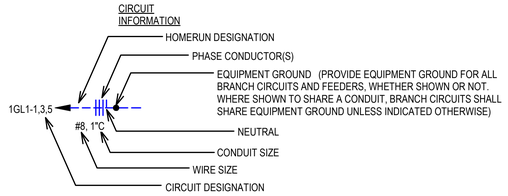
SECURITY

- M MAGNETIC ALARM SWITCH
- D DURESS ALARM SWITCH
- MD MOTION DETECTOR
- CD CAPACITIVE DETECTOR
- CCTV CAMERA LOCATION, CEILING MOUNTED UNLESS INDICATED OTHERWISE
- KS KEYPAD ACCESS ALARM OVERRIDE CONTROL
- ELECTRIC PUSH-BUTTON
- CARD READER
- ES ELECTRIC STRIKE
- REX REQUEST TO EXIT PUSH BUTTON

MISCELLANEOUS

- J JUNCTION BOX, WALL MOUNT AS INDICATED
- J JUNCTION BOX, CEILING MOUNT AS INDICATED
- C CLOCK OUTLET, WALL MOUNTED 7'-6" AFF
- MOTOR
- G 10' BARE #6 COILED & EXOTHERMICALLY WELDED TO COLUMN
- TV CABLE TELEVISION OUTLET BOX MOUNTED 18" AFF WITH CONDUIT STUBBED ABOVE CEILING. PROVIDE PULL CORD.
- CONDUIT RUN, EXPOSED
- CONDUIT RUN, CONCEALED
- FLEXIBLE CONDUIT

CIRCUIT INFORMATION



- CIRCUIT DESIGNATION INDICATES PANELBOARD AND CIRCUIT(S) TO WHICH HOMERUN IS CONNECTED.
- WIRE SIZE SHALL BE NO. 12, UNLESS INDICATED OTHERWISE.
- CONDUIT SIZE SHALL BE MINIMUM ALLOWED BY SPECIFICATIONS FOR NO. 12 SIZE WIRE, 3/4" FOR NO. 10, UNLESS INDICATED OTHERWISE.
- CIRCUIT INFORMATION PROVIDED AT THE HOMERUN SYMBOL SHALL APPLY THE ENTIRE LENGTH OF THE CIRCUIT (FROM PANELBOARD TO LAST LOAD).
- WHEN NO PHASE CONDUCTOR OR NEUTRAL IS INDICATED AT THE HOMERUN SYMBOL, PROVIDE ONE PHASE CONDUCTOR AND ONE NEUTRAL, BOTH NO. 12.
- SWITCHING CONDUCTORS, CONDUCTORS FOR NIGHT LIGHT CIRCUITS (UNSWITCHED), ETC. ARE NOT SHOWN, BUT SHALL BE PROVIDED AS NECESSARY.
- WIRE SIZE INDICATED ON THESE DOCUMENTS AS INDICATED BY "NO." OR "#" HAS THE SAME MEANING AS "AWG" (N.E.C. NOMENCLATURE). (I.E."NO. 12" OR "# 12" MEANS "12AWG" IN N.E.C. NOMENCLATURE.)

ABBREVIATIONS:

AFF = ABOVE FINISHED FLOOR
AFL = ABOVE FINISHED LANDING
GFI = GROUND FAULT INTERRUPTER
IG = ISOLATED GROUND
UIO = UNLESS INDICATED OTHERWISE
WP = WEATHERPROOF CONSTRUCTION
OF/OI = OWNER FURNISHED / OWNER INSTALLED
CF/CI = CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
TYP = TYPICAL
NIC = NOT IN CONTRACT

GENERAL SYMBOLS NOTES:

1. ALL SYMBOLS MAY NOT BE USED.

2. MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR OR GRADE TO THE CENTER LINE OF THE OUTLET, DEVICE, ETC. UNLESS INDICATED OTHERWISE.

3. LARGE AMPACITY CIRCUIT DESIGNATION EXAMPLE: 4 SETS OF 3#500, #250, #1/0G, 4"C MEANS IN EACH OF FOUR 4" CONDUITS INSTALL THREE 500 kCM CONDUCTORS, ONE 250 kCM NEUTRAL AND ONE #1/0 GROUND.

4. FOR CONCRETE SLAB PENETRATIONS WITH PVC, SEE DETAIL 5, SHEET E-501.

SEISMIC DESIGN CATEGORY IS "C".

EMERGENCY LIGHTING AND EXIST SIGNS ARE CONSIDERED TO HAVE AN IMPORTANCE FACTOR OF 1.5. PROVIDE SEISMIC PROTECTION FOR THESE COMPONENTS.

COLOR LEGEND:

- EXISTING TO REMAIN
- DEMOLISH
- NEW CONSTRUCTION

LINESTYLE LEGEND:

- DEMOLISH
- EXISTING TO REMAIN
- NEW

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Project

City of LITTLE ROCK

CITY OF LITTLE ROCK

LANDFILL TRUCK WASH

LITTLE ROCK, ARKANSAS

Design Phase

CONSTRUCTION DOCUMENTS

Revisions

No.	Date	Description

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STATE OF ARKANSAS CERTIFICATE OF AUTHORIZATION CROMWELL ARCHITECTS/ ENGINEERS #5

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9401 THOMAS W. CROMWELL

02-06-2024

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Issue Date **02-06-2024**

Sheet Title **ELECTRICAL LEGEND**

Sheet Number **E-001**

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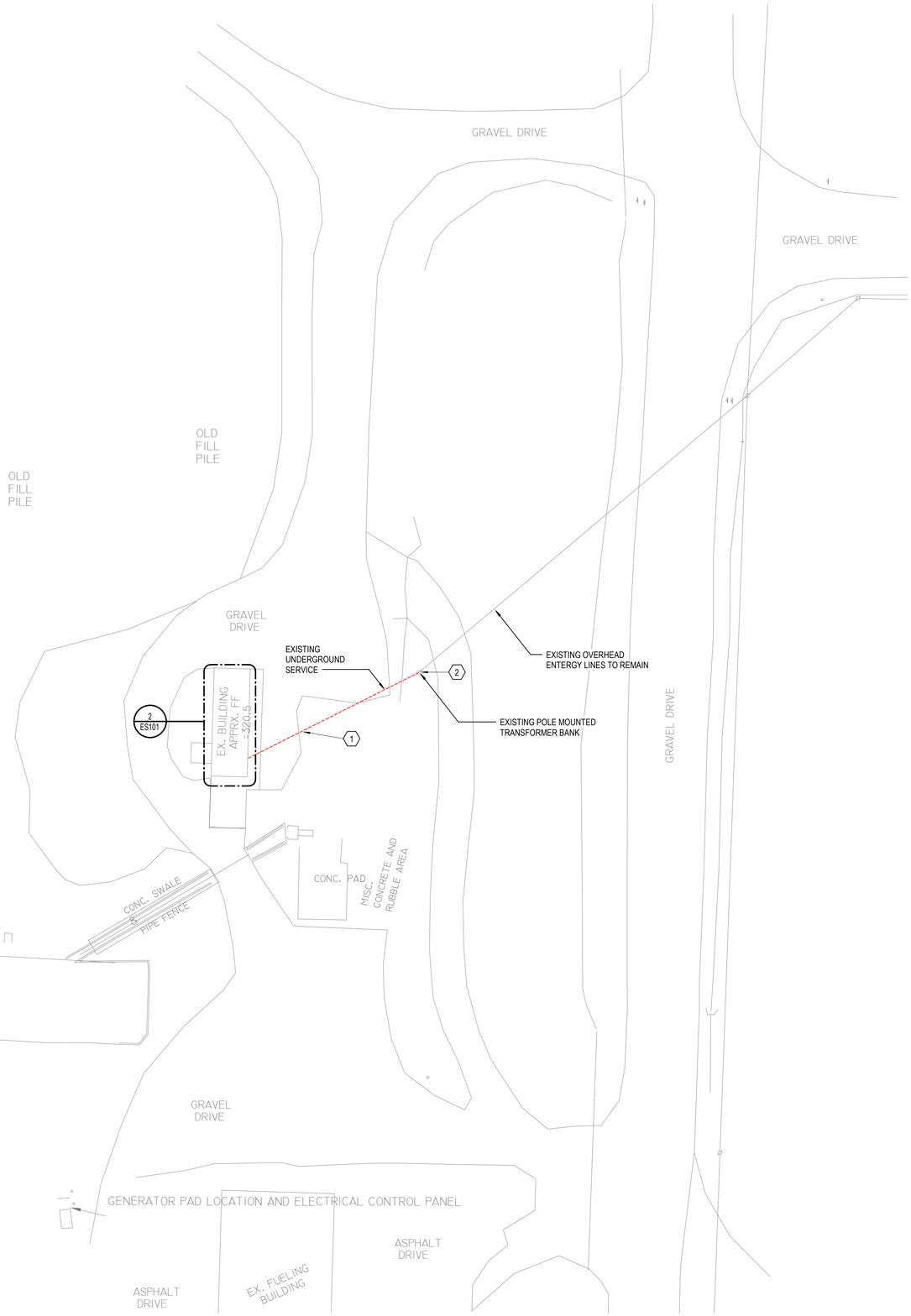


1 ELECTRICAL SITE DEMOLITION PLAN
1" = 20'-0"

NORTH
0 10 20 40
SCALE : 1" = 20'

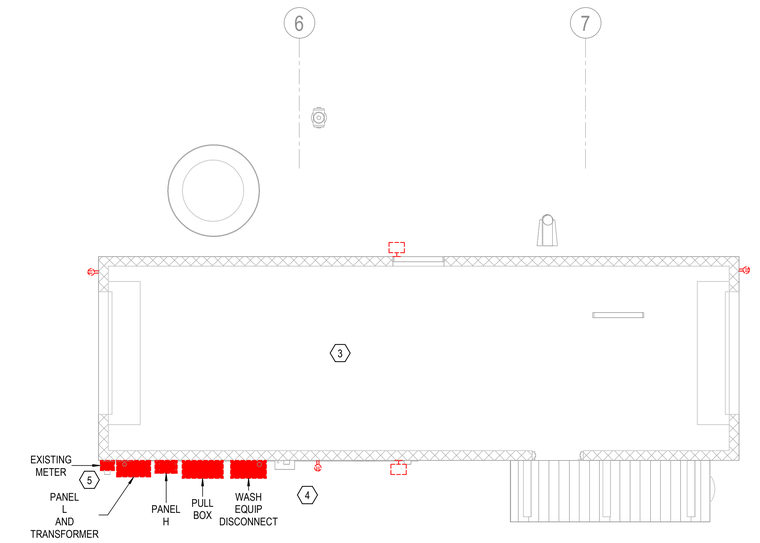
GENERAL NOTES:

A. INFORMATION REARDING EXISTING CONDITIONS WAS TAKEN FROM RECORD DRAWINGS AND CASUAL SITE OBSERVATIONS. VERIFY AND DOCUMENT EXISTING CONDITIONS PRIOR TO DEMOLITION.

B. SOME EXISTING CIRCUITS MAY SERVE THINGS OUTSIDE OF THE PROJECT BOUNDARY. IT IS SUSPECTED THAT THE ELECTRICAL SYSTEM SUPPLYING THE NEAR BY FUEL PUMPS ARE CONNECTED TO THE ELECTRICAL GEAR REPLACED IN THIS PROJECT. MINIMIZE OUTAGE TIMES FOR ITEMS OUTSIDE OF THE PROJECT BOUNDARY. COORDINATE OUTAGES WITH OWNER.

KEYED NOTES:

1. REMOVE EXISTING ELECTRICAL UNDERGROUND SECONDARY FROM THE UTILITY TRANSFORMER. COORDINATE REMOVAL WITH ENTERGY.
2. REMOVE POLE MOUNTED TRANSFORMER BANK. COORDINATE REMOVAL AND REPLACEMENT WITH ENTERGY.
3. REMOVE ALL ELECTRICAL DEVICES, CONDUITS, AND CONDUCTORS IN THIS BUILDING BACK TO THE POINT OF ORIGIN. REMOVE ALL LIGHT FIXTURES IN THIS BUILDING AND ANY ASSOCIATED CONTROLS.
4. REMOVE ANY UNUSED CONDUITS AND ELECTRICAL PATHWAYS ON THE EXTERIOR OF THE BUILDING.
5. EXISTING UTILITY METER TO BE REUSED FOR NEW INSTALLATION. VERIFY FINAL LOCATION AND REQUIREMENTS WITH ENTERGY.



2 EQUIPMENT BUILDING ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"

NORTH
0 2 4 8
SCALE : 1/4" = 1'-0"

Project

City of LITTLE ROCK

CITY OF LITTLE ROCK
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LITTLE ROCK, ARKANSAS

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ARKANSAS ENGINEER

STATE OF ARKANSAS
JUSTIN T. MCELRATH
REGISTERED PROFESSIONAL ENGINEER
No. 9401
02-06-2024

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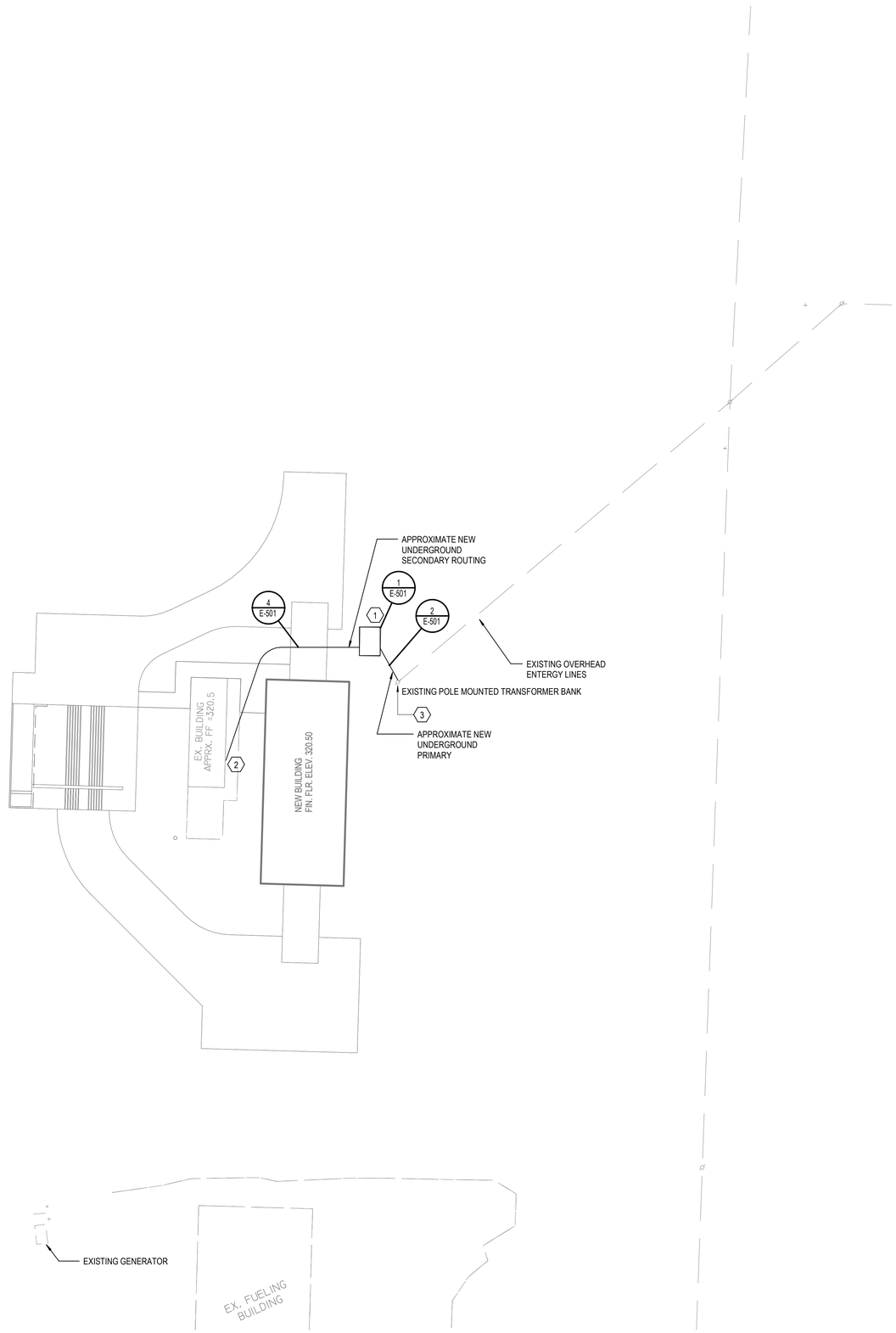
Sheet Title
ELECTRICAL DEMOLITION PLANS

Sheet Number
ES101



1 ELECTRICAL SITE PLAN
1" = 20'-0"

NORTH

0 10 20 40
SCALE : 1" = 20'

GENERAL NOTES:

A. MAINTAIN ENTERGY'S REQUIRED DISTANCES FROM BUILDING AND OVERHEAD UTILITY LINES.

B. CONTRACTOR TO INCLUDE ANY SERVICE UPGRADE FEES FROM ENTERGY.

KEYED NOTES:

1. APPROXIMATE LOCATION OF NEW PADMOUNT TRANSFORMER. PROVIDE NEW TRANSFORMER PAD. COORDINATE EXACT REQUIREMENTS AND FINAL LOCATION WITH ENTERGY.
2. ROUTE UNDERGROUND SECONDARY TO NEW PANEL H.
3. PROVIDE NEW 4" RISER CONDUITS FOR UTILITY POLE. COORDINATE INSTALL WITH ENTERGY.

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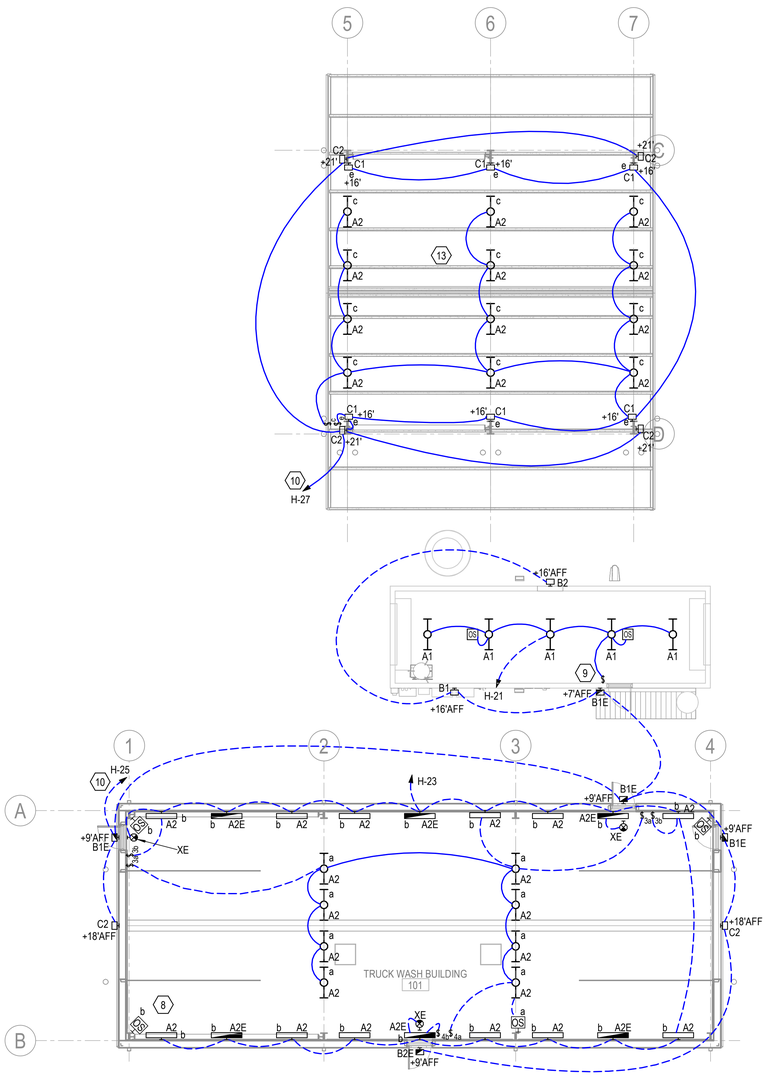
Sheet Title **ELECTRICAL SITE PLAN**

Sheet Number **ES102**



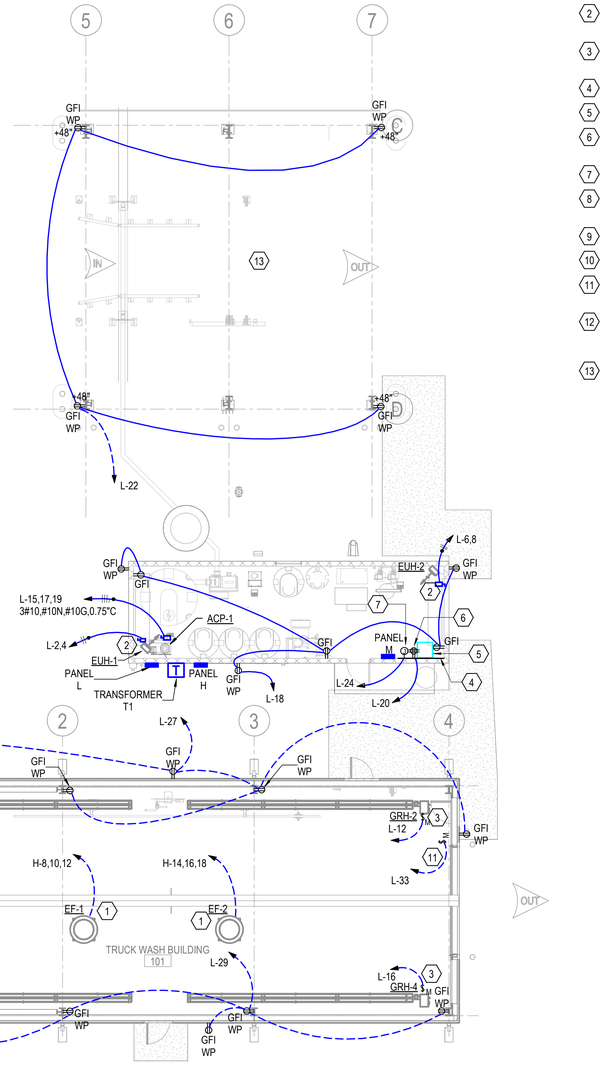
1 LIGHTING PLAN

1/8" = 1'-0"

NORTH

0 4 8 16

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



2 POWER PLAN

1/8" = 1'-0"

NORTH

0 4 8 16

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

GENERAL NOTES:

A. PROVIDE NEMA 4X RATED ELECTRICAL GEAR INSIDE OF THE TRUCK WASH BUILDING.

B. THE QUANTITY AND LOCATIONS OF OCCUPANCY SENSORS SHALL BE ADJUSTED AS NECESSARY FOR FULL ROOM COVERAGE AND AROUND EQUIPMENT IN THE ROOM.

C. PROVIDE OCCUPANCY SENSOR ACCESSORIES AS REQUIRED.

D. OCCUPANCY SENSORS WILL NOT CONTROL ANY EXIT SIGNS OR THE BATTERY PACKS FOR EMERGENCY FIXTURES.

KEYED NOTES:

1. ELECTRICAL DISCONNECT SWITCH PROVIDED BY FAN MANUFACTURER. COORDINATE INSTALLATION. VERIFY NEMA 4X RATED ENCLOSURE IF LOCATED INSIDE THE BUILDING.
2. ELECTRICAL DISCONNECT SWITCH PROVIDED WITH ELECTRIC UNIT HEATER. COORDINATE INSTALLATION AND DISCONNECT LOCATION.
3. UNIT MOUNTED ELECTRICAL DISCONNECT SWITCH PROVIDED WITH GAS RADIANT HEATER. COORDINATE INSTALLATION.
4. 4'-0" HIGH X 6'-0" LONG X 3/4" THICK FIRE-RETARDANT PLYWOOD BACKBOARD.
5. PROVIDE WALL MOUNTED DATA CABINET.
6. POWER FOR DATA EQUIPMENT IN CABINET. COORDINATE MOUNTING HEIGHT WITH DATA CABINET.
7. POWER FOR ACCESS CONTROL PANEL. ACCESS CONTROL SYSTEM BY OTHER.
8. OCCUPANCY SENSORS IN THIS BUILDING ARE INTENDED TO CONTROL THE FIXTURES INDICATED WITH THE SAME SWITCH TAG.
9. PROVIDE TIMECLOCK AND ANY NECESSARY ACCESSORIES.
10. CONTROL ENTIRE CIRCUIT BY TIMECLOCK.
11. POWER FOR MOTORIZED OVERHEAD DOOR. COORDINATE MOUNTING LOCATION OF ELECTRICAL DISCONNECT MEANS.
12. PROVIDE 1" CONDUIT FOR ACCESS CONTROL CABLING FROM CONTROL PAD POST TO LOCATION FOR ACCESS CONTROL PANEL. COORDINATE REQUIREMENTS WITH OWNER. DATA CABLING BY OTHER.
13. USE IMC OR RMC FOR EXPOSED CONDUIT UNDER THE DOZER WASH CANOPY.

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LITTLE ROCK, ARKANSAS

Design Phase

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CERTIFICATE OF AUTHORIZATION CROMWELL ARCHITECTS/ ENGINEERS #5 ARKANSAS, ENGINEER

STATE OF ARKANSAS 21174 REGISTERED PROFESSIONAL ENGINEER No. 9401 THOMAS W. CROMWELL

02-06-2024

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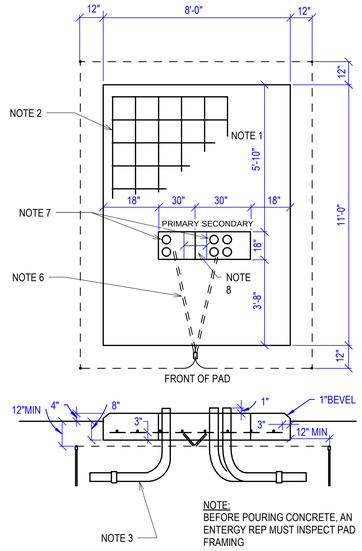
Sheet Title

ELECTRICAL PLANS

Sheet Number

E-101

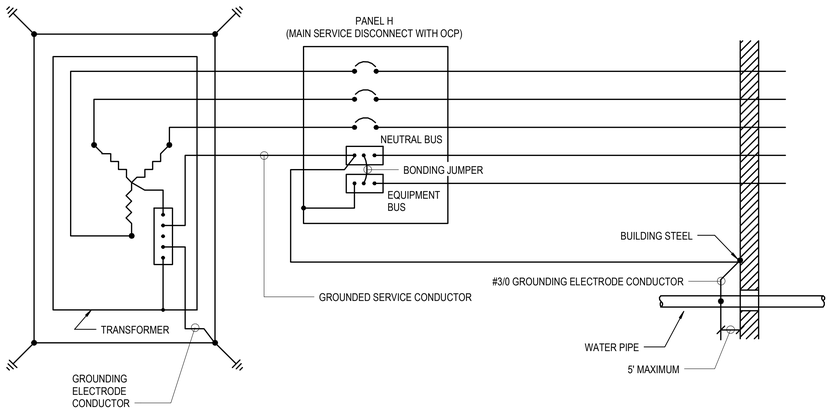


NOTE:
BEFORE POURING CONCRETE, AN ENTERGY REP MUST INSPECT PAD FRAMING

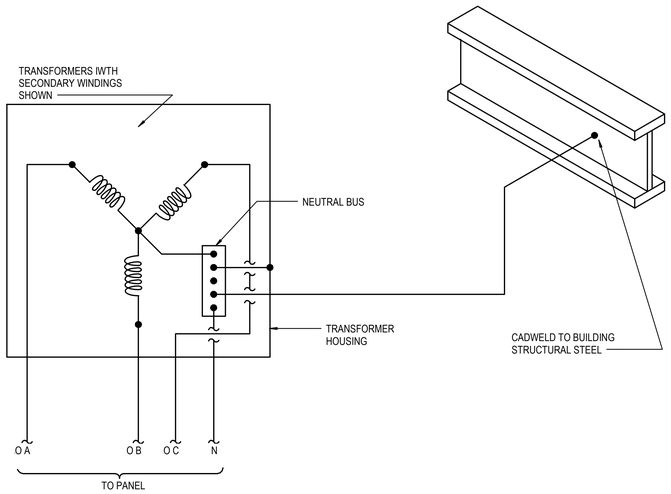
NOTES:

1. WHERE POSSIBLE DO NOT PLACE CONDUIT UNDER THIS SECTION OF FOUNDATION.
2. REINFORCING - #4 BARS 12" C.C. BOTH WAYS.
3. WHEN INSTALLING CONDUIT DISTURB GROUND IN FOUNDATION AREA AS LITTLE AS POSSIBLE. EXTEND CONDUIT 1" ABOVE FOUNDATION.
4. TOP OF FOUNDATION TO BE SMOOTH AND LEVEL. FINAL GRADE SHALL SLOPE AWAY FROM PAD.
5. CONCRETE SHALL BE 3500 PSI AT 28 DAYS AND 1:2:4 MIXTURE WITH 6 GAL. MAX WATER CONTENT PER SACK OF CEMENT.
6. CONTRACTOR TO FURNISH 1" CONDUIT UNDER PAD FOR GROUND WIRE.
7. LOCATE CONDUITS UNDER PRIMARY & SECONDARY BUSHINGS.
8. PRIMARY AND SECONDARY CONDUITS AT LEAST 18" APART.
9. TRANSFORMER LOCATION:
   * TRANSFORMER PAD REQUIRES A MIN. 3'-0" CLEARANCE AROUND EACH SIDE AND BACK OF PAD.
   * A 15'-0" CLEARANCE IS REQUIRED ON FRONT SIDE OF PAD
   * THE TRANSFORMER SHALL BE INSTALLED SO THAT THE FRONT OF THE UNIT DOES NOT FACE THE BUILDING.
   * THE TRANSFORMER MUST BE INSTALLED 10' AWAY FORM ANY DOORS, WINDOWS, OR NON-METALLIC/MASONRY WALLS.
   * THER MUST BE A 20' MIN. DIMENSION FROM A FIRE HYDRANT AND FIRE ESCAPE.

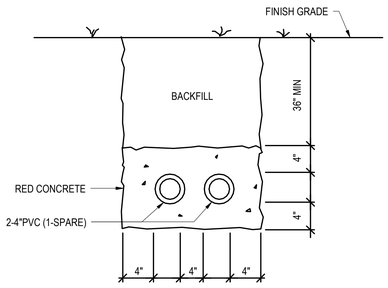
1 ENTERGY THREE PHASE TRANSFORMER PAD FOUNDATION
N.T.S.



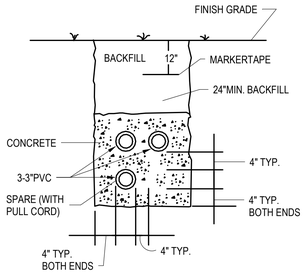
6 PRIMARY SERVICE GROUNDING
N.T.S.



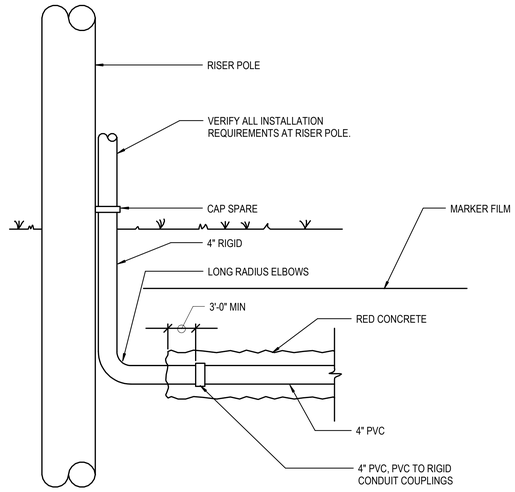
7 480-120/208V TRANSFORMER GROUNDING
N.T.S.



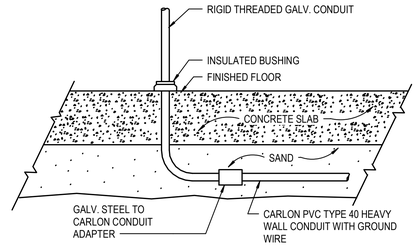
2 ELECTRICAL DUCT ENCASEMENT
N.T.S.



4 3 DUCT ENCASEMENT
N.T.S.



3 ENCASEMENT RISER
N.T.S.



NOTE:

THE ABOVE DETAIL SHALL APPLY WHEREVER PVC CONDUITS IS USED UNDERGROUND OR BELOW FLOOR SLAB IN LIEU OF RIGID THREADED GALVANIZED CONDUIT. THE ELBOW SHALL BE RIGID GALVANIZED CONDUIT.

5 BELOW-SLAB CONDUIT
N.T.S.

CROMWELL
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Project

City of LITTLE ROCK

CITY OF LITTLE ROCK
LANDFILL TRUCK WASH
LITTLE ROCK, ARKANSAS

Design Phase
CONSTRUCTION DOCUMENTS

Revisions

No.	Date	Description

Stamp

CROMWELL ARCHITECTS ENGINEERS #5 — CERTIFICATE OF AUTHORIZATION — ARKANSAS ENGINEER

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 9401 — JEFFREY D. MASSEY
02-06-2024

Notes

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2023-143

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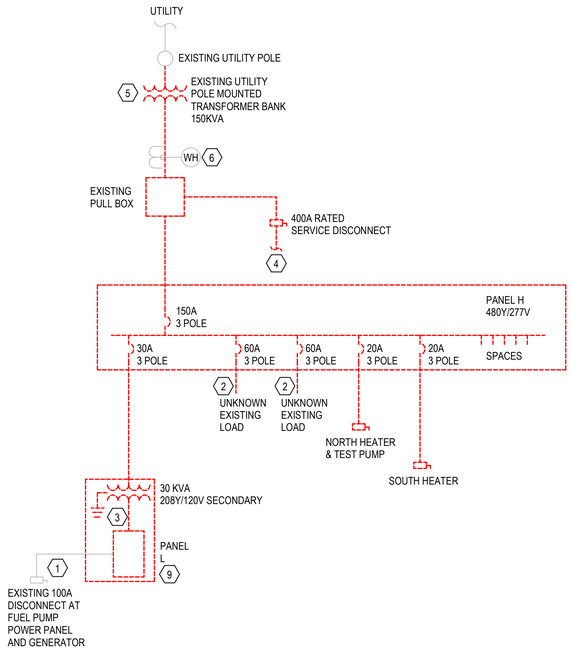
02-06-2024

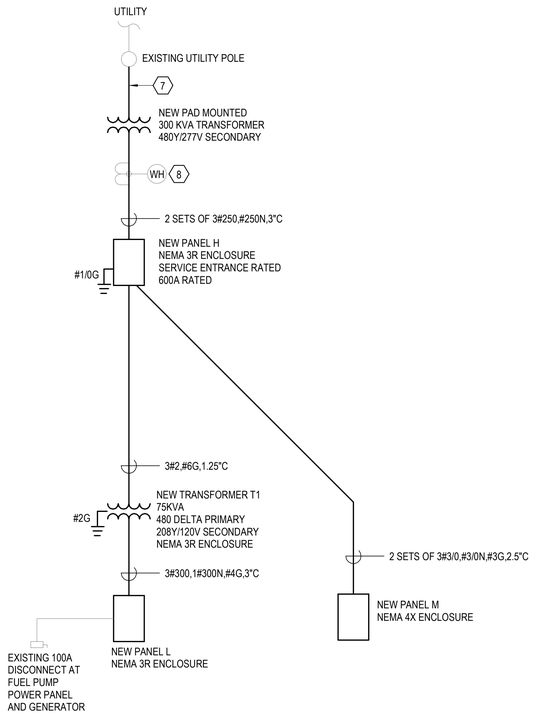
Sheet Title
ELECTRICAL DETAILS

Sheet Number
E-501



1 EXISTING SINGLE-LINE

N.T.S.



2 NEW SINGLE-LINE

N.T.S.

GENERAL NOTES:

A. COORDINATE ALL SITE UTILITIES PRIOR TO DOING ANY SITE WORK. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT CONTRACOTR'S EXPENSE.

B. INFORMATION REGARDING EXSITING CONDITIONS WAS TAKEN FROM RECORD DRAWINGS AND CASUAL SITE OBSERVATIONS. VERIFY AND DOCUMENT EXISTING CONDITIONS PRIOR TO DEMOLITION.

C. PROVIDE TYPED PANEL DIRECTORIES.

D. COORDINATE SERVICE CHANGES, NEW UTILITY TRANSFORMER REQUIREMENTS, AND POLE MODIFICATIONS WITH ENTERGY.

KEYED NOTES:

1. CONFIRM THIS DISCONNECT IS FED AS INDICATED. CONFIGURATION INDICATED ON DRAWING IS BASED ON CASUAL SITE OBSERVATIONS.
2. TRACE EXISTING LOAD. IF THE EXISTING LOAD IS NOT INDICATED TO BE REMOVED, CONNECT TO NEW SPARE 60A 3 POLE BREAKER IN NEW PANEL H. VERIFY BREAKER AND EXSITING WIRE IS SIZED PER NEC. EXTEND CONDUCTORS AND CONDUITS AS NECESSARY TO RECONNECT TO NEW PANEL H.
3. EXISTING TRANSFORMER IS IN THE SAME ENCLOSURE AS PANEL L.
4. DISCONNECT SERVES WASH EQUIPMENT IN THE EQUIPMENT BUILDING. DEMOLISH ALL EXISTING ELECTRICAL CIRCUITS AND DEVICES SERVING EXISTING WASH EQUIPMENT.
5. COORDINATE REMOVAL WITH ENTERGY. MINIMIZE OUTAGES TO FUEL STATIONS.
6. DISCONNECT EXISTING ENTERGY METER AND REUSE FOR NEW INSTALLATION. COORDINATE NEW INSTALLATION REQUIREMENTS WITH ENTERGY. VERIFY EXISTING METER IS ADEQUATELY SIZED FOR NEW INSTALLATION.
7. PROVIDE NEW POLE RISER AND EMPTY UNDERGROUND CONDUITS TO UTILITY TRANSFORMER. PRIMARY CONDUCTORS BY ENTERGY. COORDINATE INSTALL AND EXACT REQUIREMENTS WITH ENTERGY.
8. COORDINATE NEW LOCATION OF METER.
9. TRACE EXISTING LOADS IN PANEL L. IF THE EXISTING LOAD IS NOT INDICATED TO BE REMOVED, CONNECT TO NEW APPROPRIATELY SIZED SPARE BREAKER IN NEW PANEL L. EXTEND CONDUCTORS AND CONDUITS AS NECESSARY TO RECONNECT TO NEW PANEL.

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Project

City of LITTLE ROCK

CITY OF LITTLE ROCK

LANDFILL TRUCK WASH

LITTLE ROCK, ARKANSAS

Design Phase

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CERTIFICATE OF AUTHORIZATION
CROMWELL ARCHITECTS/ ENGINEERS #5
ARKANSAS ENGINEER

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9401
TRAVIS W. SMITH

02-06-2024

Notes

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Issue Date **02-06-2024**

Sheet Title

ELECTRICAL SINGLE-LINE DIAGRAM

Sheet Number

E-601

PANEL H | MOUNTING SURFACE | LOCATION | MAIN BUS RATING 600 AMPS
MAIN CB | POLES 3 | FRAME 600 | TRIP 500
VOLTAGE 480Y/277 | PHASE 3 | MINIMUM BREAKER INTERRUPTING CAPACITY 14 KAIC
ACCESSORIES SN + EQP GND + NEMA 3R

DEVICE AMPS TRIP	POLES	TYPE	BRANCH CIRCUIT LOAD	DESCRIPTION	VOLT AMPS	NO	PHASE LOAD VOLT AMPS A	B	C	NO	BRANCH CIRCUIT VOLT AMPS	DESCRIPTION	LOAD	DEVICE TYPE	POLES	AMPS TRIP
125	3		S	TRANSFORMER T1	17747	1	92247			2	74500	PANEL M	S		3	400
-			S	TRANSFORMER T1	17893	3		92393		4	74500	PANEL M	S			-
-			S	TRANSFORMER T1	17813	5			92313	6	74500	PANEL M	S			-
60	3			SPARE		7	2110			8	2110	EF-1	H		3	20
-				-		9		2110		10	2110	-5HP	H			-
-				-		11			2110	12	2110	-	H			-
60	3			SPARE		13	2110			14	2110	EF-2	H		3	20
-				-		15		2110		16	2110	-5HP	H			-
-				-		17			2110	18	2110	-	H			-
20	1			SPARE		19				20		SPARE			1	20
20	1		L	EQUP BLDG INT LIGHTS	190	21		190		22		SPARE			1	20
20	1		L	WASH BLDG INT LIGHTS	1705	23			1705	24		SPARE			1	20
20	1		L	WASH/EQUP BLDGS EXT L	284	25	284			26		SPARE			1	20
20	1		L	DOZER WASH LIGHTS	1450	27		1450		28		SPARE			1	20
20	1			SPARE		29				30		SPARE			1	20
				SPACE		31				32		SPACE				
				SPACE		33				34		SPACE				
				SPACE		35				36		SPACE				
				SPACE		37				38		SPD	M		3	(1)
				SPACE		39				40		-	M			-
				SPACE		41				42		-	M			-
				TOTAL			96751	98253	98238			293 KVA (CONNECTED)			353	AMPS (CONNECTED)
												285 KVA (DEMAND)			343	AMPS (DEMAND)

PANEL M | MOUNTING SURFACE | LOCATION | MAIN BUS RATING 400 AMPS
MAIN LO | POLES | FRAME | TRIP
VOLTAGE 480Y/277 | PHASE 3 | MINIMUM BREAKER INTERRUPTING CAPACITY 14 KAIC
ACCESSORIES SN + EQP GND + NEMA 4X

DEVICE AMPS TRIP	POLES	TYPE	BRANCH CIRCUIT LOAD	DESCRIPTION	VOLT AMPS	NO	PHASE LOAD VOLT AMPS A	B	C	NO	BRANCH CIRCUIT VOLT AMPS	DESCRIPTION	LOAD	DEVICE TYPE	POLES	AMPS TRIP
100	3		M	PUMP SKID	20300	1	45300			2	25000	PRESSURE WASH HEAT	M		3	100
-			M	-	20300	3		45300		4	25000	-	M			-
-			M	-	20300	5			45300	6	25000	-	M			-
40	3		M	PRESSURE WASHER	7500	7	25550			8	18050	DE-MUDDER SKID	M		3	90
-			M	-	7500	9		25550		10	18050	-	M			-
-			M	-	7500	11			25550	12	18050	-	M			-
15	3		M	MUD BLASTER PUMP SKID	2250	13	3650			14	1400	WASHBAY EQUIP	M		3	15
-			M	-	2250	15		3650		16	1400	-	M			-
-			M	-	2250	17			3650	18	1400	-	M			-
				SPACE		19				20		SPACE				
				SPACE		21				22		SPACE				
				SPACE		23				24		SPACE				
				SPACE		25				26		SPACE				
				SPACE		27				28		SPACE				
				SPACE		29				30		SPACE				
						31				32						
						33				34						
						35				36						
						37				38						
						39				40						
						41				42						
				TOTAL			74500	74500	74500			224 KVA (CONNECTED)			269	AMPS (CONNECTED)
												224 KVA (DEMAND)			269	AMPS (DEMAND)

PANEL L | MOUNTING SURFACE | LOCATION EXTERIOR | MAIN BUS RATING 400 AMPS
MAIN CB | POLES 3 | FRAME 400 | TRIP 300
VOLTAGE 208Y/120 | PHASE 3 | MINIMUM BREAKER INTERRUPTING CAPACITY 10 KAIC
ACCESSORIES SN + EQP GND + NEMA 3R

	DEVICE AMPS TRIP	POLES	TYPE	BRANCH CIRCUIT LOAD	DESCRIPTION	VOLT AMPS	NO	PHASE LOAD VOLT AMPS A	B	C	NO	BRANCH CIRCUIT VOLT AMPS	DESCRIPTION	LOAD	DEVICE TYPE	POLES	AMPS TRIP
(4)	100	3		M	EX.FUEL ELEC GEAR	9607	1	11157			2	1550	EUH-1	H		2	20
	-			M	-	9607	3		11157		4	1550	-	H			-
	-			M	-	9607	5			11157	6	1550	EUH-2	H		2	20
(2)	100	2			SPARE		7	1550			8	1550	-	H			-
	-				-		9		576		10	576	GRH-1	H		1	20
(2)	40	2			SPARE		11			576	12	576	GRH-2	H		1	20
	-				-		13	576			14	576	GRH-3	H		1	20
	45	3		M	AIR COMPRESSOR	2100	15		2676		16	576	GRH-4	H		1	20
	-			M	-5HP	2100	17			3180	18	1080	EQUIP BLDG REC	R		1	20
	-			M	-	2100	19	2600			20	500	DATA RACK	M		1	20
(3)	20	1		M	CHEMICAL PUMP	1000	21		1720		22	720	DOZER PAD REC	R		1	20
(3)	20	1		M	WATER SOFTENER	1000	23			2000	24	1000	ACCESS CONTROL	M		1	20
(3)	20	1		M	GRANZOW VALVE	1000	25	1000			26		SPARE			1	20
	20	1		R	TRUCK WASH REC	900	27		900		28		SPARE			1	20
	20	1		R	TRUCK WASH REC	900	29			900	30		SPARE			1	20
	20	1		M	WASH BLDG OVER DOOR	864	31	864			32		SPARE			1	20
	20	1		M	WASH BLDG OVER DOOR	864	33		864		34		SPARE			1	20
	20	1			SPARE		35				36		SPARE			1	20
	20	1			SPARE		37				38		SPARE			1	20
	20	1			SPARE		39				40		SPARE			1	20
	20	1			SPARE		41				42		SPARE			1	20
					TOTAL			17747	17893	17813			53 KVA (CONNECTED)			148	AMPS (CONNECTED)
													45 KVA (DEMAND)			125	AMPS (DEMAND)

PANEL SCHEDULE LEGEND

MAIN
CB = CIRCUIT BREAKER
LO = LUGS ONLY

BRANCH CIRCUIT BREAKER TYPE
A = ARC FAULT CIRCUIT INTERRUPTER
G = GROUND FAULT CIRCUIT INTERRUPTER
S = SHUNT TRIP
V = VARIABLE (ADJUSTABLE TRIP)
E = EQUIPMENT GROUND FAULT PROTECTION
L = LOCKOUT DEVICE
O = LOCK ON DEVICE OR BREAKER
R = RED MARKING ON BREAKER

LOAD TYPE
L = LIGHTING
R = RECEPTACLE
H = HVAC
M = MISCELLANEOUS
V = VARIOUS
S = SUBFED

MISCELLANEOUS
SN = SOLID NEUTRAL
EQP GND = EQUIPMENT GROUND BUS
IG = INSULATED GROUND BUS
SPD = SURGE PROTECTIVE DEVICE
AIC = AMPERE INTERRUPTING CAPACITY
KAIC = KILO AMPERE INTERRUPTING CAPACITY

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	VOLTAGE	SOURCE	TOTAL FIXTURE LUMENS	MAXIMUM FIXTURE WATTAGE	DESCRIPTION	KEYED NOTES
A1	ELITE LIGHTING ORACLE	4-OW1IP-LED-5000L-DIM10-MVOLT-40K-85-SSL	277	LED	5086	38	4' IP67 LINEAR VAPOR TIGHT STRIP	
A2	ELITE LIGHTING ORACLE	4-OW1IP-LED-8000L-DIM10-MVOLT-40K-85-SSL	277	LED	8299	65	4' IP67 LINEAR VAPOR TIGHT STRIP	
A2E	ELITE LIGHTING ORACLE	4-OW1IP-LED-8000L-DIM10-MVOLT-40K-85-0-EMG-LED-10W-SSL	277	LED	8299	65	4' IP67 LINEAR VAPOR TIGHT STRIP WITH EMERGENCY BATTERY BACKUP	
B1	U.S. ARCHITECTURAL LIGHTING RAZAR	RZR-WM1-PLED-II-20LED-350MA-NW-277-TBD-PC277V	277	LED	2706	22	EXTERIOR WALL MOUNTED AREA LIGHT	
B1E	U.S. ARCHITECTURAL LIGHTING RAZAR	RZR-WM1-PLED-II-20LED-350MA-NW-277-TBD-PC277V-EM	277	LED	2706	22	EXTERIOR WALL MOUNTED AREA LIGHT WITH EMERGENCY BATTERY BACKUP	
B2	U.S. ARCHITECTURAL LIGHTING RAZAR	RZR-WM1-PLED-III-20LED-350MA-NW-277-TBD-PC277V	277	LED	2706	22	EXTERIOR WALL MOUNTED AREA LIGHT	
C1	U.S. ARCHITECTURAL LIGHTING RAZAR	RZR-WM2-PLED-II-40LED-525MA-NW-277-TBD	277	LED	8059	65	EXTERIOR WALL MOUNTED AREA LIGHT	
C2	U.S. ARCHITECTURAL LIGHTING RAZAR	RZR-WM2-PLED-IV-40LED-525MA-NW-277-TBD-PC277V	277	LED	8059	65	EXTERIOR WALL MOUNTED AREA LIGHT	
XE	LIGHTALARMS SEVERE	GG-XVEHZ-1-R-D	277	LED	NA	5	FULLY GASKETED EXIT SIGN WITH EMERGENCY BATTERY BACKUP	

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

A. PROVIDE HARDWARE AS REQUIRED FOR MOUNTING. SOME FIXTURES ARE INDICATED TO BE MOUNTED ON BEAMS OR COLUMNS.

B. ALL FIXTURES ARE INTENDED TO BE SURFACE MOUNTED.

GENERAL NOTES:

A. UPDATE PANEL CIRCUIT DIRECTORIES WITH ANY CHANGES THAT OCCUR DURING CONSTRUCTION.

KEYED NOTES:

(1) SIZE OVERCURRENT PROTECTION FOR SURGE PROTECTION DEVICE PER MANUFACTURER RECOMMENDATIONS.

(2) SPARE BREAKER MAY BE USED FOR RECONNECTION OF EXISTING LOAD IF DETERMINED THE EXISTING LOAD NEEDS TO REMAIN. VERIFY OVERCURRENT PROTECTION RATING AND CONDUCTOR SIZES FOR EXISTING LOAD MEET CODE. SEE KEYED NOTE 11 ON SHEET E-601.

(3) EQUIPMENT SERVED BY THIS CIRCUIT IS BY OTHER. ACTUAL ELECTRICAL LOAD MAY VARY. ESTIMATE OF EQUIPMENT VA IS SHOWN.

(4) VA SHOWN IS AN APPROXIMATION. ACTUAL LOAD INFORMATION WAS NOT AVAILABLE.

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Project
CITY OF LITTLE ROCK
LANDFILL TRUCK WASH
LITTLE ROCK, ARKANSAS

Design Phase
CONSTRUCTION DOCUMENTS

Revisions

No.	Date	Description

Stamp
CERTIFICATE OF AUTHORIZATION — CROMWELL ARCHITECTS ENGINEERS #5 — ARKANSAS ENGINEER
STATE OF ARKANSAS — JAMES W. WESLEY — REGISTERED PROFESSIONAL ENGINEER — No. 9401
02-06-2024

Notes
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Project Number **2023-143**
Issue Date **02-06-2024**
Sheet Title **ELECTRICAL SCHEDULES**
Sheet Number **E-602**

LITTLE ROCK LANDFILL
STORM TRUCKWASH
LITTLE ROCK, AR

REV	DATE	DESCRIPTION	ZONE	APRD
A	*01-11-24*	*1. REVERSED TRAFFIC FLOW THRU TRUCK WASH BAY AND DOZER DETAIL WASH PAD. 2. RE-ARRANGED THE EQUIPMENT WITH THE EQUIPMENT SPACE MAKING ACCOMMODATIONS FOR CURRENT UTILITY LOCATIONS. 3. CHANGED TANK "DD" TO SECOND TANK "AH". 4. REMOVED TANK "AK" 5. ADDED ADDITIONAL PAGE WITH UPDATED DE-MUDDER TRENCH DETAILS. 6. RE-NUMBERED ALL PAGES WITHIN DRAWING SET.*	*-*	*KBM*
IR	*10-18-23*	*INITIAL RELEASE*	*-*	*JAD*

REVISIONS

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WHITING SYSTEMS, INC.
9000 HIGHWAY 5 NORTH
ALEXANDER ARKANSAS 72002
U.S.A. 501-847-9031

	DRAWN BY: *JAD*	TITLE: *LITTLE ROCK LANDFILL STORM TRUCKWASH LITTLE ROCK, AR*
	DATE: *10-18-23*	
	SCALE: *NONE*	
	SHEET: *COVER*	
ALL DIMENSIONS ARE IN INCHES	TOL: *NA*	DWG. NO: *COVER SHEET* REV: *A*

GENERAL INFORMATION

> *ANY REFERENCE TO GENERAL CONTRACT CAN MEAN THE GENERAL CONTRACTOR OR THEIR DESIGNEE: ANY REFERENCE TO GENERAL CONTRACTOR ALSO INFERS WORK/ EQUIPMENT IS NOT TO BE PROVIDED BY WHITING SYSTEM INC. OR WHITING'S DESIGNEE.*

> *THE GENERAL CONTRACTOR OR THEIR DESIGNEE IS RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE LOCAL CODES, PERMITS AND INSPECTIONS.*

> *SEE SCHEDULE FOR WORK SCOPE RESPONSIBILITIES.*

> *FRESH (CITY) WATER FEED REQUIREMENT: 250 GPM @ 60 PSI AFTER RPZ. BACK FLOW PREVENTER (RPZ) TO BE SUPPLIED BY GENERAL CONTRACTOR OR OTHERS.*

> *IT IS THE CUSTOMER'S RESPONSIBILITY TO HAVE A DEDICATED ETHERNET CONNECTION NEAR THE TRUCK WASH PUMP SKID PANEL.*

> *ELECTRICAL SPECIFICATIONS IS: 480 VOLT, 3ϕ, 60 HZ SERVICE, ± 5% TOLERANCE. IT IS THE CUSTOMER/ CONTRACTORS RESPONSIBILITY TO WORK WITH LOCAL UTILITIES TO PROVIDE SERVICE WHICH MEET THIS SPECIFICATION. LINE CONDITIONING MAY BE NECESSARY.*

> *MINIMUM ELECTRICAL SERVICE AMPERAGE REQUIREMENT: 400 AMPS WHITING SYSTEM WASH EQUIPMENT (FLA): 268 AMPS IT IS THE CUSTOMER/ GENERAL CONTRACTORS RESPONSIBILITY TO PROVIDE ELECTRICAL SERVICE WHICH MEET THIS SPECIFICATION.*

> *WHITING SYSTEMS INC. ELECTRICAL CONDUIT SPECIFICATION: GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR OR OTHER TO USE CONDUIT WHICH MEETS LOCAL CODE. USE OF EMT NOT ACCEPTABLE FOR USE WITH WHITING SYSTEMS INC. WASH EQUIPMENT. WHITING SYSTEMS INC. WILL NOT BE RESPONSIBLE FOR DAMAGE TO WASH SYSTEM EQUIPMENT DUE TO THE USE OF EMT CONDUIT.*

> *CONDUIT PENETRATION INTO ELECTRICAL BOXES SHALL BE FROM BOTTOM ONLY. WHITING SYSTEMS INC. WILL NOT BE RESPONSIBLE FOR DAMAGE TO WASH SYSTEM EQUIPMENT DUE TO IMPROPER CONDUIT PENETRATION.*

> *CUSTOMER RESPONSIBLE TO SUPPLY CLEAN, DRY AIR NECESSARY TO MEET THE WHITING SYSTEMS INC. WASH EQUIPMENT AIR DEMAND REQUIREMENTS. WASH EQUIPMENT AIR REQUIREMENT: 15 CFM @ 100 PSI*

> *1/2" - AIR LINES - FROM GENERAL CONTRACTOR SUPPLIED AIR SUPPLY TO PUMP SKID, DE-MUDDER, MUD BLASTER, AND PRE-SPRAYS.*

> *GRATING OVER THE DE-MUDDER SPRAY MANIFOLD SHOULD BE AS OPEN AS PRACTICAL; UP TO THE 2-1/2" OPENING ALLOWABLE.*

> *FOR OPTIMUM DE-MUDDER PERFORMANCE, WHITING SYSTEMS INC. RECOMMENDS THE LENGTH OF THE DISCHARGE PIPE AND THE NUMBER OF TURNS MUST BE KEPT TO A MINIMUM. WHEN MAKING TURNS IN THE DE-MUDDER DISCHARGE PIPE, THE USE OF LONG SWEEP 90° ELBOWS OR (2X) 45° ELBOWS SHOULD BE USED IN LIEU OF STANDARD 90° ELBOWS.*

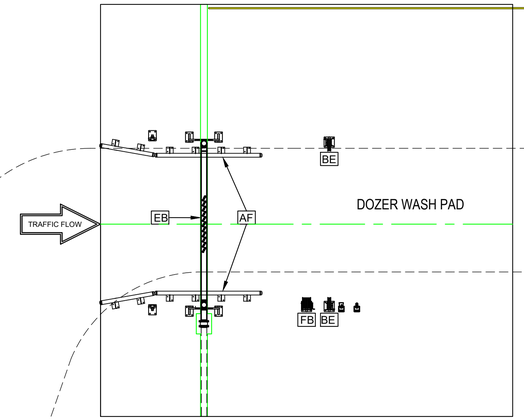
> *THE GENERAL CONTRACTOR OR CUSTOMER WILL BE RESPONSIBLE FOR PROVIDING SUFFICIENT MOUNTING STRUCTURE FOR FESTOONS AND HOSE REELS.*

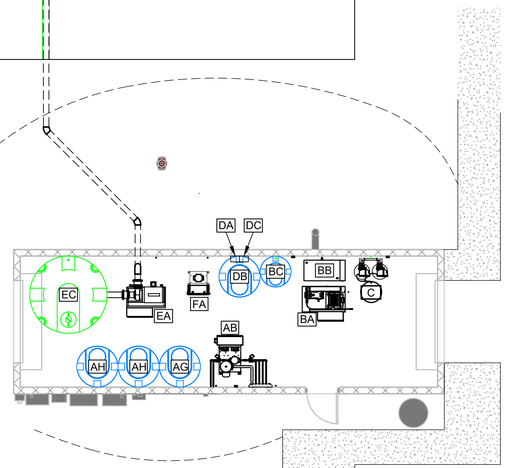
> *ACTUAL TANK SIZES MAY VERY BASED ON AVAILABILITY AND LOCATION.*

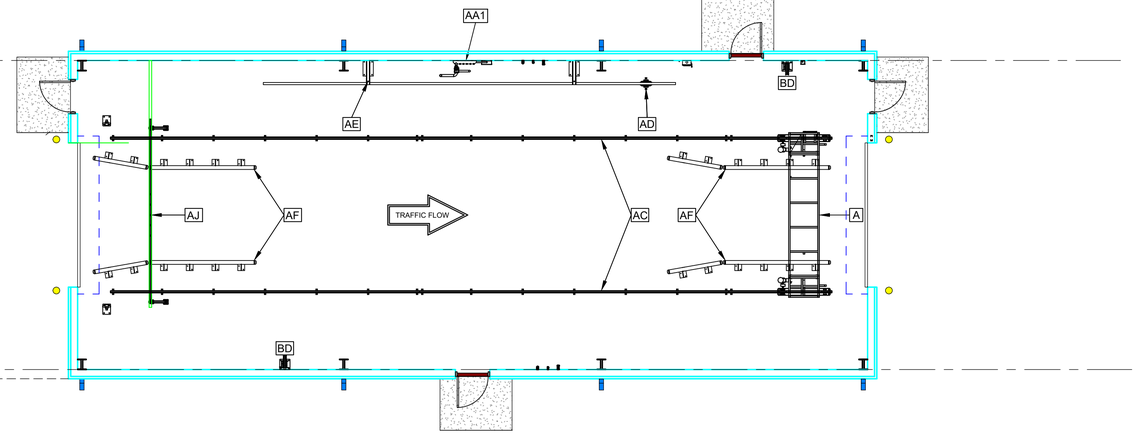
> *BAY HEIGHT MUST BE 19 FEET OR GREATER (ALLOW CLEARANCE FOR HEATERS, DOORS, LIGHTS, ETC.).*

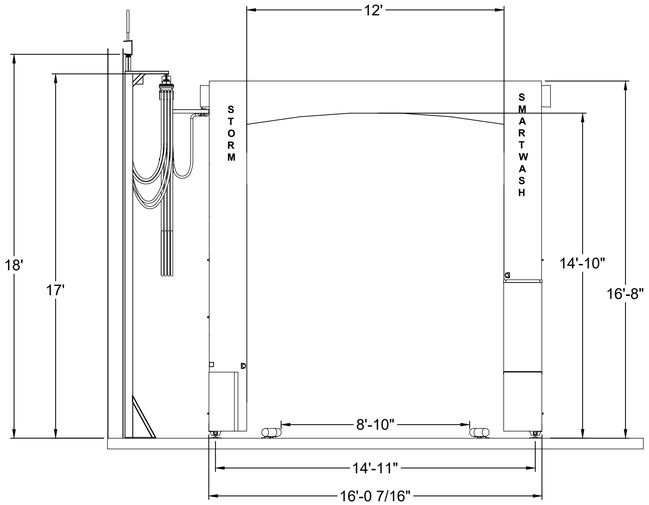
> *BAY LENGTH RECOMMENDED TO BE 15 FEET LONGER THAN LONGEST VEHICLE.*

> *WSI PROVIDED EQUIPMENT IS DRAWN TO SCALE, EXCEPT THE HOSE REELS.*









WASH GANTRY

ENTRANCE VIEW

POLE MOUNT FESTOON

WHITING SYSTEMS, INC.
9000 HIGHWAY 5 NORTH
ALEXANDER ARKANSAS 72002
U.S.A. 501-847-9031

DRAWN BY:	JAD
DATE:	10-18-23
SCALE:	NONE
SHEET:	1 OF 18
TITLE:	LITTLE ROCK LANDFILL STORM TRUCKWASH LITTLE ROCK, AR
ALL DIMENSIONS ARE IN INCHES	
TOL:	NA
DWG. NO:	OVERALL LAYOUT
REV:	A

GENERAL INFORMATION

> *ANY REFERENCE TO GENERAL CONTRACT CAN MEAN THE GENERAL CONTRACTOR OR THEIR DESIGNEE: ANY REFERENCE TO GENERAL CONTRACTOR ALSO INFERS WORK/ EQUIPMENT IS NOT TO BE PROVIDED BY WHITING SYSTEM INC. OR WHITING'S DESIGNEE.*

> *THE GENERAL CONTRACTOR OR THEIR DESIGNEE IS RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE LOCAL CODES, PERMITS AND INSPECTIONS.*

> *SEE SCHEDULE FOR WORK SCOPE RESPONSIBILITIES.*

> *FRESH (CITY) WATER FEED REQUIREMENT: 250 GPM @ 60 PSI AFTER RPZ. BACK FLOW PREVENTER (RPZ) TO BE SUPPLIED BY GENERAL CONTRACTOR OR OTHERS.*

> *IT IS THE CUSTOMER'S RESPONSIBILITY TO HAVE A DEDICATED ETHERNET CONNECTION NEAR THE TRUCK WASH PUMP SKID PANEL.*

> *ELECTRICAL SPECIFICATIONS IS: 480 VOLT, 3ϕ, 60 HZ SERVICE, ± 5% TOLERANCE. IT IS THE CUSTOMER/ CONTRACTORS RESPONSIBILITY TO WORK WITH LOCAL UTILITIES TO PROVIDE SERVICE WHICH MEET THIS SPECIFICATION. LINE CONDITIONING MAY BE NECESSARY.*

> *MINIMUM ELECTRICAL SERVICE AMPERAGE REQUIREMENT: 400 AMPS WHITING SYSTEM WASH EQUIPMENT (FLA): 268 AMPS IT IS THE CUSTOMER/ GENERAL CONTRACTORS RESPONSIBILITY TO PROVIDE ELECTRICAL SERVICE WHICH MEET THIS SPECIFICATION.*

> *WHITING SYSTEMS INC. ELECTRICAL CONDUIT SPECIFICATION: GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR OR OTHER TO USE CONDUIT WHICH MEETS LOCAL CODE. USE OF EMT NOT ACCEPTABLE FOR USE WITH WHITING SYSTEMS INC. WASH EQUIPMENT. WHITING SYSTEMS INC. WILL NOT BE RESPONSIBLE FOR DAMAGE TO WASH SYSTEM EQUIPMENT DUE TO THE USE OF EMT CONDUIT.*

> *CONDUIT PENETRATION INTO ELECTRICAL BOXES SHALL BE FROM BOTTOM ONLY. WHITING SYSTEMS INC. WILL NOT BE RESPONSIBLE FOR DAMAGE TO WASH SYSTEM EQUIPMENT DUE TO IMPROPER CONDUIT PENETRATION.*

> *CUSTOMER RESPONSIBLE TO SUPPLY CLEAN, DRY AIR NECESSARY TO MEET THE WHITING SYSTEMS INC. WASH EQUIPMENT AIR DEMAND REQUIREMENTS. WASH EQUIPMENT AIR REQUIREMENT: 15 CFM @ 100 PSI*

> *1/2" - AIR LINES - FROM GENERAL CONTRACTOR SUPPLIED AIR SUPPLY TO PUMP SKID, DE-MUDDER, MUD BLASTER, AND PRE-SPRAYS.*

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> *WSI PROVIDED EQUIPMENT IS DRAWN TO SCALE, EXCEPT THE HOSE REELS.*

EQUIPMENT SUPPLIED BY WHITING SYSTEMS INC.:

A. STORM TRUCK WASH SYSTEM:
WITH ONBOARD PHOTO EYES, TRAFFIC LIGHT, AND TOUCHSCREEN FOR WASH SELECTION AND MAINTENANCE.

AA1. MANIFOLD
1 QTY. MOUNTED IN WASH BAY, 18' A.F.F.
CENTERED ON THE GANTRY TRACKS, ITEM "AC"

AB. PUMP SKID WITH UL LISTED CONTROL PANEL,
CR-32 HIGH PRESSURE PUMP, CR-5 PUMP, AND DDA CHEMICAL PUMP.

AC. GANTRY TRACKS - 70'

AD. FESTOON RAIL - 40' WITH TROLLEY
(SEE FESTOON DETAIL PAGE)

AE. FESTOON POLES (2)
(SEE FESTOON DETAIL PAGE)

AF. 6" GUIDE RAILS: 60' TOTAL = 4X5' AND 4X10' (TRUCKWASH BAY)
6" GUIDE RAILS: 30' TOTAL = 2X5' AND 2X10' (DETAIL BAY)

AG. WASH WATER TANK: 850 GALLON - 48" Ø X 117" HIGH

AH. CHEMICAL TANKS (2): 550 GALLON 48" Ø X 48" HIGH

AI. INTENTIONALLY BLANK

AJ. CHASSIS WASH SPRAY BAR WITH WHEEL KICKERS, 3-WAY VALVE, AND PHOTO EYES.

B. PRESSURE WASHER SYSTEM:

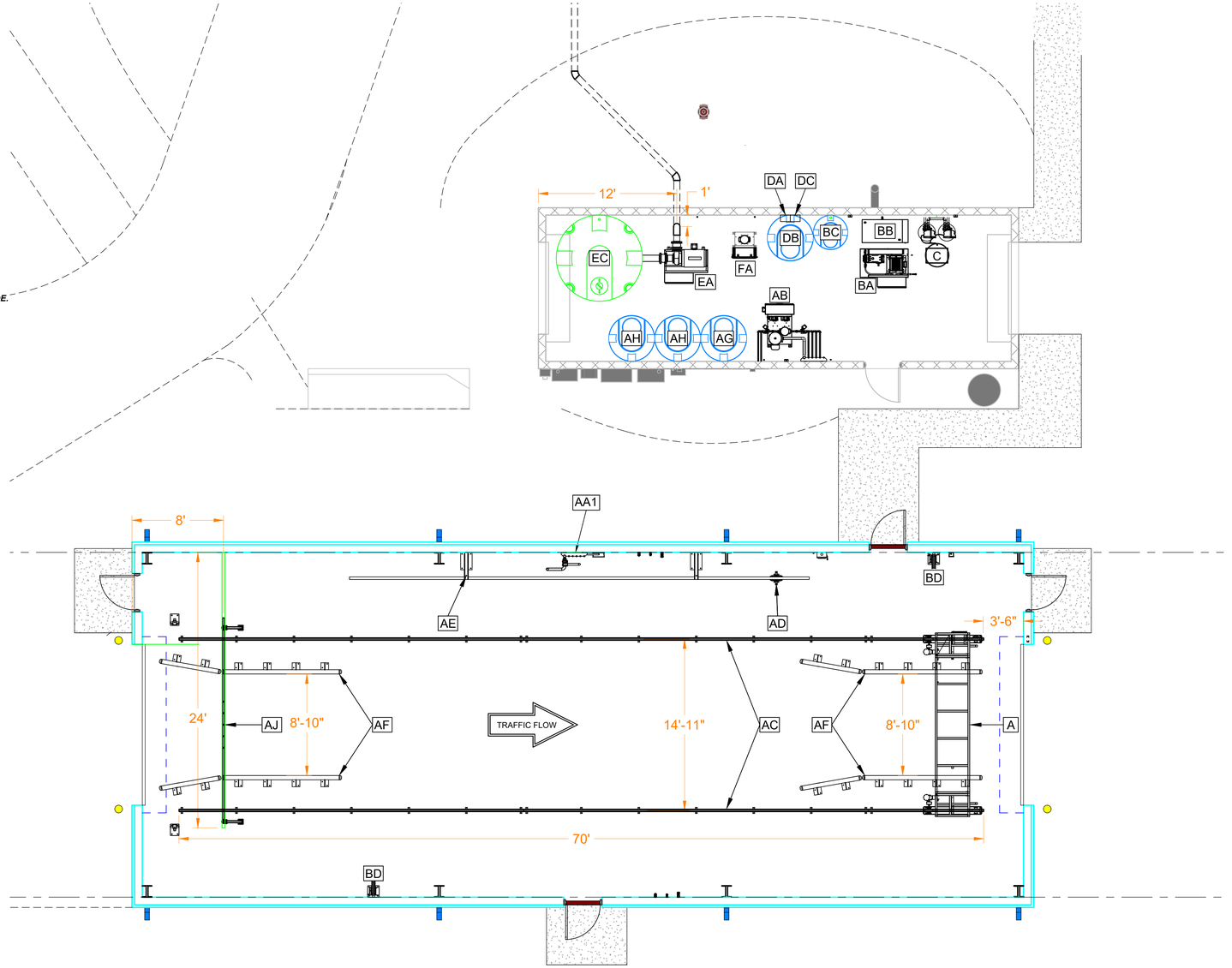
BA. MULTIGUN PRESSURE WASHER: MODEL 1020
WITH UL CONTROL PANEL
(SEE P-W DETAIL PAGE)

BB. PRESSURE WASHER HEATER: 72kW ELECTRIC HEATER
(SEE P-W DETAIL PAGE)

BC. SOFT WATER TANK: 200 GALLON- 33" Ø X 69" HIGH

BD. HOSE REEL, AUTOMATIC - (2)
WITH 75' OF HIGH PRESSURE HOSE, 48" WAND AND WAND WALL HANGER
(SEE P-W DROP DETAIL PAGE)

BE. HOSE REEL, AUTOMATIC - (2) ***(DETAIL/DOZER WASH BAY)***
WITH 75' OF HIGH PRESSURE HOSE, 48" WAND AND WAND WALL HANGER
(SEE P-W DROP DETAIL PAGE)



EQUIPMENT SUPPLIED BY WHITING SYSTEMS INC.:

C. WATER SOFTENER: CULLIGAN MODEL HET-120

D. PRE-SPRAY SYSTEM:

DA. DR PRE-SPRAY UNIT - AIR DRIVEN

DB. PRE-SPRAY CHEMICAL TANK: 550 GALLON - 48" Ø X 75" HIGH

DC. DR PRE-SPRAY UNIT - AIR DRIVEN

E. DE-MUDDER SYSTEM -

EA. DE-MUDDER PUMP SKID, 50HP - WITH UL CONTROL PANEL

EB. 6" DE-MUDDER MANIFOLD PIPE WITH SUPPORT STANDS

EC. DE-MUDDER WATER TANK:
2500 GALLON - 90" Ø X 148" HIGH

F. WATER CANNON (MUD BLASTER) SYSTEM:

FA. WATER CANNON (MUD BLASTER) PUMP SKID,
WITH UL CONTROL PANEL

FB. WATER CANNON HOSE REEL, MANUAL:
WITH 75' - 1" Ø HOSE AND NOZZLE

GENERAL LAYOUT FOR WASH BAY

WHITING SYSTEMS, INC.
9000 HIGHWAY 5 NORTH
ALEXANDER ARKANSAS 72002
U.S.A. 501-847-9031

DRAWN BY:	JAD
DATE:	10-18-23
SCALE:	NONE
SHEET:	2 OF 18
TITLE:	LITTLE ROCK LANDFILL STORM TRUCKWASH LITTLE ROCK, AR
ALL DIMENSIONS ARE IN INCHES	
TOL:	NA
DWG. NO:	GENERAL LAYOUT
REV:	A

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AA1. MANIFOLD
1 QTY. MOUNTED IN WASH BAY, ON POLE 18' A.F.F. CENTERED ON THE GANTRY TRACKS, ITEM "AC"

AB. PUMP SKID WITH UL LISTED CONTROL PANEL, CR-32 HIGH PRESSURE PUMP, CR-5 PUMP, AND DDA CHEMICAL PUMP.

AC. GANTRY TRACKS - 70'

AD. FESTOON RAIL - 40' WITH TROLLEY
(SEE FESTOON DETAIL PAGE)

AE. FESTOON POLES (2)
(SEE FESTOON DETAIL PAGE)

AF. 6" GUIDE RAILS: 60' TOTAL = 4X5' AND 4X10' (TRUCKWASH BAY)
6" GUIDE RAILS: 30' TOTAL = 2X5' AND 2X10' (DETAIL BAY)

AG. WASH WATER TANK: 850 GALLON - 48" Ø X 117" HIGH

AH. CHEMICAL TANK: 550 GALLON 48" Ø X 48" HIGH

AI. INTENTIONALLY BLANK

AJ. CHASSIS WASH SPRAY BAR WITH WHEEL KICKERS, 3-WAY VALVE, AND PHOTO EYES.

AK. SOFT WATER TANK: 300 GALLON - 35" Ø X 85" HIGH

B. PRESSURE WASHER SYSTEM:

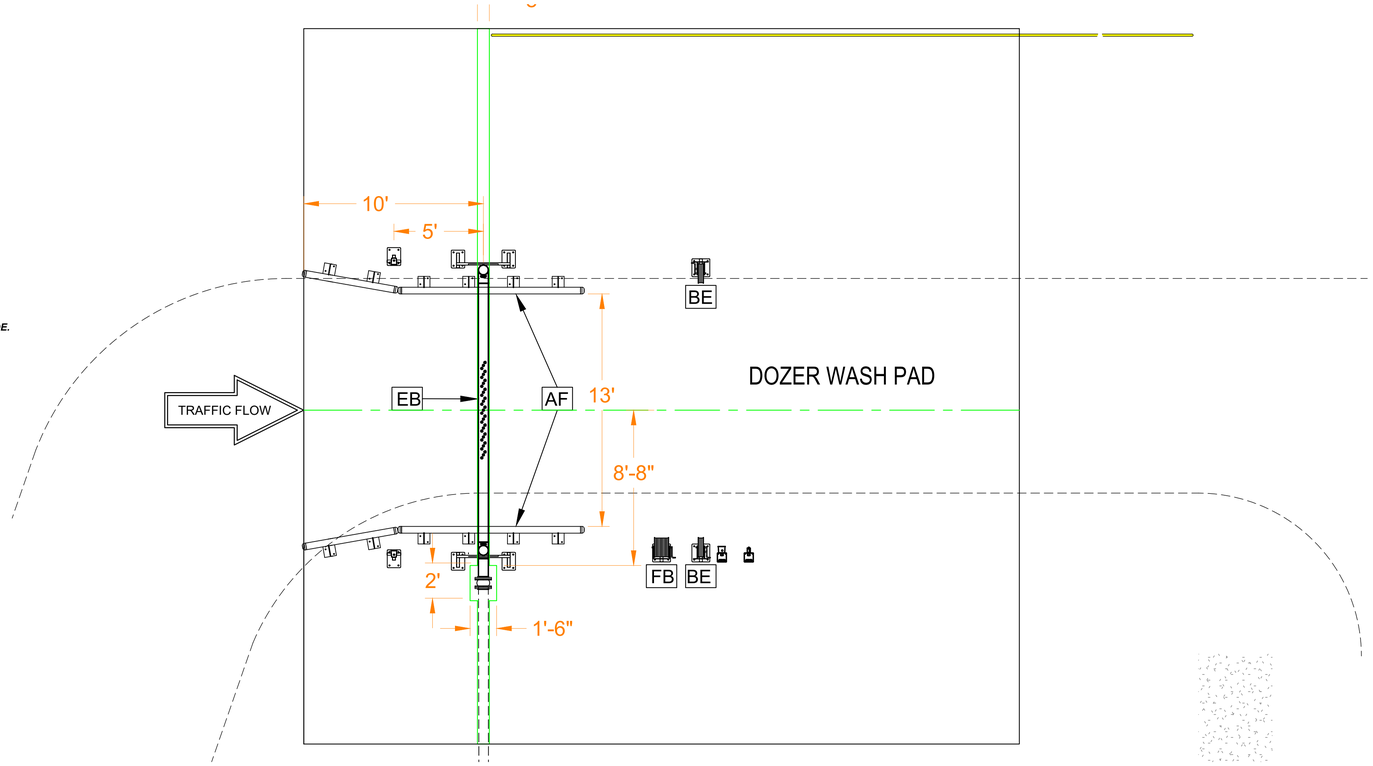
BA. MULTIGUN PRESSURE WASHER: MODEL 1020
WITH UL CONTROL PANEL
(SEE P-W DETAIL PAGE)

BB. PRESSURE WASHER HEATER: 72kW ELECTRIC HEATER
(SEE P-W DETAIL PAGE)

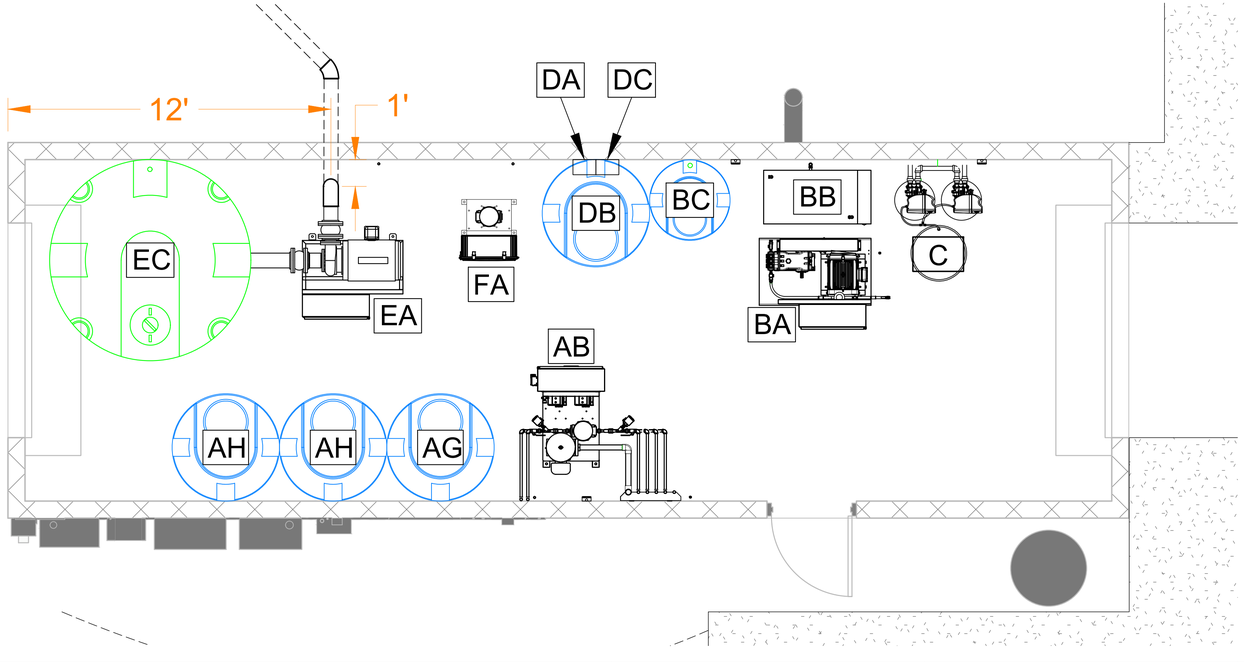
BC. SOFT WATER TANK: 200 GALLON- 33" Ø X 69" HIGH

BD. HOSE REEL, AUTOMATIC - (2)
WITH 75' OF HIGH PRESSURE HOSE, 48" WAND AND WAND WALL HANGER
(SEE P-W DROP DETAIL PAGE)

BE. HOSE REEL, AUTOMATIC - (2) ***(DETAIL/DOZER WASH BAY)***
WITH 75' OF HIGH PRESSURE HOSE, 48" WAND AND WAND WALL HANGER
(SEE P-W DROP DETAIL PAGE)



GENERAL LAYOUT FOR DETAIL (DOZER WASH) AREA



EQUIPMENT SUPPLIED BY WHITING SYSTEMS INC.:

C. WATER SOFTENER: CULLIGAN MODEL HET-120

D. PRE-SPRAY SYSTEM:

DA. DR PRE-SPRAY UNIT - AIR DRIVEN

DB. PRE-SPRAY CHEMICAL TANK: 550 GALLON - 48" Ø X 75" HIGH

DC. DR PRE-SPRAY UNIT - AIR DRIVEN

DD. PRE-SPRAY CHEMICAL TANK: 550 GALLON - 48" Ø X 75" HIGH

E. DE-MUDDER SYSTEM -

EA. DE-MUDDER PUMP SKID, 50HP - WITH UL CONTROL PANEL

EB. 6" DE-MUDDER MANIFOLD PIPE WITH SUPPORT STANDS

EC. DE-MUDDER PHOTO EYES

ED. DE-MUDDER WATER TANK:
2500 GALLON - 90" Ø X 148" HIGH

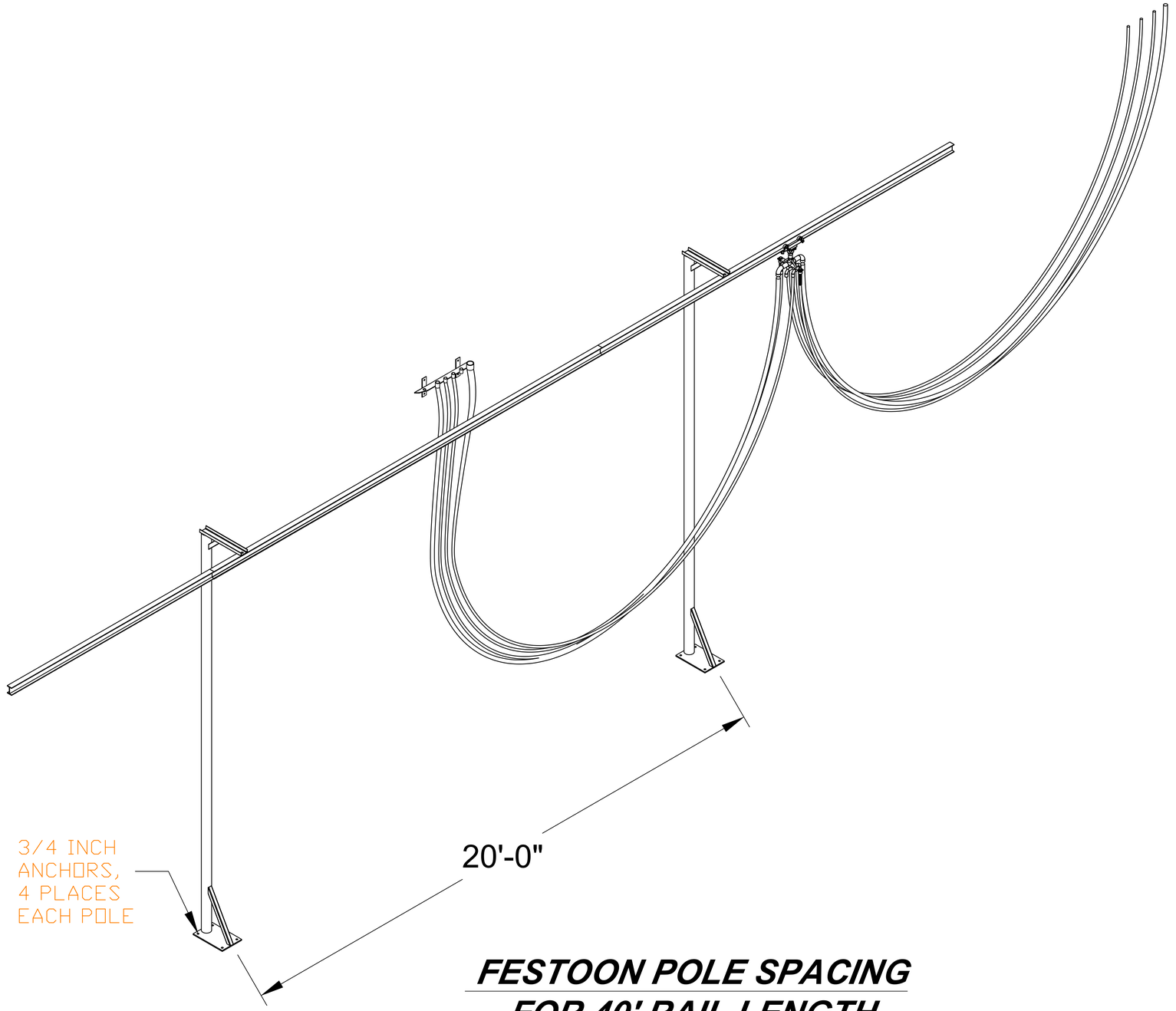
F. WATER CANNON (MUD BLASTER) SYSTEM:

FA. WATER CANNON (MUD BLASTER) PUMP SKID, WITH UL CONTROL PANEL

FB. WATER CANNON HOSE REEL, MANUAL:
WITH 75' - 1" Ø HOSE AND NOZZLE

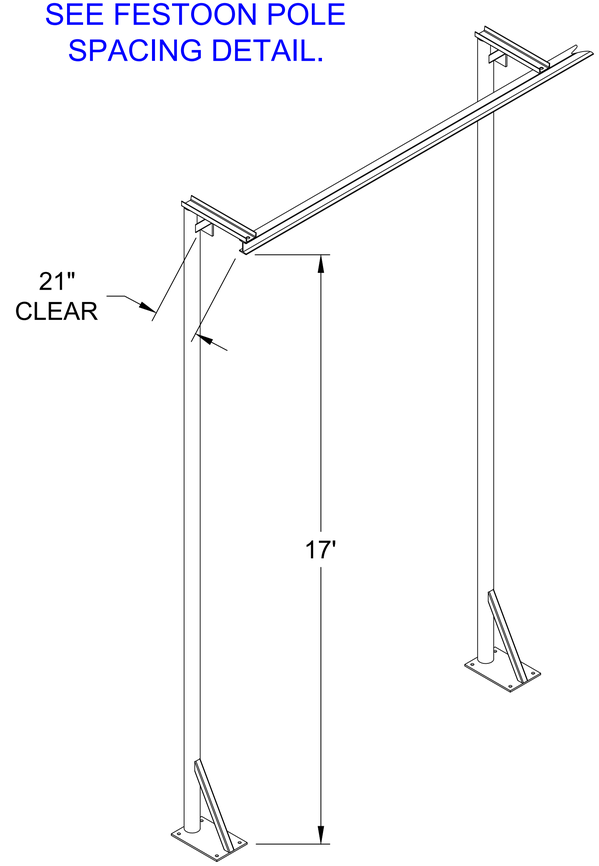
WHITING SYSTEMS, INC.
9000 HIGHWAY 5 NORTH
ALEXANDER ARKANSAS 72002
U.S.A. 501-847-9031

DRAWN BY:	JAD
DATE:	10-18-23
SCALE:	NONE
SHEET:	3 OF 18
TITLE:	LITTLE ROCK LANDFILL STORM TRUCKWASH LITTLE ROCK, AR
ALL DIMENSIONS ARE IN INCHES	
TOL:	NA
DWG. NO:	GENERAL LAYOUT
REV:	A



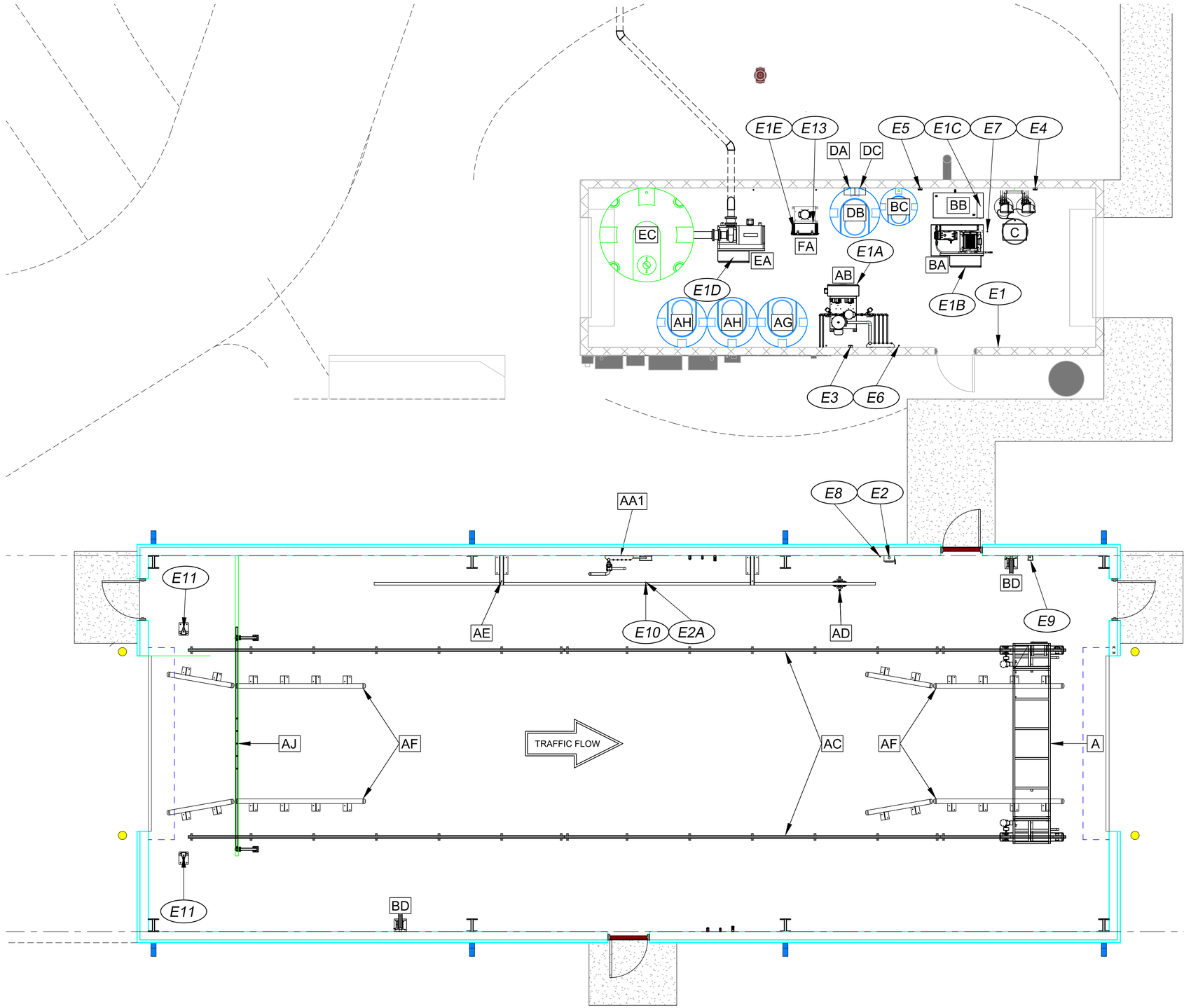
FESTOON POLE SPACING FOR 40' RAIL LENGTH

"I" BEAM (S4 x 7.7) CAN ONLY BE SUPPORTED BY TOP SURFACE OF TOP FLANGE. SEE FESTOON POLE SPACING DETAIL.



FESTOON RAIL ON POLES

WHITING SYSTEMS, INC. 9000 HIGHWAY 5 NORTH ALEXANDER ARKANSAS 72002 U.S.A. 501-847-9031	DRAWN BY: JAD DATE: 10-18-23 SCALE: NONE SHEET: 4 OF 18	TITLE: LITTLE ROCK LANDFILL STORM TRUCKWASH LITTLE ROCK, AR	
ALL DIMENSIONS ARE IN INCHES	TOL: NA	DWG. NO: FESTOON DETAIL	REV: A



TRUCK WASH RECOMMENDED ELECTRICAL SCHEDULE, SUPPLIED BY ELECTRICAL CONTRACTOR:

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> *IT IS THE CUSTOMER'S RESPONSIBILITY TO HAVE A DEDICATED ETHERNET CONNECTION NEAR THE TRUCK WASH PUMP SKID PANEL.*

> *CONDUIT AND WIRE SIZES SHOWN ARE BASED ON INSTALLATION OF 90° THHN / THWN WIRE: PER NEC 2011 70-731.*

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> *ELECTRICAL COMPONENTS IN WASH BAYS TO BE RATED NEMA 4X.*

> *ALL PVC ELECTRICAL JUNCTION BOXES AS NOTED ON SCHEDULE TO BE PROVIDED BY WHITING SYSTEMS INC.*

> *LEAVE EXTRA 12 FT. OF WIRE AT THE CONTROL PANEL END OF EACH RUN.*

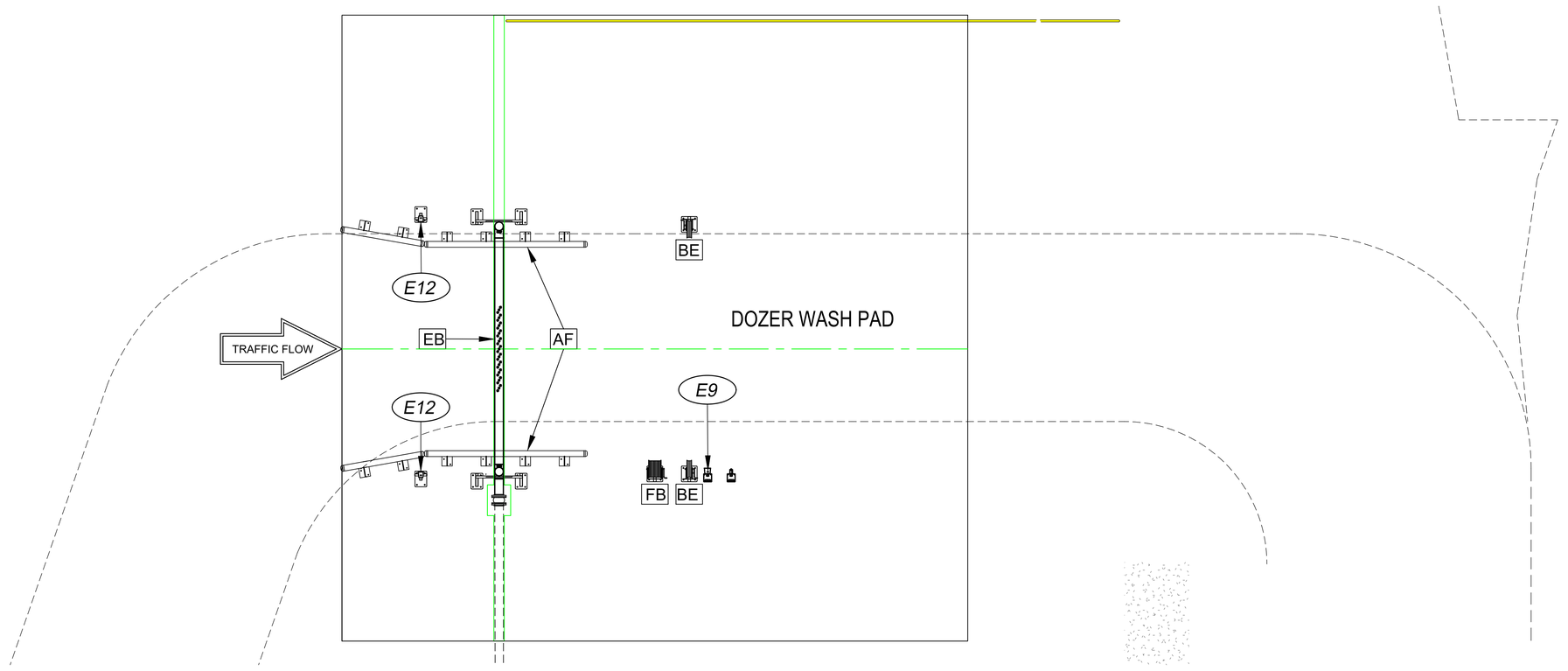
> *AN ELECTRICAL PANEL MAY BE USED INSTEAD OF INDIVIDUAL DISCONNECTS IN THE EQUIPMENT ROOM.*

> *FOR THE LOAD SIDE OF THE DISCONNECT PROVIDED BY OTHERS, DISTANCES LESS THAN 36 INCHES MAY USE LIQUID TIGHT FLEX. OTHERWISE USE RIGID CONDUIT.*

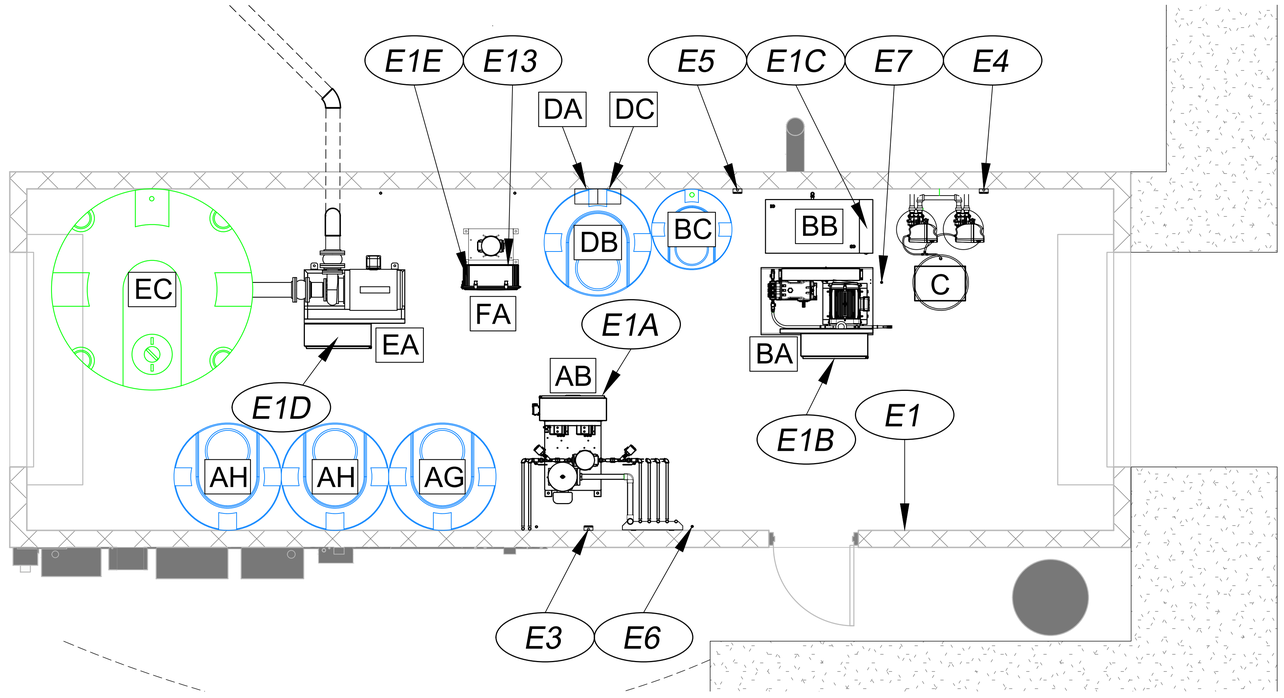
ELECTRICAL LAYOUT FOR WASH BAY

WHITING SYSTEMS, INC.
9000 HIGHWAY 5 NORTH
ALEXANDER ARKANSAS 72002
U.S.A. 501-847-9031

DRAWN BY:	JAD
DATE:	10-18-23
SCALE:	NONE
SHEET:	5 OF 18
TITLE:	LITTLE ROCK LANDFILL STORM TRUCKWASH LITTLE ROCK, AR
ALL DIMENSIONS ARE IN INCHES	
TOL:	NA
DWG. NO:	ELECTRICAL LAYOUT
REV:	A



ELECTRICAL LAYOUT FOR DETAIL (DOZER WASH) BAY



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> *LEAVE EXTRA 12 FT. OF WIRE AT THE CONTROL PANEL END OF EACH RUN.*

> *AN ELECTRICAL PANEL MAY BE USED INSTEAD OF INDIVIDUAL DISCONNECTS IN THE EQUIPMENT ROOM.*

> *FOR THE LOAD SIDE OF THE DISCONNECT PROVIDED BY OTHERS, DISTANCES LESS THAN 36 INCHES MAY USE LIQUID TIGHT FLEX. OTHERWISE USE RIGID CONDUIT.*

WHITING SYSTEMS, INC.
9000 HIGHWAY 5 NORTH
ALEXANDER ARKANSAS 72002
U.S.A. 501-847-9031

DRAWN BY:	JAD
DATE:	10-18-23
SCALE:	NONE
SHEET:	6 OF 18
TOL:	NA
DWG. NO:	ELECTRICAL LAYOUT
REV:	A

TITLE: LITTLE ROCK LANDFILL STORM TRUCKWASH LITTLE ROCK, AR

ALL DIMENSIONS ARE IN INCHES

ELECTRICAL SCHEDULE

	GENERAL CONTRACTOR			WSI ELECTRICIAN			WSI INSTALLER
ITEM	FROM	TO		FROM	TO		
E1	BUILDING MAIN POWER	UTILITY TO DISTRIBUTION PANEL LOCATED IN THE EQUIPMENT ROOM POSITION OF DISTRIBUTION PANEL BY GENERAL CONTRACTOR, PLEASE NOTE WSI EQUIPMENT LOCATIONS.					
E1A		3-POLE 100 AMP BREAKER FOR PUMP SKID, "AB"		100 AMP BREAKER IN DISTRIBUTION PANEL	- CONTINUE WIRES TO APPROPRIATE LABELED TERMINALS IN CONTROL PANEL OF PUMP SKID, ITEM "AB" (FLA 73)		
E1B		3-POLE 40 AMP BREAKER FOR PRESSURE WASHER, "BA"		40 AMP BREAKER IN DISTRIBUTION PANEL	- CONTINUE WIRES TO APPROPRIATE LABELED TERMINALS IN CONTROL PANEL OF PRESSURE WASHER, ITEM "BA" (FLA 27)		
E1C		3-POLE 100 AMP BREAKER FOR PRESSURE WASHER HEATER, "BB"		100 AMP BREAKER IN DISTRIBUTION PANEL	- CONTINUE WIRES TO APPROPRIATE LABELED TERMINALS IN THE PRESSURE WASHER HEATER, ITEM "BB" (FLA 90)		
E1D		3-POLE 90 AMP BREAKER FOR DE-MUDDER SKID, "EA"		90 AMP BREAKER IN DISTRIBUTION PANEL	- CONTINUE WIRES TO APPROPRIATE LABELED TERMINALS IN CONTROL PANEL OF DE-MUDDER SKID, ITEM "EA" (FLA 65)		
E1E		3-POLE 15 AMP BREAKER FOR MUD BLASTER PUMP SKID, ITEM "FA"		15 AMP BREAKER IN DISTRIBUTION PANEL	- CONTINUE WIRES TO APPROPRIATE LABELED TERMINALS IN CONTROL PANEL OF MUD BLASTER PUMP SKID, ITEM "FA" (FLA 8)		
E2		3-POLE 10 AMP BREAKER WITHIN DISTRIBUTION PANEL LOCATED IN EQUIPMENT ROOM		10 AMP BREAKER IN DISTRIBUTION PANEL	INSTALL WASHBAY DISCONNECT, NEMA 4X AT APPROX. LOCATION SHOWN CONNECT UTILITY - 10 AMP (FLA 5)		
E2A				FROM LOAD SIDE OF DISCONNECT IN CONDUIT 3 (QTY.) #14 AWG WIRES	- "J" BOX, ITEM "E10" TERMINATE AT APPROPRIATELY LABELED TERMINALS		
E3	120 VOLT SERVICE 20 AMP	- TO APPROX. LOCATION SHOWN NEAR PLANNED LOCATION FOR DDA CHEMICAL PUMPS, ON PUMP SKID "AB"					INSTALL DDA CHEMICAL PUMP ON PUMP SKID, ITEM "AB" AT APPROX. LOCATION SHOWN.
E4	120 VOLT SERVICE 20 AMP	- TO APPROX. LOCATION SHOWN NEAR PLANNED LOCATION FOR WATER SOFTENER, ITEM "C"					INSTALL WATER SOFTENER, ITEM "C" AT APPROX. LOCATION SHOWN.
E5	120 VOLT SERVICE 20 AMP	- TO APPROX. LOCATION SHOWN NEAR PLANNED LOCATION FOR GRANZOW VALVE					INSTALL GRANZOW VALVE AT APPROX. LOCATION SHOWN.
E6				UL CONTROL PANEL ON PUMP SKID, ITEM "AB"	#14 AWG WIRE TO EARTH GROUNDING ROD WHERE SHOWN PER NEC 250.54 AUXILIARY GROUNDING ELECTRODES. INSTALL GROUNDING ROD IN GROUND/SLAB.		
E7				CONTROL PANEL ON MULTI GUN PRESSURE WASHER, ITEM "BA"	#14 AWG WIRE TO EARTH GROUNDING ROD WHERE SHOWN PER NEC 250.54 AUXILIARY GROUNDING ELECTRODES. INSTALL GROUNDING ROD IN GROUND/SLAB.		
E8				GROUND LUG IN NEMA 4X GANTRY SERVICE DISCONNECT	#14 AWG WIRE TO EARTH GROUNDING ROD WHERE SHOWN PER NEC 250.54 AUXILIARY GROUNDING ELECTRODES. INSTALL GROUNDING ROD IN GROUND/SLAB.		
E9				CONTROL PANEL ON MULTI GUN PRESSURE WASHER, ITEM "BA"	2 BELDEN WIRES (8723) IN CONDUIT TO "J" BOX AT APPROX. LOCATIONS (2) SHOWN. (1) IN TRUCK WASH BAY AND (1) ON DOZER DETAIL PAD		AVAILABLE TO ASSIST ELECTRICIAN.
E10				PULL WIRE HARNESS IN 2" CONDUIT TO THE BOTTOM OF THE UL CONTROL PANEL OF THE PUMP SKID, ITEM "AB". WIRE HARNESS SUPPLIED BY WSI.	"J" BOX MANIFOLD ELECTRICAL BOX		
E11				UL CONTROL PANEL ON PUMP SKID, ITEM "AB" IN COMMON TRUNK PULL:	1 (QTY.) BELDEN (8723) WIRE AND 3 (QTY.) AWG #14 WIRES (DRIVER SIDE PHOTO EYE WITH E-STOP) AND 1 (QTY.) BELDEN (8723) (PASSENGER SIDE PHOTO EYE) TO CHASSIS WASH PHOTO EYES (6' A.F.F. DRIVER SIDE PHOTO EYE AND 3' A.F.F. PASSENGER SIDE)		INSTALL DRIVER SIDE PHOTO EYE 6' A.F.F. AND PASSENGER SIDE PHOTO EYE 3' A.F.F.
E12				UL CONTROL PANEL ON DE-MUDDER PUMP SKID, ITEM "EA" IN COMMON TRUNK PULL:	1 (QTY.) BELDEN (8723) WIRE AND 3 (QTY.) AWG #14 WIRES (DRIVER SIDE PHOTO EYE WITH E-STOP) AND 1 (QTY.) BELDEN (8723) (PASSENGER SIDE PHOTO EYE) TO DE-MUDDER PHOTO EYES (6' A.F.F. DRIVER SIDE PHOTO EYE AND 3' A.F.F. PASSENGER SIDE)		INSTALL DRIVER SIDE PHOTO EYE 6' A.F.F. AND PASSENGER SIDE PHOTO EYE 3' A.F.F.
E13							INSTALL ETHERNET CABLE FROM CONTROL PANEL OF DE-MUDDER PUMP SKID, ITEM "EA" TO CONTROL PANEL OF MUD BLASTER PUMP SKID, ITEM "FA"

TRUCK WASH RECOMMENDED ELECTRICAL SCHEDULE, SUPPLIED BY ELECTRICAL CONTRACTOR:

> *ANY REFERENCE TO GENERAL CONTRACT CAN MEAN THE GENERAL CONTRACTOR OR THEIR DESIGNEE: ANY REFERENCE TO GENERAL CONTRACTOR ALSO INFERS WORK/ EQUIPMENT IS NOT TO BE PROVIDED BY WHITING SYSTEM INC. OR THEIR DESIGNEE.*

> *THE GENERAL CONTRACTOR OR THEIR DESIGNEE IS RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE LOCAL CODES, PERMITS AND INSPECTIONS.*

> *SEE SCHEDULE FOR WORK SCOPE RESPONSIBILITIES.*

> *ELECTRICAL SERVICE SPECIFICATION IS FOR : 480 VOLT, 3ϕ, 60 HZ. ± 5% TOLERANCE IT IS THE CUSTOMER/ GENERAL CONTRACTORS RESPONSIBILITY TO WORK WITH LOCAL UTILITIES TO PROVIDE SERVICE WHICH MEET THIS SPECIFICATION. LINE CONDITIONING MAY BE NECESSARY.*

> *MINIMUM ELECTRICAL SERVICE AMPERAGE REQUIREMENT: 400 AMPS WHITING SYSTEM WASH EQUIPMENT (FLA): 268 AMPS IT IS THE CUSTOMER/ GENERAL CONTRACTORS RESPONSIBILITY TO PROVIDE ELECTRICAL SERVICE WHICH MEET THESE REQUIREMENTS.*

> *IT IS THE CUSTOMER'S RESPONSIBILITY TO HAVE A DEDICATED ETHERNET CONNECTION NEAR THE TRUCK WASH PUMP SKID PANEL.*

> *CONDUIT AND WIRE SIZES SHOWN ARE BASED ON INSTALLATION OF 90° THHN / THWN WIRE: PER NEC 2011 70-731.*

> *WHITING SYSTEMS INC. ELECTRICAL CONDUIT SPECIFICATION: GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR OR OTHER TO USE CONDUIT WHICH MEETS LOCAL CODE. USE OF EMT NOT ACCEPTABLE FOR USE WITH WHITING SYSTEMS INC. WASH EQUIPMENT. WHITING SYSTEMS INC. WILL NOT BE RESPONSIBLE FOR DAMAGE TO WASH SYSTEM EQUIPMENT DUE TO THE USE OF EMT CONDUIT.*

> *CONDUIT PENETRATION INTO ELECTRICAL BOXES SHALL BE FROM BOTTOM ONLY. WHITING SYSTEMS INC. WILL NOT BE RESPONSIBLE FOR DAMAGE TO WASH SYSTEM EQUIPMENT DUE TO IMPROPER CONDUIT PENETRATION.*

> *ELECTRICAL COMPONENTS IN WASH BAYS TO BE RATED NEMA 4X.*

> *ALL PVC ELECTRICAL JUNCTION BOXES AS NOTED ON SCHEDULE TO BE PROVIDED BY WHITING SYSTEMS INC.*

> *LEAVE EXTRA 12 FT. OF WIRE AT THE CONTROL PANEL END OF EACH RUN.*

> *AN ELECTRICAL PANEL MAY BE USED INSTEAD OF INDIVIDUAL DISCONNECTS IN THE EQUIPMENT ROOM.*

> *FOR THE LOAD SIDE OF THE DISCONNECT PROVIDED BY OTHERS, DISTANCES LESS THAN 36 INCHES MAY USE LIQUID TIGHT FLEX. OTHERWISE USE RIGID CONDUIT.*

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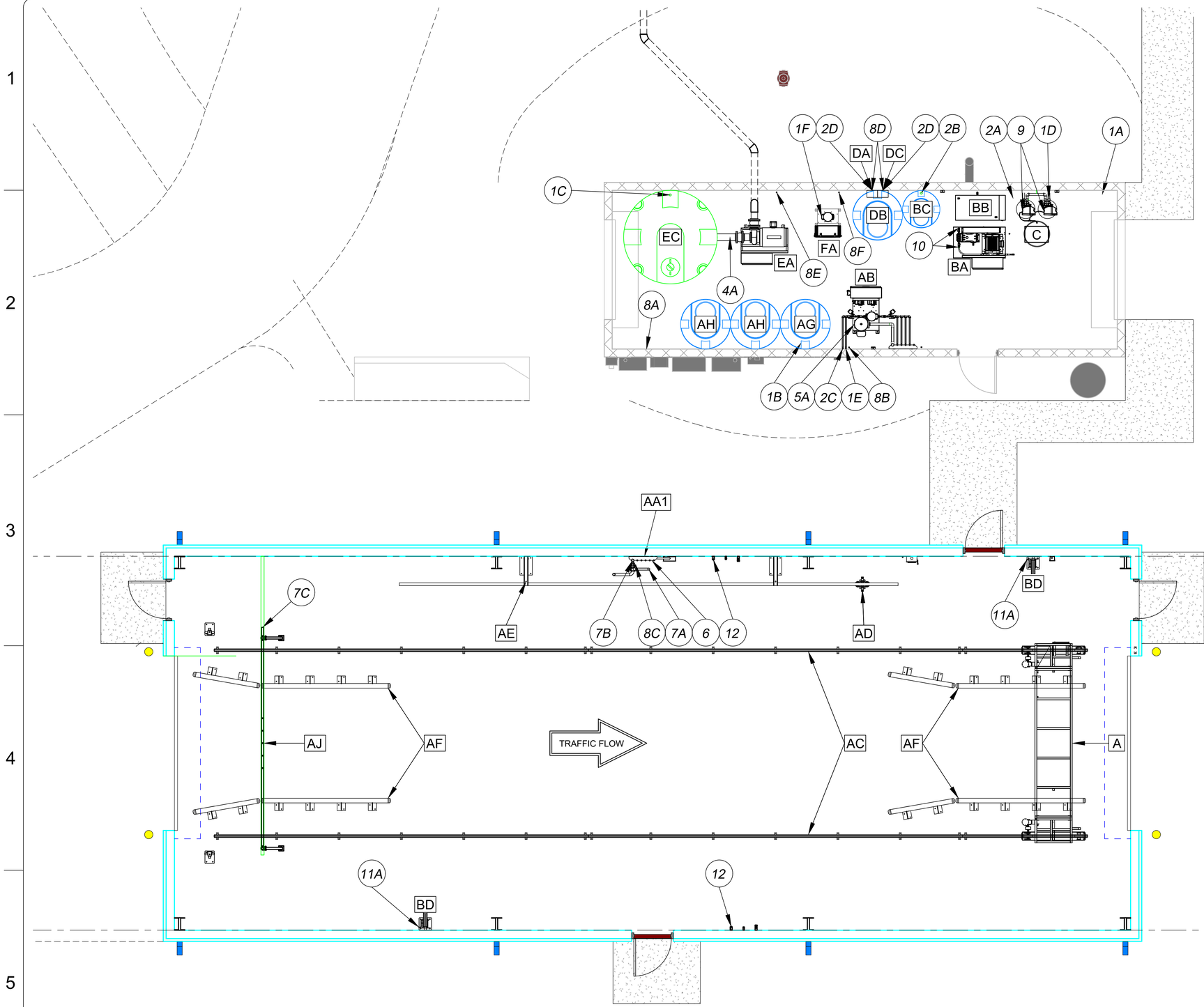
DRAWN BY:	JAD
DATE:	10-18-23
SCALE:	NONE
SHEET:	7 OF 18
TITLE:	LITTLE ROCK LANDFILL STORM TRUCKWASH LITTLE ROCK, AR
ALL DIMENSIONS ARE IN INCHES	
TOL:	NA
DWG. NO:	ELEC. SCHEDULE
REV:	A



PLUMBING RECOMMENDED SCHEDULE, SUPPLIED BY PLUMBING CONTRACTOR:

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> *THE GENERAL CONTRACTOR OR THEIR DESIGNEE IS RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE LOCAL CODES, PERMITS AND INSPECTIONS*

> *SEE SCHEDULE FOR WORK SCOPE RESPONSIBILITIES.*

> *FRESH (CITY) WATER FEED REQUIREMENT: 250 GPM @ 60 PSI AFTER RPZ. BACK FLOW PREVENTER (RPZ) TO BE SUPPLIED BY CONTRACTOR OR OTHERS.*

> *PIPE SIZES ARE RECOMMENDED AND CAN BE INCREASED OR REDUCED AT THE DISCRETION OF THE PLUMBING CONTRACTOR - WHITING SYSTEMS INC. IS NOT RESPONSIBLE FOR PERFORMANCE DEGRADATION IF INSUFFICIENT PIPE DIAMETER IS USED.*

> *ALL LOCATING DIMENSIONS FOR PLUMBING DRAINS ARE RECOMMENDED WITH A TOLERANCE OF +/- 6". ALL DIMENSIONS AND LOCATIONS CAN BE SUPERSEDED BY LOCAL CODE REQUIREMENTS.*

> *DO NOT ROUTE ANY PLUMBING DIRECTLY OVER PUMP SKID.*

> *ALL DOWNSTREAM PIPING TO HAVE A MANUAL SHUT OFF VALVE NEAR TERMINATION.*

> *PRESSURE WASHER DISCHARGE PLUMBING SPECIFICATION: ALL PRESSURE WASHER PIPES, FITTINGS AND VALVES MUST BE CAPABLE OF 2500 PSI AT 200°F CHOICE OF MATERIALS TO MEET THIS SPECIFICATION IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR OR PLUMBING CONTRACTOR AND MUST MEET LOCAL CODE.*

> *CUSTOMER RESPONSIBLE TO SUPPLY CLEAN, DRY AIR NECESSARY TO MEET THE WHITING SYSTEMS INC. WASH EQUIPMENT AIR DEMAND REQUIREMENTS. WASH EQUIPMENT AIR REQUIREMENT: 15CFM @ 100 PSI.*

> *1/2" - AIR LINES - FROM GENERAL CONTRACTOR SUPPLIED AIR SUPPLY TO PUMP SKID, DE-MUDDER, MUD BLASTER, AND PRE-SPRAYS.*

> *THE GENERAL CONTRACTOR, OWNER OR THEIR DESIGNEE ARE RESPONSIBLE FOR THE FINAL DESIGN OF FLOOR DRAINAGE, WITHIN THE WASH BAY AND EQUIPMENT ROOM AS WELL AS ANY BELOW GRADE COLLECTION TANKS OR RECLAIM PROCESSING TANKS. WHITING SYSTEMS IS ONLY A WASH EQUIPMENT MANUFACTURE ANY DESCRIPTION OR REFERENCE TO THESE DESIGNS BY WHITING SYSTEMS INC. IS CONCEPTUAL OR FOR REFERENCE USE ONLY.*

> *DASHED LINES INDICATE SUB-GRADE ITEMS.*

> *LINES MARKED AS GRAVITY FEED TO HAVE A MINIMUM 1/8" PER FT. TO MAXIMUM OF 1/4" PER FT. SLOPE FROM SOURCE TO DISCHARGE.*

> *TRENCH DESIGN, AND PLUMBING FROM THE WASH BAY TO BE PROVIDED BY GENERAL CONTRACTOR OR OTHERS.*

> *FOR OPTIMUM DE-MUDDER PERFORMANCE, WHITING SYSTEMS INC. RECOMMENDS THE LENGTH OF THE DISCHARGE PIPE AND THE NUMBER OF TURNS MUST BE KEPT TO A MINIMUM. WHEN MAKING TURNS IN THE DE-MUDDER DISCHARGE PIPE, THE USE OF LONG SWEEP 90° ELBOWS OR (2X) 45° ELBOWS SHOULD BE USED IN LIEU OF STANDARD 90° ELBOWS.*

PLUMBING LAYOUT FOR WASH BAY

WHITING SYSTEMS, INC.
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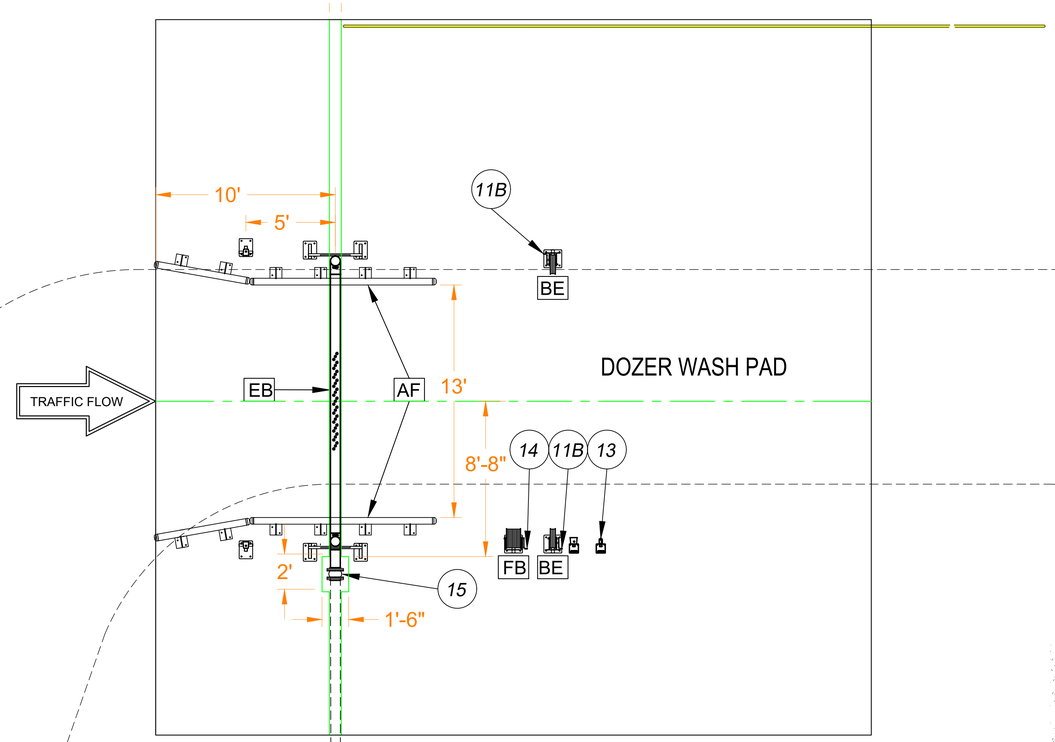
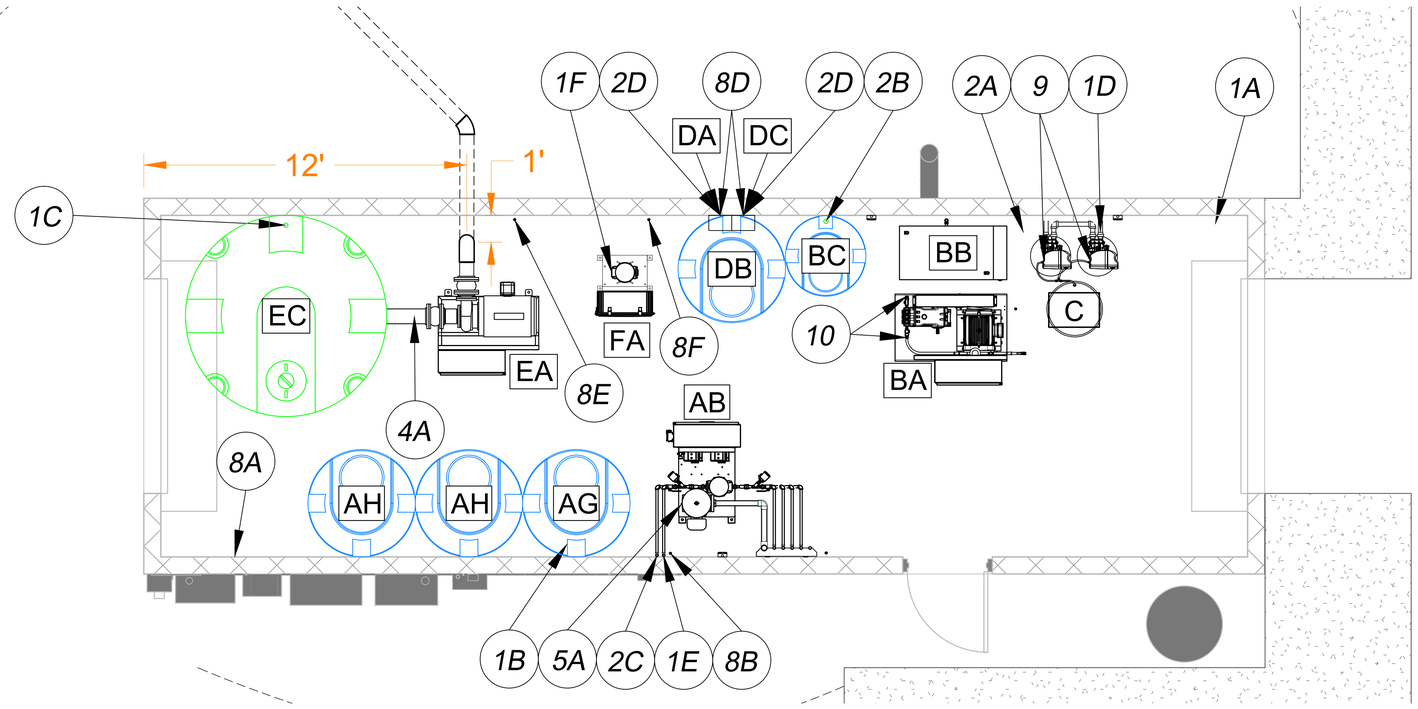
DRAWN BY: JAD	TITLE: LITTLE ROCK LANDFILL STORM TRUCKWASH LITTLE ROCK, AR	
DATE: 10-18-23		
SCALE: NONE		
SHEET: 8 OF 18		
ALL DIMENSIONS ARE IN INCHES	TOL: NA	DWG. NO: PLUMBING LAYOUT — REV: A



PLUMBING LAYOUT FOR DETAIL (DOZER WASH) BAY



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- *DO NOT ROUTE ANY PLUMBING DIRECTLY OVER PUMP SKID.*
- *ALL DOWNSTREAM PIPING TO HAVE A MANUAL SHUT OFF VALVE NEAR TERMINATION.*
- *PRESSURE WASHER DISCHARGE PLUMBING SPECIFICATION: ALL PRESSURE WASHER PIPES, FITTINGS AND VALVES MUST BE CAPABLE OF 2500 PSI AT 200°F CHOICE OF MATERIALS TO MEET THIS SPECIFICATION IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR OR PLUMBING CONTRACTOR AND MUST MEET LOCAL CODE.*
- *CUSTOMER RESPONSIBLE TO SUPPLY CLEAN, DRY AIR NECESSARY TO MEET THE WHITING SYSTEMS INC. WASH EQUIPMENT AIR DEMAND REQUIREMENTS. WASH EQUIPMENT AIR REQUIREMENT: 15CFM @ 100 PSI.*
- *1/2" - AIR LINES - FROM GENERAL CONTRACTOR SUPPLIED AIR SUPPLY TO PUMP SKID, DE-MUDDER, MUD BLASTER, AND PRE-SPRAYS.*
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- *LINES MARKED AS GRAVITY FEED TO HAVE A MINIMUM 1/8" PER FT. TO MAXIMUM OF 1/4" PER FT. SLOPE FROM SOURCE TO DISCHARGE.*
- *TRENCH DESIGN, AND PLUMBING FROM THE WASH BAY TO BE PROVIDED BY GENERAL CONTRACTOR OR OTHERS.*
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DRAWN BY:	JAD
DATE:	10-18-23
SCALE:	NONE
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TITLE:	LITTLE ROCK LANDFILL STORM TRUCKWASH LITTLE ROCK, AR
ALL DIMENSIONS ARE IN INCHES	
TOL:	NA
DWG. NO:	PLUMBING LAYOUT
REV:	A

PLUMBING SCHEDULE

ITEM	GENERAL CONTRACTOR FROM	GENERAL CONTRACTOR TO	WSI PLUMBER FROM	WSI PLUMBER TO	WSI INSTALLER
1A	FRESH (CITY) WATER, WITH RPZ IN LINE CAPABLE OF 160 GPM @ 60 PSI. 60 PSI AFTER RPZ.	- 2" PIPE - PVC SCHD. 80 - UTILITY WATER TO LOCATION IN EQUIPMENT ROOM WITH 150 GPM @ 60 PSI. FINISH LINE COMPLETE WITH RPZ			
1B			TAKE OFF LEFT BY PLUMBER, RUN PIPE - PVC SCHD. 80	-1-1/2" PIPE - PVC SCHD. 80 - TOP OF WATER TANK, ITEM "AG" WITH MANUAL BALL VALVE AND AIR ACTUATED BALL VALVE IN LINE. AIR ACTUATED BALL VALVE SUPPLIED BY WSI.	- VINYL AIR LINES (2) FROM MANIFOLD ON PUMP SKID, ITEM "AB"
1C			TAKE OFF LEFT BY PLUMBER, RUN PIPE - PVC SCHD. 80	-1-1/2" PIPE - PVC SCHD. 80 - TOP OF WATER TANK, ITEM "EC" WITH MANUAL BALL VALVE AND AIR ACTUATED BALL VALVE IN LINE. AIR ACTUATED BALL VALVE SUPPLIED BY WSI.	- VINYL AIR LINES (2) FROM AIR MANIFOLD ON PUMP SKID, ITEM "EA"
1D			TAKE OFF LEFT BY PLUMBER, RUN PIPE - PVC SCHD. 80	- 1-1/2" PVC SCHD. 80 - TO INLET OF WATER SOFTENER, ITEM "C" WITH MANUAL BALL VALVE IN LINE.	
1E			TAKE OFF LEFT BY PLUMBER, RUN PIPE - PVC SCHD. 80	- 1-1/2" PIPE - PVC SCHD. 80 - TO LOCATION SHOWN 2' A.F.F., BEHIND PUMP SKID, ITEM "AB" WITH MANUAL BALL VALVE IN LINE.	- SOFT HOSE CONNECTION OVER TO INPUT MANIFOLD OF CR-5 PUMP.
1F			TAKE OFF LEFT BY PLUMBER, RUN PIPE - PVC SCHD. 80	- 1-1/2" PIPE - PVC SCHD. 80 - TO INLET OF MUD BLASTER PUMP ON PUMP SKID, ITEM "FA" WITH MANUAL BALL VALVE IN LINE.	
2A			OUTLET OF WATER SOFTENER, ITEM "C"		- INSTALL SPIGOT KIT AT DISCHARGE OF WATER SOFTENER, ITEM "C" AT APPROX. LOCATION SHOWN.
2B			OUTLET OF WATER SOFTENER, ITEM "C"	- 3/4" PVC SCHD. 80 - TOP OF PRESSURE WASHER SUPPLY TANK, ITEM "BC" WITH MANUAL BALL VALVE AND GRANZOW VALVE IN LINE. GRANZOW VALVE SUPPLIED BY WSI.	
2C			OUTLET OF WATER SOFTENER, ITEM "C"	- 1-1/2" PIPE - PVC SCHD. 80 - TO LOCATION SHOWN 2' A.F.F., BEHIND PUMP SKID, ITEM "AB" WITH MANUAL BALL VALVE IN LINE.	- SOFT HOSE CONNECTION OVER TO INPUT MANIFOLD OF CR-5 PUMP.
2D			OUTLET OF WATER SOFTENER, ITEM "C"	- 1" PIPE - PVC SCHD. 80 - PRE-SPRAY UNIT, ITEM "DA" WITH MANUAL BALL VALVES IN LINE	
3					
4A			FROM DISCHARGE OF FRESH WATER TANK, ITEM "EC"	- 6" PVC SCHD. 80 - TO INLET OF PUMP ON DE-MUDDER PUMP SKID, ITEM "EA" WITH MANUAL BALL VALVE FOLLOWED BY VIBRATION ISOLATOR IN LINE.	
5			FROM DISCHARGE OF WATER TANK, ITEM "AG"	- 3" PIPE - PVC SCHD. 80 - INLET MANIFOLD OF CR-32 HIGH PRESSURE PUMP ON PUMP SKID, ITEM "AB"	
6			FROM LOCATION SHOWN BEHIND PUMP SKID, ITEM "AB"	- 3/4" PIPE PVC SCHD. 80 - (3) RUNS TO MANIFOLD "AA1" IN THE WASH BAY AND CENTERED ON GANTRY TRACKS 18' A.F.F. WITH 3/4" MALE ADAPTERS ON BOTH ENDS OF EACH RUN.	
7A			DISCHARGE OF CR-32 HIGH PRESSURE PUMP ON PUMP SKID, ITEM "AB"	- 2" GALVANIZED PIPE SCHD. 40 - TO 3-WAY VALVE WHERE SHOWN. **NOTE: PIPE MUST RUN 18" FROM PUMP BEFORE ANY CHANGE IN DIRECTION**	
7B			FROM 3-WAY VALVE WHERE SHOWN AS CALLED OUT IN "7A"	- 2" GALVANIZED PIPE SCHD. 40 - TO TOP OF MANIFOLD "AA1" AT LOCATION SHOWN	
7C			FROM 3-WAY VALVE WHERE SHOWN AS CALLED OUT IN "7A"	- 2" GALVANIZED PIPE SCHD. 40 - TO CHASSIS WASH SPRAY BAR, ITEM "AJ" AT LOCATION SHOWN	
8A	CUSTOMER'S COMPRESSED AIR SUPPLY.	- UTILITY INTO EQUIPMENT ROOM AT APPROX. LOCATION 6' A.F.F. WITH MANUAL BALL VALVE IN LINE			
8B			CUSTOMER PROVIDED AIR SUPPLY WITH MANUAL BALL VALVE IN LINE.	- 1/2" AIRLINE - LOCATION BEHIND PUMP SKID, ITEM "AB" 2' A.F.F.	CONNECT FLEX AIRLINE FROM "8B" TO ITEM "AB"
8C			FROM CONTROL PANEL ON PUMP SKID, ITEM "AB"		- 1/2" FLEX AIRLINE - (2) RUNS TO 3-WAY VALVE WHERE SHOWN
8D			CUSTOMER PROVIDED AIR SUPPLY WITH MANUAL BALL VALVE IN LINE.	- 1/2" AIRLINE - PRE-SPRAY UNIT, ITEM "DA" 5' A.F.F.	
8E			CUSTOMER PROVIDED AIR SUPPLY WITH MANUAL BALL VALVE IN LINE.	- 1/2" AIRLINE - LOCATION BEHIND DE-MUDDER PUMP SKID, ITEM "EA" 2' A.F.F.	
8F			CUSTOMER PROVIDED AIR SUPPLY WITH MANUAL BALL VALVE IN LINE.	- 1/2" AIRLINE - LOCATION BEHIND MUD BLASTER PUMP SKID, ITEM "FA" 2' A.F.F.	
9	DRAIN INSIDE OF EQUIPMENT ROOM TO POTW (SEWER)		REJECT DISCHARGE OF WATER SOFTENER, ITEM "C"	- 1-1/2" PIPE - PVC SCHD. 80 - DRAIN INSIDE EQUIPMENT ROOM TO POTW (SEWER).	

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- *SEE SCHEDULE FOR WORK SCOPE RESPONSIBILITIES.*
- *FRESH (CITY) WATER FEED REQUIREMENT: 250 GPM @ 60 PSI AFTER RPZ. BACK FLOW PREVENTER (RPZ) TO BE SUPPLIED BY CONTRACTOR OR OTHERS.*
- *PIPE SIZES ARE RECOMMENDED AND CAN BE INCREASED OR REDUCED AT THE DISCRETION OF THE PLUMBING CONTRACTOR - WHITING SYSTEMS INC. IS NOT RESPONSIBLE FOR PERFORMANCE DEGRADATION IF INSUFFICIENT PIPE DIAMETER IS USED.*
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- *PRESSURE WASHER DISCHARGE PLUMBING SPECIFICATION: ALL PRESSURE WASHER PIPES, FITTINGS AND VALVES MUST BE CAPABLE OF 2500 PSI AT 200°F CHOICE OF MATERIALS TO MEET THIS SPECIFICATION IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR OR PLUMBING CONTRACTOR AND MUST MEET LOCAL CODE.*
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- *LINES MARKED AS GRAVITY FEED TO HAVE A MINIMUM 1/8" PER FT. TO MAXIMUM OF 1/4" PER FT. SLOPE FROM SOURCE TO DISCHARGE.*
- *TRENCH DESIGN, AND PLUMBING FROM THE WASH BAY TO BE PROVIDED BY GENERAL CONTRACTOR OR OTHERS.*
- *FOR OPTIMUM DE-MUDDER PERFORMANCE, WHITING SYSTEMS INC. RECOMMENDS THE LENGTH OF THE DISCHARGE PIPE AND THE NUMBER OF TURNS MUST BE KEPT TO A MINIMUM. WHEN MAKING TURNS IN THE DE-MUDDER DISCHARGE PIPE, THE USE OF LONG SWEEP 90° ELBOWS OR (2X) 45° ELBOWS SHOULD BE USED IN LIEU OF STANDARD 90° ELBOWS.*

WHITING SYSTEMS, INC.
9000 HIGHWAY 5 NORTH
ALEXANDER ARKANSAS 72002
U.S.A. 501-847-9031

DRAWN BY:	JAD
DATE:	10-18-23
SCALE:	NONE
SHEET:	10 OF 18
TITLE:	LITTLE ROCK LANDFILL STORM TRUCKWASH LITTLE ROCK, AR
ALL DIMENSIONS ARE IN INCHES	
TOL:	NA
DWG. NO:	PLUMB. SCHEDULE
REV:	A

PLUMBING SCHEDULE

ITEM	GENERAL CONTRACTOR FROM	GENERAL CONTRACTOR TO	WSI PLUMBER FROM	WSI PLUMBER TO	WSI INSTALLER
10			PRESSURE WASHER TANK, ITEM "BC"		- 1-1/2" HOSE - 2 RUNS TO INLET OF PRESSURE WASHER PUMP SKID, ITEM "BA" WITH MANUAL BALL VALVE IN LINE ON EACH RUN CONNECT HIGH PRESSURE HOSE BETWEEN PUMP SKID "BA" AND HEATER "BB"
11A			DISCHARGE OF PRESSURE WASHER HEATER, ITEM "BB" WITH MANUAL BALL VALVE IN LINE	- 3/4" PIPE - CAPABLE OF 2500 PSI @ 200°F - DROP TO HOSE REELS (2), ITEMS "BD" 6' A.F.F.	- INSTALLER TO MAKE FINAL CONNECTION FROM DROP TO REEL, USING 75' HIGH PRESSURE HOSE.
11B			DISCHARGE OF PRESSURE WASHER HEATER, ITEM "BB" WITH MANUAL BALL VALVE IN LINE	- 3/4" PIPE - CAPABLE OF 2500 PSI @ 200°F - DROP TO HOSE REELS (2), ITEMS "BE" 6' A.F.F. ***(DETAIL/DOZER WASH BAY)***	- INSTALLER TO MAKE FINAL CONNECTION FROM DROP TO REEL, USING 75' HIGH PRESSURE HOSE.
12			DISCHARGE OF PRE-SPRAY UNIT, ITEM "DA"	- 3/4" PIPE PVC SCHD. 80 - DROPS (2) AT APPROX. LOCATIONS SHOWN, 6' A.F.F.	- INSTALLER TO MAKE FINAL CONNECTION FROM DROPS TO TRIGGER GUNS, WITH 75' HOSES.
13			DISCHARGE OF PRE-SPRAY UNIT, ITEM "DC"	- 3/4" PIPE PVC SCHD. 80 - DROP AT APPROX. LOCATION SHOWN, 6' A.F.F. ***(DETAIL/DOZER WASH BAY)***	- INSTALLER TO MAKE FINAL CONNECTION FROM DROP TO TRIGGER GUN, WITH 75' HOSE.
14			DISCHARGE OF PUMP ON MUD BLASTER PUMP SKID, ITEM "AB"	- 1" PIPE PVC SCHD. 80 - WITH PRESSURE SWITCH FOLLOWED BY CHECK VALVE DROP TO MUD BLASTER HOSE REEL, ITEM "FB" AT APPROX. LOCATION SHOWN 6' A.F.F.	- INSTALLER TO MAKE FINAL CONNECTION FROM DROP TO HOSE REEL.
15	- 6" PIPE PVC SCHD. 80 - FROM LOCATION WHERE SHOWN WITHIN EQUIPMENT ROOM	- 6" PIPE PVC SCHD. 80 - TO LOCATION SHOWN ON THE DOZER DETAIL SLAB WITHIN DE-MUDDER TRENCH CONNECTION BOX	DISCHARGE OF PUMP ON DE-MUDDER PUMP SKID, ITEM "EA" WITH VIBRATION ISOLATOR IN LINE FOLLOWED BY AIR ACTUATED VALVE.	- 6" PIPE PVC SCHD. 80 - TO DE-MUDDER SPRAY BAR, ITEM "EB" WITH VIBRATION ISOLATOR IN LINE. ***AIR ACTUATED VALVE PROVIDED BY WSI.***	

PLUMBING RECOMMENDED SCHEDULE, SUPPLIED BY PLUMBING CONTRACTOR:

> ***ANY REFERENCE TO GENERAL CONTRACT CAN MEAN THE GENERAL CONTRACTOR OR THEIR DESIGNEE: ANY REFERENCE TO GENERAL CONTRACTOR ALSO INFERS WORK/ EQUIPMENT IS NOT TO BE PROVIDED BY WHITING SYSTEM INC. OR THEIR DESIGNEE.***

> ***THE GENERAL CONTRACTOR OR THEIR DESIGNEE IS RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE LOCAL CODES, PERMITS AND INSPECTIONS***

> ***SEE SCHEDULE FOR WORK SCOPE RESPONSIBILITIES.***

> ***FRESH (CITY) WATER FEED REQUIREMENT: 250 GPM @ 60 PSI AFTER RPZ. BACK FLOW PREVENTER (RPZ) TO BE SUPPLIED BY CONTRACTOR OR OTHERS.***

> ***PIPE SIZES ARE RECOMMENDED AND CAN BE INCREASED OR REDUCED AT THE DISCRETION OF THE PLUMBING CONTRACTOR - WHITING SYSTEMS INC. IS NOT RESPONSIBLE FOR PERFORMANCE DEGRADATION IF INSUFFICIENT PIPE DIAMETER IS USED.***

> ***ALL LOCATING DIMENSIONS FOR PLUMBING DRAINS ARE RECOMMENDED WITH A TOLERANCE OF +/- 6". ALL DIMENSIONS AND LOCATIONS CAN BE SUPERSEDED BY LOCAL CODE REQUIREMENTS.***

> ***DO NOT ROUTE ANY PLUMBING DIRECTLY OVER PUMP SKID.***

> ***ALL DOWNSTREAM PIPING TO HAVE A MANUAL SHUT OFF VALVE NEAR TERMINATION.***

> ***PRESSURE WASHER DISCHARGE PLUMBING SPECIFICATION: ALL PRESSURE WASHER PIPES, FITTINGS AND VALVES MUST BE CAPABLE OF 2500 PSI AT 200°F CHOICE OF MATERIALS TO MEET THIS SPECIFICATION IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR OR PLUMBING CONTRACTOR AND MUST MEET LOCAL CODE.***

> ***CUSTOMER RESPONSIBLE TO SUPPLY CLEAN, DRY AIR NECESSARY TO MEET THE WHITING SYSTEMS INC. WASH EQUIPMENT AIR DEMAND REQUIREMENTS. WASH EQUIPMENT AIR REQUIREMENT: 15CFM @ 100 PSI.***

> ***1/2" - AIR LINES - FROM GENERAL CONTRACTOR SUPPLIED AIR SUPPLY TO PUMP SKID, DE-MUDDER, MUD BLASTER, AND PRE-SPRAYS.***

> ***THE GENERAL CONTRACTOR, OWNER OR THEIR DESIGNEE ARE RESPONSIBLE FOR THE FINAL DESIGN OF FLOOR DRAINAGE, WITHIN THE WASH BAY AND EQUIPMENT ROOM AS WELL AS ANY BELOW GRADE COLLECTION TANKS OR RECLAIM PROCESSING TANKS. WHITING SYSTEMS IS ONLY A WASH EQUIPMENT MANUFACTURE ANY DESCRIPTION OR REFERENCE TO THESE DESIGNS BY WHITING SYSTEMS INC. IS CONCEPTUAL OR FOR REFERENCE USE ONLY.***

> ***DASHED LINES INDICATE SUB-GRADE ITEMS.***

> ***LINES MARKED AS GRAVITY FEED TO HAVE A MINIMUM 1/8" PER FT. TO MAXIMUM OF 1/4" PER FT. SLOPE FROM SOURCE TO DISCHARGE.***

> ***TRENCH DESIGN, AND PLUMBING FROM THE WASH BAY TO BE PROVIDED BY GENERAL CONTRACTOR OR OTHERS.***

> ***FOR OPTIMUM DE-MUDDER PERFORMANCE, WHITING SYSTEMS INC. RECOMMENDS THE LENGTH OF THE DISCHARGE PIPE AND THE NUMBER OF TURNS MUST BE KEPT TO A MINIMUM. WHEN MAKING TURNS IN THE DE-MUDDER DISCHARGE PIPE, THE USE OF LONG SWEEP 90° ELBOWS OR (2X) 45° ELBOWS SHOULD BE USED IN LIEU OF STANDARD 90° ELBOWS.***

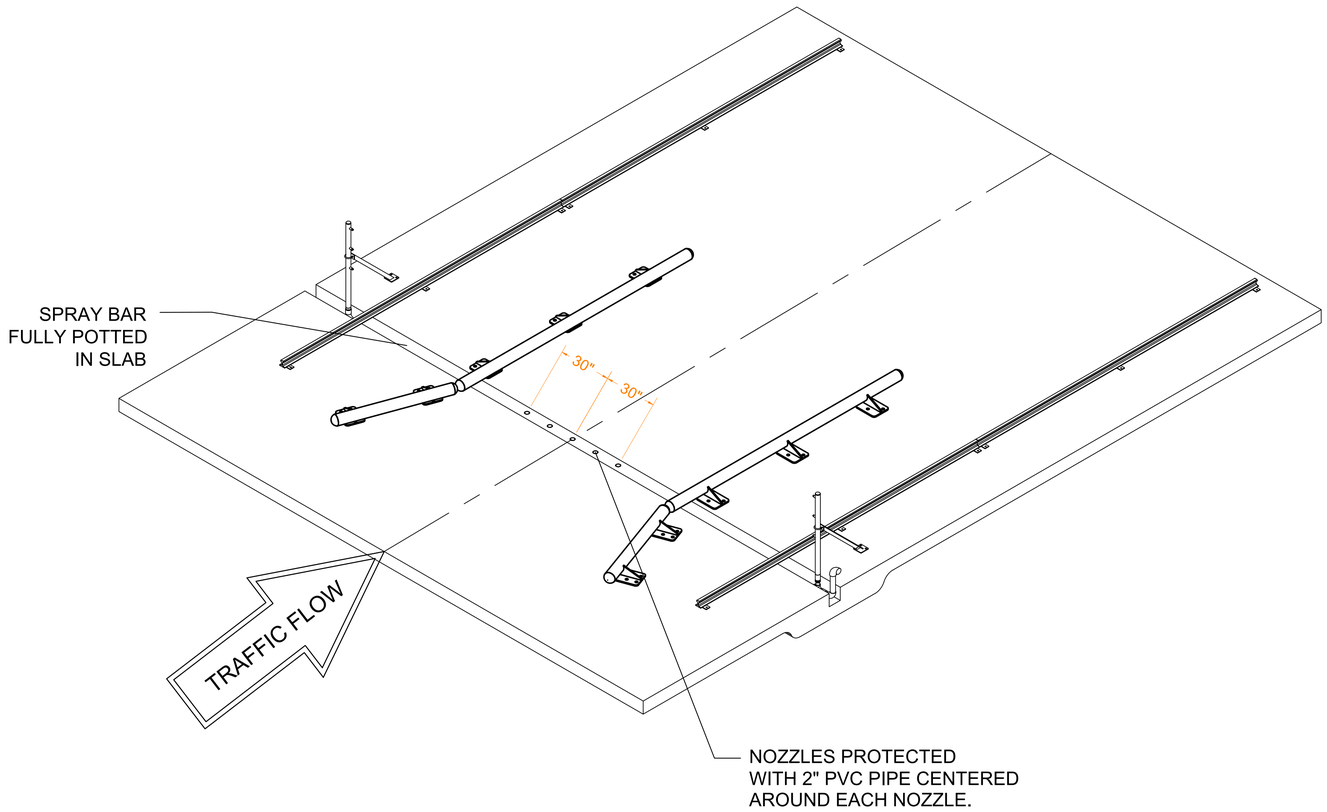
WHITING SYSTEMS, INC.
9000 HIGHWAY 5 NORTH
ALEXANDER ARKANSAS 72002
U.S.A. 501-847-9031

DRAWN BY: JAD
DATE: 10-18-23
SCALE: NONE
SHEET: 11 OF 18
TOL: NA
ALL DIMENSIONS ARE IN INCHES

TITLE: LITTLE ROCK LANDFILL STORM TRUCKWASH LITTLE ROCK, AR

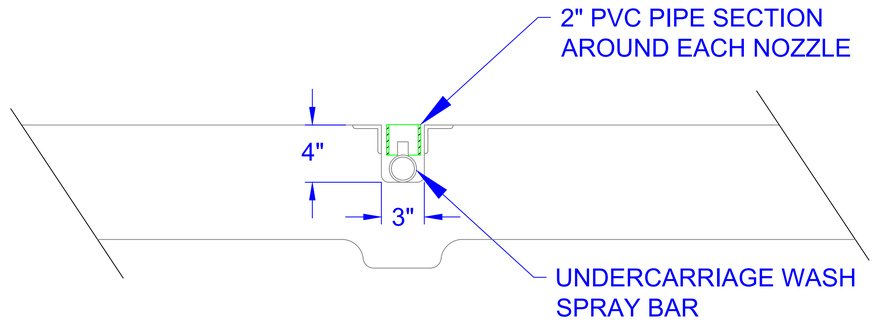
DWG. NO: PLUMB. SCHEDULE
REV: A

CHASSIS WASH MANIFOLD WITH WHEEL WASH UPRIGHTS INSTALLATION DETAIL



CONCEPTUAL
1-1/2" PIPE UNDERCARRIAGE SPRAY BAR TRENCHES.

ADJUST TRENCH SIZE FOR LARGER SPRAY BAR.



TRENCH

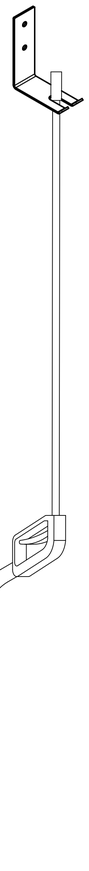
WHITING SYSTEMS, INC. 9000 HIGHWAY 5 NORTH ALEXANDER ARKANSAS 72002 U.S.A. 501-847-9031	DRAWN BY: JAD DATE: 10-18-23 SCALE: NONE SHEET: 12 OF 18	TITLE: LITTLE ROCK LANDFILL STORM TRUCKWASH LITTLE ROCK, AR	
ALL DIMENSIONS ARE IN INCHES	TOL: NA	DWG. NO: UNDERCARRIAGE	REV: A

PRE-SPRAY PIPE DROP DETAIL

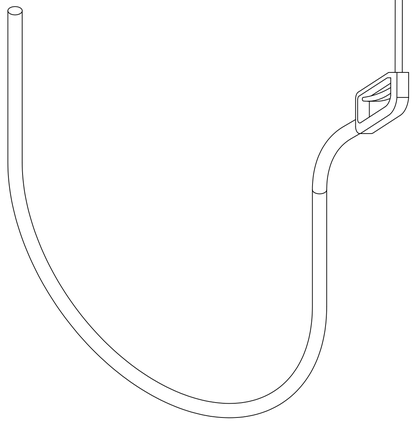
MANUAL
BALL VALVE
DETAIL

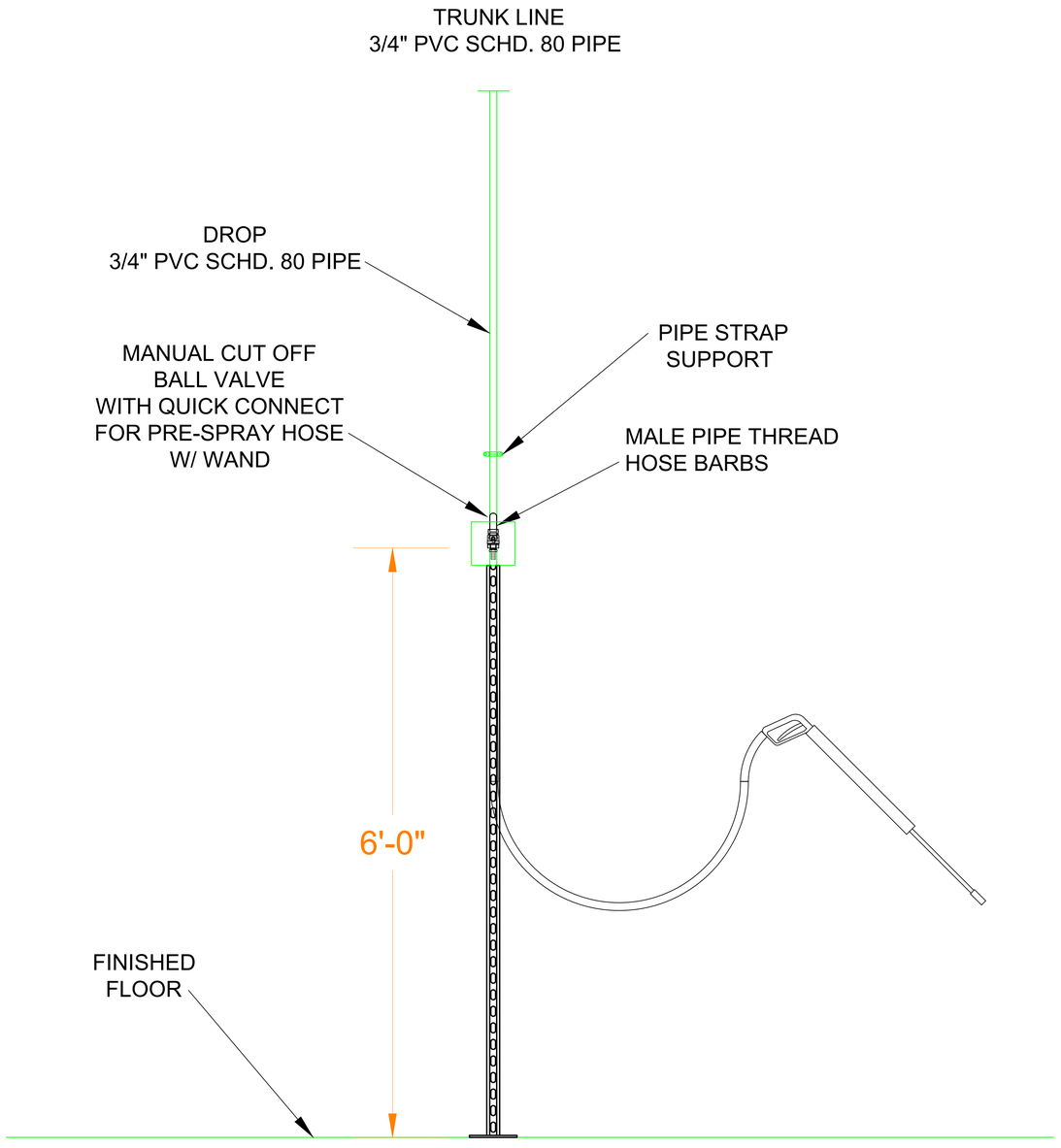
NORMALLY
OPEN

NORMALLY
CLOSED



TYPICAL
WALL MOUNT
WAND HOLDER





FROM RESPECTIVE PRE-SPRAY UNIT
3/4" PVC SCHD. 80 TO EACH DROP,
WITH MANUAL CUT OFF VALVE.
PROVIDE PIPE SUPPORT CLAMP AS SHOWN.

WHITING
SYSTEMS, INC.
9000 HIGHWAY 5 NORTH
ALEXANDER ARKANSAS 72002
U.S.A. 501-847-9031

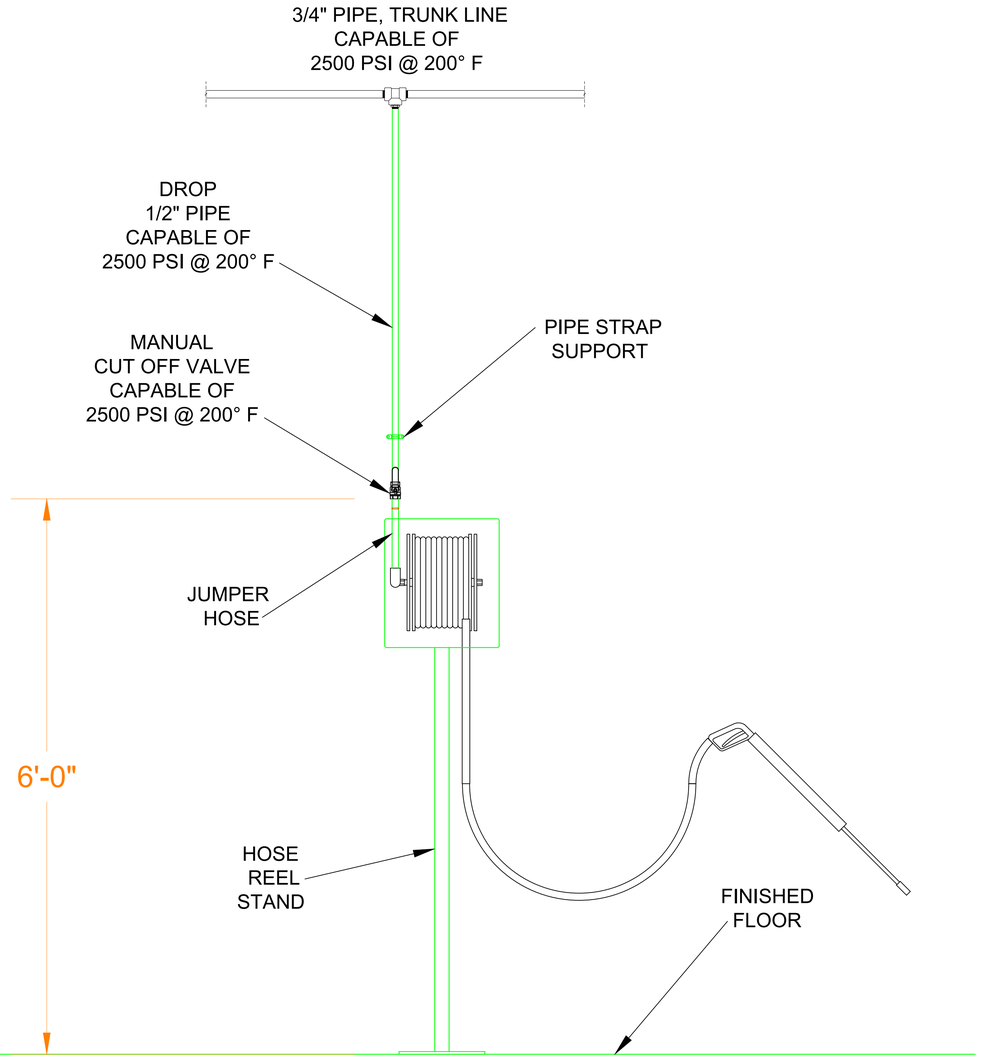
DRAWN BY:	JAD
DATE:	10-18-23
SCALE:	NONE
SHEET:	13 OF 18
TITLE:	LITTLE ROCK LANDFILL STORM TRUCKWASH LITTLE ROCK, AR
ALL DIMENSIONS ARE IN INCHES	
TOL:	NA
DWG. NO:	PRE-SPRAY DROP
REV:	A

MANUAL
BALL VALVE
DETAIL

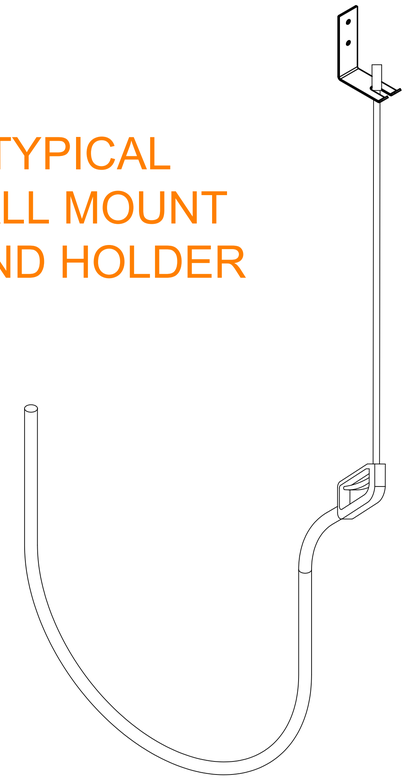
NORMALLY
OPEN

NORMALLY
CLOSED

PRESSURE WASHER PIPE DROP DETAIL WITH HOSE REEL STAND



TYPICAL WALL MOUNT WAND HOLDER

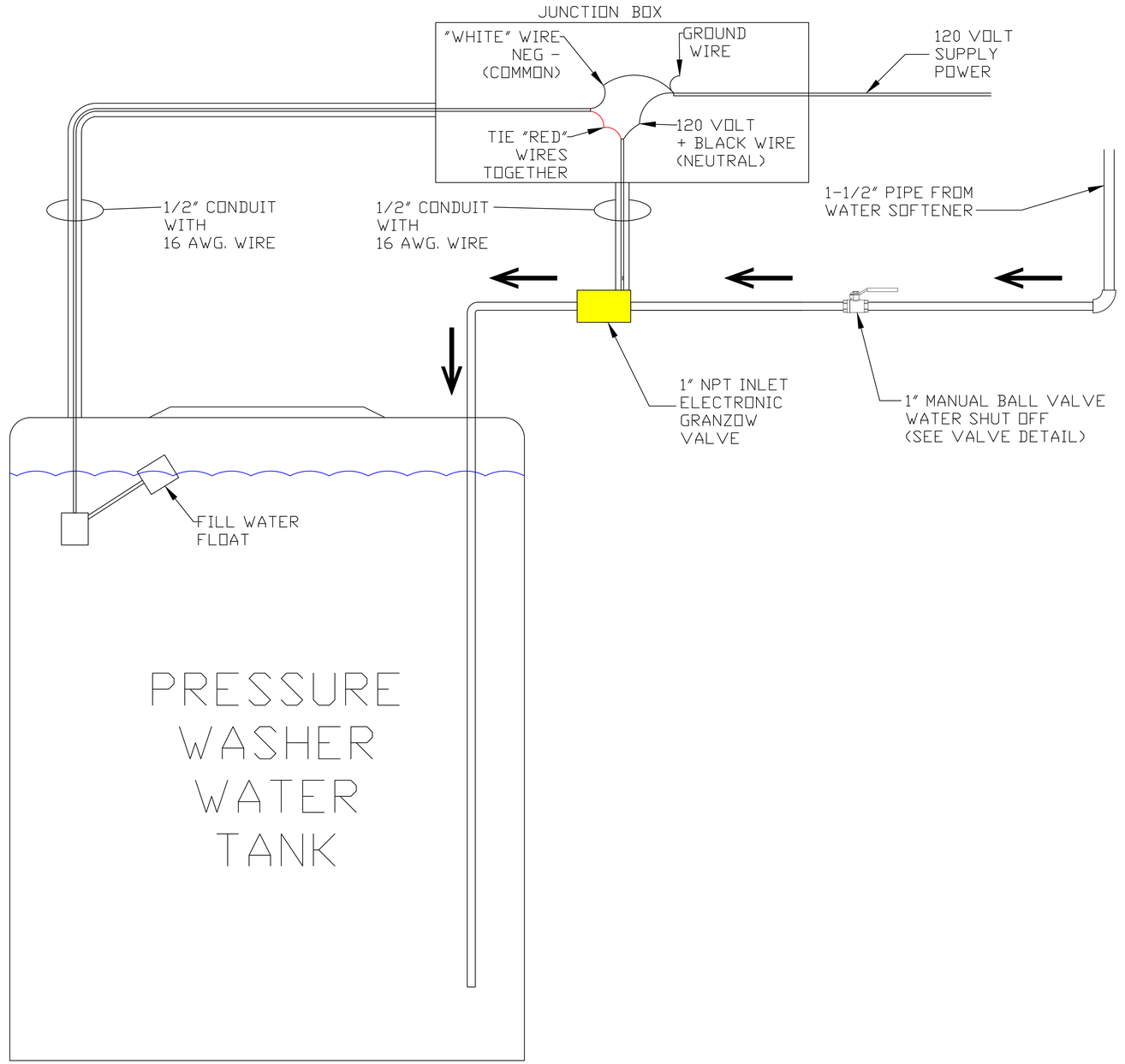


TRUNK LINE, 3/4" PIPE
CAPABLE OF 2500 P.S.I. @ 200° FAHRENHEIT
FROM PRESSURE WASHER TO HOSE REEL DROPS.
PIPE AT DROPS CAN BE 1/2" PIPE
CAPABLE OF 2500 P.S.I. @ 200° FAHRENHEIT
PROVIDE PIPE SUPPORT CLAMP AS SHOWN.

WHITING SYSTEMS, INC.
9000 HIGHWAY 5 NORTH
ALEXANDER ARKANSAS 72002
U.S.A. 501-847-9031

DRAWN BY: JAD		TITLE: LITTLE ROCK LANDFILL STORM TRUCKWASH LITTLE ROCK, AR
DATE: 10-18-23		
SCALE: NONE		
SHEET: 14 OF 18		
ALL DIMENSIONS ARE IN INCHES	TOL: NA	DWG. NO: P-W DROP DETAIL / REV: A

GRANZOW VALVE DETAIL



MANUAL BALL VALVE DETAIL

NORMALLY OPEN

NORMALLY CLOSED

WHITING SYSTEMS, INC. 9000 HIGHWAY 5 NORTH ALEXANDER ARKANSAS 72002 U.S.A. 501-847-9031	DRAWN BY: JAD DATE: 10-18-23 SCALE: NONE SHEET: 15 OF 18	TITLE: LITTLE ROCK LANDFILL STORM TRUCKWASH LITTLE ROCK, AR
ALL DIMENSIONS ARE IN INCHES	TOL: NA	DWG. NO: P-W ADDENDUM REV: A

MANUAL
BALL VALVE
DETAIL

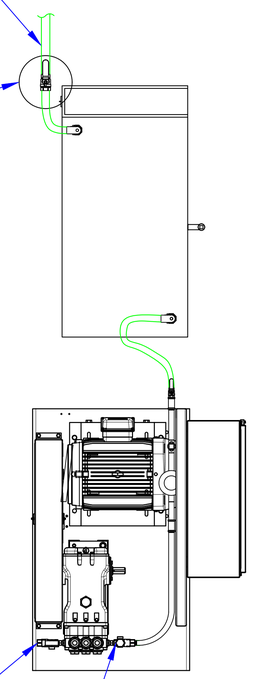
NORMALLY
OPEN

NORMALLY
CLOSED

MULTIGUN PRESSURE WASHER AND ELECTRIC HEATER DETAIL

3/4" PIPE
OUTPUT TO DROPS

3/4" MANUAL VALVE
(SEE VALVE DETAIL)



PRESSURE WASHER HEATER 72kw

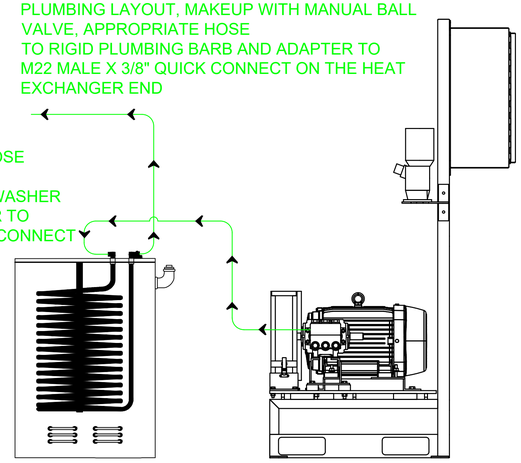
MULTIGUN PRESSURE WASHER MODEL-1020

1-1/2" SOFT WATER INPUT
TO BOTH INLETS OF PUMP

MULTIGUN WITH ELECTRIC HEAT 72kW CONNECTION

3/4" HIGH PRESSURE HOSE
FROM DISCHARGE OF HEAT EXCHANGER
TO HARD PLUMBING AS NOTED IN
PLUMBING LAYOUT, MAKEUP WITH MANUAL BALL
VALVE, APPROPRIATE HOSE
TO RIGID PLUMBING BARB AND ADAPTER TO
M22 MALE X 3/8" QUICK CONNECT ON THE HEAT
EXCHANGER END

3/4" HIGH PRESSURE HOSE
FROM DISCHARGE OF
MULTIGUN PRESSURE WASHER
MAKEUP WITH ADAPTER TO
M22 MALE X 3/8" QUICK CONNECT



NOTES:

> ALL DOWNSTREAM PIPING TO HAVE A MANUAL SHUT OFF VALVE NEAR TERMINATION.

> ALL PRESSURE WASHER PIPE, VALVE AND FITTINGS MUST BE CAPABLE OF 2500 PSI AT 200° F.

WHITING
SYSTEMS, INC.
9000 HIGHWAY 5 NORTH
ALEXANDER ARKANSAS 72002
U.S.A. 501-847-9031

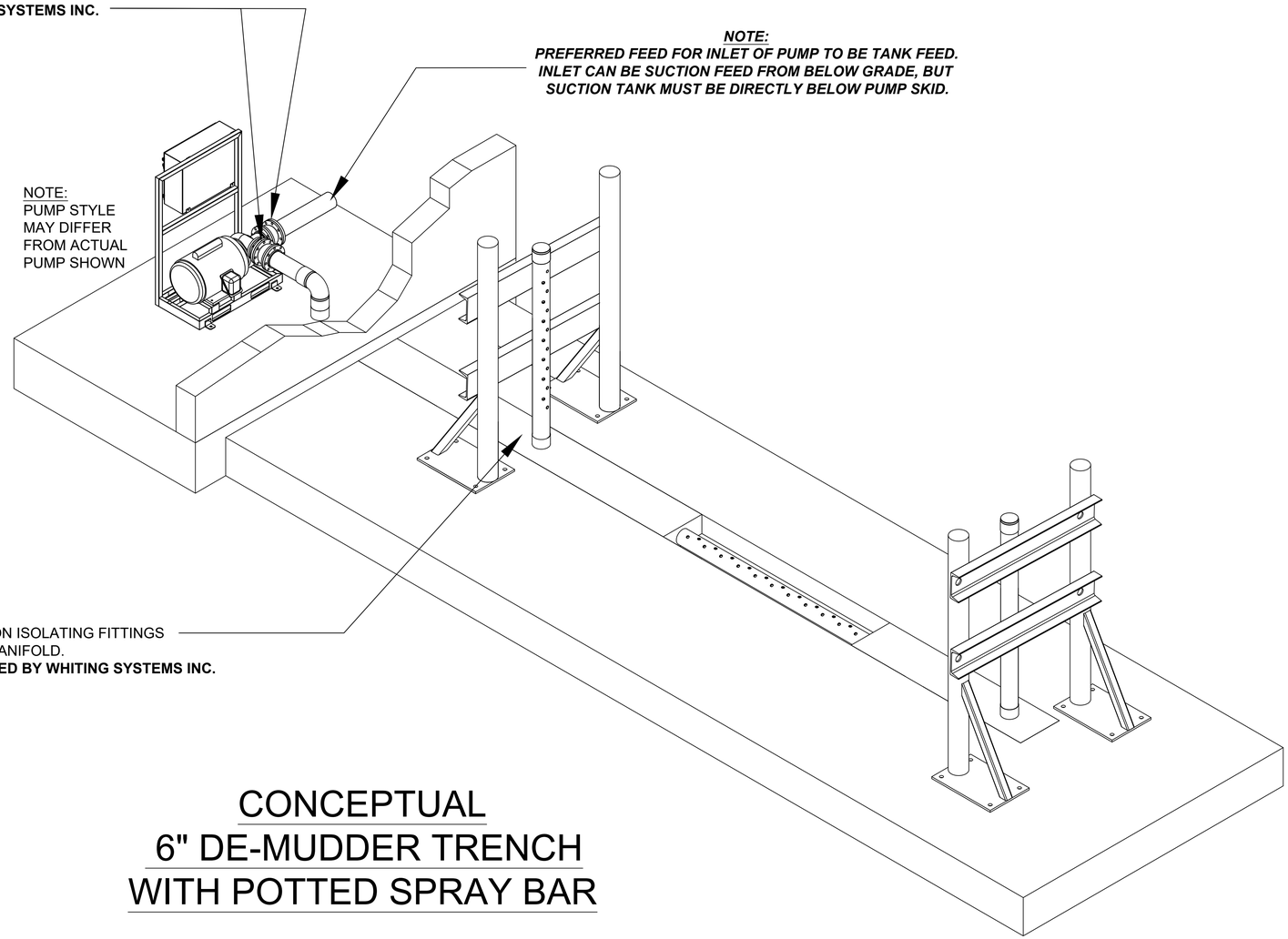
DRAWN BY:	JAD
DATE:	10-18-23
SCALE:	NONE
SHEET:	16 OF 18
TITLE:	LITTLE ROCK LANDFILL STORM TRUCKWASH LITTLE ROCK, AR
TOL:	NA
DWG. NO:	P-W DETAIL
REV:	A

ALL DIMENSIONS ARE IN INCHES

NOTE:
INSTALL FLEXIBLE VIBRATION ISOLATING FITTINGS
ON INLET AND DISCHARGE OF DE-MUDDER PUMP,
FLEXIBLE FITTINGS SUPPLIED BY WHITING SYSTEMS INC.

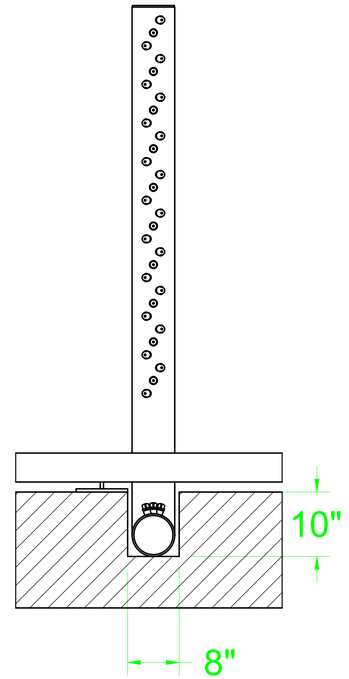
NOTE:
PREFERRED FEED FOR INLET OF PUMP TO BE TANK FEED. INLET CAN BE SUCTION FEED FROM BELOW GRADE, BUT SUCTION TANK MUST BE DIRECTLY BELOW PUMP SKID.

NOTE:
PUMP STYLE
MAY DIFFER
FROM ACTUAL
PUMP SHOWN



NOTE:
INSTALL FLEXIBLE VIBRATION ISOLATING FITTINGS
AT INLET OF DE-MUDDER MANIFOLD.
FLEXIBLE FITTINGS SUPPLIED BY WHITING SYSTEMS INC.

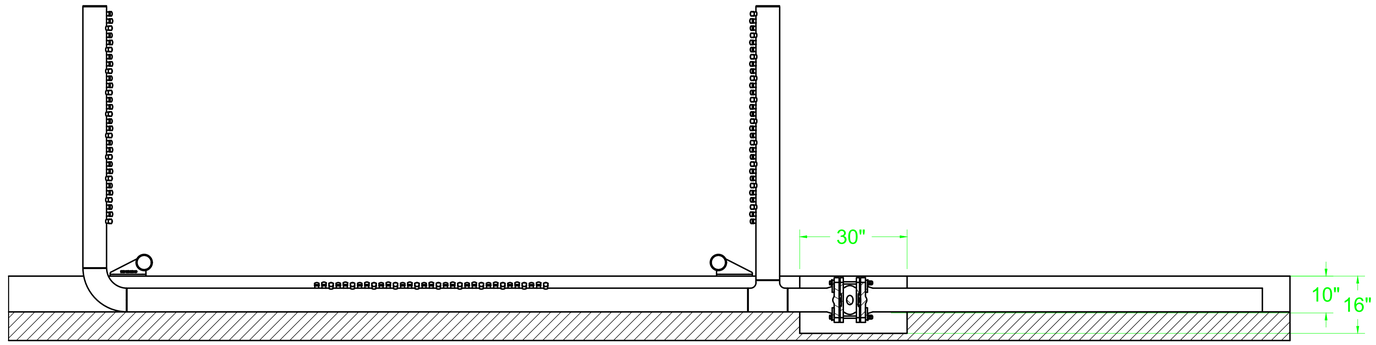
CONCEPTUAL
6" DE-MUDDER TRENCH
WITH POTTED SPRAY BAR



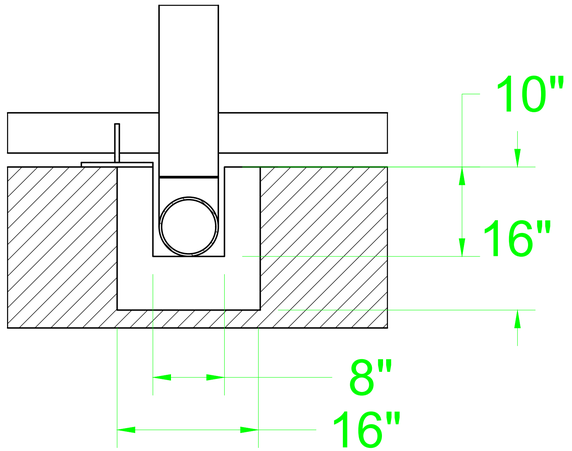
DE-MUDDER TRENCH
CROSS SECTION

WHITING SYSTEMS, INC.
9000 HIGHWAY 5 NORTH
ALEXANDER ARKANSAS 72002
U.S.A. 501-847-9031

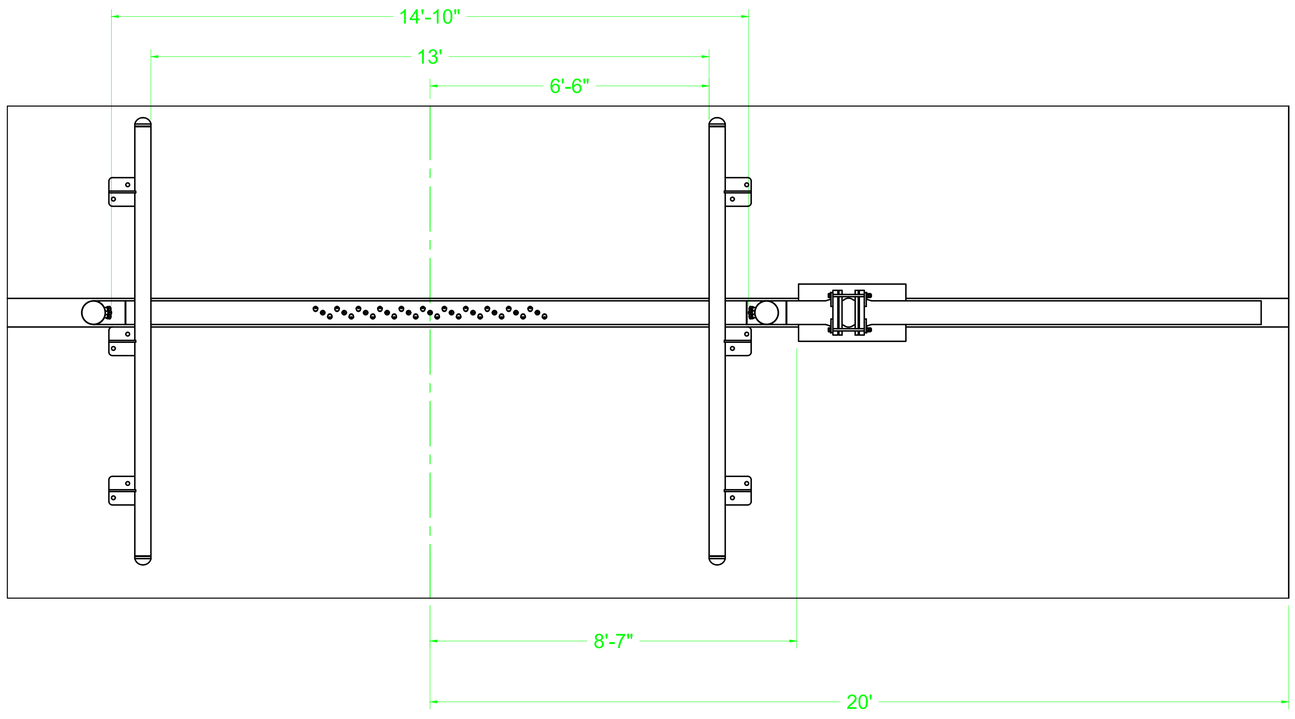
DRAWN BY:	JAD
DATE:	10-18-23
SCALE:	NONE
SHEET:	17 OF 18
TITLE:	LITTLE ROCK LANDFILL STORM TRUCKWASH LITTLE ROCK, AR
ALL DIMENSIONS ARE IN INCHES	
TOL:	NA
DWG. NO:	DE-MUDDER DETAIL
REV:	A



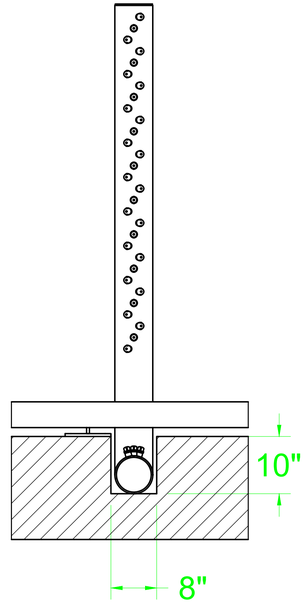
DE-MUDDER TRENCH FRONT
SECTION VIEW



DE-MUDDER TRENCH
RIGHT SIDE SECTION VIEW



DE-MUDDER TRENCH TOP VIEW



DE-MUDDER TRENCH
LEFT SIDE SECTION SIDE VIEW

WHITING SYSTEMS, INC.
9000 HIGHWAY 5 NORTH
ALEXANDER ARKANSAS 72002
U.S.A. 501-847-9031

DRAWN BY:	JAD
DATE:	10-18-23
SCALE:	NONE
SHEET:	18 OF 18
TITLE:	LITTLE ROCK LANDFILL STORM TRUCKWASH LITTLE ROCK, AR
ALL DIMENSIONS ARE IN INCHES	
TOL:	NA
DWG. NO:	DE-MUDDER DETAIL
REV:	A