

# **PART 4**

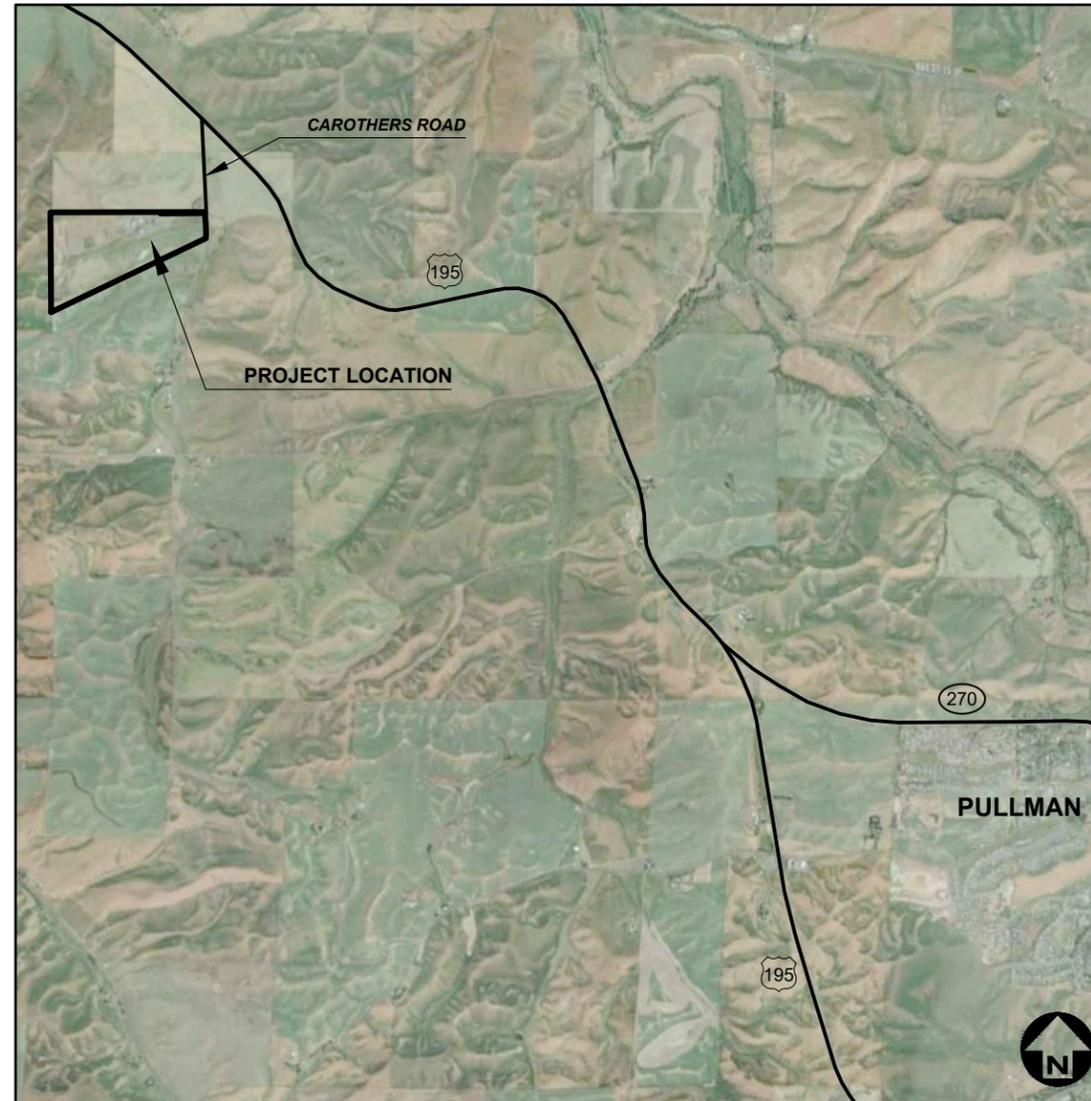
# **DRAWINGS**



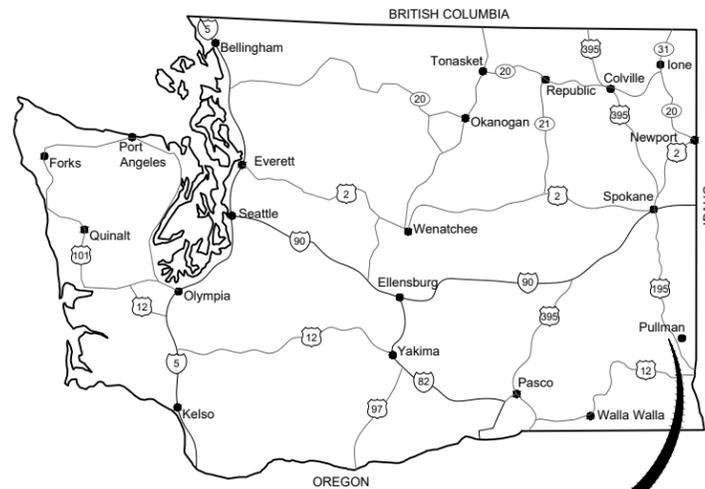
# WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY MRW BUILDING REMODEL

BID NO. XEW36

SECTION 28, TOWNSHIP 15 N., AND RANGE 44 E.



NOT TO SCALE



PROJECT LOCATION

PLANS PREPARED FOR:



APPROVED BY:

TRAVIS PYLE, P.E.  
GREAT WEST ENGINEERING

QA/QC BY:

MICHELLE LANGON, P.E.  
GREAT WEST ENGINEERING

PLANS PREPARED BY:

DUNCAN BREEDLOVE, E.I.



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PROJECT: 4-19110

DATE: MARCH 2020

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SHEET NO.  
**G1**



# ABBREVIATIONS

⊙	AT	LPG	LIQUID PROPANE GAS
Δ	ANGLE OF DEFLECTION, DELTA ANGLE	LT	LEFT
<PT	ANGLE POINT	MAX	MAXIMUM
AB	ANCHOR BOLT	MD	MEASURE DOWN
ABDN	ABANDON	MFD	MANUFACTURED
AC	ASBESTOS CONCRETE	MFR	MANUFACTURE, MANUFACTURER
ADDN	ADDITIONAL	MH	MANHOLE
ADJ	ADJACENT	MIN	MINIMUM
AFF	ABOVE FINISHED FLOOR	MISC	MISCELLANEOUS
ALT	ALTERNATE	MJ	MECHANICAL JOINT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MOV	MOTOR OPERATED VALVE
APPROX	APPROXIMATE	MW	MONITORING WELL
APVD	APPROVED	N	NORTH
ARCH	ARCHITECTURE, ARCHITECTURAL	NE	NORTHEAST
ASPH	ASPHALT	NG	NATURAL GAS
AVE	AVENUE	NIC	NOT IN CONTRACT
AVG	AVERAGE	NO	NUMBER
BFV	BUTTERFLY VALVE	NOM	NOMINAL
BLDG	BUILDING	NTS	NOT TO SCALE
BLK	BLOCK	NW	NORTHWEST
BLVD	BOULEVARD	OC	ON CENTER
BM	BEAM, BENCHMARK	OD	OUTSIDE DIAMETER
BOT	BOTTOM	OF	OVERFLOW
BRG	BEARING	OH	OVERHEAD
BRKT	BRACKET	OHP	OVERHEAD POWER
BVC	BEGIN VERTICAL CURVE	OHT	OVERHEAD TELEPHONE
C-C	CENTER TO CENTER	OPNG	OPENING
CHAN	CHANNEL	PC	POINT OF CURVATURE
CHK	CHECK	PCC	POINT OF COMPOUND CURVATURE
CI	CAST IRON	PE	PLAIN END, POLYETHYLENE
CIPC	CAST-IN-PLACE CONCRETE	PERP	PERPENDICULAR
CIRC	CIRCULAR	PI	POINT OF INTERSECTION
CJ	CONSTRUCTION JOINT, CONTROL JOINT	PL	PROPERTY LINE
CL	CENTER LINE	PNL	PANEL
CLR	CLEAR, CLEARANCE	PRC	POINT OF REVERSE CURVATURE
CMP	CORRUGATED METAL PIPE	PREFAB	PREFABRICATED
CMU	CONCRETE MASONRY UNITS	PRELIM	PRELIMINARY
CO	CLEANOUT	PREP	PREPARE, PREPARATION
COL	COLUMN	PROP	PROPERTY
CONC	CONCRETE	PRV	PRESSURE REDUCING VALVE
CONSTR	CONSTRUCTION	PSF	POUNDS PER SQUARE FOOT
CONT	CONTINUE, CONTINUED, CONTINUOUS	PSI	POUNDS PER SQUARE INCH
CONTR	CONTRACTOR	PT	POINT, POINT OF TANGENCY
COORD	COORDINATE	PVC	POLYVINYL CHLORIDE
CP	CONTROL PANEL, CONTROL POINT	PVI	POINT OF VERTICAL INTERSECTION
CPLG	COUPLING	PVMT	PAVEMENT
CTR	CENTER	R, RAD	RADIUS
CTV	CABLE TELEVISION	RC	REINFORCED CONCRETE
CU	CUBIC, COPPER	RCP	REINFORCED CONCRETE PIPE
CF	CUBIC FEET	RD	ROAD
CULV	CULVERT	RDCR	REDUCER
CW	CONTACT WATER	REBAR	REINFORCEMENT BAR
CY	CUBIC YARD	REF	REFERENCE
DET	DETAIL	REINF	REINFORCE
DI	DUCTILE IRON, DRAIN INLET	REQD	REQUIRED
DIA, Ø	DIAMETER	RR	RAILROAD
DIAG	DIAGONAL	RST	REINFORCING STEEL
DIM	DIMENSION	RT	RIGHT
DR	DRIVE	R/W	RIGHT-OF-WAY
DWG	DRAWING	S	SOUTH, SANITARY SEWER
E	EAST	SAN	SANITARY
EA	EACH	SCH	SCHEDULE
EL, ELEV	ELEVATION	SD	STORM DRAIN
ELB	ELBOW	SDWK	SIDEWALK
ELEC	ELECTRIC, ELECTRICAL	SE	SOUTHEAST
ENCL	ENCLOSE	SECT	SECTION
ENGR	ENGINEER	SF	SQUARE FOOT
EOP	EDGE OF PAVEMENT	SHT	SHEET
EQ	EQUAL, EQUALLY	SIM	SIMILAR
EQ SP	EQUALLY SPACED	SLP	SLOPE
EQUIP	EQUIPMENT	SPEC	SPECIFICATION
EQUIV	EQUIVALENT	SQ	SQUARE
EVC	END VERTICAL CURVE	SS	STAINLESS STEEL
EW	EACH WAY	SSSTL	STATION
EXC	EXCAVATE	STA	SANITARY SEWER SERVICE
EXP	EXPANSION	SS	STANDARD
EXP JT	EXPANSION JOINT	STD	STREET
EXST	EXISTING	ST	STEEL
FCV	FLOW CONTROL VALVE	STL	STRUCTURE
FD	FLOOR DRAIN	STRUC	STRUCTURE
FDN	FOUNDATION	SW	SOUTHWEST
FES	FLARED END SECTION	SYM	SYMMETRICAL
FET	FLARED END TERMINAL	TB	THRUST BLOCK
FF	FINISHED FLOOR	TBC	TOP BACK OF CURB
FG	FINISH GRADE	TBM	TEMPORARY BENCH MARK
FHYD	FIRE HYDRANT	TEL	TELEPHONE
FJ	FLANGE JOINT	TEMP	TEMPORARY
FL	FLOW LINE	THRU	THROUGH
FLEX	FLEXIBLE	TYP	TYPICAL
FM	FORCEMAIN	UG	UNDERGROUND
FT	FOOT, FEET	UGP	UNDERGROUND POWER
FO	FIBER OPTIC	UGT	UNDERGROUND TELEPHONE
FTG	FOOTING, FITTING	UTIL	UTILITY
G	NATURAL GAS	V	VALVE, VOLT
GA	GAGE, GAUGE	VB	VALVE BOX
GAL	GALLON	VERT	VERTICAL
GALV	GALVANIZED	VOL	VOLUME
GND	GROUND	W	WEST, WATER
GVL	GRAVEL	WTR	WATER
HB	HOSE BIB	WD	WOOD
HDPE	HIGH DENSITY POLYETHYLENE	WITH	WITH
HOR, HORIZ	HORIZONTAL	WITHOUT	WITHOUT
HWY	HIGHWAY	W/L	WETLAND
HYD	HYDRANT	WM	WIRE MESH, WATER METER
ID	INSIDE DIAMETER	WS	WATERSTOP, WATER SURFACE, WATER SERVICE
IE	INVERT ELEVATION	WT	WEIGHT
IN	INCH	WV	WATER VALVE
INV	INVERT	WWF	WELDED WIRE FABRIC
JB	JUNCTION BOX	WWM	WELDED WIRE MESH
JT	JOINT	XFMR	TRANSFORMER
K	RATE OF VERTICAL CURVATURE	X-ING	CROSSING
LBS	POUNDS	XS	CROSS SECTION
LF	LINEAR FEET	YD	YARD
LN	LANE		

# LEGEND

EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
---	---	MAJOR CONTOUR	⊙	⊙	STUMP
---	---	MINOR CONTOUR	⊙	⊙	SHRUB/BUSH
---	---	OVERHEAD TELEPHONE	☀	☀	TREE-CONIFER
---	---	UNDERGROUND TELEPHONE	☀	☀	TREE-DECIDUOUS
---	---	CABLE TELEVISION	⊙	⊙	TREE LINE
---	---	FIBER OPTIC	⊙	⊙	COMMUNICATION MANHOLE
---	---	NATURAL GAS	⊙	⊙	COMMUNICATION VAULT
---	---	OVERHEAD POWER	⊙	⊙	TELEPHONE RISER
---	---	UNDERGROUND POWER	⊙	⊙	CABLE TV RISER
---	---	SANITARY SEWER	⊙	⊙	NATURAL GAS METER
---	---	SANITARY SEWER SERVICE	⊙	⊙	NATURAL GAS RISER
---	---	SANITARY SEWER FORCEMAIN	⊙	⊙	NATURAL GAS VALVE
---	---	STORM DRAIN	⊙	⊙	LIGHT POLE
---	---	STORM CULVERT	⊙	⊙	STREET LIGHT POLE
---	---	WATER	⊙	⊙	POWER RISER
---	---	WATER SERVICE	⊙	⊙	PAD MOUNTED TRANSFORMER
---	---	CHAINLINK FENCE	⊙	⊙	POWER VAULT
---	---	BARBED WIRE FENCE	⊙	⊙	UTILITY POLE
---	---	WOOD FENCE	⊙	⊙	GUY WIRE
---	---	PAVED ROAD	⊙	⊙	SANITARY MANHOLE
---	---	GRAVEL ROAD	⊙	⊙	SANITARY CLEANOUT
---	---	PROPERTY/LOT LINE	⊙	⊙	SANITARY LAMPHOLE
---	---	PROPERTY EASEMENT	⊙	⊙	STORM MANHOLE
---	---	PROPERTY SETBACK	⊙	⊙	STORM ROUND INLET
---	---	RIGHT-OF-WAY	⊙	⊙	STORM SQUARE INLET
---	---	CITY LIMIT/DISTRICT BOUNDARY	⊙	⊙	STORM CATCH BASIN
---	---	RAILROAD	⊙	⊙	11.25' ELBOW
---	---	DITCH	⊙	⊙	22.50' ELBOW
---	---	WATER EDGE	⊙	⊙	45' ELBOW
---	---	WETLAND	⊙	⊙	90' ELBOW
---	---	BUILDING	⊙	⊙	TEE
---	---	BENCHMARK	⊙	⊙	CROSS
---	---	CONTROL POINT	⊙	⊙	CAP
---	---	PROPERTY PIN	⊙	⊙	FIRE HYDRANT
---	---	BORING	⊙	⊙	GATE VALVE
---	---	MONITORING WELL	⊙	⊙	REDUCER
---	---	TEST PIT	⊙	⊙	WATER METER
---	---	BOLLARD	⊙	⊙	WELL
---	---	MAIL BOX	⊙	⊙	CURB STOP
---	---	SIGN	⊙	⊙	FROST FREE HYDRANT

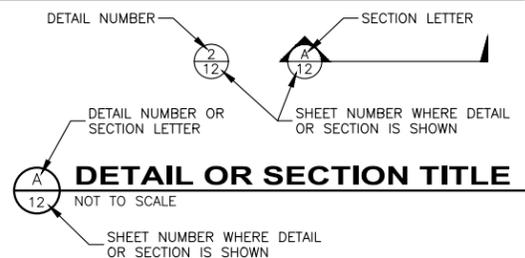
## GENERAL NOTES:

1. THIS IS A STANDARD LEGEND AND ABBREVIATION LIST. THEREFORE, NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED ON THIS PROJECT.
2. EXISTING UNDERGROUND UTILITIES SHOWN ARE FROM THE BEST INFORMATION AVAILABLE. THIS INFORMATION IS APPROXIMATE AND MUST BE VERIFIED BY CONTRACTOR BEFORE CONSTRUCTION.

## PROJECT NOTES:

1. SOURCE TOPOGRAPHY SHOWN IS BASED ON SURVEY INFORMATION AND MAPPING PROVIDED BY WHITMAN COUNTY, AND AS-BUILT INFORMATION FROM THE WASTE TRANSFER BUILDING (WTB) PROJECT. EXISTING CONDITIONS MAY VARY FROM THOSE SHOWN.
2. HORIZONTAL DATUM: SITE SPECIFIC CONTROL POINTS (SEE SITE SPECIFIC CPTS ON SHEET C2).
3. VERTICAL DATUM: NAVD 88.
4. THE CAROTHERS ROAD SOLID WASTE FACILITY WILL BE IN FULL-TIME OPERATION. IT'S THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND SCHEDULE WORK AROUND OWNER'S OPERATIONS. REFER TO SPECIFICATION SECTION "COORDINATION".
5. ALL ELECTRICAL WORK WILL BE PERFORMED BY THE OWNER'S ELECTRICIAN UNDER SEPARATE CONTRACT. CONTRACTOR SHALL WORK CLOSELY WITH ELECTRICIAN AND COORDINATE WORK AS NEEDED.

## GENERAL DESIGN DESIGNATIONS:

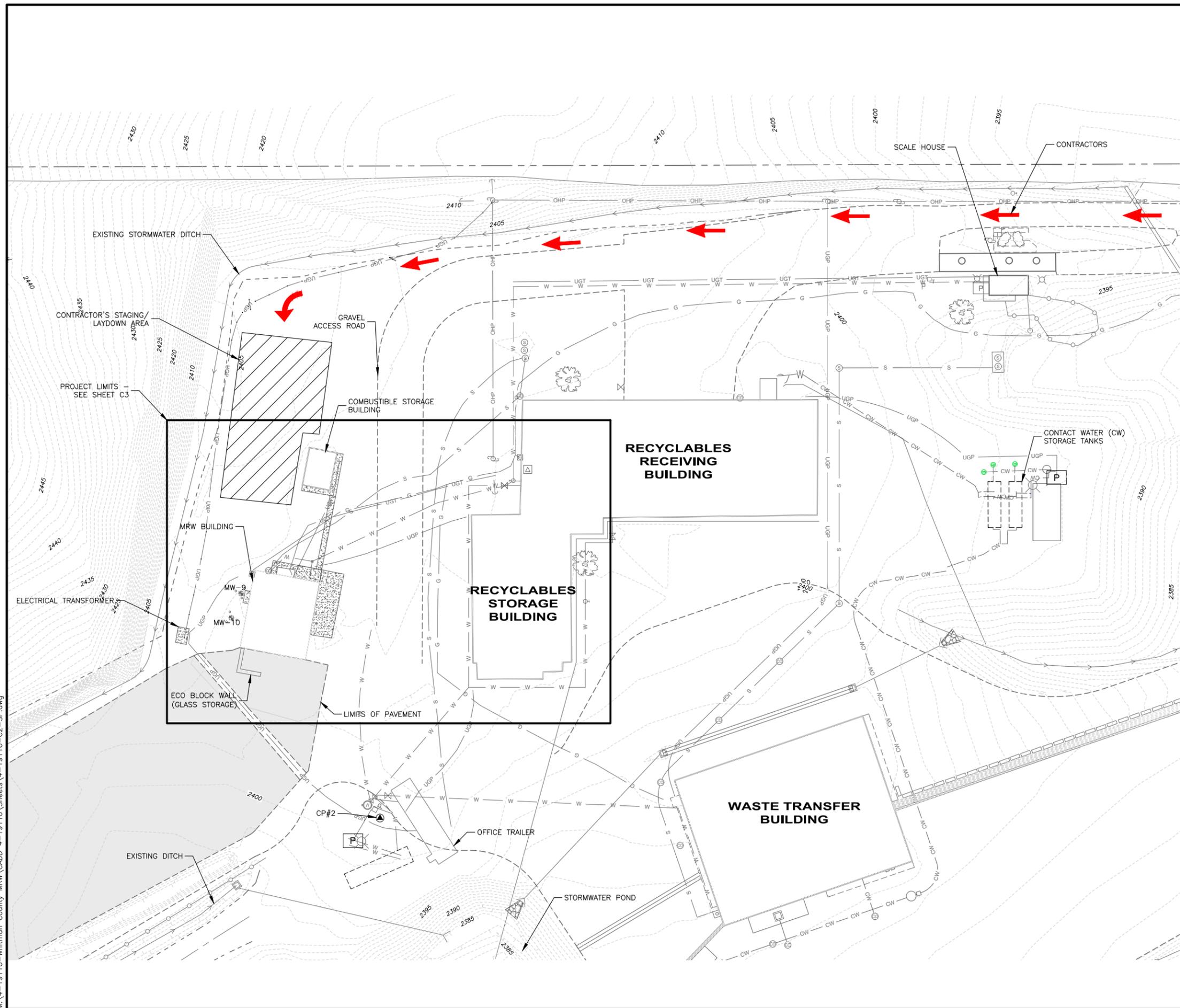


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BY					
REVISION DESCRIPTION					
NO.	1	2	3	4	5
PROJECT: 4-19110	DESIGNED: ML	DRAWN: DB	CHECKED: TP	APPROVED: TP	DATE: MARCH 2020
<b>WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY MRW BUILDING REMODEL</b>					
GENERAL					
SHEET NO.					
<b>C1</b>					
OF 9					



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**SHEET NOTES:**  
 1. SEE SHEET C1 FOR GENERAL AND PROJECT NOTES.



**SITE SPECIFIC CONTROL POINTS**

ID	NORTHING	EASTING	ELEVATION
CP#1 (NOT SHOWN)	10,000.00	10,000.00	2,418.94
CP#2	10,444.85	11,573.51	2,399.90

**LEGEND**

- PROPOSED CONTRACTOR STAGING/ LAYDOWN AREA\*
- CONTRACTOR'S MAIN TRAVEL ROUTE\*

\* ALL AREAS/ ROUTES SUBJECT TO CHANGE DEPENDING ON OWNER'S OPERATIONS.

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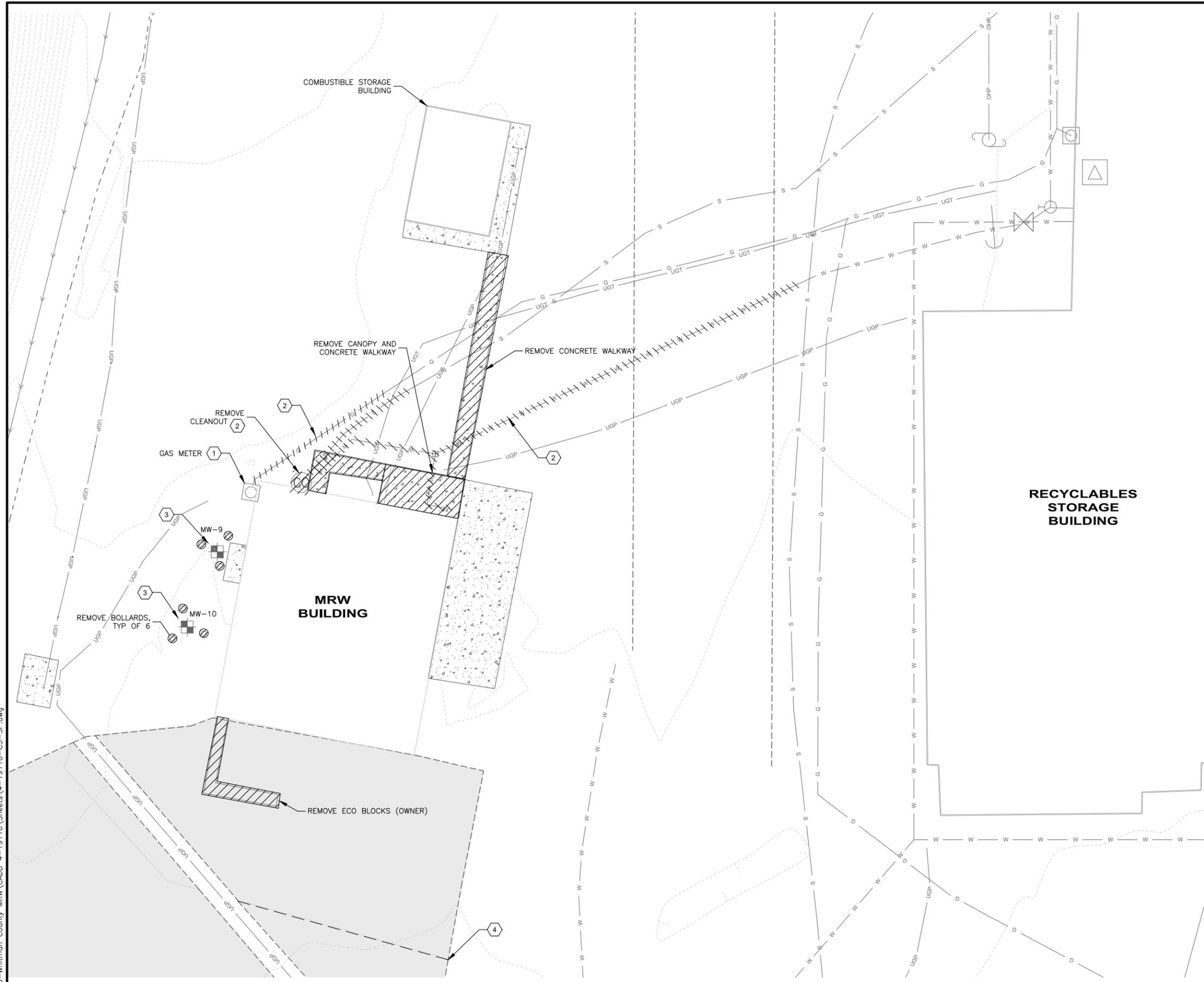
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 3050 N LAKEHARBOR LANE SUITE 201  
 BOISE, ID 83703  
 (208) 676-6646

**WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY MRW BUILDING REMODEL**  
 EXISTING SITE CONDITIONS

SHEET NO.  
**C2**  
 OF 9



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**SHEET NOTES:**

- SEE ELECTRICAL SHEETS FOR DEMOLITION/REMOVAL OF TELEPHONE (COMMUNICATION) AND ELECTRIC UTILITIES IN THE YARD.
- SEE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL SHEETS FOR DEMOLITION INSIDE THE BUILDING.

**KEYED NOTES:**

- PROTECT & RETAIN EXISTING GAS METER.
- REMOVE PORTIONS OF UTILITY LINES AS SHOWN.
- PROTECT EXISTING GROUNDWATER MONITORING WELLS.
- SAW CUT/REMOVE FOR BUILDING CONSTRUCTION.

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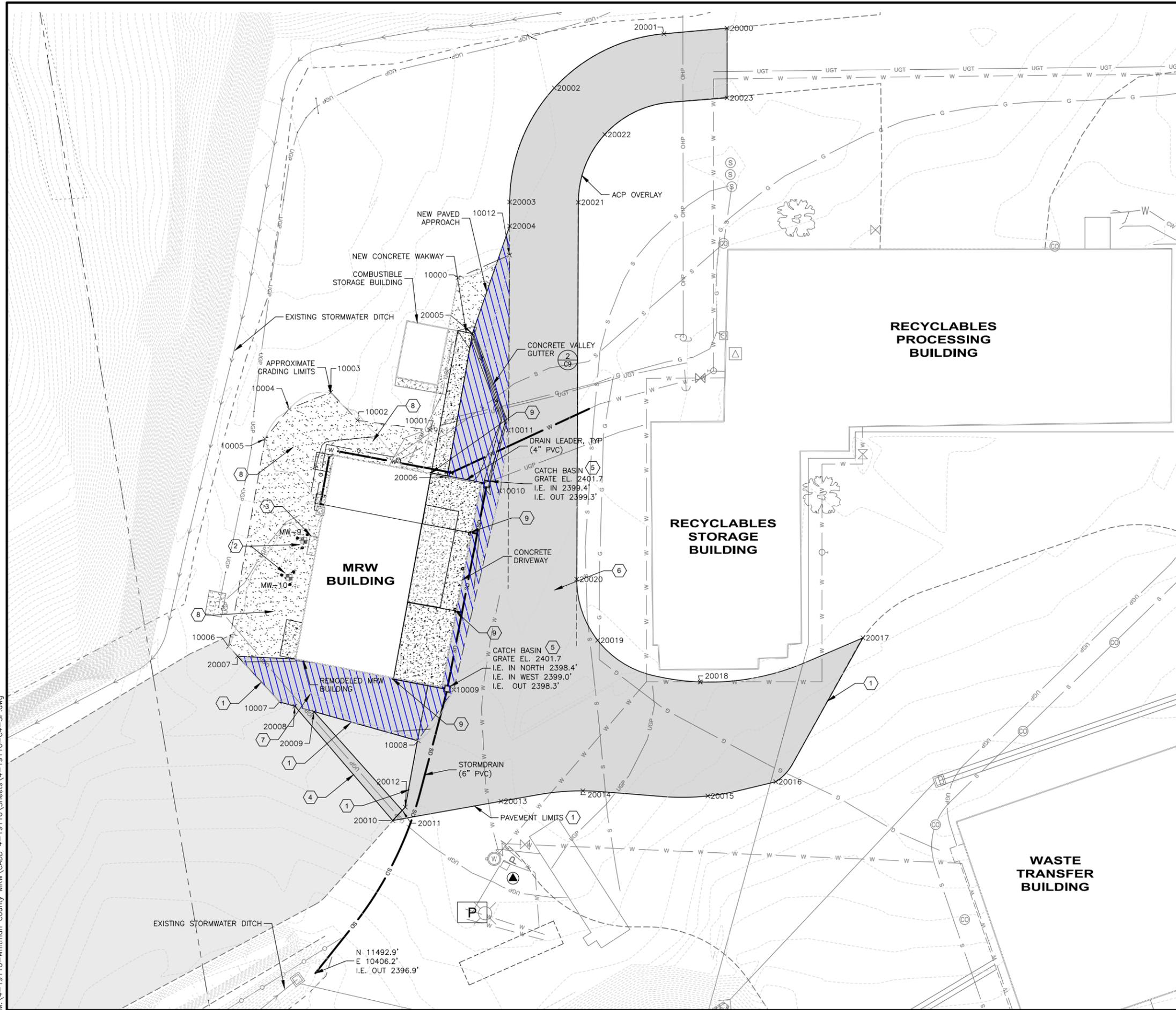
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**WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY  
MRW BUILDING REMODEL  
DEMOLITION SITE PLAN**



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**SHEET NOTES:**

- SEE ENLARGED PROPOSED SITE PLAN (SHEET C5) FOR MORE DETAIL.

**KEYED NOTES:**

- SAW CUT EXISTING PAVEMENT IN AREAS ADJACENT TO NEW PAVEMENT.
- RETAIN AND PROTECT EXISTING MONITORING WELLS. GRADE CAREFULLY AROUND THESE WELLS TO NOT DISTURB THEM.
- RETAIN AND PROTECT EXISTING DOOR PAD.
- PATCH ASPHALT ALONG FORMER ELECTRICAL TRENCH.
- TYPE 1 CATCH BASIN AS MANUFACTURED BY WILBERT PRECAST, OR APPROVED EQUAL.
- ASPHALT SURFACING ONLY (LITTLE TO NO ROCK BASE) OUTSIDE OF EXCAVATION/INFLUENCE AREAS OF BUILDING REMODEL.
- WITHIN INFLUENCE/EXCAVATION LIMITS OF BUILDING, INSTALL FULL ACP PAVEMENT SECTION.
- WITHIN INFLUENCE OF BUILDING EXCAVATION, PLACE FULL GRAVEL SURFACING SECTION AND BLEND INTO ADJACENT UNDISTURBED AREAS.
- CONNECT EACH GUTTER DOWNSPOUTS TO 4" PVC DRAIN LEADERS USING DOWNSPOUT COUPLERS, TYP OF 4

**LEGEND**

- CONCRETE
- ACP OVERLAY
- GRAVEL SURFACING
- FULL ACP ROAD SECTION



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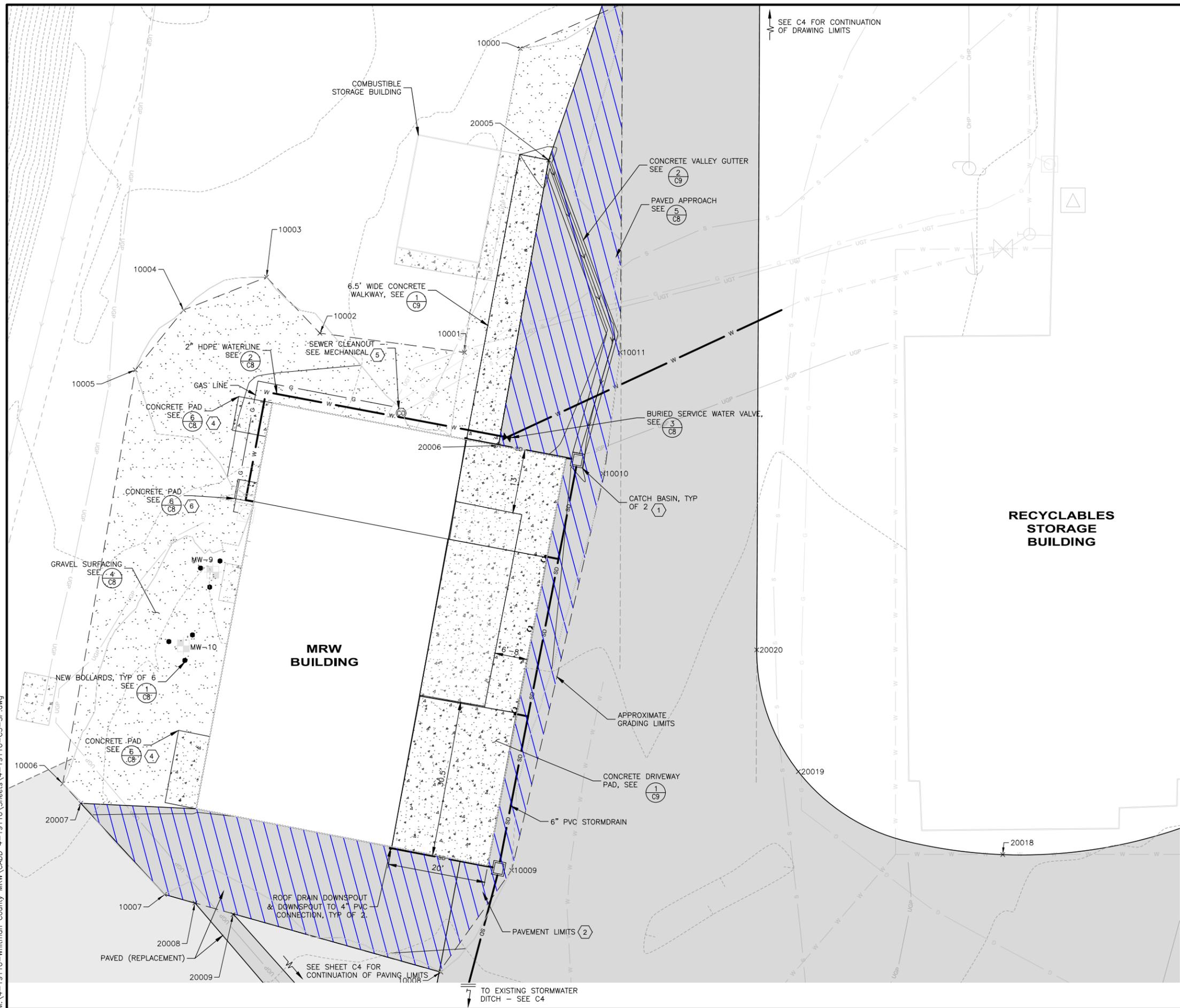
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**WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY MRW BUILDING REMODEL**  
 OVERALL PROPOSED SITE PLAN

SHEET NO.  
**C4**  
 OF 9



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SEE C4 FOR CONTINUATION OF DRAWING LIMITS

**SHEET NOTES:**

- SEE SIGNAGE PLAN FOR STRIPING DETAILS.
  - REFER TO SHEET C4 FOR OVERLAY AND PATCH AREAS OF ASPHALT
- KEYED NOTES:**
- ROOF DRAINS TO CONNECT TO CATCH BASINS.
  - SAW CUT EXISTING PAVEMENT IN AREAS ADJACENT TO NEW PAVEMENT.
  - COORDINATE WITH MECHANICAL FOR SIZE OF CONCRETE HOUSEKEEPING PADS.
  - COORDINATE WITH MECHANICAL FOR SIZE OF CONCRETE HOUSEKEEPING PAD.
  - INSTALL CLEANOUT AND TIE-IN TO EXISTING SEWER W/ 4" PVC.
  - CONCRETE PAD TO BE 4'X4'.

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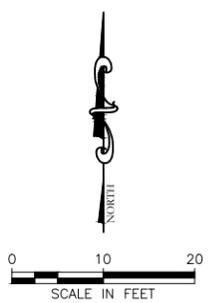
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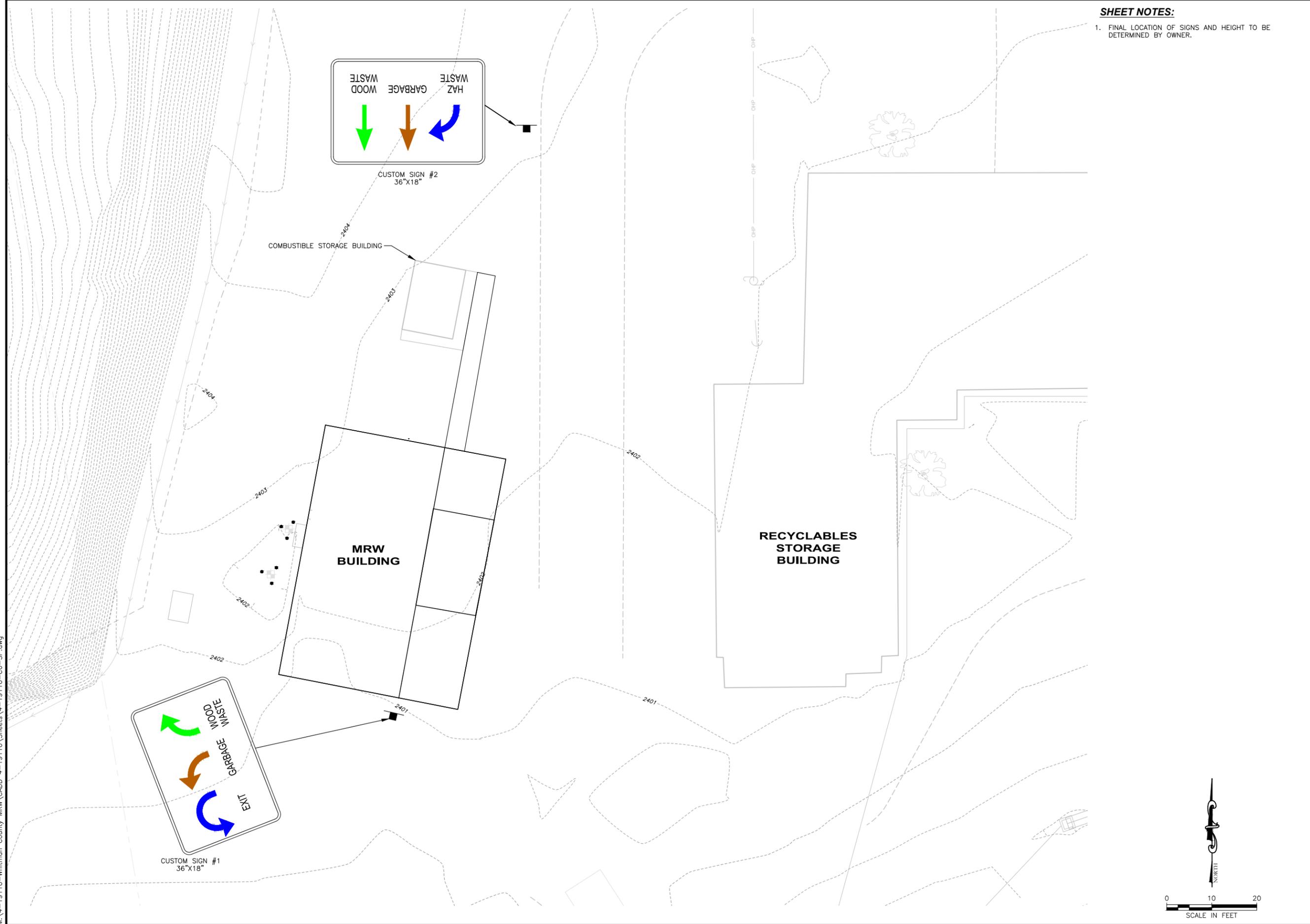
**WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY  
 MRW BUILDING REMODEL  
 ENLARGED PROPOSED SITE PLAN**

SHEET NO.  
**C5**  
 OF 9





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**SHEET NOTES:**

- 1. FINAL LOCATION OF SIGNS AND HEIGHT TO BE DETERMINED BY OWNER.

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**WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY  
MRW BUILDING REMODEL**

SIGNAGE PLAN

SHEET NO.  
**C6**  
OF 9



Grading Control Points			
Point #	Northing	Easting	Elevation
10000	10689.27	11551.14	2402.93
10001	10627.25	11539.71	2402.44
10002	10631.18	11510.13	2403.30
10003	10642.61	11499.21	2403.78
10004	10635.92	11482.25	2403.80
10005	10623.69	11472.37	2403.90
10006	10539.25	11457.52	2402.17
10007	10516.64	11478.35	2401.56
10008	10500.80	11534.88	2400.82
10009	10521.57	11549.37	2401.39
10010	10602.52	11568.06	2402.42
10011	10627.25	11571.58	2402.61
10012	10698.44	11572.07	2402.96

Pavement Limits			
Point #	Northing	Easting	Elevation
20000	10790.77	11660.82	0.00
20001	10788.49	11635.06	0.00
20002	10766.45	11590.36	0.00
20003	10720.05	11572.16	0.00
20004	10710.27	11572.15	0.00
20005	10666.51	11556.95	0.00
20006	10608.24	11546.67	0.00
20007	10535.24	11461.21	0.00
20008	10514.89	11484.57	0.00
20009	10512.53	11492.37	0.00
20010	10468.38	11524.45	0.00
20011	10472.50	11528.32	0.00
20012	10473.85	11529.58	0.00
20013	10476.20	11568.63	0.00
20014	10480.44	11602.02	0.00
20015	10478.38	11652.98	0.00
20016	10484.15	11680.66	0.00
20017	10542.69	11716.23	0.00
20018	10524.77	11649.85	0.00
20019	10541.71	11608.03	0.00
20020	10566.56	11599.52	0.00
20021	10719.93	11600.16	0.00
20022	10747.50	11610.97	0.00
20023	10762.40	11660.82	0.00

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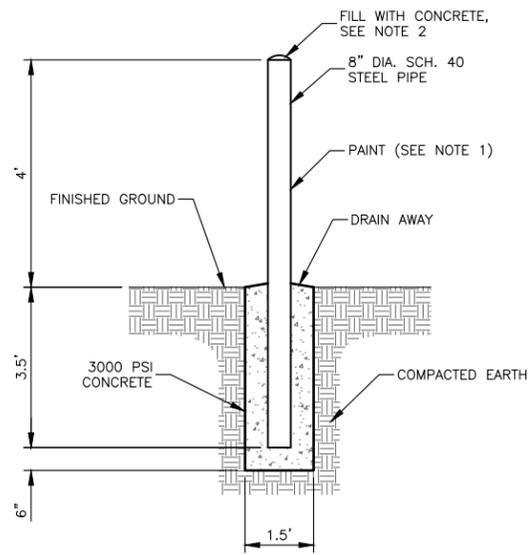
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 APPROVED: TP  
 DATE: MARCH 2020



**WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY MRW BUILDING REMODEL**  
 CONTROL TABLES

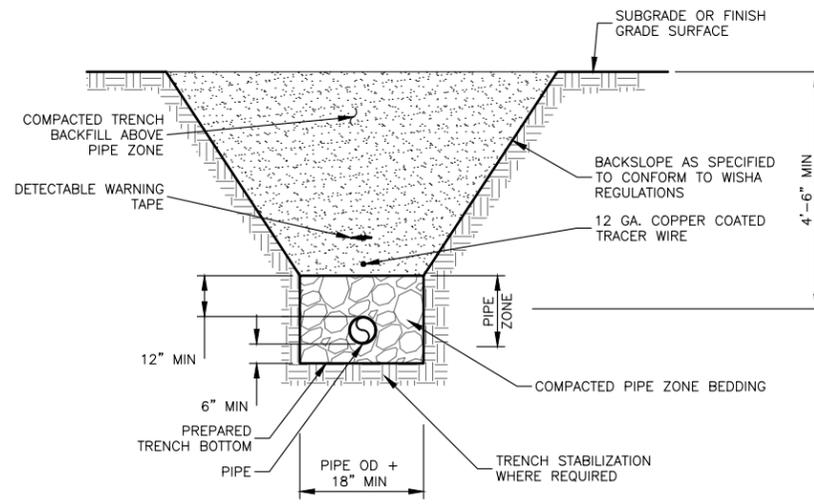
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**C7**  
 OF 9



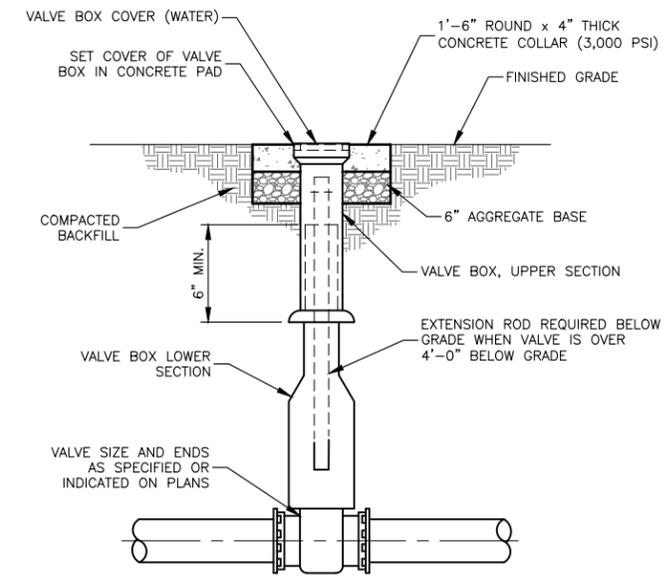


NOTES:  
 1. FINISH AND PAINT ALL EXPOSED STEEL WITH 2 COATS OF TRAFFIC YELLOW.  
 2. FINISH CROWN SMOOTH AND CLEAN.

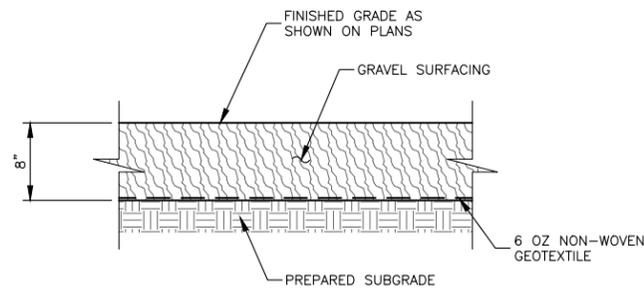
**1 TYPICAL EXTERIOR BOLLARD**  
 C8 NOT TO SCALE



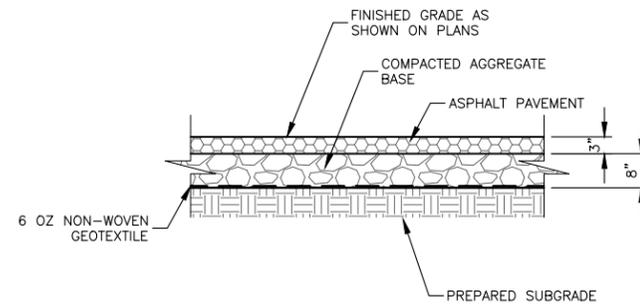
**2 TYPICAL PIPE TRENCH**  
 C8 NOT TO SCALE



**3 BURIED SERVICE VALVE AND VALVE BOX**  
 C8 NOT TO SCALE

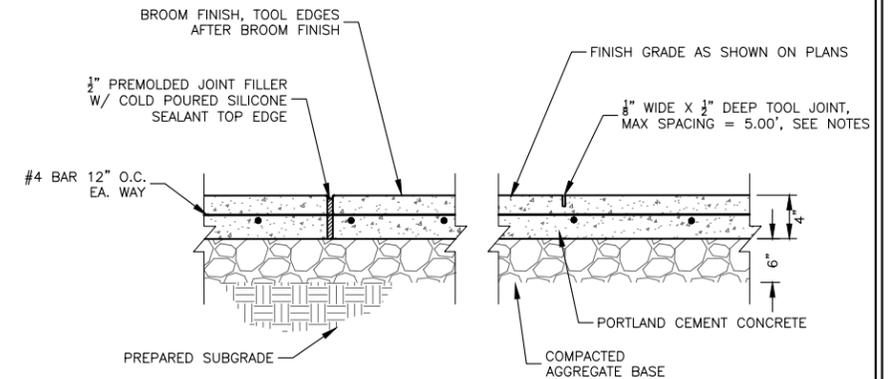


**4 GRAVEL SURFACING**  
 C8 NOT TO SCALE



NOTES:  
 1. IN PATCH/ASPHALT OVERLAY AREAS, PREP EXISTING SURFACE AND PLACE 3" ASPHALT ONLY.

**5 ASPHALT PAVEMENT**  
 C8 NOT TO SCALE



NOTES:  
 1. PROVIDE A MINIMUM OF ONE JOINT PER PAD.

**6 CONCRETE PADS**  
 C8 NOT TO SCALE

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-19110  
 DESIGNED: ML  
 DRAWN: DB  
 CHECKED: TP  
 APPROVED: TP  
 DATE: MARCH 2020



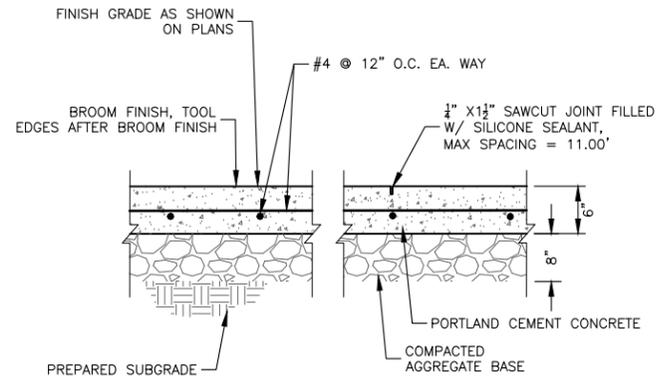
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**WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY MRW BUILDING REMODEL**

DETAILS

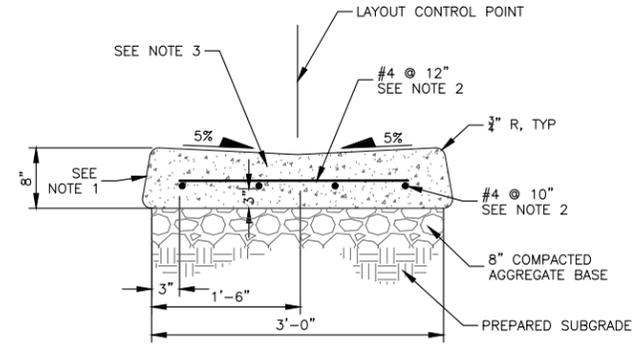
SHEET NO.  
**C8**  
 OF 9





NOTES:  
1. DOWEL REINFORCING INTO EXISTING PAD, WHERE APPLICABLE.

**1**  
C9 **CONCRETE WALKWAY AND DRIVEWAY PAD**  
NOT TO SCALE



NOTES:  
1. CONSTRUCT 1\"/>

**2**  
C9 **CONCRETE VALLEY GUTTER**  
NOT TO SCALE

M:\4-19110-Whitman County MRW\CADD 4-19110\Sheets\4-19110-C9-DT.dwg

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-19110  
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DRAWN: DB  
CHECKED: TP  
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DATE: MARCH 2020



**WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY MRW BUILDING REMODEL**  
DETAILS



**ABBREVIATIONS**

A.B.	ANCHOR BOLT	JT.	JOINT
A.F.F.	ABOVE FIN. FLR.	MAX.	MAXIMUM
ALUM.	ALUMINUM	MECH.	MECHANICAL
BD.	BOARD	MET.	METAL
BDRM.	BED ROOM	MFR.	MANUFACTURE
BLDG.	BUILDING	MIN.	MINIMUM
CL6.	CEILING	N.I.C.	NOT IN CONTRACT
CLR.	CLEAR	NO.	NUMBER
CMU	CONCRETE MASONRY UNITS	N.T.S.	NOT TO SCALE
CONC.	CONCRETE	O.C.	ON CENTER
CONT.	CONTINUOUS	O.D.	OVERFLOW DRAIN
CONTR.	CONTRACTOR	O.H.	OPPOSITE HAND
DIA.	DIAMETER	OPNG.	OPENING
DIM.	DIMENSION	OPP.	OPPOSITE
DN.	DOWN	PL.	PLATE
DWG.	DRAWING	PT.	POINT
EA.	EACH	R.	RISER
ELEV.	ELEVATION	RAD.	RADIUS
EQ.	EQUAL	R.D.	ROOF DRAIN
EXP.	EXPANSION	REF.	REFERENCE
F.D.	FLOOR DRAIN	REINF.	REINFORCEMENT
F.E.G.	FIRE EXT. CAB.	REQ.	REQUIREMENT
FIN.	FINISH	SECT.	SECTION
F.I.O.	FURNISHED & INSTALLED BY OWNER	SHT.	SHEET
F.O.I.C.	FURNISHED BY OWNER/INSTALLED BY CONTR.	SIM.	SIMILAR
FLR.	FLOOR	SPEC.	SPECIFICATION
FLASH.	FLASHING	SG.	SQUARE
F.O.F.	FACE OF FOUNDATION	STD.	STANDARD
F.O.S.	FACE OF STUD	STL.	STEEL
FT.	FOOT/FEET	STRL.	STRUCTURAL
GA.	GAUGE	T.O.C.	TOP OF CURB
GALV.	GALVANIZED	TEL.	TELEPHONE
G.I.	GALV. IRON	T.O.	TOP OF
GYP.	GYPSON	T.O.W.	TOP OF WALL
H.B.	HOSE BIB	TYP.	TYPICAL
H.M.	HOLLOW METAL	UNO.	UNLESS NOTED OTHERWISE
H.P.	HIGH POINT	W/	WITH
HR.	HOUR	WD.	WOOD
I.D.	INSIDE DIA.	WIN.	WINDOW
INSUL.	INSULATION	WP.	WATERPROOF
		WT.	WEIGHT

**GRAPHIC AND MATERIAL SYMBOLS**

	DETAIL IDENTIFICATION DETAIL SHEET NUMBER		EARTH FILL
	SECTION IDENTIFICATION BUILDING SECTION SHEET NUMBER		GRAVEL FILL
	SECTION IDENTIFICATION WALL SECTION SHEET NUMBER		CONCRETE
	VIEW IDENTIFICATION ELEVATION IDENTIFICATION ELEVATIONS SHEET NUMBER		SAND OR GROUT
	DOOR (NUMBER) SEE DOOR SCHEDULE		FINISH WOOD MEMBER
	WINDOW (NUMBER) SEE WINDOW SCHEDULE		WOOD FRAMING MEMBER
	REVISION		WOOD BLOCKING
	ROOM NAME ROOM IDENTIFICATION (SEE FINISH SCHEDULE) ROOM NUMBER		BATT, BLANKET, OR BLOWN-IN INSULATION
	DATUM POINT CONTROL POINT OR WORK POINT		RIGID INSULATION
			PLYWOOD
			GYPSON BOARD
			GLASS
			CERAMIC TILE (Profile only)
			ACOUSTICAL TILE

**GENERAL PROJECT NOTES**

- THE SPECIFICATIONS ARE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS. REFER TO THE SPECIFICATIONS FOR MATERIAL & INSTALLATION SPECIFICS & ADDITIONAL REQUIREMENTS.
  - ALL WORK TO CONFORM TO THE 2015 INTERNATIONAL BUILDING CODE & TO ALL LOCAL JURISDICTION REQUIREMENTS.
  - ON-SITE SAFETY & SECURITY IS THE RESPONSIBILITY OF THE CONTRACTOR.
  - CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE COMMENCING ANY WORK.
  - FIELD VERIFY EXTENT OF WORK, QUANTITY OF MATERIALS REQUIRED, AND EXISTING CONDITIONS IMPACTING THE WORK SHOWN.
  - CONTRACTOR SHALL CHECK AND VERIFY SIZE AND LOCATION OF DUCT OPENINGS AND PLUMBING RUNS WITH MECHANICAL CONTRACTOR BEFORE FRAMING WALLS, FLOOR, ETC.
  - INTERIOR FINISHES & FURNISHINGS TO COMPLY WITH CHAPTER 8 OF THE I.F.C.
  - FOR STRUCTURAL NOTES SEE THE STRUCTURAL DRAWINGS.
  - ALL SURFACES ADJACENT TO BUILDING PERIMETER ARE TO SLOPE AND DRAIN AWAY FROM THE BUILDING.
  - THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS & COORDINATION OF REQUIRED INSPECTIONS, UNLESS NOTED OTHERWISE.
- PARTITIONS:**
- GYP BOARD USED IN TOILET ROOMS AND MECHANICAL EQUIPMENT ROOMS SHALL BE WATER RESISTANT, CEMENTITIOUS BEHIND ALL TILE.
  - PROVIDE STIFFENERS, BRACING, BACK-UP PLATES, ETC., AS REQUIRED AT STUD WALLS FOR SUPPORT OF TOILET ROOM FIXTURES AND OTHER EQUIPMENT.



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PLANNING

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(208) 667-3430  
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PROJECT: 1920  
DESIGNED: [ ]  
DRAWN: CJP  
CHECKED: RJC  
APPROVED: [ ]  
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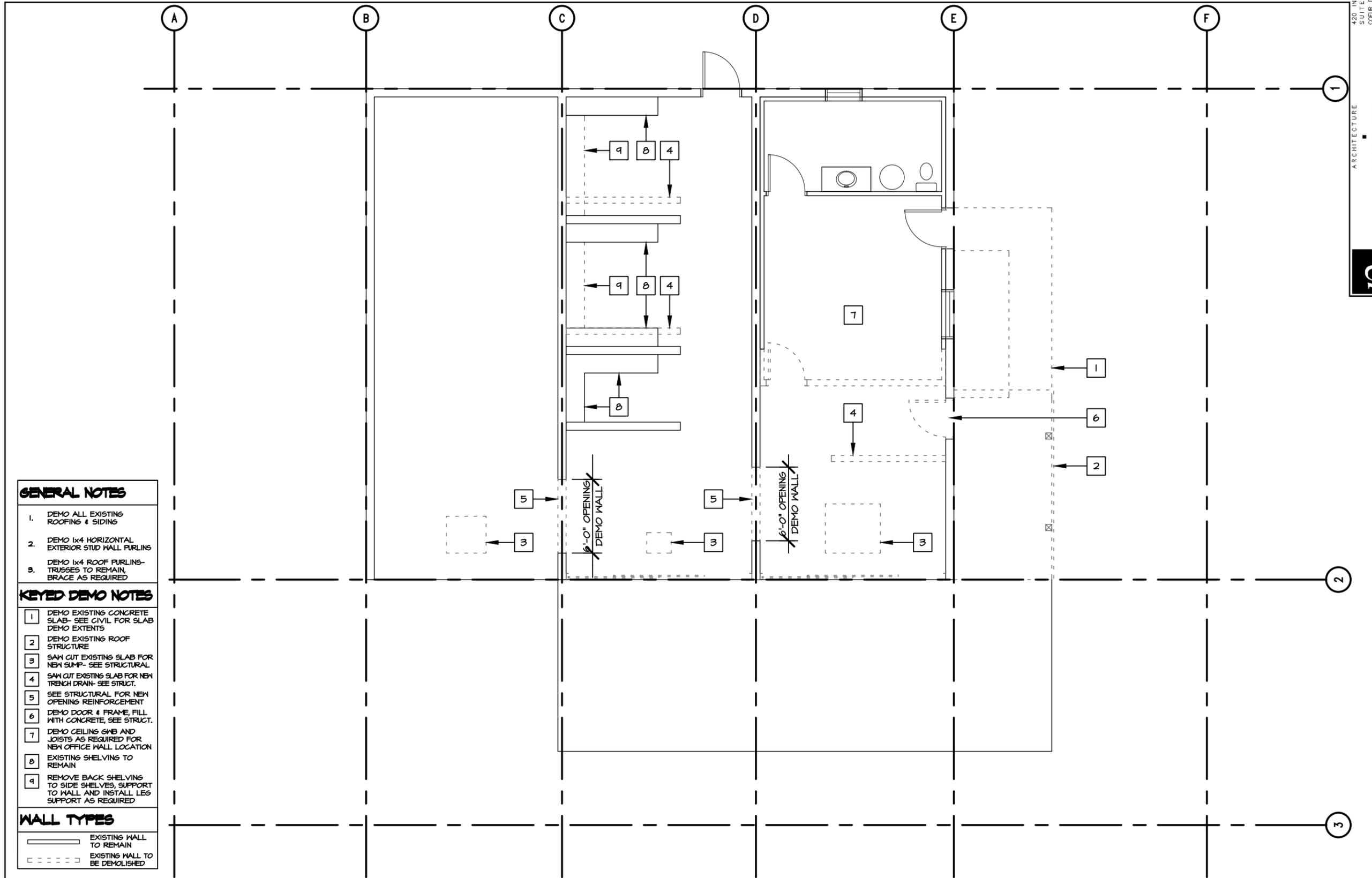


**WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY MRW BUILDING REMODEL**

GENERAL & SITE ACCESSIBILITY NOTES, SYMBOLS & ABBREVIATIONS



S:\H2A Projects\1920 Whitman County MRW Facility\Drawings\Whitman County MRW Facility\Sheets\A2 Main Level Demo Floor Plan.dwg



- GENERAL NOTES**
1. DEMO ALL EXISTING ROOFING & SIDING
  2. DEMO 1x4 HORIZONTAL EXTERIOR STUD WALL PURLINS
  3. DEMO 1x4 ROOF PURLIN-TRUSSES TO REMAIN, BRACE AS REQUIRED
- KEYED DEMO NOTES**
- 1 DEMO EXISTING CONCRETE SLAB- SEE CIVIL FOR SLAB DEMO EXTENTS
  - 2 DEMO EXISTING ROOF STRUCTURE
  - 3 SAW CUT EXISTING SLAB FOR NEW SUMP- SEE STRUCTURAL
  - 4 SAW CUT EXISTING SLAB FOR NEW TRENCH DRAIN- SEE STRUCT.
  - 5 SEE STRUCTURAL FOR NEW OPENING REINFORCEMENT
  - 6 DEMO DOOR & FRAME, FILL WITH CONCRETE, SEE STRUCT.
  - 7 DEMO CEILING GMB AND JOISTS AS REQUIRED FOR NEW OFFICE WALL LOCATION
  - 8 EXISTING SHELVING TO REMAIN
  - 9 REMOVE BACK SHELVING TO SIDE SHELVES, SUPPORT TO WALL AND INSTALL LEG SUPPORT AS REQUIRED
- WALL TYPES**
- EXISTING WALL TO REMAIN
  - - - - EXISTING WALL TO BE DEMOLISHED

1 MAIN LEVEL DEMO FLOOR PLAN  
 1/8" = 1'-0" SEE FINISH SCHEDULE AND SECTIONS FOR EXISTING GMB REMOVAL

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WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY  
**MRW BUILDING REMODEL**  
 MAIN LEVEL DEMO FLOOR PLAN



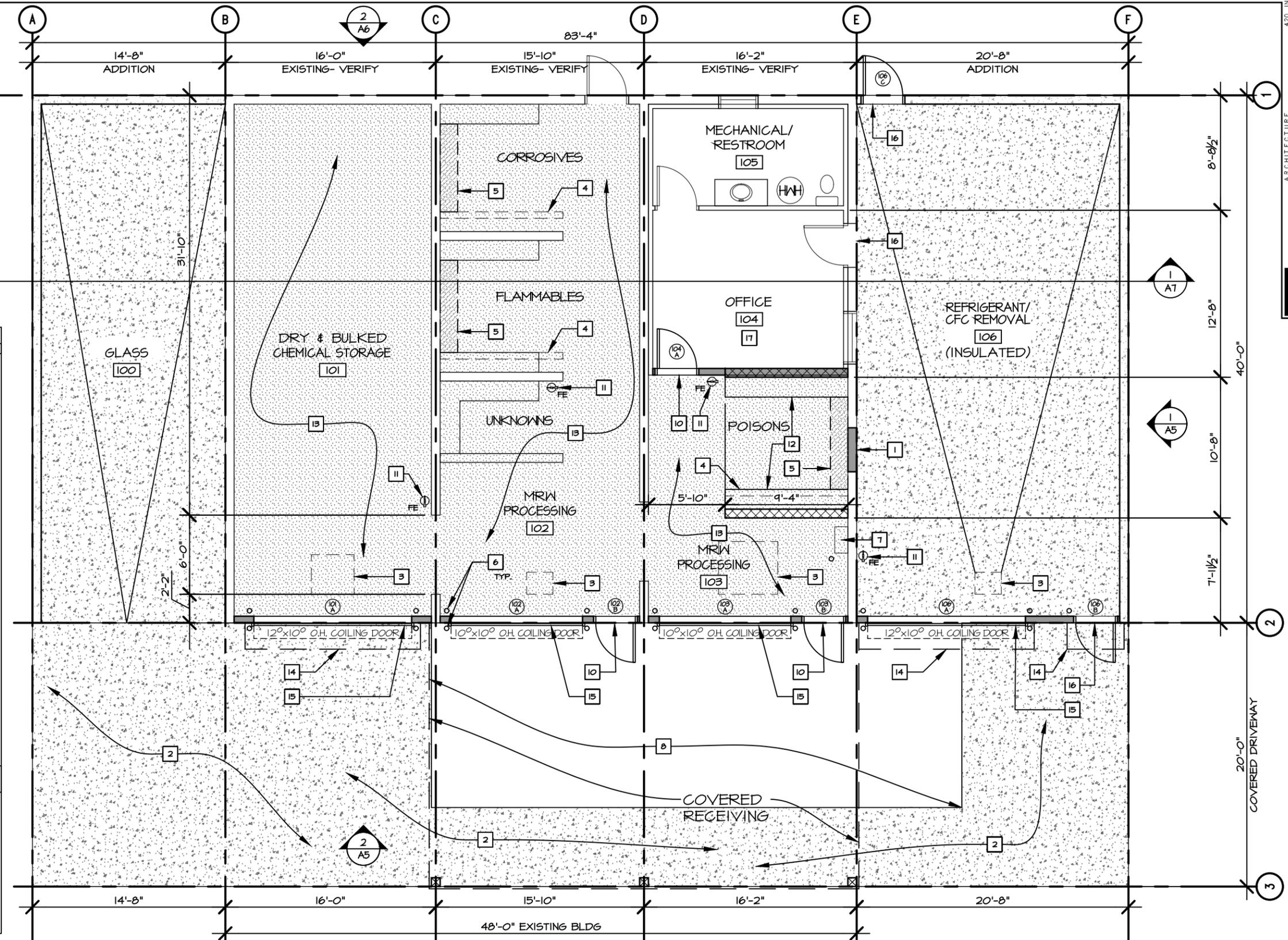
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**KEYED NOTES**

- INFILL EXISTING OPENING WITH REINFORCED CONCRETE
- NEW CONCRETE DRIVEWAY- BLEND WITH EXISTING SLAB- SEE CIVIL
- SECONDARY CONTAINMENT SUMP, SIZES:  
-ROOM 101 = 3'-3" x 3'-0" x 2'-6"  
-ROOM 102 = 2'-0" x 1'-0" x 2'-6"  
-ROOM 103 = 4'-6" x 4'-0" x 2'-6"  
-ROOM 106 = 2'-0" x 1'-0" x 2'-6"
- TRENCH DRAIN- SEE STRUCTURAL
- VENTILATION HOOD DUCTING- COORD. W/ MECHANICAL
- BOLLARDS- TYP. SEE S/AIO
- EMERGENCY SHOWER/EYE WASH STATION- SEE PLUMBING
- EXISTING SLAB TO REMAIN
- NOT USED
- NEW CURB @ DOORWAY- SEE STRUCT. PROVIDE PAINTED WARNING STRIPE BOTH SIDES
- WALL-MOUNTED FIRE EXTINGUISHER
- NEW SHELVING TO MATCH EXISTING, REUSE SHELVING FROM CORROSIVES BAY AS ABLE
- STIPPLE HATCH SHOWS EXTENT OF EPOXY FLOOR COATING
- OVERBUILT CANOPY- SEE ELEVATIONS AND STRUCTURAL
- NEW ROLL-OVER CURB @ OVERHEAD DOORS, RETROFIT @ EXISTING, SEE STRUCT.
- NO CURB @ THRESHOLD
- PATCH EXISTING CEILING AND RETEXTURE

**WALL TYPES**

- NEW 2x4 OR 2x6 STUD WALL @ 16" O.C. W/ R-21 INSULATION- SEE AT FOR UPPER WALLS & AIO FOR DETAIL
- CMU TO 6'-8"
- CMU TO 6'-8" W/ 6" STUD WALL ABOVE TO 16'-0"
- NEW 8" CONCRETE FOUNDATION HALF-WALL- 90" AFF. W/ FRAMED STUD WALL @ 16" O.C. ABOVE
- EXISTING WALL TO REMAIN



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DRAWN: CJP  
CHECKED: RJC  
APPROVED: RICHARD J. COLEBURN  
DATE: 1/24/2020

NO.	REVISION DESCRIPTION	BY	DATE

4623 REGISTERED ARCHITECT

**Richard J. Coleburn**  
RICHARD J. COLEBURN  
STATE OF WASHINGTON

**GreatWest** engineering

3050 N. LAKEHARBOR LANE SUITE 201  
BOISE, ID. 83703  
(208) 676-6646

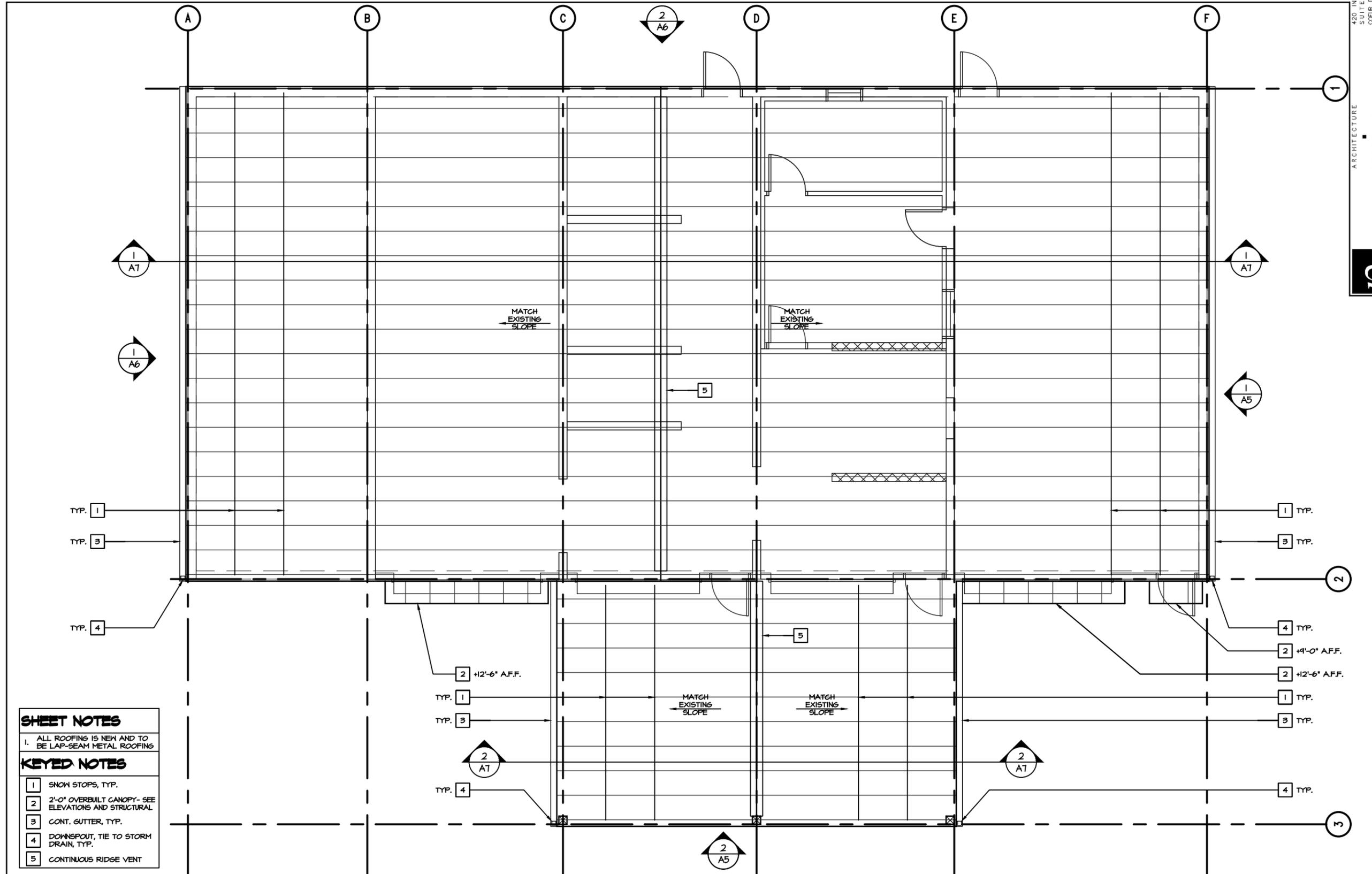
WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY  
**MRW BUILDING REMODEL**

MAIN LEVEL FLOOR PLAN

1 MAIN LEVEL FLOOR PLAN  
1/8" = 1'-0"



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- SHEET NOTES**
- ALL ROOFING IS NEW AND TO BE LAP-SEAM METAL ROOFING
- KEYED NOTES**
- SNOW STOPS, TYP.
  - 2'-0" OVERBUILT CANOPY - SEE ELEVATIONS AND STRUCTURAL
  - CONT. GUTTER, TYP.
  - DOWNSPOUT, TIE TO STORM DRAIN, TYP.
  - CONTINUOUS RIDGE VENT

1 ROOF PLAN  
1/8" = 1'-0"

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RICHARD J. COLEBURN  
STATE OF WASHINGTON

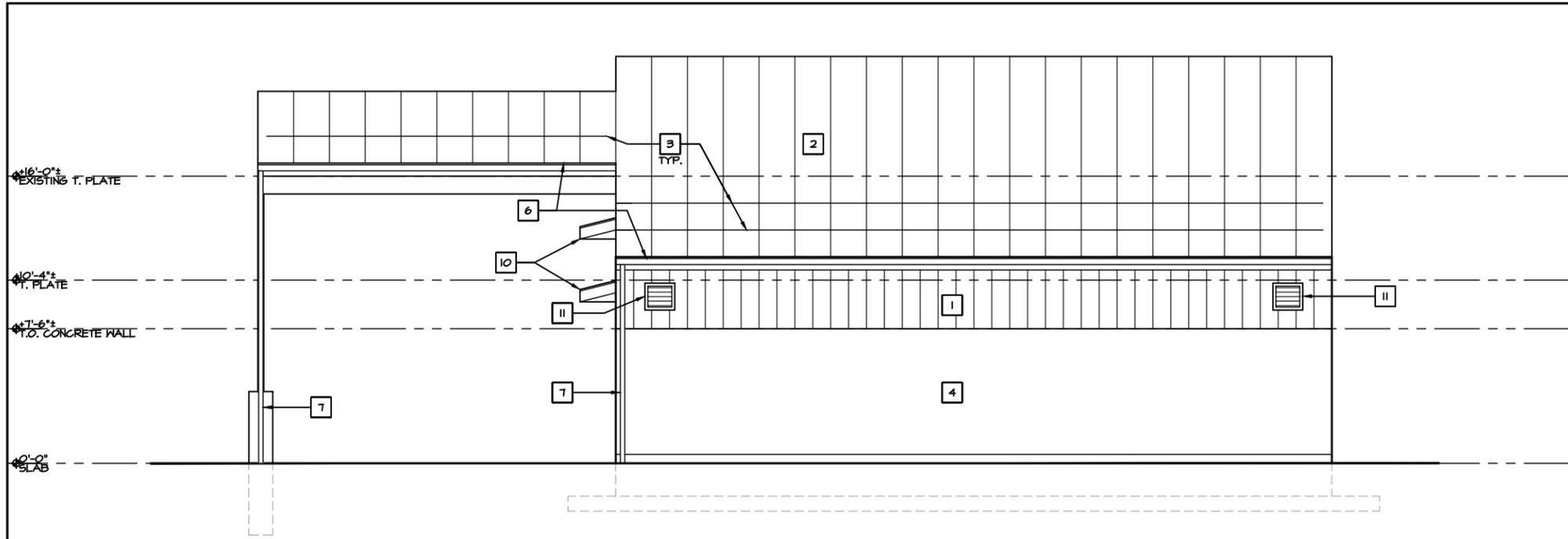
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WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY  
MRW BUILDING REMODEL  
ROOF PLAN

SHEET NO.  
**A4**  
OF 10

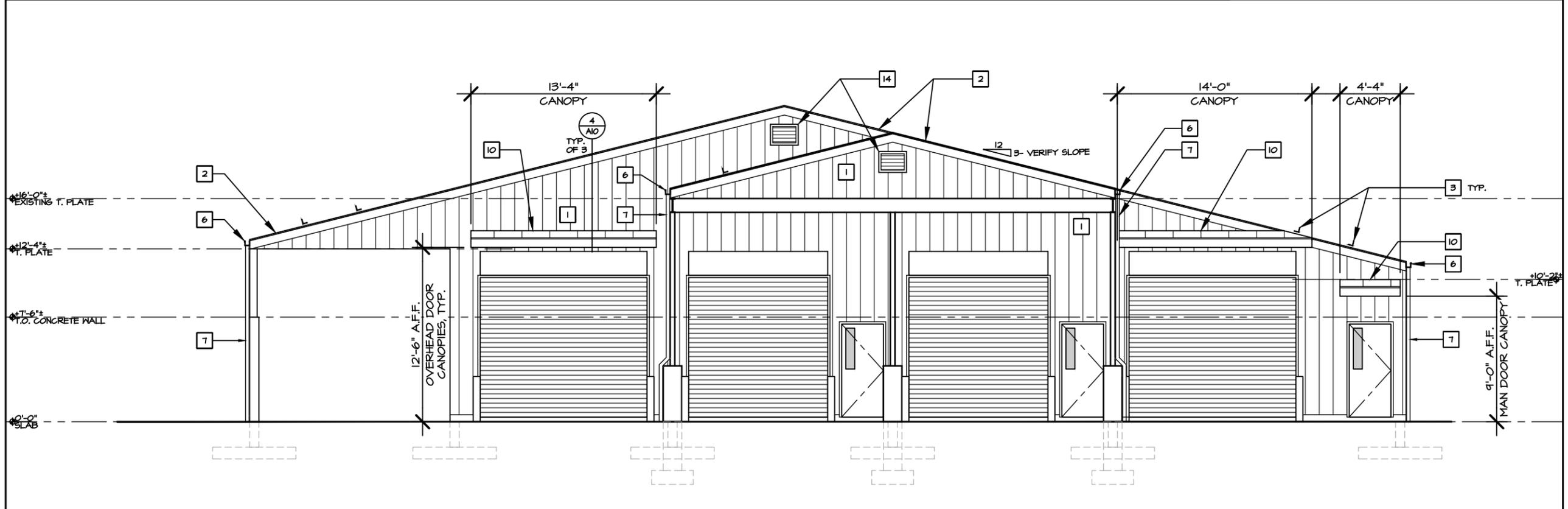


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- KEYED NOTES**
- 1 NEW METAL SIDING
  - 2 NEW METAL ROOF
  - 3 CONTINUOUS SNOW STOPS
  - 4 NEW CONCRETE
  - 5 EXISTING CONCRETE
  - 6 CONTINUOUS GUTTER
  - 7 DOWNSPOUT- TIE INTO STORM DRAIN
  - 8 NOT USED
  - 9 NOT USED
  - 10 OVERBUILT CANOPY, SEE STRUCTURAL
  - 11 MECHANICAL LOUVER, SEE MECHANICAL
  - 12 MECHANICAL DUCTING, SEE MECHANICAL
  - 13 MECHANICAL EXHAUST FAN, SEE MECHANICAL
  - 14 ATTIC VENTILATION LOUVER- 18"x24" TYP.

**1 NORTH BUILDING ELEVATION**  
1/8" = 1'-0"



**2 EAST BUILDING ELEVATION**  
1/8" = 1'-0"

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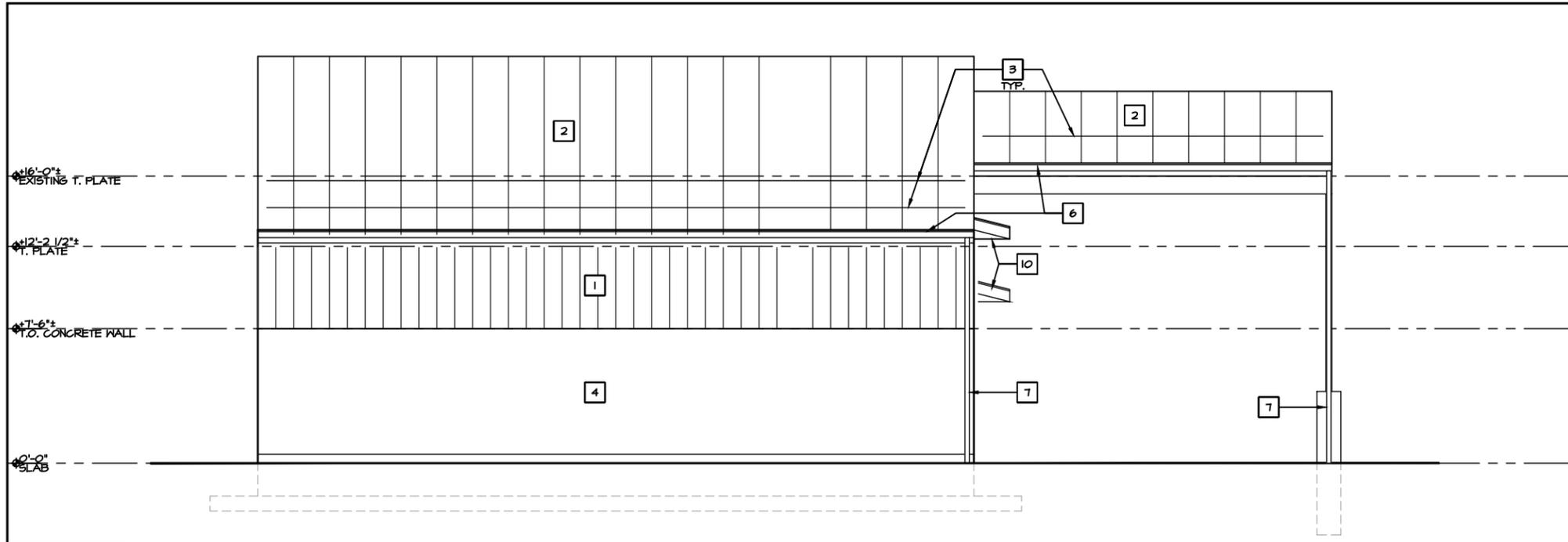
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**WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY MRW BUILDING REMODEL**  
BUILDING ELEVATIONS



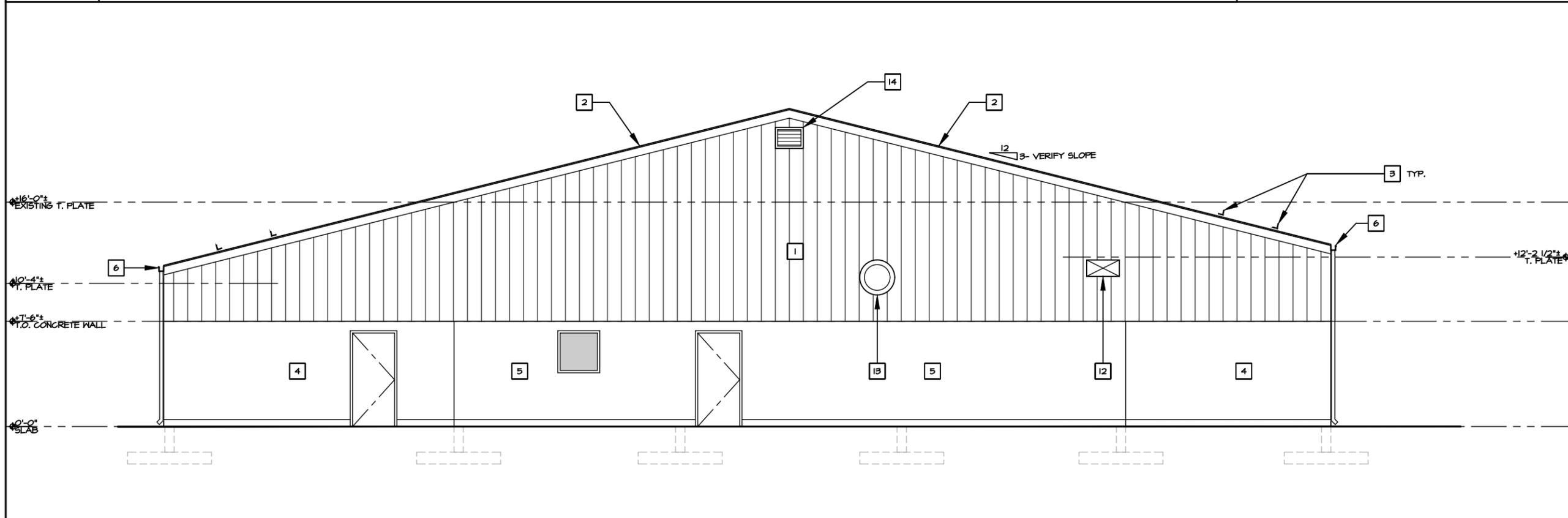
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**KEYED NOTES**

- 1 NEW METAL SIDING
- 2 NEW METAL ROOF
- 3 CONTINUOUS SNOW STOPS
- 4 NEW CONCRETE
- 5 EXISTING CONCRETE
- 6 CONTINUOUS GUTTER
- 7 DOWNSPOUT- TIE INTO STORM DRAIN
- 8 NOT USED
- 9 NOT USED
- 10 OVERBUILT CANOPY, SEE STRUCTURAL
- 11 MECHANICAL LOUVER, SEE MECHANICAL
- 12 MECHANICAL DUCTING, SEE MECHANICAL
- 13 MECHANICAL EXHAUST FAN, SEE MECHANICAL
- 14 ATTIC VENTILATION LOUVER- 18"x24" TYP.

**1 SOUTH BUILDING ELEVATION**  
1/8" = 1'-0"



**2 WEST BUILDING ELEVATION**  
1/8" = 1'-0"

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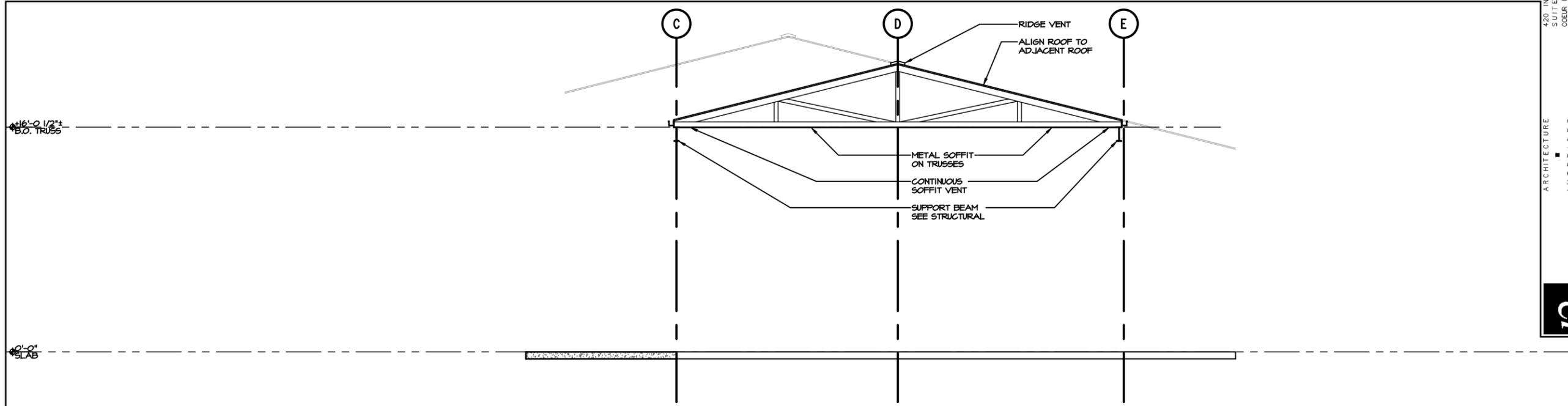
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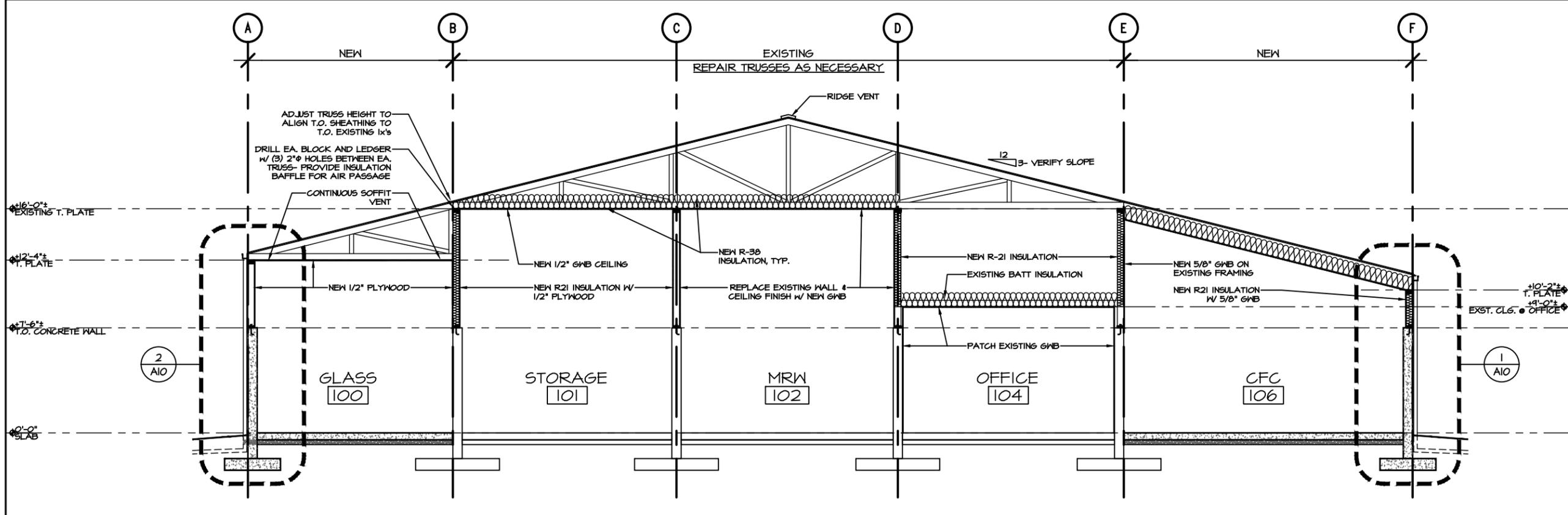
**WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY MRW BUILDING REMODEL**  
BUILDING ELEVATIONS



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**2 SECTION @ CANOPY**  
1/8" = 1'-0"



**1 BUILDING SECTION**  
1/8" = 1'-0"

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4623 REGISTERED ARCHITECT  
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**WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY MRW BUILDING REMODEL**  
BUILDING SECTIONS

SHEET NO.  
**A7**  
OF 10



**DOOR SCHEDULE** ALL DOORS (INT. & EXT.) TO BE KEYED SAME

DOOR										
MARK	SIZE	TYPE	THICKNESS	CONSTRUCTION	FINISH	GLASS	FIRE RATINGS	FRAME		NOTES
101A	12'-0"x10'-0"	B	-	O.H. COILING	FF			-	-	
102A	10'-0"x10'-0"	B	-	O.H. COILING	FF			-	-	
102B	3'-0"x6'-8"	A	1 3/4"	IHM	MP	INT		HM	MP	
103A	10'-0"x10'-0"	B	-	O.H. COILING	FF			-	-	
103B	3'-0"x6'-8"	A	1 3/4"	IHM	MP	INT		HM	MP	
104A	3'-0"x6'-8"	A	1 3/4"	IHM	MP	INT		HM	MP	
106A	12'-0"x10'-0"	B	-	O.H. COILING	FF			-	-	
106B	3'-0"x6'-8"	A	1 3/4"	IHM	MP	INT		HM	MP	
106C	3'-0"x6'-8"	A	1 3/4"	IHM	MP	INT		HM	MP	

**ROOM FINISH SCHEDULE**

ROOM NUMBER	ROOM NAME	FLR./BASE	WALLS				CLS.	CLS. HEIGHT	REMARKS
			N	S	E	W			
100	GLASS	4	B	B	G	B	5	12'-0"	
101	DRY & BULKED CHEMICAL STORAGE	1	F	F	G	F	2	16'-0"	
102	MRM PROCESSING	1	D	D	A	D	1	16'-0"	NOTE 1
103	MRM PROCESSING	1	D	D	A	D	1	16'-0"	NOTE 1
104	OFFICE	3	E	E	A	E	4	9'-0"	
105	MECHANICAL/RESTROOM	3	E	E	E	E	4	9'-0"	
106	REFRIGERANT/GFC REMOVAL	4	C	C	C	C	3	VARIES	

**DOOR & WINDOW KEY**

DOOR CONSTRUCTION	
MARK	DESCRIPTION
HM	HOLLOW METAL
AL	ALUMINUM W/ GLAZING
SC	SOLID CORE WOOD
OH	METAL OVERHEAD
DOOR FACING/FINISH	
MARK	DESCRIPTION
MP	METAL / PAINT
FF	FACTORY FINISH
GLASS	
MARK	DESCRIPTION
IN	INSULATED DOUBLE PANE TEMPERED
T	1/4" TEMPERED GLASS
FRAME TYPE	
MARK	DESCRIPTION
HM	HOLLOW METAL
FRAME FINISH	
MARK	DESCRIPTION
MP	METAL PAINT
FF	FACTORY FINISH

**ROOM FINISH KEY**

FLOOR/BASE	
MARK	DESCRIPTION
1	RESINOUS PAINT- FLOOR & BASE
2	NOT USED
3	REMOVE EXISTING COATING, PREP, PAINT EXISTING CONCRETE, RUBBER BASE
4	SEALED CONCRETE
WALLS	
MARK	DESCRIPTION
A	NEW GYPSUM WALL BOARD (GWB), PAINT
B	NEW PLYWOOD ON STUDS, PAINT
C	GWB ABOVE, PAINT
D	DEMO EXISTING, NEW GWB, PAINT
E	EXISTING GWB, PATCH/REPAIR, NEW PAINT
F	DEMO EXISTING, NEW PLYWOOD, PAINT
G	NEW PLYWOOD, PAINT
CEILING	
MARK	DESCRIPTION
1	DEMO EXISTING, NEW GWB, PAINT
2	NEW GWB ON NEW TRUSSES, PAINT
3	NEW GWB ON NEW JOISTS, PAINT
4	EXISTING GWB, PATCH/REPAIR, NEW TEXTURE & PAINT
5	NEW PLYWOOD
EXST	EXISTING TO REMAIN, NO NEW FINISH
NOTES	
1.	PAINT NEW @ EXISTING CMU WALLS



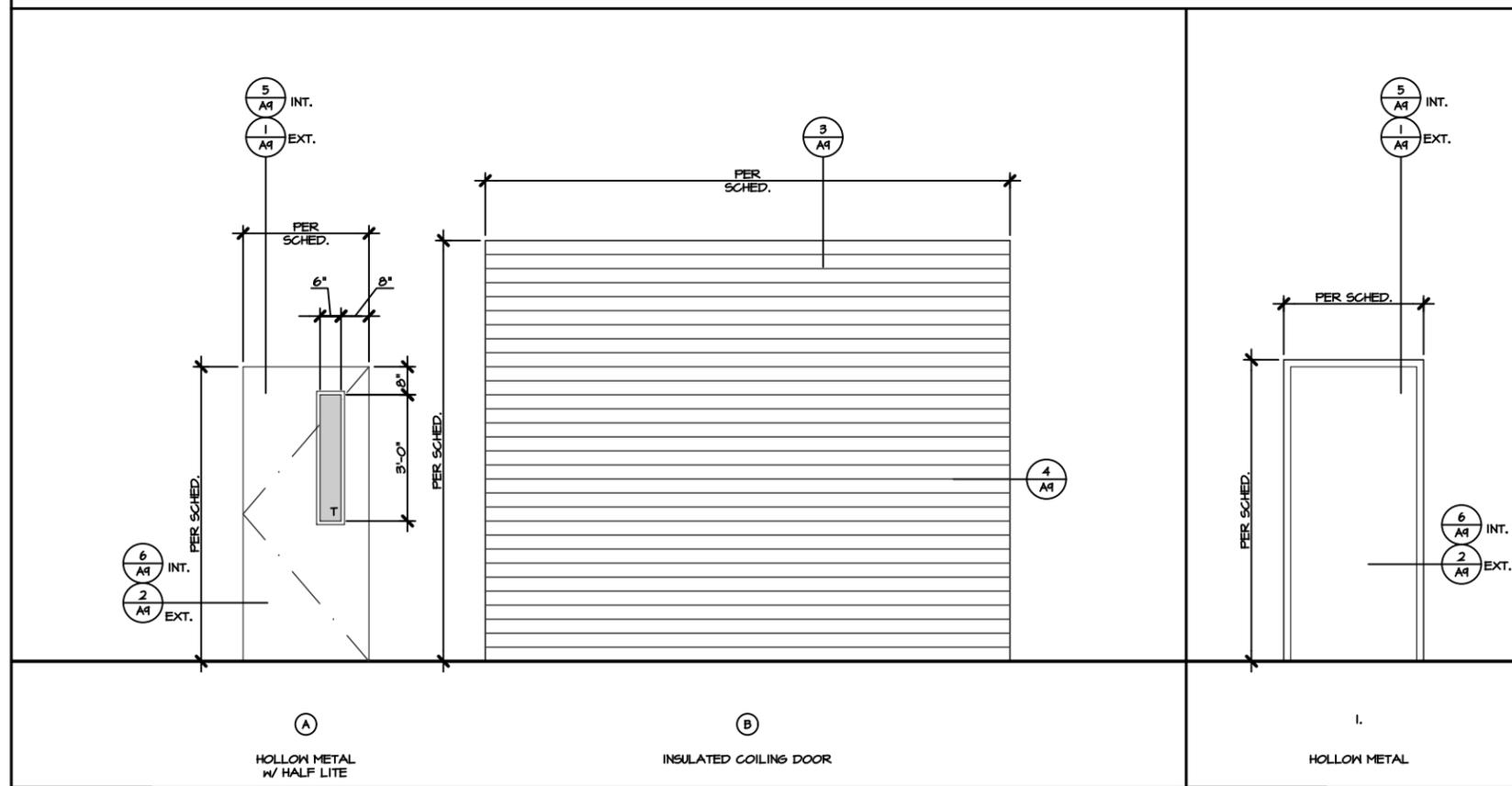
420 INDIANA SUITE 100 COEUR D'ALENE IDAHO 83814 (208) 667-5430 FAX 667-4693  
ARCHITECTURE INTERIORS PLANNING

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 1920	DESIGNED: RJC
DRAWN: CJP	CHECKED: RJC
APPROVED: RJC	DATE: 1/24/2020



**WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY MRW BUILDING REMODEL**  
DOOR & FINISH SCHEDULES

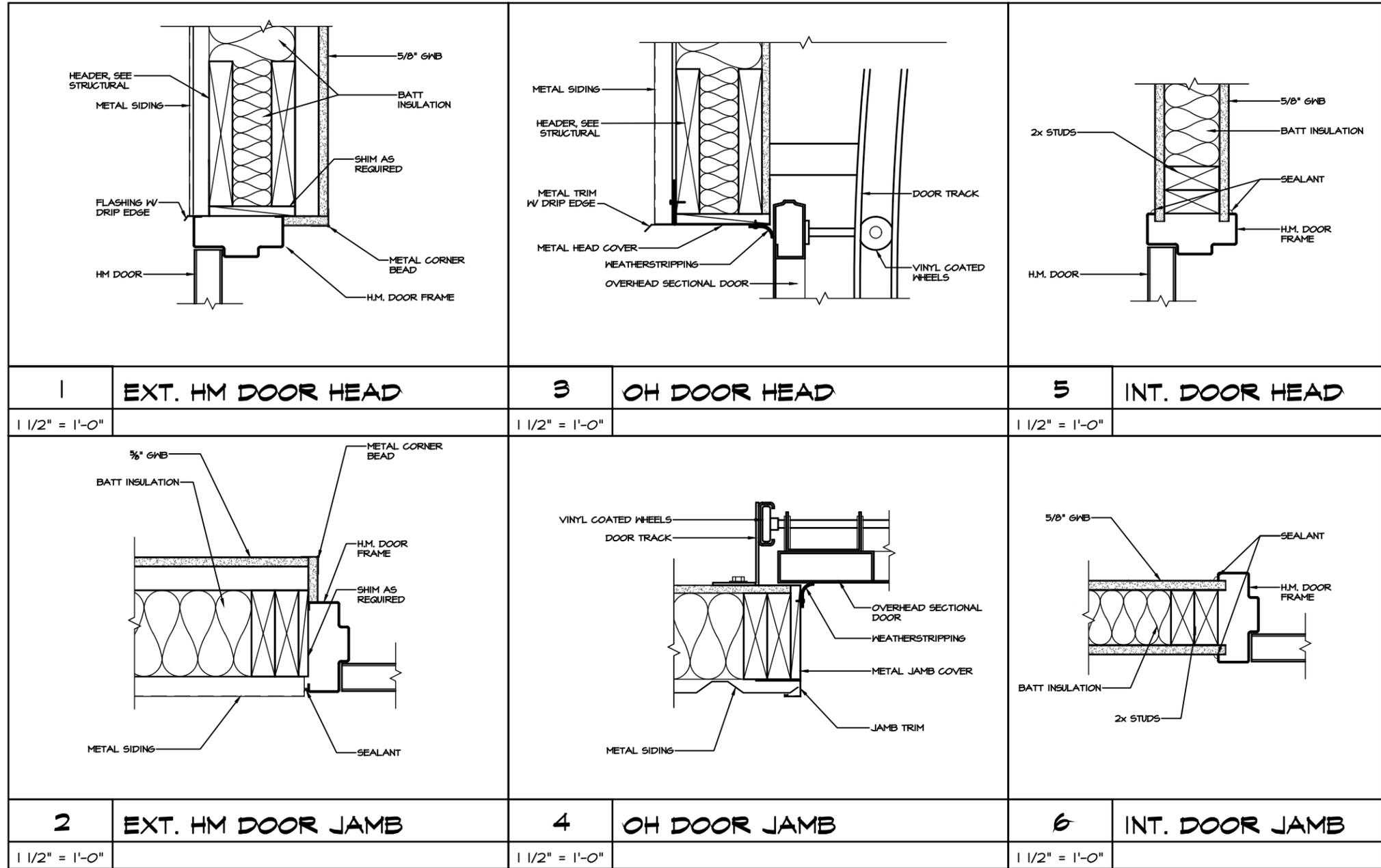


1	<b>DOOR TYPES</b>	2	<b>FRAME TYPES</b>
1/4" = 1'-0"		1/4" = 1'-0"	

S:\H2A Projects\1920 Whitman County MRW Facility\Drawings\Whitman County MRW Facility\Sheets\A8 Door & Finish Schedules.dwg



S:\H2A Projects\1920 Whitman County MRW Facility\Drawings\Whitman County MRW Facility\Sheets\A9 Door & Window Details.dwg



420 INDIANA SUITE 100 COEUR D'ALENE IDAHO 83814 (208) 667-5430 FAX 667-4693

ARCHITECTURE INTERIORS PLANNING

PROJECT: 1856	DESIGNED:	DRAWN: CJP	CHECKED: RJC	APPROVED:	DATE: 1/24/2020
REVISION DESCRIPTION	NO.	BY	DATE		
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	2				
	3				
	4				
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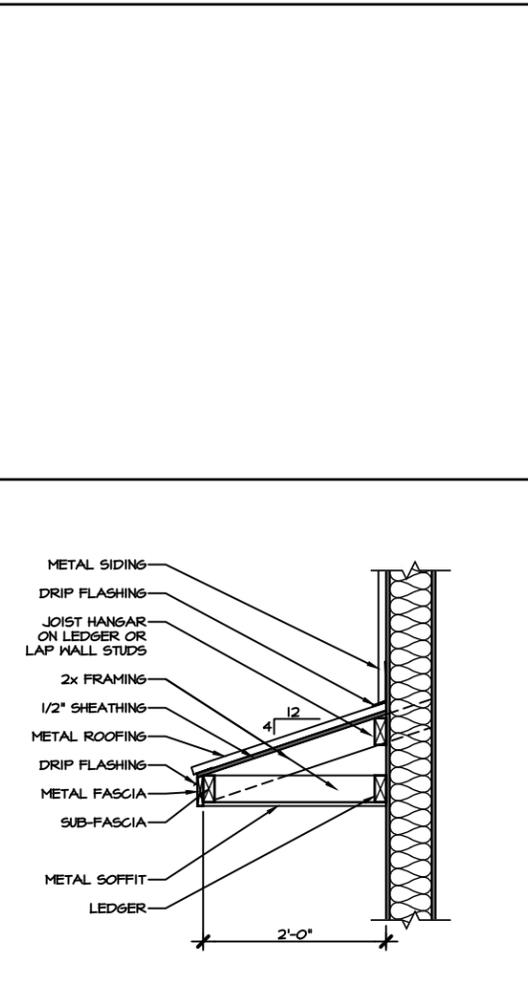
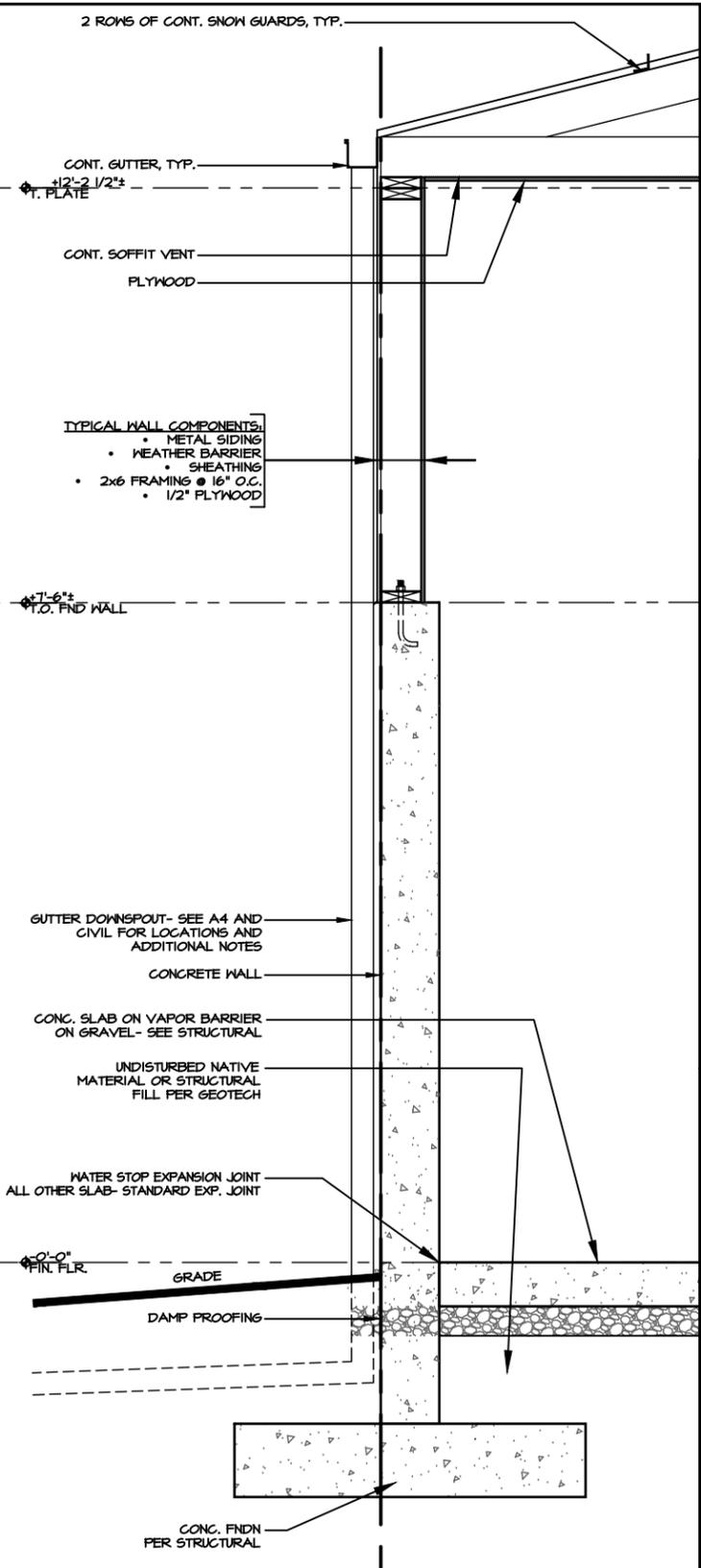
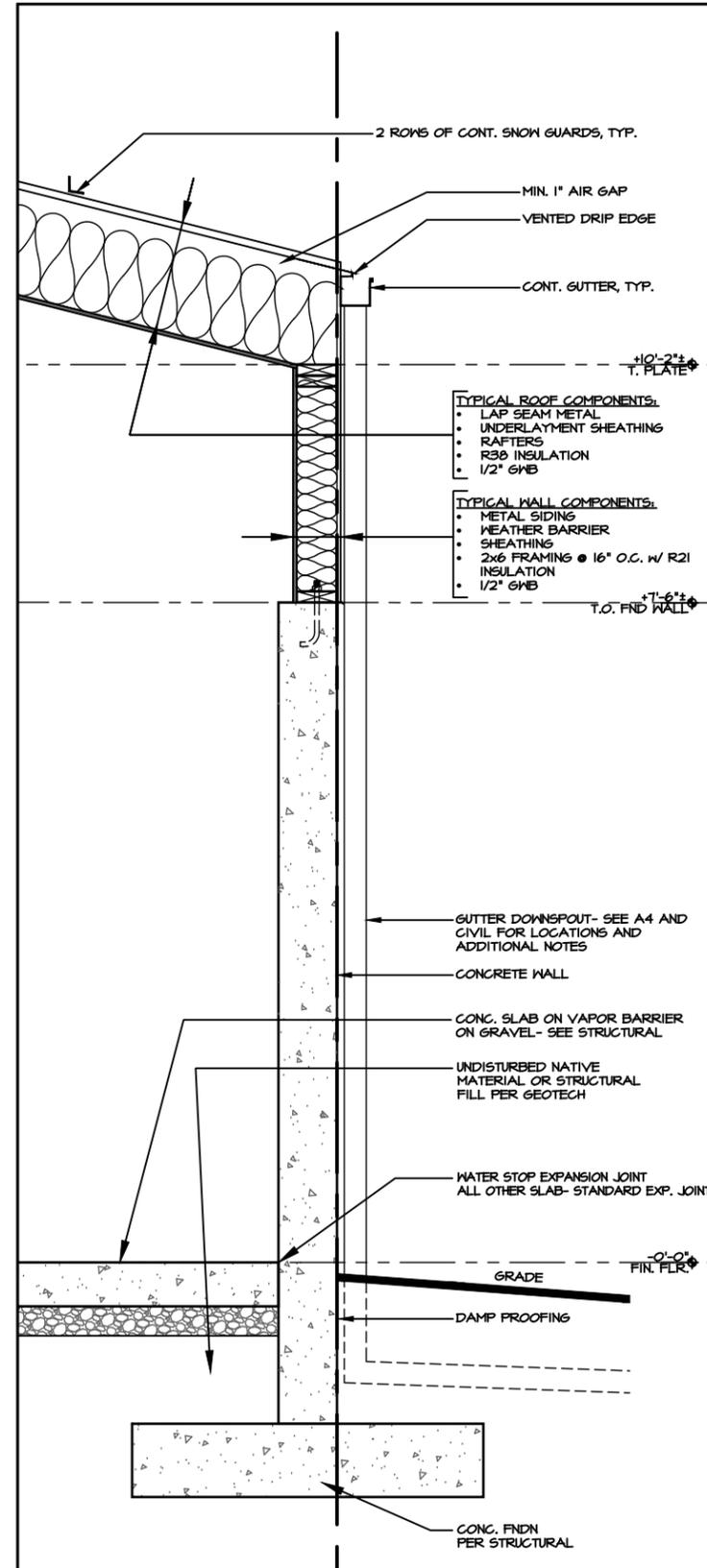


**WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY MRW BUILDING REMODEL**

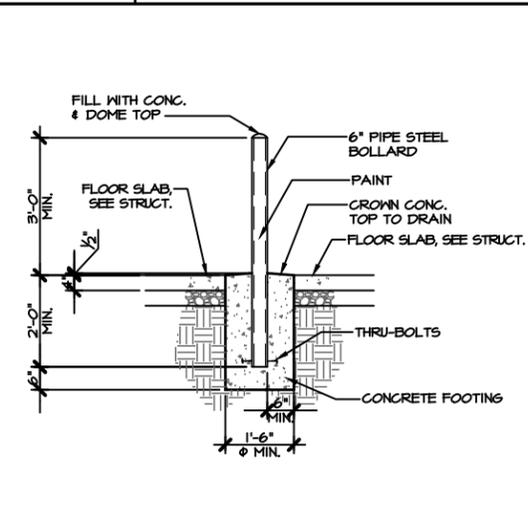
DOOR & WINDOW DETAILS



S:\H2A Projects\1920 Whitman County MRW Facility\Drawings\Whitman County MRW Facility\Sheets\A10 Misc. Details, Wall Sections.dwg



**4 OVERBUILT CANOPY**  
1/2" = 1'-0"



**3 BOLLARD**  
1/4" = 1'-0"

**1 NORTH WALL SECTION**  
1/2" = 1'-0" SEE STRUCTURAL FOR ADDITIONAL INFORMATION

**2 SOUTH WALL SECTION**  
1/2" = 1'-0" SEE STRUCTURAL FOR ADDITIONAL INFORMATION

420 INDIANA SUITE 100 COEUR D'ALENE IDAHO 83814 (208) 667-5430 FAX 667-4693  
ARCHITECTURE INTERIORS PLANNING  
**h2a** ARCHITECTS P.A.

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 1920  
DESIGNED: [ ]  
DRAWN: CJP  
CHECKED: RJC  
APPROVED: [ ]  
DATE: 1/24/2020



**WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY MRW BUILDING REMODEL**  
MISC. DETAILS, WALL SECTIONS



**STRUCTURAL NOTES**

1. GENERAL:
  - A. DESIGN IS IN ACCORDANCE WITH 2015 INTERNATIONAL BUILDING CODE.
  - B. THE ADDITION IS DESIGNED AS A COMPLETE STRUCTURAL UNIT INTEGRAL WITH THE EXISTING AND THE CONTRACTOR SHALL SUPPORT ALL PORTIONS OF NEW AND EXISTING AS NECESSARY UNTIL THE ENTIRE CONSTRUCTION IS COMPLETE. PROTECT ALL EXISTING CONSTRUCTION AND MAKE NO CUTS OR ALTERATIONS TO EXISTING STRUCTURAL MEMBERS WITHOUT APPROVAL BY ENGINEER. VERIFY ALL DIMENSIONS AND CONDITIONS OF EXISTING STRUCTURE.
  - C. VERIFY ALL DIMENSIONS IN THE FIELD.
  - D. ALL TRADES SHALL COORDINATE AND VERIFY ALL OPENINGS IN FLOORS, ROOF, WALLS AND BEAMS WITH THE GENERAL CONTRACTOR.
  - E. SHOP DRAWINGS SHALL BE FURNISHED FOR REVIEW BEFORE ANY FABRICATION OR ERECTION ARE STARTED.
2. DESIGN LOADS:
  - A. VERTICAL: (NOTE: SNOW EXPOSURE, IMPORTANCE, AND THERMAL FACTORS ALL= 1.0)
 

ROOF SNOW LOAD	30 PSF
ROOF DEAD LOAD	14 PSF
  - B. HORIZONTAL:
    - (1) WIND
 

BASIC WIND SPEED =	110 MPH (3 SECOND GUST)
EXPOSURE	C
IMPORTANCE FACTOR =	1.0
    - (2) SEISMIC
 

SEISMIC USE GROUP I ; DESIGN CATEGORY C; SITE CLASS D; DESIGN BASE SHEAR =	2.9K
IMPORTANCE FACTOR =	1.1
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE, SDs=	30.9%, SD1= 17.2%
C. MAXIMUM ALLOWABLE SOIL BEARING PRESSURE:	2000 PSF
3. FOUNDATIONS:
  - A. FOOTINGS SHALL BEAR ON NATIVE SOILS OR ON GRANULAR ENGINEERED FILL COMPACTED TO A MIN. 95% OF ITS MAXIMUM DRY DENSITY DETERMINED BY ASTM D 1557 (MODIFIED PROCTOR). REMOVE ALL UNCONTROLLED FILL DOWN TO UNDISTURBED NATIVE SOILS AND REPLACE WITH STRUCTURAL FILL BENEATH ALL FOOTINGS AND SLABS ON GRADE. REFER TO GEOTECHNICAL ENGINEERING EVALUATION BY WHITMAN COUNTY PUBLIC WORKS DATED MARCH 3, 2020.
4. MATERIALS:
  - A. CAST-IN-PLACE CONCRETE:
    - (1) HARDROCK CONCRETE (UNIT WT. = 150 PCF)
      - (A)  $f'_c = 4000$  PSI @ 28 DAYS - ALL CAST-IN-PLACE CONCRETE INCLUDING FOOTINGS, STEM WALLS, AND SLABS ON GRADE.
      - (B) CONFORM TO ACI 301.
      - (C) CHAMFERS ARE REQUIRED AT SOME LOCATIONS BUT NOT SHOWN - SEE ARCHITECTURAL SHEETS.
  - B. MASONRY:
    - (1) ALL CONCRETE BLOCK MASONRY UNITS SHALL BE TYPE I, GRADE N UNITS WITH TYPE S MORTAR. INSTALLED COMPRESSIVE STRENGTH SHALL BE  $F_m=1500$  PSI.
    - (2) ALL HOLLOW MASONRY TO BE REINFORCED SHALL BE MARKED WITH KEEL AT THE BOTTOM OF THE WALL AT THE CELLS WHERE DOWELS OCCUR OR REBAR IS TO BE PLACED AND GROUTED.
    - (3) FILL ALL BOND BEAMS, LINTELS, CORES, GROUTED COLLARS AND CELLS CONTAINING REINF. OR BOLTS WITH GROUT PLACED IN 4'-0" MAX. LIFTS.
    - (4) UNLESS SHOWN OTHERWISE, REINFORCE ALL CMU HORIZONTALLY WITH WIRE REINFORCING AT 16" O.C.
- C. REINFORCING STEEL:
  - (1) ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60, EXCEPT GRADE 40 MAY BE USED FOR TIES AND STIRRUPS.
  - (2) WHERE LAPPED SPLICES IN REINFORCING OCCUR, THE MINIMUM LAP SHALL BE MADE AS FOLLOWS UNLESS NOTED OTHERWISE:
    - (A) BAR SPLICES IN CONCRETE: 38 BAR DIA. OR 18" MINIMUM.
    - (B) BAR SPLICES IN MASONRY: 40 BAR DIA. OR 20" MINIMUM.
  - (3) PROVIDE CORNER BARS TO MATCH HORIZONTAL BARS IN ALL WALLS AND FOOTINGS.
  - (4) PROVIDE ALL CHAIRS, SUPPORTS, TIE BARS, ETC., NECESSARY TO HOLD MAIN REINFORCING IN PLACE.
  - (5) REINFORCING SHOWN IN SECTION APPLIES FOR FULL LENGTH OF WALL OR SLAB.
  - (6) LOCATE REINFORCING AT SURFACE SHOWN WITH COVER OF 1 1/2" AT FORMED SURFACES IN CONTACT WITH DIRT AND 3" AT BOTTOM OF FOOTINGS. LOCATE REINFORCING AT CENTER WHERE NOT OTHERWISE INDICATED.
  - (7) UNLESS SHOWN OTHERWISE, PROVIDE 2-#5 OVER AND EACH SIDE OF WALL OPENINGS AND EXTEND 1'-6" PAST OPENING.
- D. STRUCTURAL AND MISCELLANEOUS STEEL:
  - (1) STRUCTURAL STEEL BEAMS SHALL BE CERTIFIED TO ASTM A992 GRADE 50, OTHER SHAPES AND PLATES SHALL CONFORM TO ASTM A36.
  - (2) USE ASTM A500 GRADE B TUBING AND ASTM A53 TYPE S GRADE B PIPE.
  - (3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE ARCHITECTURAL DRAWINGS FOR ALL MISCELLANEOUS STEEL.
  - (4) BOLTS SHALL CONFORM TO ASTM A325 HIGH STRENGTH BOLTS UNLESS NOTED OTHERWISE, WITH SIZES AS SHOWN ON THE DRAWINGS.
  - (5) ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS AND SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS OF THE AWS AND AISC. INSPECT ALL WELDING IN ACCORDANCE WITH THE SPECIFICATIONS.
  - (6) DO NOT WELD TRANSVERSE TO THE AXIS OF ANY MEMBER UNLESS THE MEMBER IS ADEQUATELY SHORED FOR LOSS OF STRENGTH DURING WELDING.
- E. ANCHOR BOLTS:
  - (1) ASTM F1554 GRADE 36 HEADED ANCHOR BOLTS. BOLTS MUST MEET THE MINIMUM HEAD DIMENSIONS PER ACI 318-12. EMBED 8 INCHES OR MORE.
  - (2) DO NOT SUBSTITUTE EXPANSION OR EPOXY ANCHORS FOR ANCHOR BOLTS UNLESS APPROVED BY THE ENGINEER.
- F. WOOD FRAMING:
  - (1) ALL FRAMING SHOWN ON STRUCTURAL PLANS IS LOAD BEARING WOOD FRAMING. USE HEM FIR GRADED IN ACCORDANCE WITH WMPA TO #2 OR BETTER.
  - (2) USE APA RATED PLYWOOD AS FOLLOWS:
    - (A) ROOF: 5/8" 32/16 CD EXT RATED SHEATHING.
    - (B) WALLS: 15/32" 32/16 CD EXT RATED SHEATHING.
  - (3) PLACE ROOF SHEATHING WITH FACE GRAIN PERPENDICULAR TO SUPPORTS AND JOINTS STAGGERED OVER SUPPORTS. PLACE WALL SHEATHING WITH FACE GRAIN VERTICAL. NAIL ROOF SHEATHING WITH 10d NAILS, DO NOT STAPLE. NAIL PER SCHEDULE UNLESS SHOWN OTHERWISE:
    - (A) ROOF SHEATHING: FASTEN SHEATHING AT 6" ALONG TOP OF EXT. WALLS, 6" ALONG ALL OTHER PLYWOOD PIECE EDGES AND 12" ALONG INTERMEDIATE SUPPORTS.
    - (B) WALL SHEATHING: U.N.O. FASTEN AT 6" ALONG TOP AND BOTTOM OF WALLS AT PLATES, 6" AT VERTICAL EDGES AND HORIZONTAL JOINTS, AND 12" AT INTERMEDIATE SUPPORTS. PROVIDE SOLID BLOCKING AT ALL HORIZONTAL PLYWOOD JOINTS.

- (4) ALL BUILT-UP WOOD BEAMS ARE TO BE MADE FROM STRUCTURAL LUMBER PIECES THAT ARE UNSPLICED FULL LENGTH, BEARING TO BEARING. ALL BEAMS BEAR FULL ON POSTS SHOWN.
  - (5) PROVIDE WASHERS AT EACH END OF ALL BOLTS NOT THROUGH STEEL SIDE PLATES. NAIL ALL HOLES OF FRAMING DEVICES WITH NAILS APPROPRIATE TO DEVICE DESIGN. PRE- DRILL HOLES FOR ALL LAG BOLTS WITH SIZE AS NECESSARY TO PREVENT WOOD SPLITTING.
  - (6) PRESSURE TREAT ALL LUMBER IN CONTACT WITH CONCRETE OR WITHIN 6" OF GROUND. PLACE SOLID BLOCKING BETWEEN JOIST BEARINGS OVER ALL SUPPORTING BEAMS OR WALLS. FOR ALL NAILING NOT SHOWN OTHERWISE, CONFORM TO IBC TABLE 2304.9.1
- G. WOOD I-JOISTS:
- (1) USE PRE-MANUFACTURED JOISTS MANUFACTURED BY TRUSS JOIST (OR EQUAL) JOIST SIZE AND SPACING SHALL BE AS NOTED ON PLANS. SUBSTITUTE JOISTS MUST BE APPROVED BY STRUCTURAL & MECHANICAL ENGINEERS TO INSURE SUPPORT FOR MECHANICAL EQUIPMENT.
  - (2) NAILING AND FASTENING SHALL BE PER MANUFACTURERS RECOMMENDATIONS, UNLESS NOTED OTHERWISE.
- H. JOIST HANGERS:
- (1) SHALL BE BY SIMPSON CO. OR AN APPROVED EQUAL, WITH CONNECTIONS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- I. WOOD TRUSSES:
- (1) USE METAL PLATE CONNECTED WOOD TRUSSES DESIGNED, ERECTED, AND BRACED IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE FOR THE FOLLOWING LOADS:
 

TOP CHORD LIVE LOAD	25 PSF SNOW
TOP CHORD DEAD LOAD	7 PSF
BOTTOM CHORD DEAD LOAD	5 PSF
  - (2) DESIGN TRUSSES FOR NET WIND UPLIFT OF 14 PSF.
  - (3) DESIGN TRUSSES FOR UNBALANCED SNOW LOAD AS REQUIRED.

NOTE: SPECIAL INSPECTIONS ARE OWNER REQUIREMENTS AND ARE IN ADDITION TO AND SEPARATE FROM TESTING AND INSPECTIONS BY CONTRACTOR. CONTRACTOR TO REFER TO SPECIFICATIONS FOR CONTRACT REQUIREMENTS. CONTRACTOR SHALL COORDINATE WITH ALL SPECIAL INSPECTIONS AS REQUIRED.

**SPECIAL INSPECTION**

THE FOLLOWING SPECIAL INSPECTIONS ARE REQUIRED PER CHAPTER 17 OF THE 2015 IBC, AND ARE TO BE PERFORMED UNDER SEPARATE CONTRACT BY QUALIFIED AGENCIES RETAINED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE ARCHITECT/ENGINEER INFORMED OF WORK PROGRESS AS IT PERTAINS TO SPECIAL INSPECTION. DO NOT CONCEAL WORK REQUIRING SPECIAL INSPECTION UNTIL THE INSPECTION HAS BEEN PERFORMED. THESE INSPECTIONS PERTAIN TO THE OWNER AND DO NOT EFFECT THE CONTRACTORS TESTING AND INSPECTION REQUIREMENTS AS OUTLINED IN THE SPECIFICATIONS.

- (1) INSPECTION OF FABRICATORS
  - (A) STRUCTURAL STEEL
  - (B) PRE-FABRICATED WOOD STRUCTURAL ELEMENTS
- (2) STEEL CONSTRUCTION: PERIODIC INSPECTIONS REQUIRED:
  - (A) MATERIAL VERIFICATIONS
  - (B) FILLET WELDS
  - (C) INSTALLATION OF HIGH STRENGTH BOLTS
- (3) CONCRETE CONSTRUCTION, PERIODIC INSPECTIONS REQUIRED:
  - (A) MATERIAL AND MIX DESIGN VERIFICATION
  - (B) REINFORCING STEEL PRIOR TO CONCRETE PLACEMENT
  - (C) EPOXY ANCHORS AND EPOXIED REINFORCING
  - (D) BOLTS AND EMBEDS PRIOR TO AND DURING CONCRETE PLACEMENT
- (4) SOILS\*:
 

PERIODIC INSPECTIONS OF:

  - (A) SITE PREPARATION AND EXCAVATION IN ACCORDANCE WITH GEOTECHNICAL REPORT
  - (B) CLASSIFICATION AND DENSITY COMPLIANCE OF IN-PLACE FILL MATERIALS WITH GEOTECHNICAL REPORT
  - (C) VERIFICATION OF SUBGRADE PRIOR TO PLACEMENT OF COMPACTED FILL

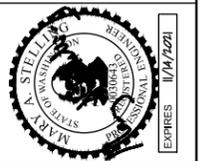
CONTINUOUS INSPECTION OF:

  - (A) PLACEMENT AND COMPACTION OF FILL PER GEOTECHNICAL REPORT

\*NOTE: CONTRACTOR SHALL PROVIDE OWNER WITH COPIES OF GEOTECHNICAL OBSERVATIONS, DENSITY TESTS, ETC. THAT ARE REQUIRED AS OUTLINED IN THE SPECIFICATIONS.

NO.	REVISION DESCRIPTION	BY	DATE

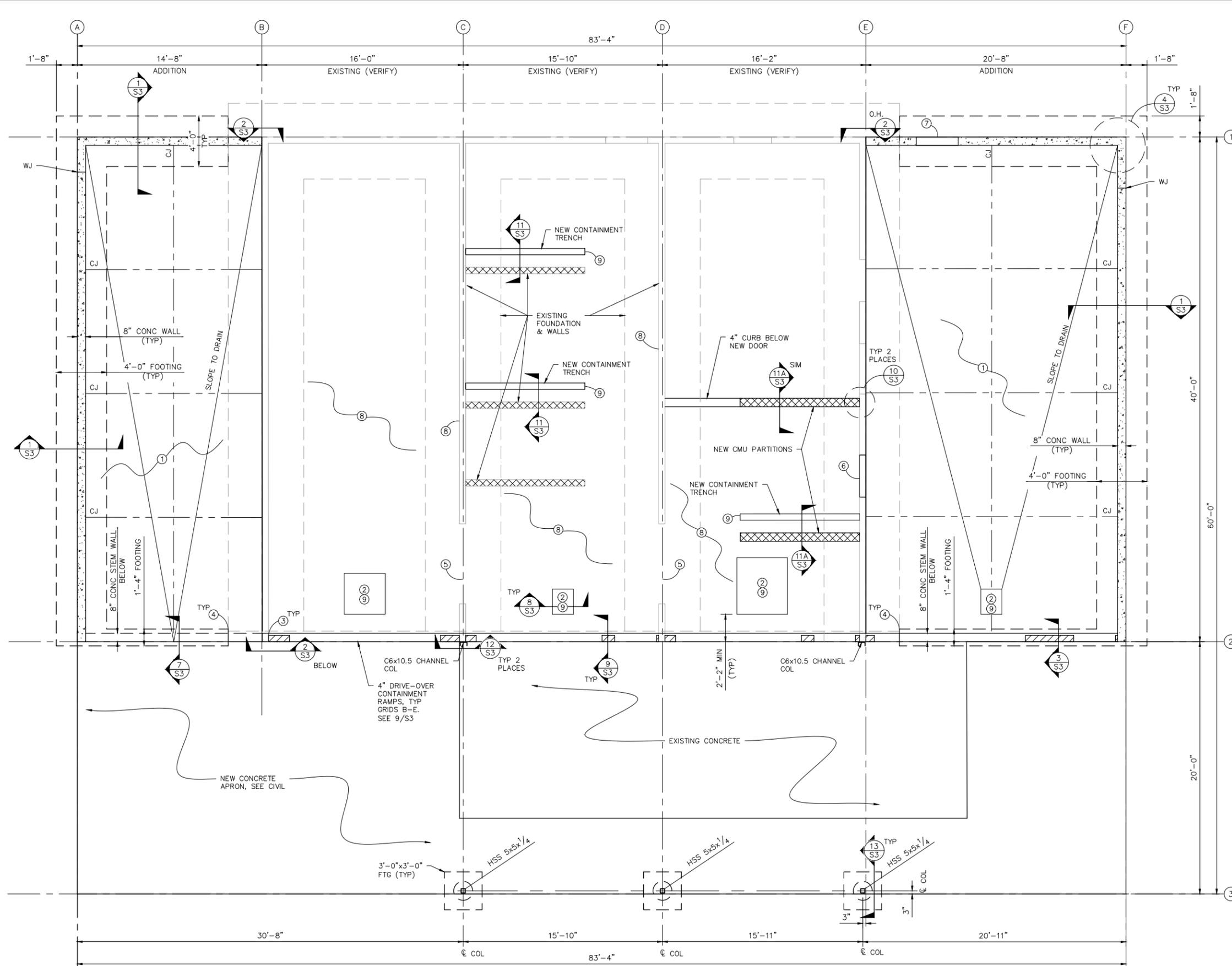
PROJECT: 4-19110
DESIGNED: MAS.KOO
DRAWN: PKS
CHECKED: MAS
APPROVED: MAS
DATE: MARCH 4, 2020



**WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY MRW BUILDING REMODEL**  
**STRUCTURAL NOTES & SPECIAL INSPECTION**



M:\4-19110-Whitman County MRW\CADD\4-19110\_Sheets\Structural\4-19110 PLANS.dwg



- ### KEYED NOTES
- 6" SLAB ON GRADE OVER 8" GRAVEL. SEE GEOTECH REPORT. REINFORCE SLAB W/ #4'S AT 18" O.C. EA. WAY. REINFORCING SHALL BE PLACED AT THE MIDDLE OF THE SLAB.
  - SECONDARY CONTAINMENT SUMP. SEE ARCH FOR SIZE. SEE DETAIL 8 & 9/S3.
  - FASTEN DOUBLE STUD 2x6 WALLS TO EXISTING CONCRETE WALLS W/ 1/2" EPOXY BOLTS @ 24" O.C. SEE DETAIL 12/S3 SIM.
  - DOWEL NEW FOOTING AND STEM WALL INTO EXISTING, SEE DETAIL 2/S3 SIM.
  - NEW WALK-THROUGH OPENING IN CONCRETE WALLS. SEE ARCH FOR SIZE. SAWCUT OPENING LEAVING 8" MIN CONCRETE OVERHEAD. SEE ROOF FRAMING PLAN.
  - INFILL EXISTING OPENING W/ NEW CONCRETE REINFORCED W/ #5 BARS @ 16" O.C. EACH WAY. DOWEL INTO EXISTING CONCRETE W/ MIN 6" EMBED. SEE DETAIL 2/S3 SIM.
  - DOOR OPENING IN CONCRETE WALL. REINFORCE PER DETAIL 10/S4.
  - REPAIR & SEAL DAMAGED CONCRETE FLOOR AND WALLS, SEE SPECS.
  - PROVIDE ALUMINUM GRATING IN LIFTABLE SECTIONS OVER CONTAINMENT SUMPS AND TRENCHES. GRATING TO BE CAPABLE OF SUPPORTING TYPICAL FORK LIFT LOADS.

- ### LEGEND
- CJ CONTRACTION JOINT, SEE DETAIL 5/S3
  - WJ WALL CONSTRUCTION JOINT, CONTRACTOR'S OPTION FOR LOCATIONS, SEE DETAIL 6/S3
  - OH OPPOSITE HAND
  - 2x6 WALLS
  - NEW CONCRETE WALLS
  - EXISTING CMU PARTITION WALLS
  - NEW CMU PARTITION WALLS

## FOUNDATION & SLAB PLAN

SCALE: 1/8" = 1'-0" REF F.F. EL. = 100'-0" = ACTUAL EL. = 2386.0, SEE SITE PLAN



NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-19110  
 DESIGNED: MAS, KOO  
 DRAWN: PKS  
 CHECKED: MAS  
 APPROVED: MAS  
 DATE: MARCH 4, 2020

**Great West** engineering  
 2601 BELT VIEW DRIVE  
 HELENA, MT 59607  
 (406) 448-8827

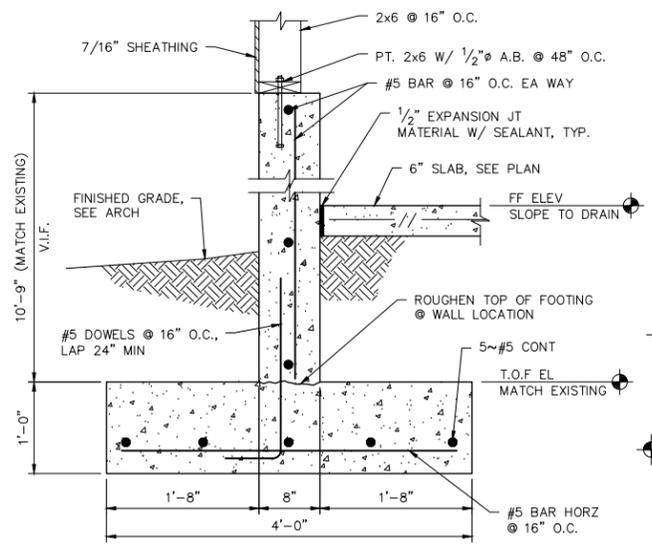
**WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY MRW BUILDING REMODEL**  
 MRW FOUNDATION & SLAB PLAN

SHEET NO. **S1** OF 6

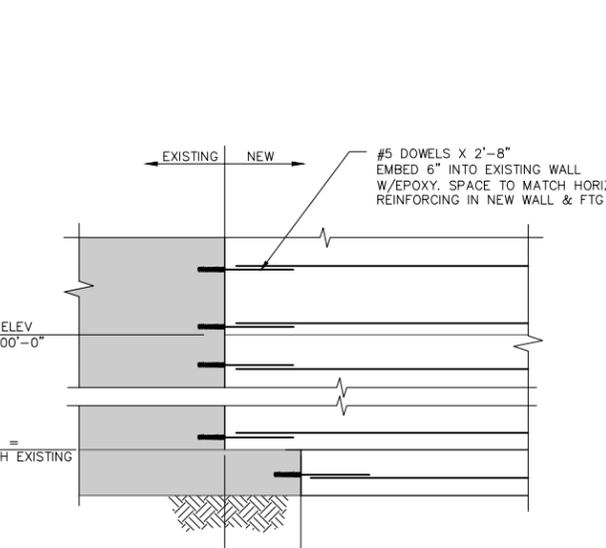




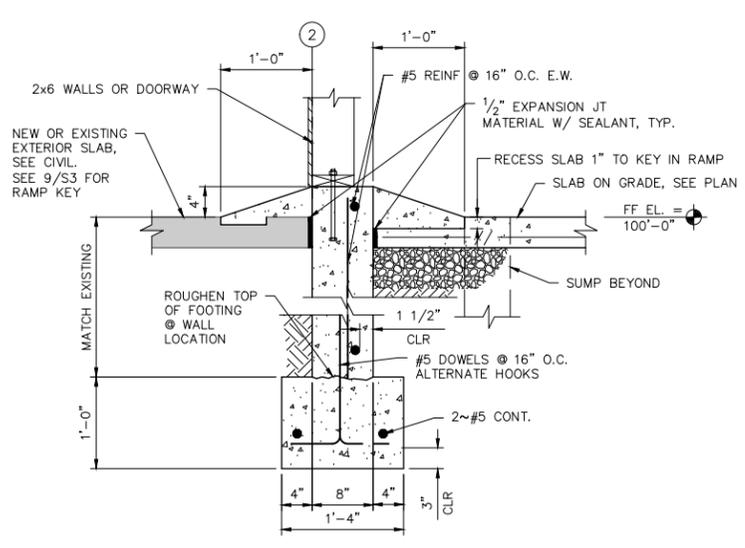




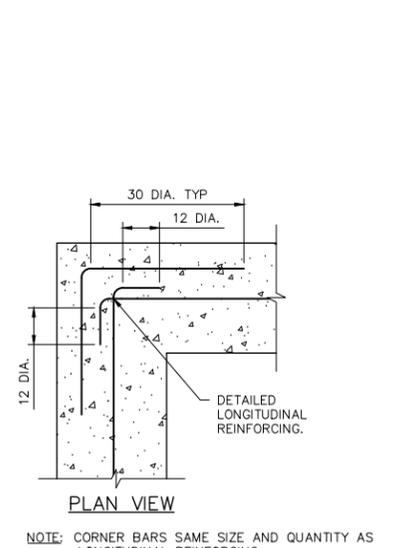
1 DETAIL  
S3 SCALE: 1/2"=1'-0"



2 DETAIL  
S3 SCALE: 1/4"=1'-0"

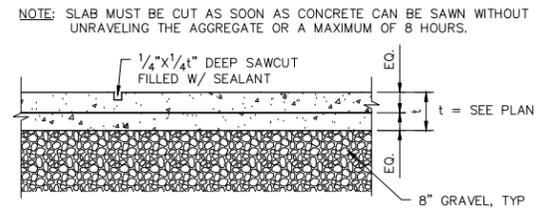


3 DETAIL  
S3 SCALE: 1/2"=1'-0"

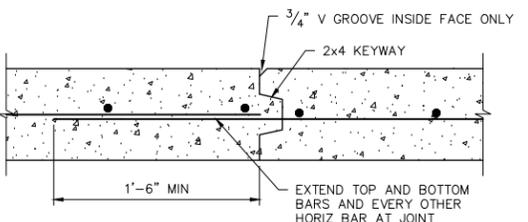


4 TYP CORNER REINFORCING  
S3 SCALE: NTS

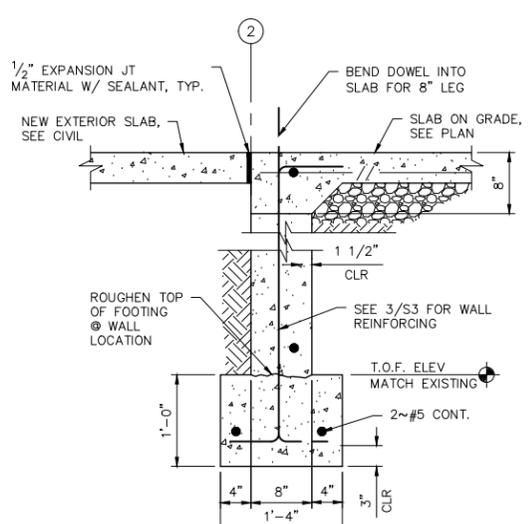
NOTE: CORNER BARS SAME SIZE AND QUANTITY AS LONGITUDINAL REINFORCING



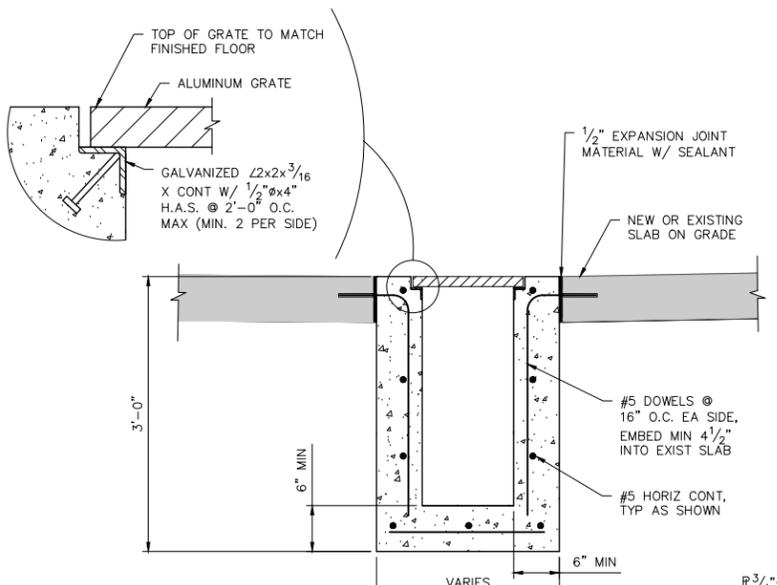
5 TYP. CONTRACTION JOINT (CJ)  
S3 SCALE: 1/2"=1'-0"



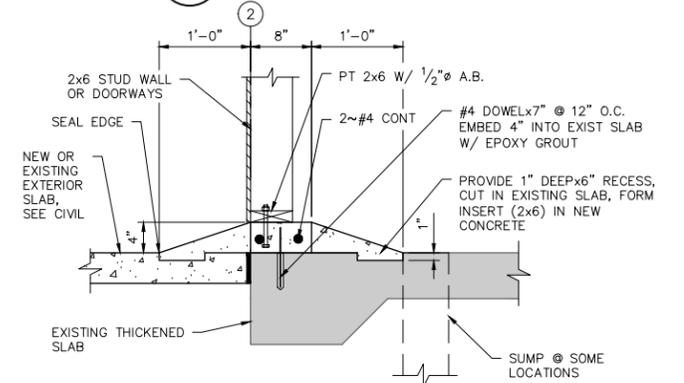
6 WALL CONSTRUCTION JOINT (WJ)  
S3 SCALE: NTS CONTRACTOR'S OPTION



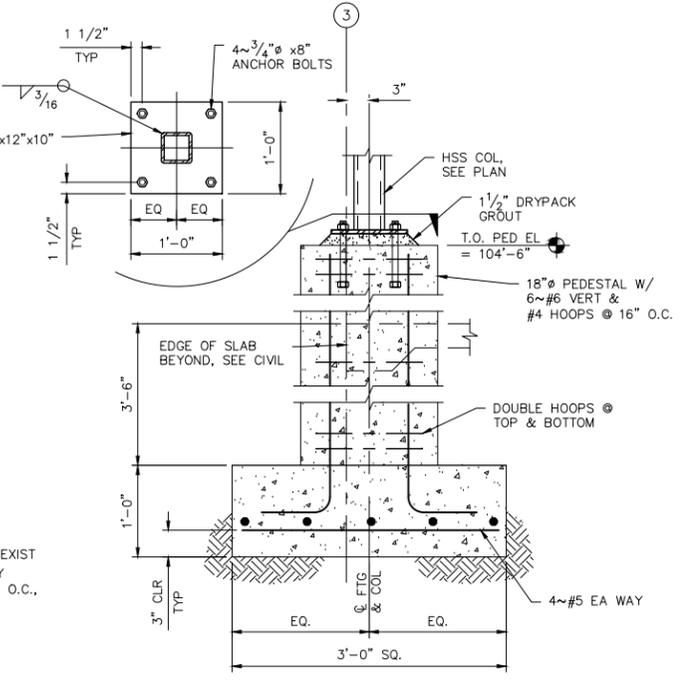
7 DETAIL  
S3 SCALE: 1/2"=1'-0"



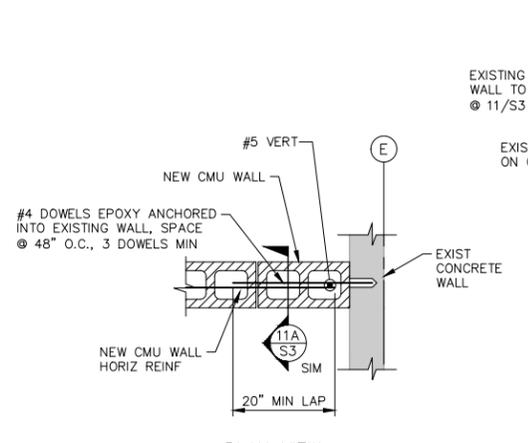
8 SUMP DETAIL  
S3 SCALE: 1/2"=1'-0"



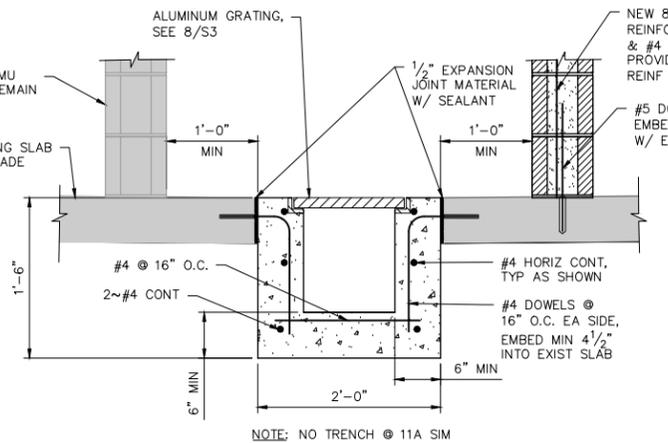
9 DRIVE-OVER RAMP DETAIL  
S3 SCALE: 1/2"=1'-0"



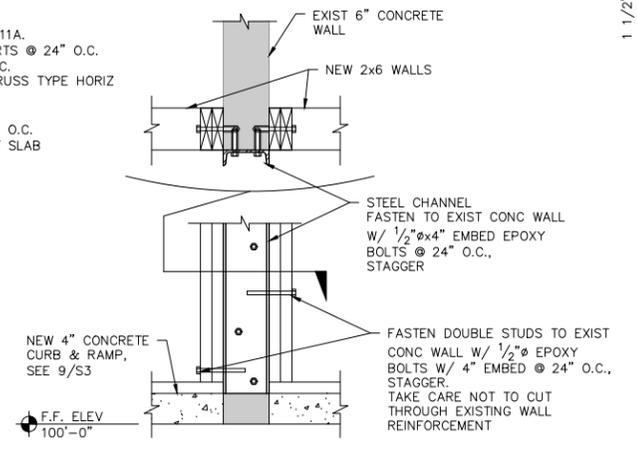
13 DRIVE THROUGH FOOTING DETAIL  
S3 SCALE: 3/4" = 1'-0"



10 DETAIL  
S3 SCALE: N.T.S.



11A CONTAINMENT TRENCH & CMU WALL  
S3 SCALE: 1/2"=1'-0"



12 DETAIL  
S3 SCALE: 1/2"=1'-0"

10 DETAIL  
S3 SCALE: N.T.S.

11A CONTAINMENT TRENCH & CMU WALL  
S3 SCALE: 1/2"=1'-0"

12 DETAIL  
S3 SCALE: 1/2"=1'-0"

13 DRIVE THROUGH FOOTING DETAIL  
S3 SCALE: 3/4" = 1'-0"

NOTE: SLAB MUST BE CUT AS SOON AS CONCRETE CAN BE SAWN WITHOUT UNRAVELING THE AGGREGATE OR A MAXIMUM OF 8 HOURS.

NOTE: NO TRENCH @ 11A SIM

NO.	REVISION DESCRIPTION	BY	DATE

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DESIGNED: MAS, KOO  
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CHECKED: MAS  
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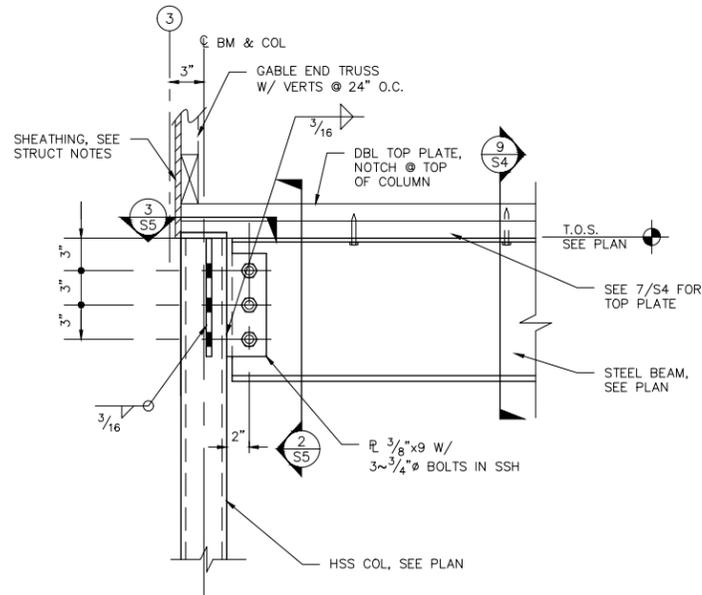
WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY MRW BUILDING REMODEL DETAILS

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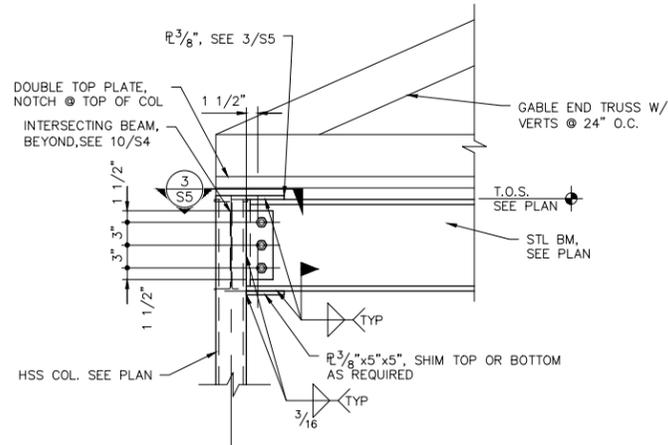




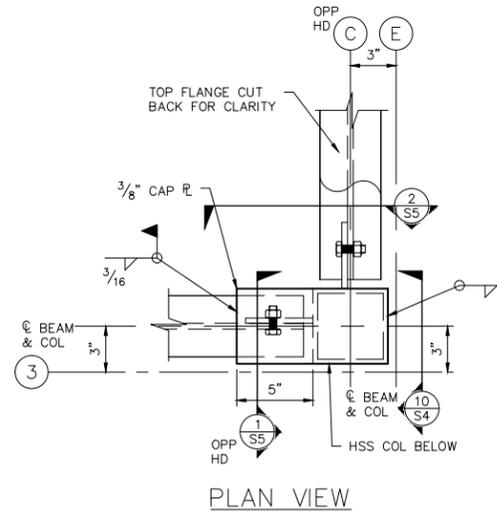




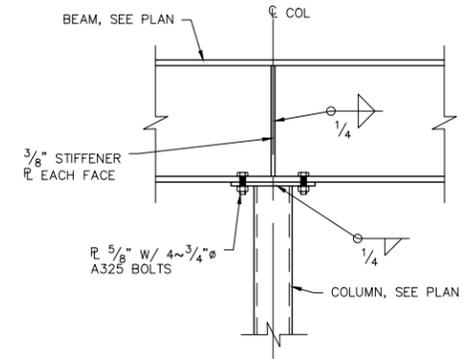
**1**  
S5  
**DETAIL**  
SCALE: 3/4"=1'-0"



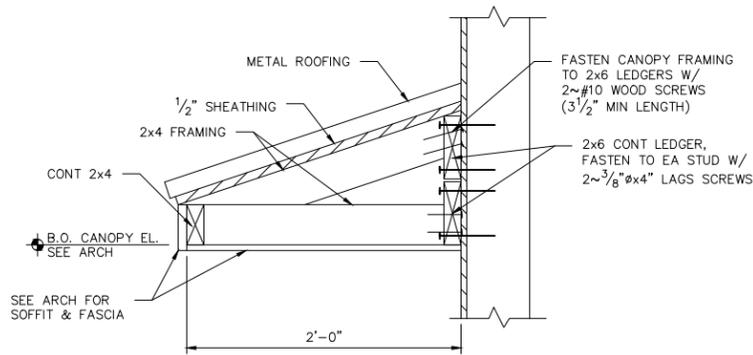
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S5  
**MOMENT CONNECTION DETAIL**  
SCALE: 1/2"=1'-0"



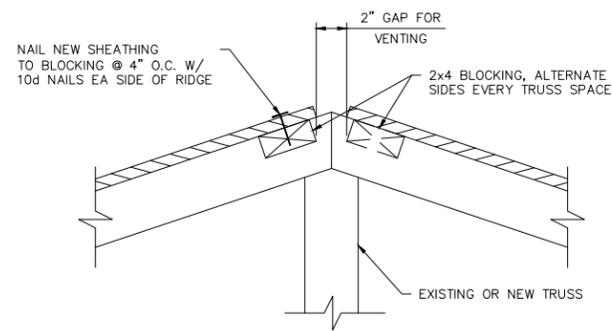
**3**  
S5  
**DETAIL**  
SCALE: 1"=1'-0"



**4**  
S5  
**DETAIL**  
SCALE: 1/2"=1'-0"



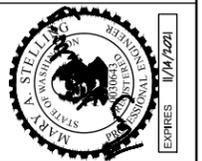
**5**  
S5  
**OVERBUILT CANOPY DETAIL**  
SCALE: 3/4"=1'-0"



**6**  
S5  
**RIDGE VENTING**  
SCALE: 1"=1'-0"

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-19110  
 DESIGNED: MAS, KOO  
 DRAWN: PKS  
 CHECKED: MAS  
 APPROVED: MAS  
 DATE: MARCH 4, 2020



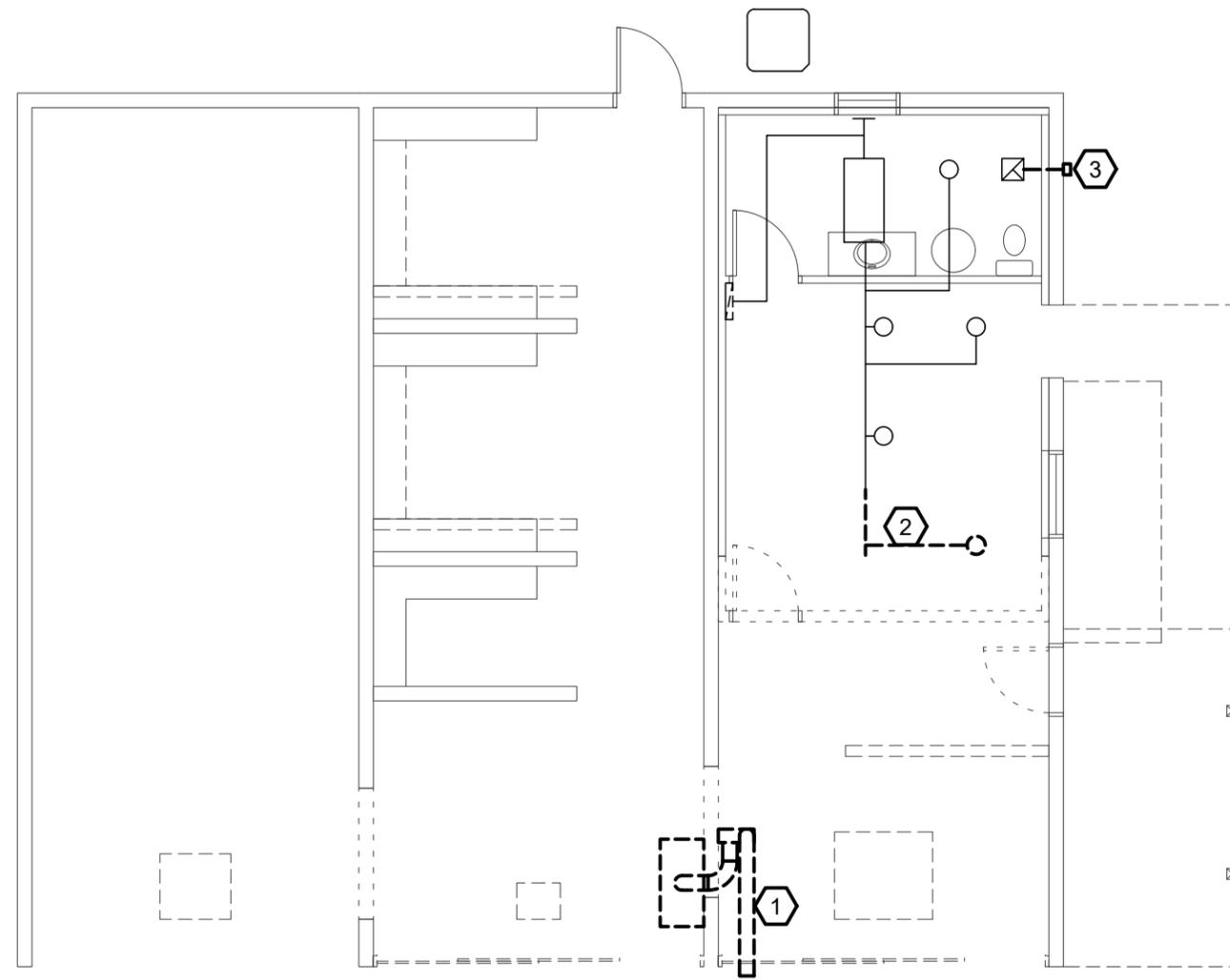
**WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY MRW BUILDING REMODEL**  
 DETAILS

M:\4-19110-Whitman County MRW\CADD 4-19110\_Sheets\Structural\4-19110 PLANS.dwg









**DEMOLITION GENERAL NOTES**

1. REFER TO ALL DRAWINGS FOR COORDINATION BETWEEN DEMOLITION AND NEW WORK. COORDINATE DEMOLITION WORK WITH THAT OF OTHER TRADES.
2. COORDINATE SALVAGE AND REUSE OF EXISTING EQUIPMENT WITH OWNER. ALL ITEMS OF VALUE SHALL BE RELINQUISHED TO THE OWNER.
3. PROTECTION: CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, COVERING, AND SEALING EXISTING EQUIPMENT AND SURROUNDINGS DURING DEMOLITION FROM DIRT, DUST AND DEBRIS. ENSURE THE SAFE PASSAGE OF PERSONS IN AND AROUND BUILDING DURING DEMOLITION. PREVENT INJURY TO PERSONS AND DAMAGE TO PROPERTY. PROVIDE ADEQUATE SHORING AND BRACING TO PREVENT COLLAPSE. IMMEDIATELY REPAIR DAMAGED PROPERTY TO THE CONDITION BEFORE BEING DAMAGED. TAKE EFFECTIVE MEASURES TO PREVENT DUST MIGRATION.
4. UTILITIES: MAINTAIN ALL UTILITIES EXCEPT THOSE REQUIRING REMOVAL OR RELOCATION. KEEP UTILITIES IN SERVICE AND PROTECT FROM DAMAGE. DO NOT INTERRUPT UTILITIES SERVING AREAS OUTSIDE OF PRESENT SCOPE WITHOUT FIRST OBTAINING PERMISSION FROM THE UTILITY COMPANY AND OWNER. PROVIDE TEMPORARY SERVICES AS REQUIRED.
5. REMOVE AND DISPOSE OF EXISTING MECHANICAL EQUIPMENT AS SHOWN, UNLESS NOTED OTHERWISE. COORDINATE WITH ARCHITECT. AREAS OF DEMOLITION AROUND, ADJACENT, OR CONNECTED TO EXISTING MECHANICAL EQUIPMENT THAT IS TO REMAIN.

**DEMO KEYED NOTES**

- ① REMOVE EXISTING EXHAUST HOOD, DUCTWORK, AND EXHAUST FAN.
- ② REMOVE SUPPLY DIFFUSER AND DUCTWORK, AND SHORTEN MAIN DUCT TO ACCOMMODATE LOCATION OF NEW WALL. SEE FLOOR PLAN SHEET M3 FOR NEW LOCATION OF DIFFUSER.
- ③ REMOVE EXHAUST DUCT AS REQUIRED TO ACCOMMODATE RELOCATION OF WALL CAP AS INDICATED ON SHEET M3.

**1 DEMOLITION FLOOR PLAN - MECHANICAL**

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



NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 1-00001  
 DESIGNED: JCJ  
 DRAWN: DLO  
 CHECKED: JCJ  
 APPROVED: MAK  
 DATE: MARCH 3, 2020



**WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY  
 MRW BUILDING REMODEL  
 DEMOLITION FLOOR PLAN - MECHANICAL**



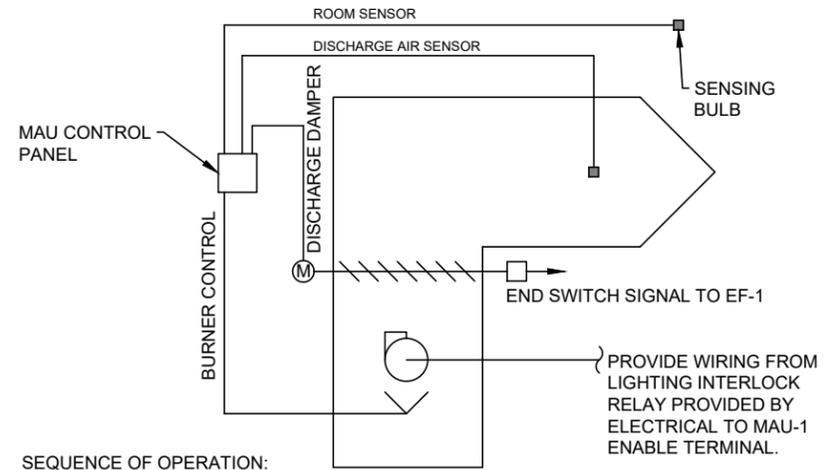
EXPIRES 2/20/21

SHEET NO.  
**M2**  
 2 OF 10







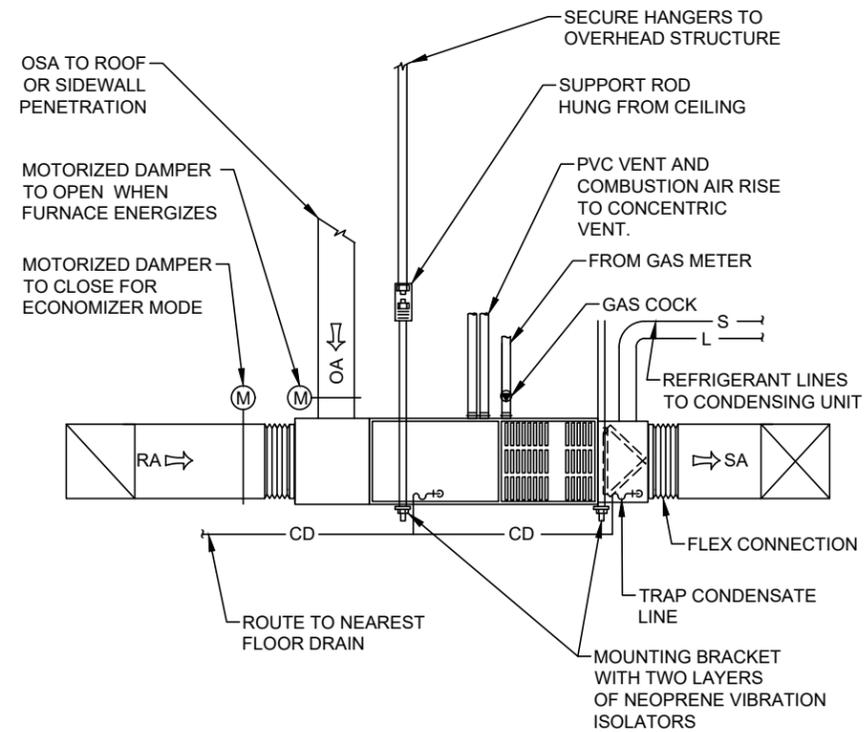


SEQUENCE OF OPERATION:

- DIRECT-FIRED MAKE UP AIR UNIT (MAU-1) AND EXHAUST FAN EF-1 SHALL OPERATE TOGETHER.
- UNOCCUPIED: MAU-1 AND EF-1 SHALL CYCLE ON FOR TWENTY MINUTES EVERY 24 HOURS. OR AS REQUIRED TO MAINTAIN SET BACK TEMPERATURE.
- OCCUPIED: BOTH MAU-1 AND EF-1 SHALL OPERATE CONTINUOUSLY. THE CONTROL OF THE TEMPERATURE FOR THE SPACE SHALL CYCLE BURNERS AS REQUIRED TO MAINTAIN BUILDING SET POINT (ADJ).
- MAU-1 AND EF-1 SHALL BE INTERLOCKED TO RUN WHEN THE LIGHT SWITCH IS IN THE ON POSITION. THE LIGHT SWITCH SHALL ACT AS THE OCCUPIED / UNOCCUPIED CONTROL SIGNAL.

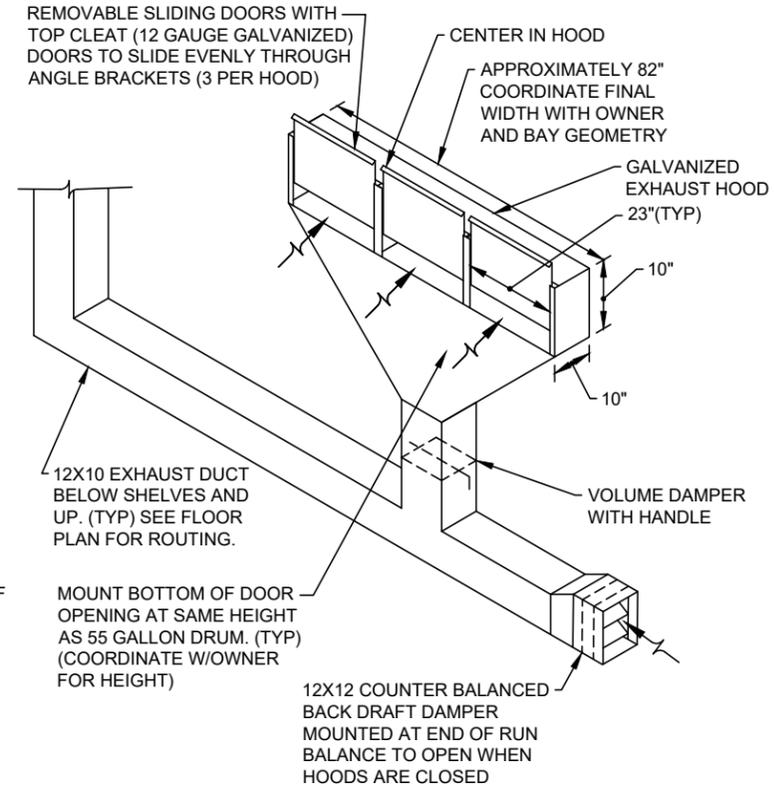
### 3 MAKEUP AIR UNIT AND EXHAUST FAN CONTROL

SCALE: NOT TO SCALE



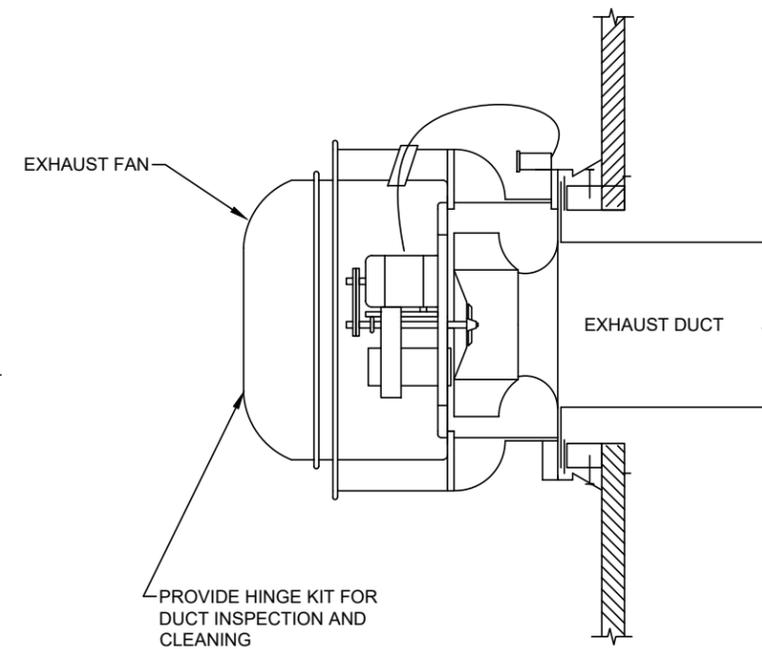
### 4 HORIZONTAL FURNACE DETAIL

SCALE: NOT TO SCALE



### 1 BULK PROCESSING HOOD DETAIL

SCALE: NOT TO SCALE



### 2 EXHAUST FAN DETAIL

SCALE: NOT TO SCALE



NO.	REVISION DESCRIPTION	BY	DATE

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APPROVED: MAK  
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WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY  
MRW BUILDING REMODEL  
MECHANICAL DETAILS



EXPIRES 2/20/21

SHEET NO.

**M4**

4 OF 10



### MAKEUP AIR UNIT SCHEDULE

TAG	SERVICE	MANUF.	MODEL NO.	TYPE	DESIGN AIR FLOW (CFM)	MINIMUM AIR FLOW (CFM)	ESP (")	HEATING					EVAPORATIVE COOLING			ELECTRICAL			WEIGHT (LBS)	NOTES		
								TYPE	INPUT (MBH)	OUTPUT (MBH)	TEMP. RISE (°F)	EFF (%)	CONTROL	EAT (DB)	EAT (WB)	COOLING CONTROL	VOLT/PH	MOTOR HP			MCA	MOCP
MAU 1	MAKEUP AIR	GREENHECK	DG-112-H10	GAS	2930	1465	0.5	0.75	195.9	180.2	62.1	0.92	-	92.8	65.2	-	208/60/3	2	10.1	15	654	-

NOTES:  
 1. INTERLOCK WITH EXHAUST FAN EF-1.  
 2. FREEZE STAT  
 3. PROVIDE TWO-SPEED VARIABLE FREQUENCY DRIVE

### FAN SCHEDULE

TAG	SERVICE	LOCATION	MANUF.	MODEL NO.	FAN TYPE	AIR FLOW (CFM)	ESP (")	DRIVE	RPM	SOUND DATA			ELECTRICAL		WEIGHT (LBS)	CONTROL	NOTES
										SONES RAD.	DBA INLET	DBA RAD.	VOLT/PH	MOTOR HP			
EF 1	MRW EXHAUST	OUTDOORS	GREENHECK	CUBE-240XP-VGD-30	SIDE WALL	2,930/1465	2.5	DIRECT	2,068	24	-	-	208/60/3	3	191	-	1, 2
EF 2	TOILET EXHAUST	CEILING	EXISTING	-	CEILING	70	-	-	-	-	-	-	115/1	-	-	-	-

NOTES:  
 1. PROVIDE ECM MOTOR.  
 2. PROVIDE UNIT MOUNTED SPEED CONTROL.  
 3. PROVIDE TWO SPEED FAN CONTROL.

### LOUVER SCHEDULE

TAG	MANUF.	MODEL NO.	SERVICE	TYPE	MATERIAL	AIR FLOW (CFM)	FREE AREA VELOCITY (FPM)	PRESS. DROP (WC)	SIZE			MIN. FREE AREA (SF)	NOTES
									WIDTH (INCH)	HEIGHT (INCH)	DEPTH (INCH)		
L 1	GREENHECK	ESD-435	INTAKE	DRAINABLE BLADE	ALUMINUM	800	767	0.09	20	18	4	1.00	1, 2
L 2	GREENHECK	ESD-435	RELIEF	DRAINABLE BLADE	ALUMINUM	800	767	0.08	20	18	4	1.00	1, 2

NOTES:  
 1. PROVIDE KYNAR FINISH COLOR SELECTED BY ARCHITECT.  
 2. PROVIDE BIRD SCREEN ON INSIDE OF LOUVER.

### GAS FURNACE SCHEDULE

TAG	LOCATION	INTERLOCK WITH OUTDOOR UNIT	FURNACE MFR MODEL#	FAN				COOLING			HEATING				ELECTRICAL				WEIGHT	O.A. (CFM)	NOTES
				CFM	ESP	WATT	TYPE	EAT (DB/WB)	SENS (MBH)	TOTAL (MBH)	INPUT (MBH)	OUTPUT (MBH)	VENT SIZE	AFUE	VOLT	PHASE	MCA	MOCP			
F 1	CFC REMOVAL	CU 1	CARRIER 59TP6040E14	800	0.6	373	ECM	80/67	15.11	17.99	40/26	39/25	2"	96.5%	115	1	7.5	15	160	-	1, 2, 3, 4
F 2	OFFICE	-	-	600	-	-	-	-	-	-	-	-	-	-	115	1	7.5	15	160	-	-

NOTES:  
 1. PROVIDE 2" FILTER AND FILTER RACK  
 2. INTERLOCK FURNACE W/ ASSOCIATED MOTORIZED DAMPER ON O.A. DAMPER  
 3. PROVIDE CASED COOLING COIL TO PROVIDE COOLING CAPACITY SCHEDULED.

### AIR OUTLET SCHEDULE

TAG	MANUFACTURER	MODEL NO.	SERVICE	TYPE	MATERIAL	MOUNTING	BORDER	PATTERN	BLADE SPACING (INCH)	BLADE POSITION	BLADE DEFLECTION	NOTES
[1]	TITUS	300FL	SUPPLY	GRILLE	STEEL	SURFACE	-	DOUBLE DEFLECTION	3/4"	FRONT HORIZONTAL	ADJUSTABLE	1
[2]	TITUS	350FL	SUPPLY	DIFFUSER	STEEL	SURFACE	-	SINGLE DEFLECTION	3/4"	HORIZONTAL	35°	1

NOTES:  
 1. FINISH SHALL BE WHITE ANODIC ACRYLIC PAINT

### OUTDOOR AIR CONDENSING UNIT

TAG	LOCATION	INTERLOCK WITH FURNACE	CU MFR MODEL#	NOMINAL TONS	SEER	ELECTRICAL				WEIGHT	NOTES
						VOLT	PHASE	MCA	MOCP		
CU 1	OUTSIDE GROUND MOUNTED	F 1	CARRIER 24ACC-18	1.5	14	208	1	11.7	20	123	1, 2, 3, 4, 5, 6, 7
CU 2	OUTSIDE GROUND MOUNTED	F 2	EXISTING	1.5	-	208	1	12.4	20	-	-

NOTES:  
 1. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT  
 2. PROVIDE COMPRESSOR HARD START KIT  
 3. PROVIDE TXV  
 4. PROVIDE 4" SUPPORT FEET FOR CONDENSING UNIT  
 5. PROVIDE TIME DELAY RELAY  
 6. PROVIDE SHORT CYCLE TIMER  
 7. PROVIDE OUTDOOR TEMPERATURE SENSOR



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WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY  
 MRW BUILDING REMODEL  
 MECHANICAL SCHEDULES



EXPIRES 2/20/21



PLUMBING LEGEND		
SYMBOL	DEFINITION	ABBREV.
	COLD WATER	CW
	HOT WATER	HW
	HOT WATER RETURN	HWR
	NON-POTABLE COLD WATER	NPWCW
	TEMPERED HOT WATER	THW
	COLD SOFT WATER	CSW
	HOT SOFT WATER	HSW
	LAB COLD WATER	LCW
	LAB HOT WATER	LHW
	HOT WATER W/TEMP. INDICATED	-
	HOT WATER HEAT TRACED	HTRHW
	REVERSE OSMOSIS WATER	RO
	DEIONIZED WATER	DI
	DISTILLED WATER	DW
	NATURAL GAS (BELOW 1PSI)	NG
	NATURAL GAS (ABOVE 1PSI)	NG(HP)
	LIQUID PROPANE GAS	LPG
	OXYGEN	O
	FIRE PROTECTION PIPING	FP
	SANITARY SEWER (SITE)	SS
	PUMPED SANITARY SEWER (SITE)	PS
	STORM DRAIN (SITE)	SD
	WASTE PIPING	W
	WASTE PIPING (BELOW)	W
	VENT PIPING	V
	VENT PIPING BELOW GRADE	V
	ACID RESISTANT WASTE PIPING	ARW
	ACID RESISTANT WASTE PIPING (BELOW)	ARW
	ACID RESISTANT VENT PIPING	ARV
	ACID RESISTANT VENT PIPING (BELOW)	ARV
	INDIRECT WASTE PIPING	IW
	INDIRECT WASTE PIPING (BELOW)	IW
	RAIN WATER LEADER PIPING	RWL
	RAIN WATER LEADER PIPING (BELOW)	RWL
	OVERFLOW RAIN WATER LEADER PIPING	OWL
	OVERFLOW RAIN WATER LEADER (BELOW)	OWL
	CONDENSATE DRAIN PIPING	CD
	CONDENSATE DRAIN PIPING (BELOW)	CD
	GREASE WASTE PIPING	GW
	GREASE WASTE PIPING (BELOW)	GW
	CLEAN OUT TO GRADE	COTG
	CLEAN OUT TO FLOOR	COTF

WSEC COMPLIANCE	
1.	WATER HEATING EQUIPMENT AND HOT WATER STORAGE TANKS SHALL MEET THE REQUIREMENTS OF SECTION C404.2 AND TABLE C404.2 OF THE WSEC.
2.	DOMESTIC HOT WATER RE-CIRCULATION AND HEAT TRACE SYSTEMS SHALL MEET THE EFFICIENT HEATED WATER SUPPLY PIPING REQUIREMENTS OF SECTION C404.3 OF THE WSEC. PIPING SHALL BE INSTALLED TO COMPLY WITH C404.3.1 MAXIMUM ALLOWABLE PIPE LENGTH METHOD OR C404.3.2 MAXIMUM ALLOWABLE PIPE VOLUME METHOD.
3.	PROVIDE HEAT TRAP ON SUPPLY AND DISCHARGE PIPING FROM WATER HEATER AS REQUIRED IN SECTION C404.4 OF WSEC. RHEEM SP2003 OR EQUAL.
4.	ELECTRIC WATER HEATERS LOCATED IN UNCONDITIONED SPACES OR ON CONCRETE FLOORS SHALL BE SEPARATED FROM THE SUPPORTING SURFACE WITH R-10 INSULATION AS DESCRIBED IN SECTION C404.5 OF THE WSEC.
5.	PIPE INSULATION - PER WSEC C404.6. FOR AUTOMATIC-CIRCULATING HOT WATER AND HEAT-TRACED SYSTEMS, PIPING SHALL BE INSULATED PER TABLE C403.2.9 AND NOT LESS THAN 1 INCH (25 MM) OF INSULATION HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH/INCH <sup>2</sup> • FT <sup>2</sup> • °F (1.53 W PER 25 MM/M <sup>2</sup> • K).
6.	HEATED WATER CIRCULATING AND TEMPERATURE MAINTENANCE SYSTEMS SHALL BE INSTALLED TO COMPLY WITH SECTION C404.7. A. CIRCULATION SYSTEM SHALL BE ACTIVATED UPON INDICATION OF DEMAND AND SHUT OFF WHEN THE RETURN WATER TEMPERATURE IS SATISFIED. B. HEAT TRACE SYSTEM SHALL AUTOMATICALLY REGULATE ENERGY INPUT TO MAINTAIN THE SYSTEM TEMPERATURE WHEN HEATED WATER IS USED IN THE OCCUPANCY AND SHALL BE OFF WHEN THERE IS NO HOT WATER DEMAND.
7.	PROVIDE RECORD DRAWINGS, OPERATING AND MAINTENANCE MANUALS, ENERGY CODE COMPLIANCE FORMS, AND SYSTEMS OPERATION TRAINING DOCUMENTS AS DESCRIBED IN SECTION C103.6.1 THROUGH C103.6.4 TO THE OWNER WITHIN 180 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE AS REQUIRED BY SECTION C103.6 OF THE WSEC.
8.	COMMISSIONING SHALL BE PROVIDED AND REPORT OF COMMISSIONING SHALL BE SUBMITTED TO THE OWNER AS REQUIRED BY SECTION C408.1 OF THE WSEC.

ADDITIONAL SYMBOLS	
	SECTION DESIGNATION
	SHEET NUMBER
	DETAIL NUMBER
	SHEET NUMBER

PLUMBING/PIPING SYMBOLS	
	ELBOW UP
	ELBOW DOWN
	TEE UP
	TEE DOWN
	CONCENTRIC REDUCER/INCH
	ECCENTRIC REDUCER/INCH
	UNION
	RISE/DROP IN PIPE
	RISE/DROP IN PIPE & 90° TURN
	VENT THRU ROOF
	CAP
	CLEAN-OUT (WALL)
	CLEAN-OUT (FLUSH TO FLOOR OR GRADE)
	FLOOR DRAIN
	CIRCULATING PUMP (POINTS IN DIRECTION OF FLOW)
	VALVE (AS INDICATED OR SPECIFIED)
	CHECK VALVE
	PRESSURE & TEMPERATURE (RELIEF VALVE)
	PRESSURE REDUCING VALVE (POINTS TOWARDS LOW PRESSURE)
	GAS VALVE
	SOLENOID VALVE
	HOSE BIBB
	CIRCUIT SETTER
	VALVE BOX W/ VALVE (AS SPECIFIED)
	CONNECTION TO EXISTING
	EXTENSION & CONTINUATION

BACK FLOW PREVENTER SCHEDULE						
SYMBOL	LOCATION	MANUFACTURER AND MODEL NUMBER	SERVICE	TYPE	SIZE	NOTES
	MECH RM	WATTS LF009M2 QT	BUILDING DOMESTIC WATER	REDUCED PRESSURE	1-1/2"	1

NOTES:  
1. PROVIDE AIR GAP FITTING AND PIPE TO DRAIN

PLUMBING PUMP SCHEDULE									
SYMBOL	DESCRIPTION	MANUFACTURER AND MODEL NUMBER	FLOW (GPM)	HEAD (FEET)	ELECTRICAL				NOTES
					VOLTAGE	PHASE	HP	RPM	
	INLINE	XYLEM e3-6V/BTXYC	1	8	115	1	28 WATTS	-	1, 2, 3, 4

NOTES:  
1. PROVIDE ECM MOTOR AND MOTOR SPEED ADJUSTMENT  
2. PROVIDE UNION FITTINGS AND BUILT IN CHECK AND STOP VALVES  
3. PROVIDE ADJUSTABLE SPEED SWITCH  
4. PROVIDE INTEGRAL AQUASTAT CONTROL

GAS TANK TYPE WATER HEATER SCHEDULE														
SYMBOL	DESCRIPTION	SERVICE	MANUFACTURER AND MODEL NUMBER	TANK SIZE (GALLONS)	GAS HEAT					ELECTRICAL			NOTES	
					INPUT (MBH)	EFFICIENCY (%)	RECOVERY (GPH)	INLET TEMP. (°F)	OUTLET TEMP. (°F)	TOTAL FIRST HOUR CAPACITY (GPH)	VOLTAGE	PHASE		AMPS
	TANK TYPE	EMERGENCY SHOWER	AO SMITH BTX-100	50	100	96	115	40°F	140°F	-	115	1	5	1, 2

NOTES:  
1. PROVIDE P&T RELIEF VALVE  
2. PROVIDE EXPANSION TANK AMTRLO ST-5

PLUMBING FIXTURE SCHEDULE									
SYMBOL	DESCRIPTION	MANUFACTURER AND CATALOG #	FAUCET/FLUSH VALVE	CONNECTIONS				NOTES	
				HW	CW	W	V		
	EMERGENCY SHOWER/EYE WASH	GUARDIAN G1993	FC20 20 GPM FLOW REGULATOR, TMV G3802LF MIXING VALVE	1"	1"	-	-	UNIT TO BE ABS CONSTRUCTION	
	FLOOR DRAIN	JR SMITH FIG 2005	ROUND STRAINER, NICKEL BRONZE STRAINER, FUNNEL, & TRAP PRIMER CONNECTION	-	-	-	-	SEE DRAWINGS FOR DRAIN WASTE AND VENT SIZE, PROVIDE P-TRP WITH TRAP PRIMER CONNECTION.	
	NON-FREEZE WALL HYDRANT	WOODFORD MODEL 65	VACUUM BREAKER	-	3/4"	-	-	-	

### GENERAL SHEET NOTES

- SLOPE ALL SEWERS 1/4" PER FOOT WHEN POSSIBLE. NO LINES SHALL BE LESS THAN 1/8" PER FOOT.
- FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
- ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT STATE AND LOCAL PLUMBING CODES AND ORDINANCES.
- CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- COORDINATE EXACT LOCATION OF PIPING WITH OTHER TRADES.
- ALL SOIL PIPING SHALL BE SCH 40 ABS OR PVC WITH SOLVENT FITTINGS OR DWV CAST IRON WITH NO HUB FITTINGS.
- ALL VENT PIPING SHALL BE ABOVE FLOOD RIM LEVEL OF HIGHEST FIXTURE BEFORE CONNECTION TO COMMENT VENTS.
- HORIZONTAL DRAINAGE PIPE SHALL BE PROVIDED WITH A CLEANOUT AT ITS UPPER TERMINAL, AND EACH RUN OF PIPING, THAT IS MORE THAN 100' IN TOTAL DEVELOPED LENGTH. CLEANOUTS SHALL BE PROVIDED IN A DRAINAGE LINE FOR EACH AGGREGATE HORIZONTAL CHANGE OF DIRECTION EXCEEDING ONE HUNDRED THIRTY FIVE DEGREES.
- THE CONTRACTOR SHALL PROVIDE FIRE CAULKING AT ALL PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES OR PROVIDE FIRE RATED SEALS FOR NON-RATED PLASTIC PIPING PENETRATIONS OF RATED ASSEMBLIES AS REQUIRED.

### DEMOLITION GENERAL SHEET NOTES

- REFER TO ALL DRAWINGS FOR COORDINATION BETWEEN DEMOLITION AND NEW WORK. COORDINATE DEMOLITION WORK WITH THAT OF OTHER TRADES.
- COORDINATE SALVAGE AND REUSE OF EXISTING EQUIPMENT WITH OWNER. ALL ITEMS OF VALUE SHALL BE RELINQUISHED TO THE OWNER.
- PROTECTION: CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, COVERING, AND SEALING EXISTING EQUIPMENT AND SURROUNDINGS DURING DEMOLITION FROM DIRT, DUST AND DEBRIS. ENSURE THE SAFE PASSAGE OF PERSONS IN AND AROUND BUILDING DURING DEMOLITION. PREVENT INJURY TO PERSONS AND DAMAGE TO PROPERTY. PROVIDE ADEQUATE SHORING AND BRACING TO PREVENT COLLAPSE. IMMEDIATELY REPAIR DAMAGED PROPERTY TO THE CONDITION BEFORE BEING DAMAGED. TAKE EFFECTIVE MEASURES TO PREVENT DUST MIGRATION.
- UTILITIES: MAINTAIN ALL UTILITIES EXCEPT THOSE REQUIRING REMOVAL OR RELOCATION. KEEP UTILITIES IN SERVICE AND PROTECT FROM DAMAGE. DO NOT INTERRUPT UTILITIES SERVING AREAS OUTSIDE OF PRESENT SCOPE WITHOUT FIRST OBTAINING PERMISSION FROM THE UTILITY COMPANY AND OWNER. PROVIDE TEMPORARY SERVICES AS REQUIRED.
- REMOVE AND DISPOSE OF EXISTING MECHANICAL EQUIPMENT AS SHOWN, UNLESS NOTED OTHERWISE. COORDINATE WITH ARCHITECT, AREAS OF DEMOLITION AROUND, ADJACENT, OR CONNECTED TO EXISTING MECHANICAL EQUIPMENT THAT IS TO REMAIN.



EXPIRES 2/20/21



NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 1-00001  
DESIGNED: JCJ  
DRAWN: DLO  
CHECKED: JCJ  
APPROVED: MAK  
DATE: MARCH 3, 2020



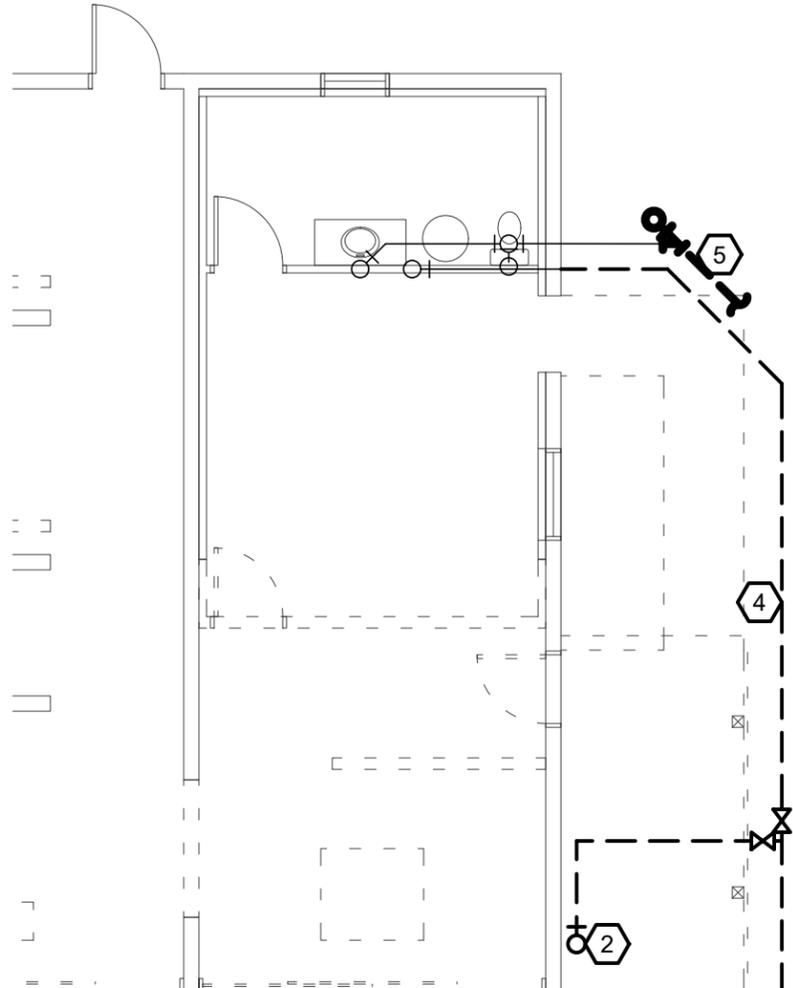
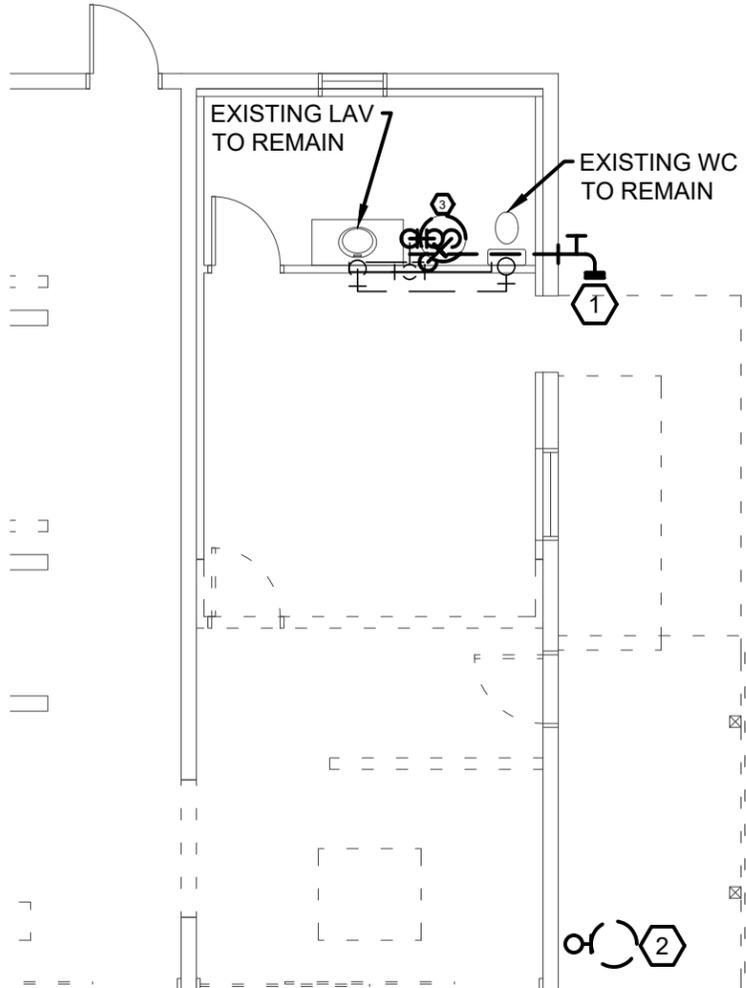
WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY  
MRW BUILDING REMODEL  
PLUMBING LEGENDS, NOTES, & SCHEDULES

SHEET NO.

**M6**

6 OF 10





**SHEET NOTES**

- 1. SEE SHEET M6 FOR DEMOLITION GENERAL SHEET NOTES

**DEMO KEYED NOTES**

- 1 REMOVE EXISTING HOSE BIBB AND PIPING BACK TO MAIN AND CAP.
- 2 REMOVE AND DISPOSE OF EXISTING EMERGENCY SHOWER AND WATER PIPING BACK TO MAIN.
- 3 REMOVE EXISTING WATER HEATER AND HOT AND COLD WATER AS REQUIRED TO INSTALL NEW WATER HEATER IN SAME LOCATION.
- 4 REMOVE EXISTING WATER PIPING TO OUTSIDE OF NEW BUILDING FOOT PRINT AND CAP.
- 5 REMOVE EXISTING WASTE PIPING TO OUTSIDE OF NEW BUILDING FOOT PRINT AND REPLACE WITH PLUMBING CODE APPROVED MATERIAL. SEE NEW FLOOR PLAN FOR NEW WORK.



NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 1-00001  
 DESIGNED: JCU  
 DRAWN: DLO  
 CHECKED: JCU  
 APPROVED: MAK  
 DATE: MARCH 3, 2020



WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY  
 MRW BUILDING REMODEL  
 DEMOLITION PLANS - PLUMBING

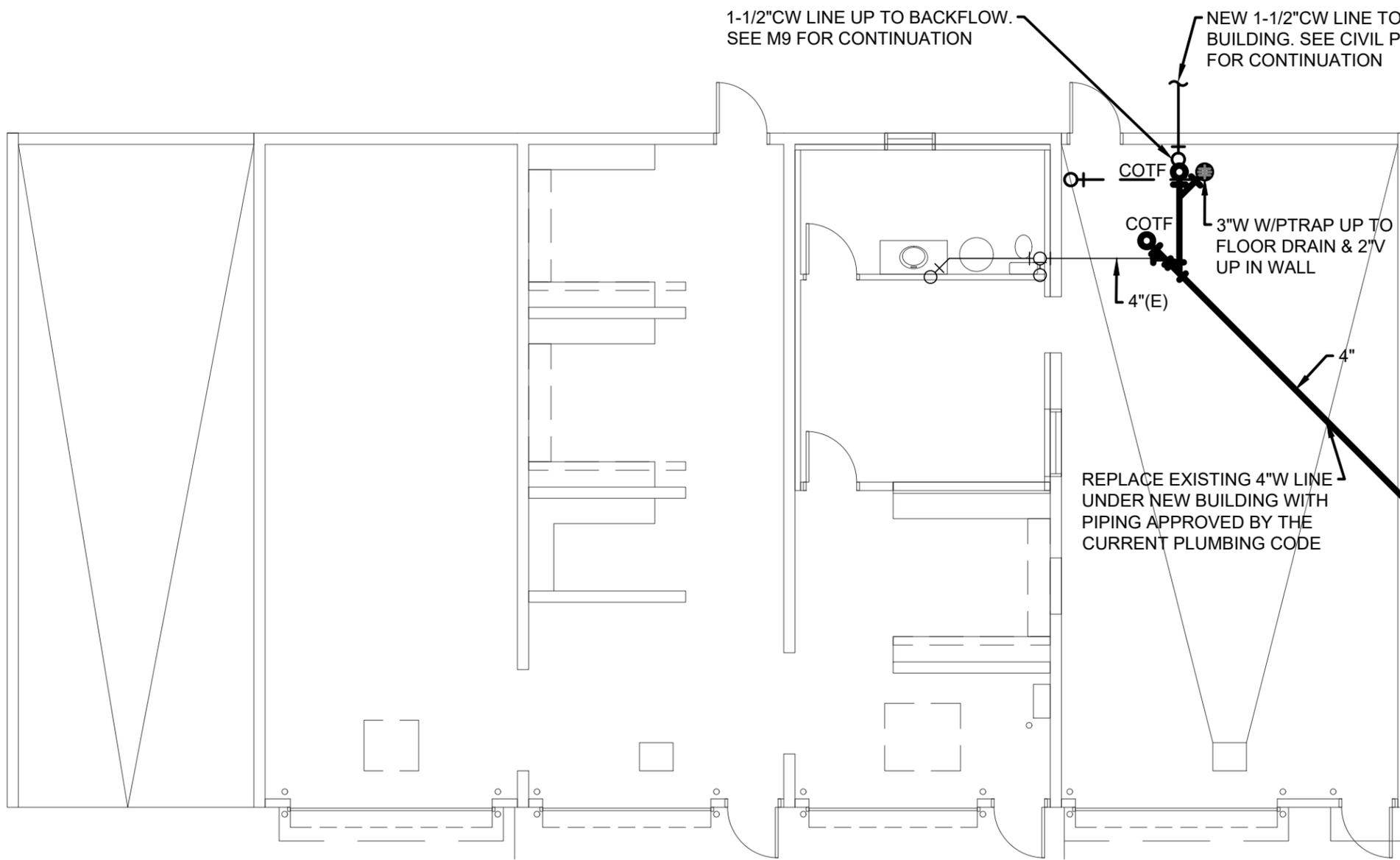
**2** DEMOLITION FLOOR PLAN - PLUMBING  
 SCALE: 1/8" = 1'-0"  
 0' 4' 8' 24'  
 SCALE IN FEET  
 NORTH

**1** DEMOLITION FOUNDATION PLAN - PLUMBING  
 SCALE: 1/8" = 1'-0"  
 NORTH



EXPIRES 2/20/21





# SHEET NOTES

- SEE SHEET M6 FOR DEMOLITION GENERAL SHEET NOTES

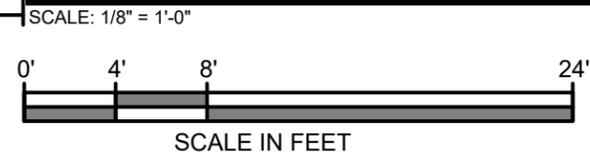


NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 1-00001  
 DESIGNED: JCJ  
 DRAWN: DLO  
 CHECKED: JCJ  
 APPROVED: MAK  
 DATE: MARCH 3, 2020

WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY  
 MRW BUILDING REMODEL  
 FOUNDATION PLAN - PLUMBING

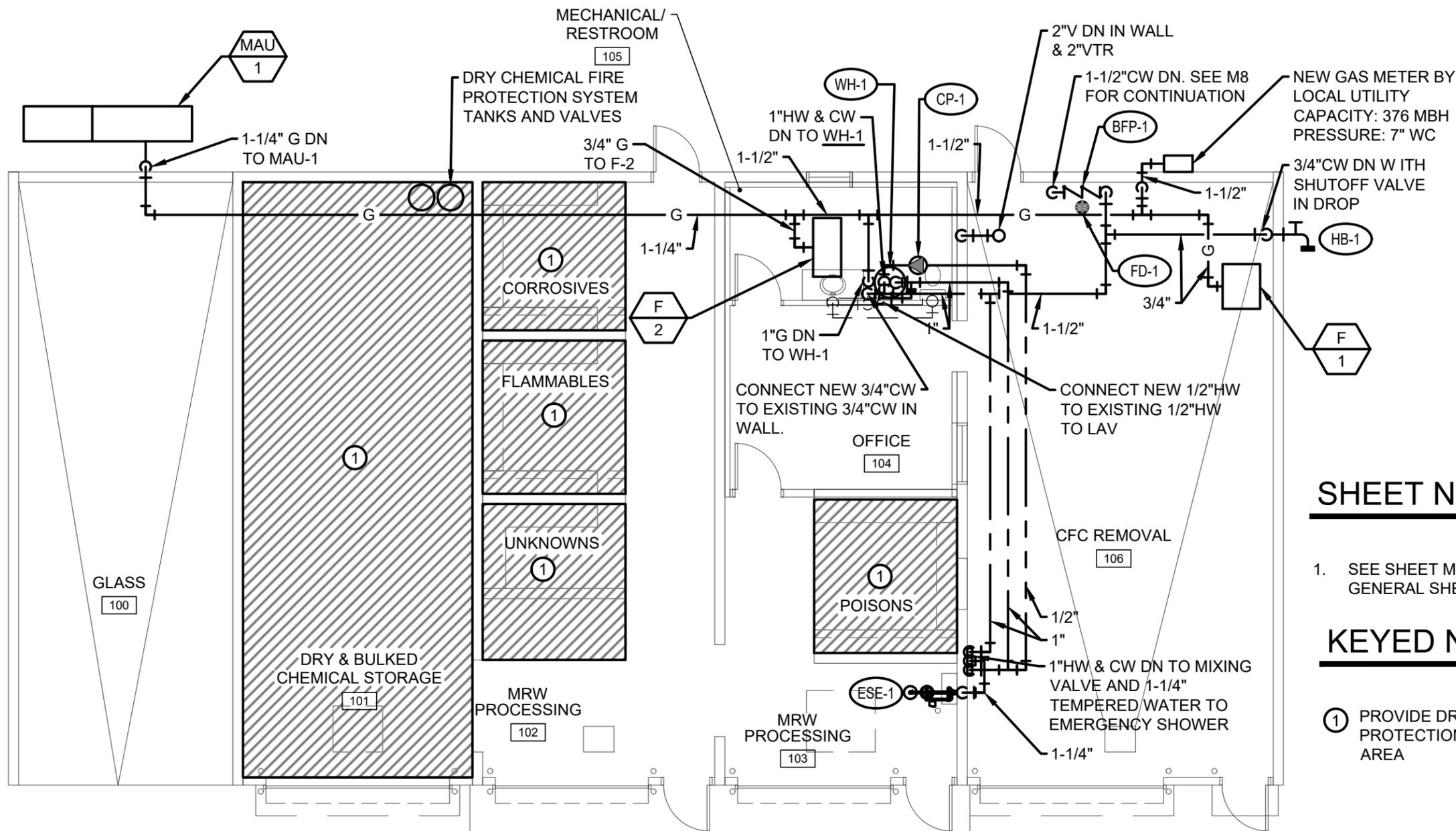
## 1 FOUNDATION PLAN - PLUMBING



EXPIRES 2/20/21

SHEET NO.  
**M8**  
 8 OF 10





### SHEET NOTES

- 1. SEE SHEET M6 FOR DEMOLITION GENERAL SHEET NOTES

### KEYED NOTES

- ① PROVIDE DRY CHEMICAL FIRE PROTECTION SYSTEM IN THIS AREA

**1 FLOOR PLAN - PLUMBING & FIRE PROT.**

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



NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 1-00001  
 DESIGNED: JCJ  
 DRAWN: DLO  
 CHECKED: JCJ  
 APPROVED: MAK  
 DATE: MARCH 3, 2020

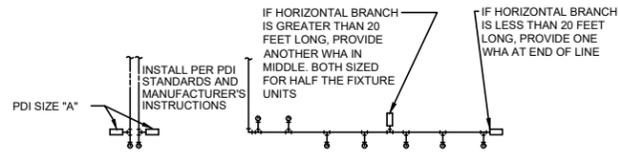


**WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY MRW BUILDING REMODEL**  
 FLOOR PLAN - PLUMBING & FIRE PROTECTION



EXPIRES 2/20/21





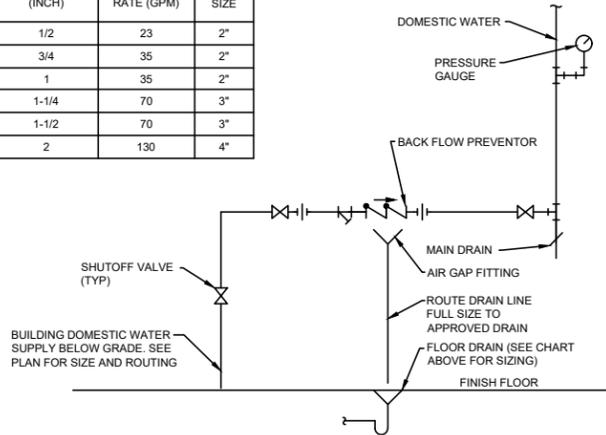
SINGLE FIXTURE			MULTIPLE FIXTURES		
PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD	FIXTURE UNIT TABULATION		
			FIXTURE	COLD	HOT
A	1/2"	1-11	VALVE WATER CLOSET	10	--
B	3/4"	12-32	TANK WATER CLOSET	5	--
C	1"	33-60	URINAL	5	--
D	1-1/4"	61-113	LAVATORY/SINK	1.5	1.5
E	1-1/2"	114-154	JANITOR'S SINK	3	3
F	2"	154-330	SHOWER/BATHTUB	2	2

PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 AND ANSI #112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE. PROVIDE ACCESS PANEL FOR SERVICING OR REPLACEMENT, WHERE REQUIRED.

#### 4 WATER HAMMER ARRESTOR DETAIL

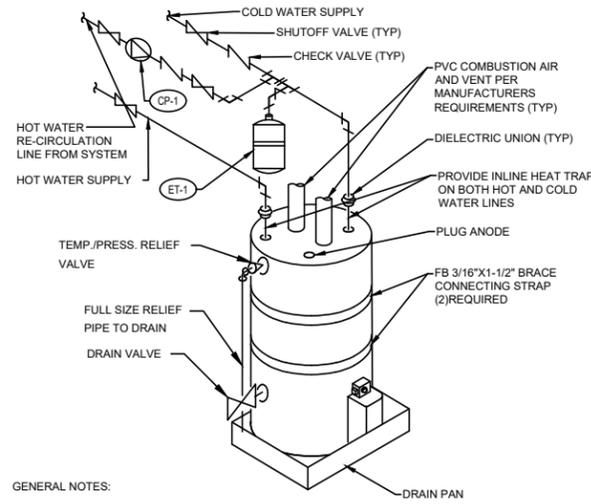
SCALE: NOT TO SCALE

DRAIN SIZE		
BACKFLOW SIZE (INCH)	DISCHARGE RATE (GPM)	DRAIN SIZE
1/2	23	2"
3/4	35	2"
1	35	2"
1-1/4	70	3"
1-1/2	70	3"
2	130	4"



#### 5 WATER HEADER WITH BFP DETAIL

SCALE: NOT TO SCALE

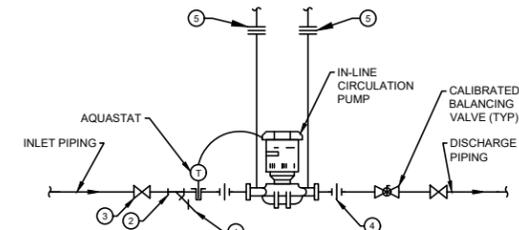


GENERAL NOTES:

1. WATER HEATER SHALL BE SUPPLIED WITH TEMPERATURE CONTROLS WHICH WILL PERMIT THE DISCHARGE TEMPERATURE TO BE SET TO 90° F, BUT WILL BE SET AT 110° F.
2. THE DOMESTIC HOT WATER RE-CIRCULATION PUMP IS TO BE CONNECTED TO A MINIMUM OF A 7-DAY TIME CLOCK THAT IS CAPABLE OF BEING SET FOR AT LEAST SEVEN (7) DIFFERENT DAY TYPES PER WEEK.
3. THE TIME CLOCK CONTROLLING THE DOMESTIC HOT WATER RE-CIRCULATION PUMP MUST HAVE BACK-UP CAPABILITIES THAT WILL RETAIN PROGRAM AND TIME SETTINGS FOR AT LEAST TEN (10) HOURS UPON A LOSS OF POWER.

#### 1 GAS WATER HEATER DETAIL

SCALE: NOT TO SCALE



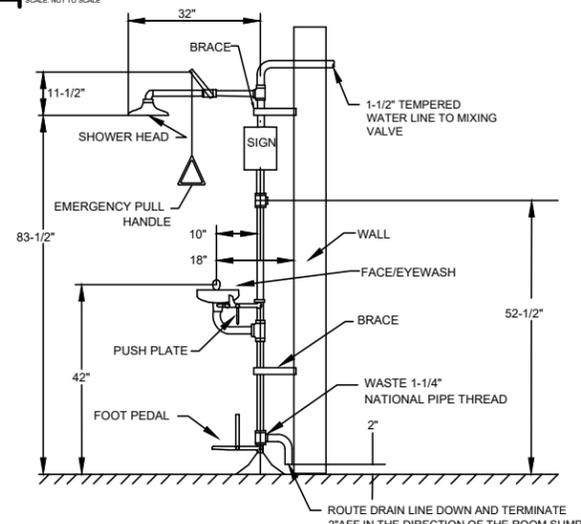
KEY NOTES:

1. DRAIN VALVE WITH 3/4" THREADED HOSE CONNECTION
2. STRAINER
3. 2" AND SMALLER - BALL VALVE; 2-1/2" AND LARGER - BUTTERFLY VALVE.
4. PROVIDE UNION ON EACH SIDE OF PUMP IF PUMP BODY NOT FLANGED STYLE PIPE CONNECTIONS.
5. PROVIDE SPRING ISOLATORS FOR SUPPORTS.

PUMP CONTROL:  
- PUMP TO START WHEN WATER TEMPERATURE IS 95°F AND STOP WHEN WATER TEMPERATURE IS 105°F

#### 2 HOT WATER CIRCULATION PUMP DETAIL

SCALE: NOT TO SCALE



#### 3 EMERGENCY SHOWER/EYEWASH DETAIL

SCALE: NOT TO SCALE



NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 1-00001  
DESIGNED: JCJ  
DRAWN: DLO  
CHECKED: JCJ  
APPROVED: MAK  
DATE: MARCH 3, 2020



WHITMAN COUNTY CAROTHERS ROAD SOLID WASTE FACILITY  
MRW BUILDING REMODEL  
PLUMBING DETAILS

SHEET NO.  
**M10**  
10 OF 10



EXPIRES 2/20/21



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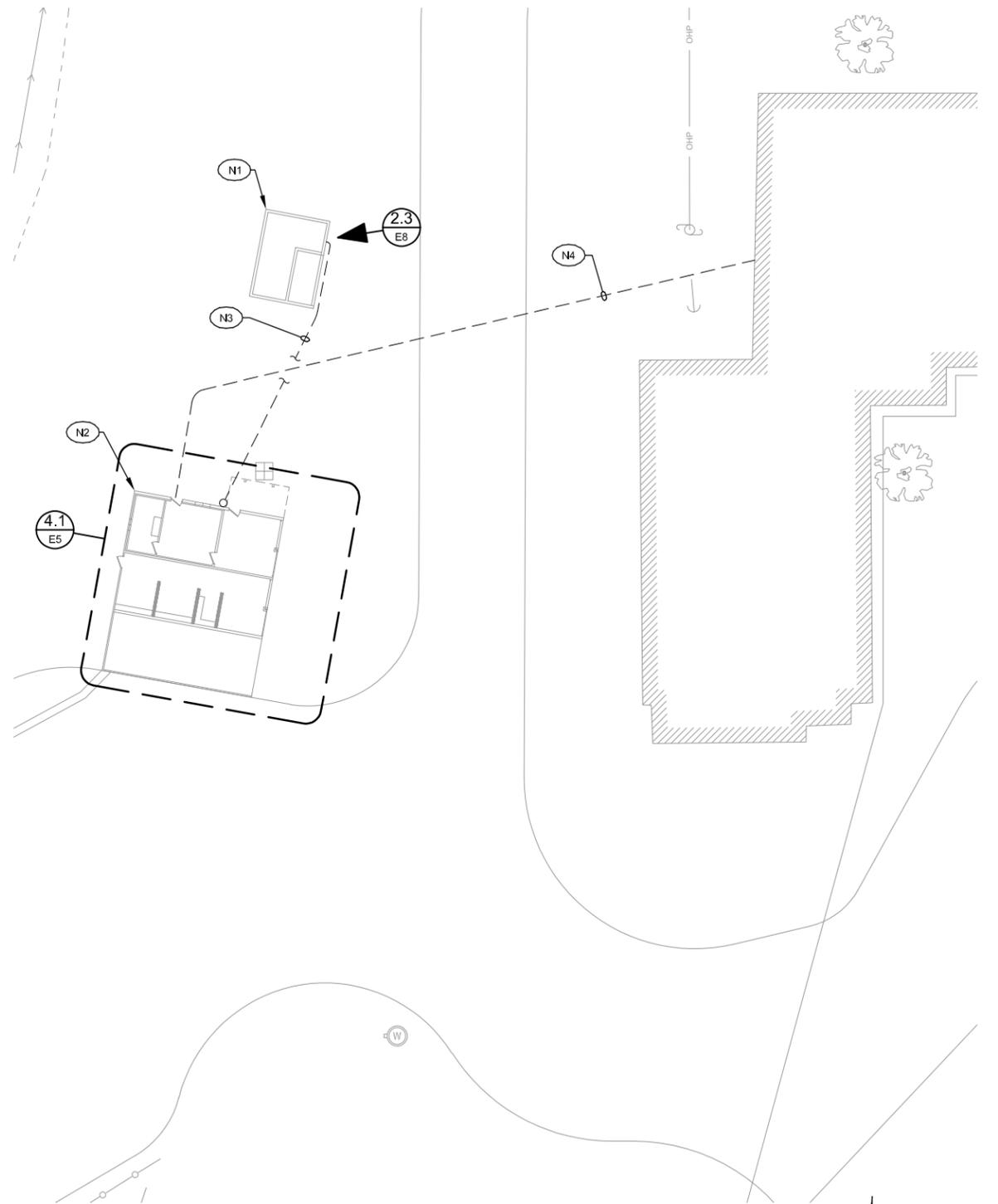
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	ABBREVIATIONS	REFERENCE SYMBOLS	
	LED LUMINAIRE, WITH EMERGENCY BATTERY PACK		CONDUIT EXPOSED		GROUND ROD IN GROUND ROD BOX	A-AMP - AMPERE		VAULT CALLOUT
	LED LUMINAIRE		CONDUIT UNDER FLOOR OR UNDERGROUND		TRANSFORMER, PLAN VIEW SHOWN TO SCALE	AL - ALARM		EQUIPMENT CALLOUT
	LED LUMINAIRE		TYPE-SOOW CABLE		CURRENT TRANSFORMER, NUMBER INDICATES NUMBER OF C.T.'S. PLAN VIEW SHOWN TO SCALE	AC - AIR COMPRESSOR		SECTION LETTER
	LED LUMINAIRE		EXISTING CONDUIT ROUTED UNDERGROUND		MOTOR, NUMBER INDICATES HORSEPOWER	AF - AMPERE FRAME		FIGURE OR PHOTO DETAIL NUMBER
	LED LUMINAIRE, WITH EMERGENCY BATTERY PACK		UNDERGROUND PRIMARY POWER		OVERTEMPERATURE CUTOUT	AFG - ABOVE FINISHED GRADE		DETAIL AREA
	EMERGENCY WALL PACK		MC-HL CABLE WITH XP SEAL FITTINGS		LOCAL EQUIPMENT CONTROL PANEL - MCP, LCP, FACP	AFF - ABOVE FINISHED FLOOR		WIRING DIAGRAM DETAIL LOCATION
	LED LUMINAIRE, POLE MOUNTED		CONDUIT FLEXIBLE		SOLENOID VALVE	AFS - AMPERE FUSE		ADDENDUM NUMBER
	LIGHTED EXIT SIGN, BACK OR END MOUNTED. SHADED AREA INDICATES FACE. ARROW INDICATES DIRECTIONAL ARROW.		HEAT TAPE ON PIPING		MAGNETIC MOTOR STARTER (SS-SOLID STATE)	AI - ANALOG INPUT POINT (PLC)		
	LED LUMINAIRE, WALL MOUNTED		MANUFACTURERS CORD/CABLE		MAGNETIC MOTOR STARTER W/ DISCONNECT	AIC - AMPS INTERRUPTING CAPACITY		
	LED LUMINAIRE, WALL MOUNTED WITH EMERGENCY BATTERY PACK		CONDUIT TURNED UP OR TOWARD		FULL VOLTAGE STARTER/NEMA SIZE MS = MOTOR STARTER CONTACT	AIL - AMBER INDICATING LIGHT		
	SPECIAL PURPOSE RECEPTACLE - AS NOTED		CONDUIT TURNED DOWN OR AWAY		ISOLATION CONTACTOR	ALT - ALTERNATOR		
	DUPLEX RECEPTACLE Y=NOTATIONS FOR ALL RECEPTACLE TYPES: GFI = GROUND FAULT CIRCUIT INTERRUPTER (GFCI) HT = HEAT TRACE RECEPTACLE W = WEATHER PROOF COVER I = ISOLATED GROUND C = CEILING MOUNTED RECEPTACLE SW = SPLIT CIRCUITING +X = INDICATES CENTERLINE MOUNTING HEIGHT ABOVE FINISHED FLOOR OR GRADE		CONDUIT CAPPED		MAINTAINED ON/OFF SWITCH	AO - ANALOG OUTPUT POINT (PLC)		
	QUAD RECEPTACLE		CONDUIT SEALS, CLASS 1, DIV.1 EXPLOSION PROOF		DISCONNECT SWITCH, NON FUSED (60A) INDICATES AMPERAGE RATING	AS - AMPERE SWITCH		
	SURFACE POWER/DATA RACEWAY.		CONDUIT HOME RUN 3/4"C, 2#12 & #12 GND. TO PANEL L, CKT. 7 UNLESS SHOWN OTHERWISE		DISCONNECT SWITCH, FUSED 200 = SWITCH RATING, 100 = FUSE RATING	AT - AMPERE TRIP		
	DATA OUTLET		CONDUIT HOME RUN - SEE SCHEDULE		TIME DELAYED CONTACTS (TIME DELAY TO OPEN) (TIME DELAY TO CLOSE)	ATS - AUTOMATIC TRANSFER SWITCH		
	COMBINATION DATA / TELEPHONE OUTLET		VAULT/HANDHOLE WITH DESIGNATION		INDICATING LIGHT: A = AMBER G = GREEN W = WHITE B = BLUE R = RED	BC - BATTERY CHARGER		
	THERMOSTAT		JUNCTION BOX		PUSH TO TEST INDICATING LIGHT TRANSFORMER TYPE LIGHTED PUSHBUTTON	BH - BLOCK HEATER		
	HUMIDISTAT		CKT. BKR, RATING/NO. OF POLES WITH THERMAL MAGNETIC CIRCUIT BREAKER TRIP AT = AMPERAGE TRIP AF = AMPERAGE FRAME P = POLE LSIG = LONG, SHORT, INSTANTANEOUS GROUND ST = SHUNT TRIP		SELECTOR SWITCH: HOR = HAND/OFF/REMOTE AS = AMP SWITCH HOA = HAND/OFF/AUTO VS = VOLT SWITCH ROL = RMOTE/OFF/LOCAL RO = RUN/OFF	BIL - BLUE INDICATING LIGHT		
	CABLE TV CONNECTION POINT		TRANSFER SWITCH		EV=ELECTRICAL VAULT, PV=POWER VAULT SV=SIGNAL VAULT	BP - BYPASS CONTACTOR		
	PANELBOARD		POWER CAPACITOR		HAND SWITCH	BP - BYPASS CONTACTOR		
	TERMINAL		FULL VOLTAGE NON-REVERSING STARTER, NEMA SIZE 1 FVNR = FULL VOLTAGE REVERSING		PUSHBUTTON SWITCH, MOMENTARY ON	BP - BYPASS CONTACTOR		
	TERMINAL IN MCP		VARIABLE FREQUENCY CONTROLLER		EMERGENCY STOP SWITCH (PUSH/PULL)	BP - BYPASS CONTACTOR		
	TERMINAL REMOTE DEVICE OR PANEL		SOLID STATE STARTER, REDUCED VOLTAGE WITH ISOLATION & BYPASS CONTACTORS IC = ISOLATION CONTACTOR BP = BYPASS CONTACTOR		PRESSURE SWITCH, NORMALLY CLOSED	BP - BYPASS CONTACTOR		
			FUSE		FLOW SWITCH, NORMALLY CLOSED	BP - BYPASS CONTACTOR		
			AMMETER (WHM-WATT HOUR METER)		LIMIT SWITCH, NORMALLY OPEN	BP - BYPASS CONTACTOR		
			VOLTMETER		LEVEL SWITCH, CLOSING ON RISING LEVEL	BP - BYPASS CONTACTOR		
			METER & SWITCH: A = AMP, V = VOLT		TS-TEMP. SWITCH, (SEE DWG. FOR OPERATION) TC-THERMOCOUPLE, T-THERMOSTAT	BP - BYPASS CONTACTOR		
			CONTROL RELAY		POTENTIOMETER	BP - BYPASS CONTACTOR		
			RUN TIME METER/ELAPSED TIME METER		LEVEL (T=TRANSMITTER, E=ELEMENT, S=SWITCH)	BP - BYPASS CONTACTOR		
			PHOTO ELECTRIC CELL		PRESSURE TRANSMITTER	BP - BYPASS CONTACTOR		
			PANEL HEATER WITH FAN AND THERMOSTAT		SPEED INDICATOR	BP - BYPASS CONTACTOR		
			CONDUCTORS NOT CONNECTED		FLOW TRANSMITTER	BP - BYPASS CONTACTOR		
			CONDUCTORS CONNECTED		DOOR SECURITY SWITCH	BP - BYPASS CONTACTOR		
			PULL OUT SWITCH/PLUG-RECEPTACLE CONNECTION		TORQUE SWITCH	BP - BYPASS CONTACTOR		
			NORMALLY OPEN CONTACT, (WHEN DE-ENERGIZED)		VIBRATION SENSOR	BP - BYPASS CONTACTOR		
			NORMALLY CLOSED CONTACT, (WHEN DE-ENERGIZED)		CONTROL STATION, SINGLE OR MULTIPLE SWITCHES	BP - BYPASS CONTACTOR		
			THERMAL OVERLOAD RELAY		MOISTURE SENSOR	BP - BYPASS CONTACTOR		
			SOLID STATE OVERLOAD		HEATER	BP - BYPASS CONTACTOR		
			TERMINAL		RESISTANCE TEMPERATURE DEVICE	BP - BYPASS CONTACTOR		
			EXHAUST FAN		UNIT HEATER	BP - BYPASS CONTACTOR		
			GRAVITY LOUVER			BP - BYPASS CONTACTOR		
			KURT KEY INTERLOCK			BP - BYPASS CONTACTOR		

PROJECT: M19126	DESIGNED: JWA	DRAWN: TJS	CHECKED: RJW	APPROVED: RJW	DATE: MARCH 11, 2020
<p>CAROTHERS ROAD SOLID WASTE FACILITY</p> <p><b>MRW BUILDING REMODEL</b></p> <p>ELECTRICAL LEGEND</p>					
SHEET NO. <b>E1</b> OF 8					

ELECTRICAL LEGEND			
SYMBOL	DESCRIPTION	GENERAL NOTES	
\$x	WALL MOUNTED TOGGLE SWITCH, SINGLE POLE, SINGLE THROW, MOUNTED AT 48" TO TOP OF PLATE UNLESS OTHERWISE NOTED X= NOTATIONS FOR SWITCHES: 2 = DOUBLE POLE 3 = 3-WAY 4 = 4-WAY D = DIMMER K = KEY OPERATED P = SWITCH WITH PILOT LIGHT WP = WEATHER PROOF COVER M = MOTION SENSOR SW = SPLIT CIRCUITING +X = INDICATES MOUNTING HEIGHT TO TOP OF PLATE, ABOVE FINISHED FLOOR OR GRADE	<p>1. THIS IS A STANDARD LEGEND SHEET. THEREFORE SOME ABBREVIATIONS OR SYMBOLS THAT APPEAR ON THIS SHEET MAY NOT BE USED ON THIS PROJECT.</p> <p>2. THE ELECTRICAL PLAN DRAWINGS ARE GENERALLY DIAGRAMMATIC. THE LOCATION OF EQUIPMENT IS APPROXIMATE UNLESS DIMENSIONED. EXACT LOCATIONS AND ROUTING OF CONDUITS AND WIREWAYS SHALL BE GOVERNED BY STRUCTURAL CONDITIONS AND PHYSICAL INTERFERENCES AND BY LOCATIONS OF ELECTRICAL TERMINATIONS ON EQUIPMENT.</p> <p>3. NOT ALL CONDUIT MAY BE SHOWN OR CALLED OUT FOR CLARITY. SEE CONDUIT AND WIRE SCHEDULE FOR ADDITIONAL CONDUIT.</p> <p>4. IN ADDITION TO THE 120VAC RECEPTACLES INDICATED ON THE PLANS, CONTRACTOR SHALL AS PART OF THE BASE BID PROVIDE UP TO 12 WEATHERPROOF, GFI RECEPTACLES INCLUDING 100 FEET OF 3/4" GRC, (3) 12 AWG CONDUCTORS, AND A 20A CIRCUIT BREAKER EACH. THE LOCATION OF THE ADDITIONAL RECEPTACLES SHALL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION.</p> <p>5. IN ADDITION TO THE DATA OUTLETS INDICATED ON THE PLANS, CONTRACTOR SHALL AS PART OF THE BASE BID PROVIDE UP TO 6, FOUR PORT RJ-45 OUTLETS INCLUDING 100 FEET OF 1" CONDUIT AND FOUR CAT 5e CABLES EACH WITH PUNCHDOWN CONNECTIONS. THE LOCATION OF THE ADDITIONAL OUTLETS SHALL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION.</p>	
\$a, \$b	INDICATES SWITCHES a & b MOUNTED IN SEPARATE BOXES WITH SEPARATE COVER PLATES.		
\$a, b, c	INDICATES MULTIPLE SWITCHES IN GANGED BOX WITH COMMON COVERPLATE. "a,b,c" INDICATES NUMBER OF INDIVIDUAL SWITCHES AND FIXTURES CONTROLLED.		
SYMBOL	SECURITY	SYMBOL	FIRE PROTECTION
	CLOSED CIRCUIT TELEVISION CAMERA		FIRE ALARM CONTROL PANEL
	PAN-TILT-ZOOM CAMERA		COMBUSTIBLE GAS DETECTOR
	KEY PAD		SMOKE DETECTOR, CEILING MOUNTED
	CARD READER		ADDRESSABLE FIRE ALARM SYSTEM RELAY
	SECURITY CONTROL PANEL		HEAT DETECTOR
	FIRE ALARM PULL STATION		FIRE ALARM HORN STROBE, WALL MOUNTED C = CEILING MOUNTED WP = WEATHERPROOF
	FIRE ALARM HORN		FIRE ALARM STROBE
	FLOW SWITCH		
	TAMPER SWITCH		
	BELL		

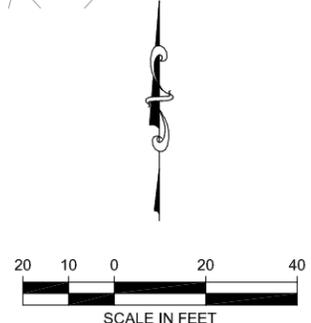


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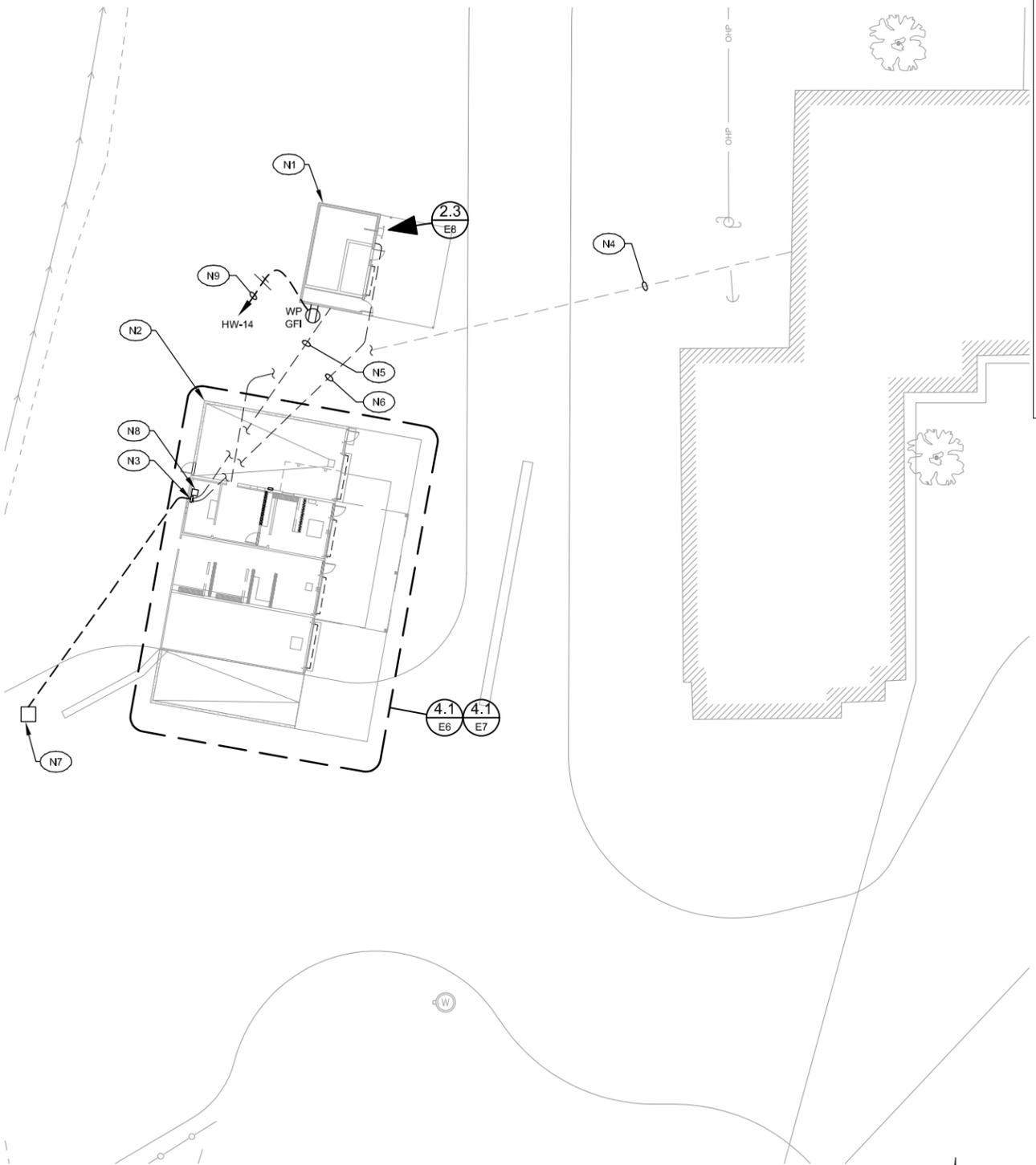


**NOTES: (for this detail)**

- (N1) EXISTING COMBUSTIBLE STORAGE BUILDING.
- (N2) EXISTING MRW BUILDING.
- (N3) EXISTING 3/4" C. FROM MAIN BUILDING TO COMBUSTIBLE BUILDING.
- (N4) EXISTING 2" COMMUNICATIONS CONDUIT.

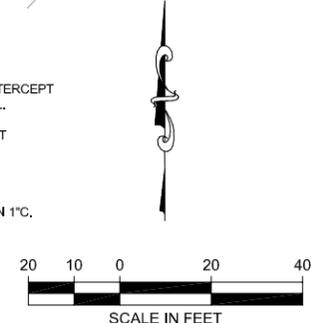


**4.1 EXISTING ELECTRICAL SITE PLAN**  
SCALE: 1"=40'



**NOTES: (for this detail)**

- (N1) EXISTING COMBUSTIBLE STORAGE BUILDING
- (N2) REMODELED MRW BUILDING.
- (N3) PANEL "HW".
- (N4) EXISTING 2" CONDUIT FOR COMMUNICATIONS.
- (N5) PROVIDE 2" SPARE CONDUIT FROM NEW PANEL "HW" TO EXISTING COMBUSTIBLE STORAGE BUILDING. TERMINATE 2" CONDUIT AT A JUNCTION BOX INSIDE COMBUSTIBLE STORAGE BUILDING.
- (N6) EXISTING 3/4" C. FOR EXISTING FUEL PUMP. INTERCEPT EXISTING CONDUIT AND ROUTE TO NEW PANEL.
- (N7) AVISTA UTILITY PAD MOUNT TRANSFORMER, CT ENCLOSURE AND METERING.
- (N8) TRANSFORMER "T1".
- (N9) PROVIDE (2) 10 AWG CU, (1) 10 AWG CU GND., IN 1".



**4.2 PROPOSED ELECTRICAL SITE PLAN**  
SCALE: 1"=40'

**AEI**  
Engineering  
Incorporated  
1038 W. Davidson Avenue  
Coeur d'Alene, ID 83814  
(208) 666-4001 office  
(208) 666-4021 fax

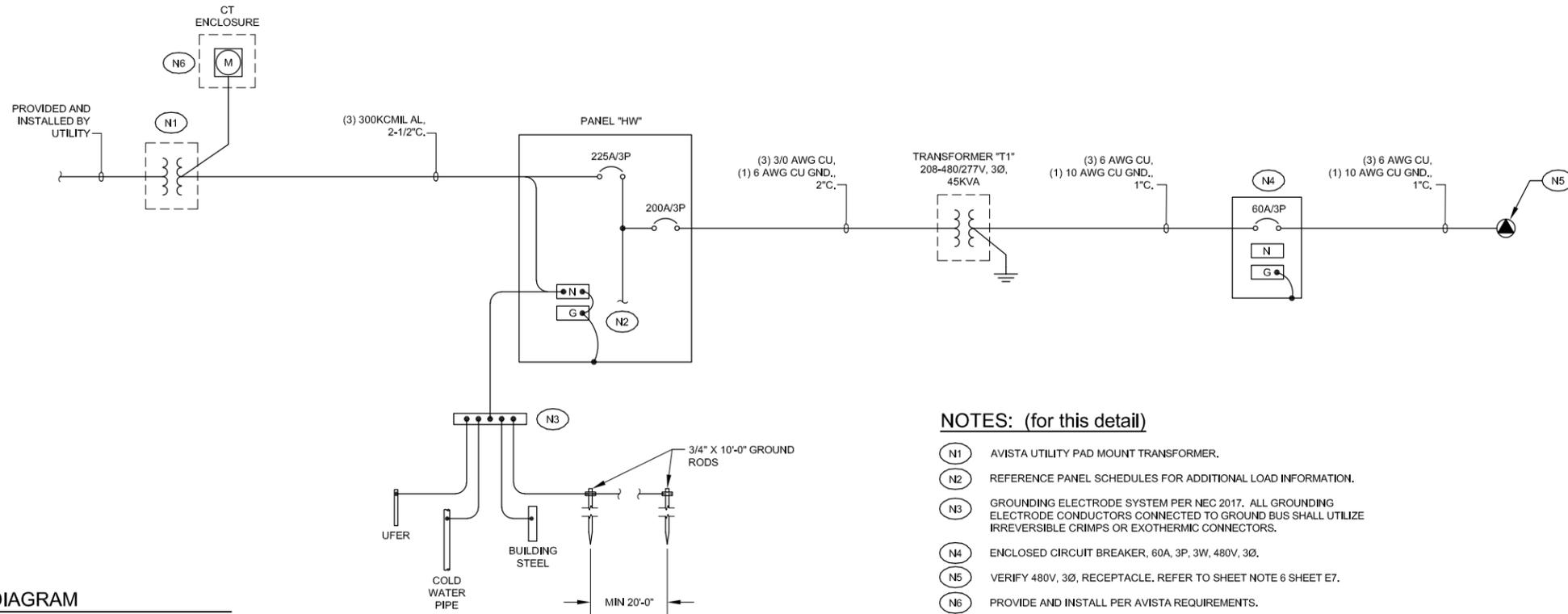
PROJECT: M19126	DESIGNED: JWA	DRAWN: TJS	CHECKED: RJW	APPROVED: RJW	DATE: MARCH 11, 2020
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CAROTHERS ROAD SOLID WASTE FACILITY  
**MRW BUILDING REMODEL**  
EXISTING AND PROPOSED ELECTRICAL SITE PLANS

NO.	REVISION DESCRIPTION	BY	DATE
1	ISSUED FOR BID	RJM	03/11/20

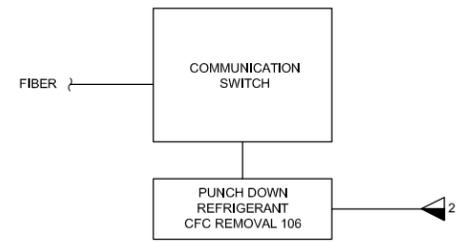




**NOTES: (for this detail)**

- (N1) AVISTA UTILITY PAD MOUNT TRANSFORMER.
- (N2) REFERENCE PANEL SCHEDULES FOR ADDITIONAL LOAD INFORMATION.
- (N3) GROUNDING ELECTRODE SYSTEM PER NEC 2017. ALL GROUNDING ELECTRODE CONDUCTORS CONNECTED TO GROUND BUS SHALL UTILIZE IRREVERSIBLE CRIMPS OR EXOTHERMIC CONNECTORS.
- (N4) ENCLOSED CIRCUIT BREAKER, 60A, 3P, 480V, 3Ø.
- (N5) VERIFY 480V, 3Ø, RECEPTACLE. REFER TO SHEET NOTE 6 SHEET E7.
- (N6) PROVIDE AND INSTALL PER AVISTA REQUIREMENTS.

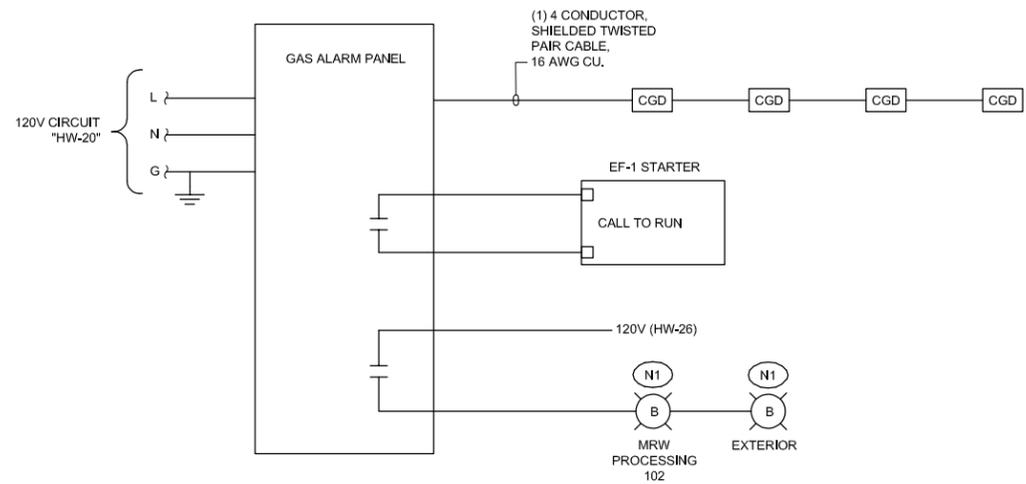
**2.1 ONE-LINE DIAGRAM**  
NOT TO SCALE



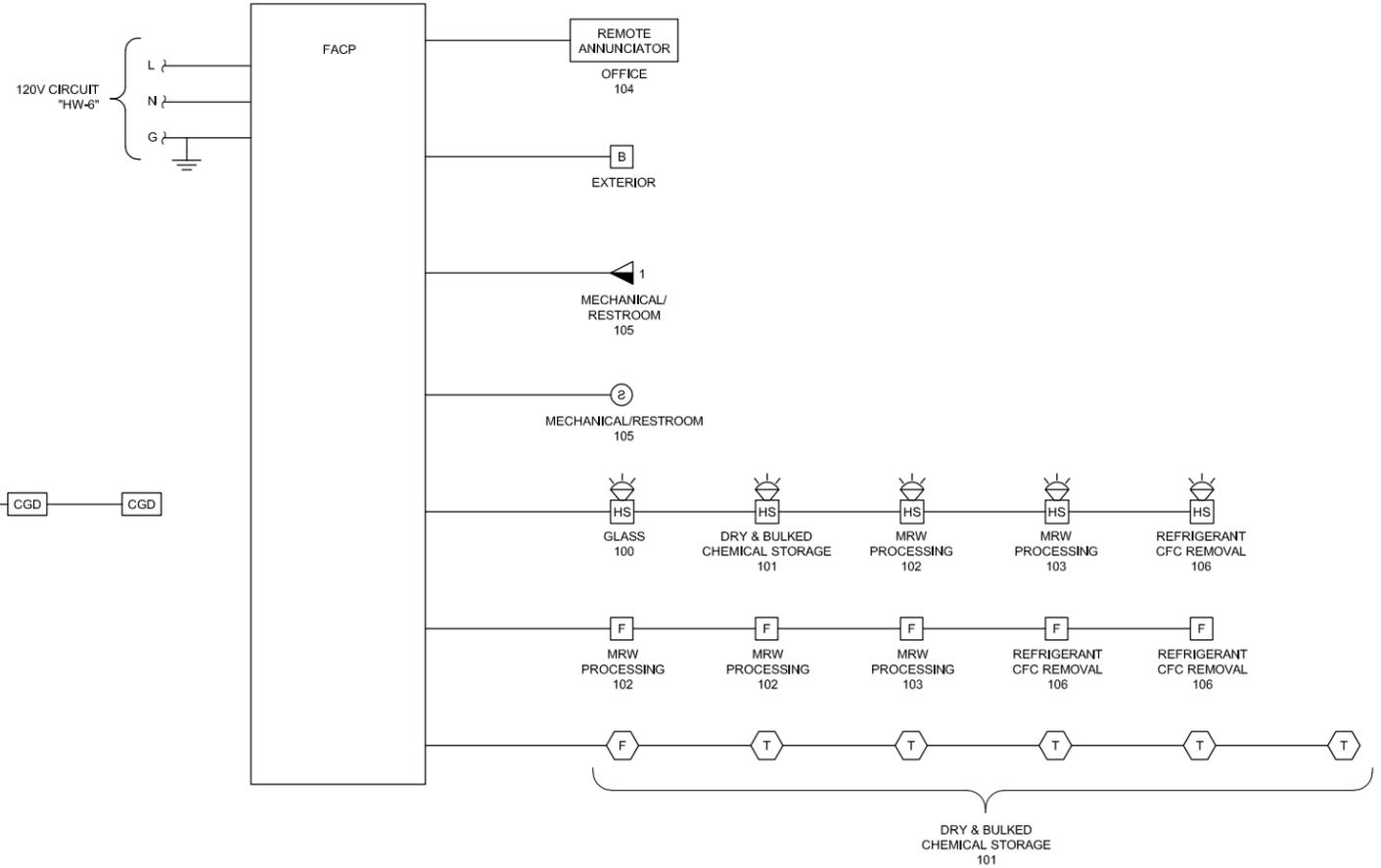
**NOTES: (for this detail)**

- (N1) GAS ALARM NOTIFICATION BEACON SHALL BE FEDERAL SIGNAL: LP-35-120-B.

**COMMUNICATION**



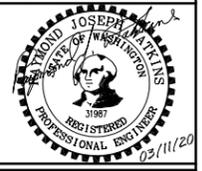
**GAS DETECTOR RISER DIAGRAM**



**FIRE ALARM RISER DIAGRAM**

**4.1 RISER DIAGRAMS**  
NOT TO SCALE

PROJECT: M19126	NO. / DATE
DESIGNED: JWA	ISSUED FOR BID
DRAWN: TLS	
CHECKED: RJW	
APPROVED: RJW	
DATE: MARCH 11, 2020	
1038 W. Davidson Avenue Coeur d'Alene, ID 83814 (208) 666-4001 office (208) 666-4021 fax	



CAROTHERS ROAD SOLID WASTE FACILITY  
**MRW BUILDING REMODEL**  
 ONE-LINE DIAGRAM AND RISER DIAGRAMS

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ELECTRICAL/MECHANICAL EQUIPMENT SCHEDULE														
ITEM	DESCRIPTION LOCATION	VOLTS PHASE	KW	HP	FLA	MCA	MOCP	STARTER BY	DISC SW BY	DISC SIZE	CONTROL METHOD BY	FEEDER	CKT NO.	NOTES
CU-1	CONDENSING UNIT EXTERIOR	208/1	1.96	-	9.4	11.7	20	-	EC	30	MC	2#12,1#12G,3/4"C	HW-16,18	
CU-2	EX CONDENSING UNIT EXTERIOR	208/1	2.06	-	9.9	12.4	20	-	EC	30	MC	2#12,1#12G,3/4"C	HW-22,24	
CP-1	CIRC. PUMP MECH/R.R.	120	0.03	FRAC.	0.2	-	20	-	EC	20	MC	2#12,1#12G,3/4"C	HW-15	GFCI NEMA 5-20R
EF-1	EXHAUST FAN MAIN BLDG. EXT.	208/3	3.96	3	11	-	20	EC	MC	30	MC	3#12,1#12G,3/4"C	HW-25,27,29	SIZE NEMA 0
EF-2	EX EXHAUST FAN MECH/R.R.	120	0.18	FRAC.	1	-	15	-	EC	15	-	2#12,1#12G,3/4"C	HW-13	RECONNECT TO EXISTING CONTROLS
F-1	GAS FURNACE CFC REMOVAL	115	0.69	-	6	7.5	15	-	EC	15	MC	2#12,1#12G,3/4"C	HW-31	TOGGLE SWITCH DISCONNECT
F-2	EX GAS FURNACE MECH/RR	115	0.69	-	6	7.5	15	-	EC	15	MC	2#12,1#12G,3/4"C	HW-33	TOGGLE SWITCH DISCONNECT
MAU-1	MAKE UP AIR MAIN BLDG. EXT.	208/3	3.64	2	-	10.1	15	MC	EC	30	MC	3#12,1#12G,3/4"C	HW-19,21,23	PROVIDED WITH VFD
WH-1	GAS WATER HEATER MECH/R.R.	120	0.6	-	5	-	20	-	EC	20	MC	2#12,1#12G,3/4"C	HW-15	GFCI NEMA 5-20R

LUMINAIRE SCHEDULE								
TYPE	DESCRIPTION	VOLTS	LAMP QTY	WATTS / FIXTURE	MOUNTING	MANUFACTURE NUMBER		NOTES
						BASIS OF DESIGN	OR EQUAL BY	
F1/F1E	4FT., 4000K, LED ENCLOSED AND GASKETED, FROSTED POLYCARBONATE LENS, STAINLESS STEEL HARDWARE	120	LED 12884 LUMENS	83	CEILING	ILP: BL-80WLED-UNIV-40-F/PCL-FI/ILBCP12 (WHERE INDICATED)	OR EQUAL	MOUNT FIXTURE AT CEILING IN PROCESSING AND CFC ROOM
F2/F2E	2' X 4' LED TROFFER, 4000K	120	LED 3800 LUMENS	30.6	RECESSED CEILING	METALUX: 24GR-LD5-38-A19/156-UNV-GL-L840-CD1-EL14W (WHERE INDICATED)	OR EQUAL	
F3/F3E	4' LED STRIP, 4000K	120	LED 4760 LUMENS	35	SUSPENDED 10' AFF	METALUX: 4SNLED-LD5-46LC-UNV-EL14W (WHERE INDICATED)-L840	OR EQUAL	
M1/M1E	LED WALL PACK	120	LED 1884 LUMENS	27	WALL	LUMARK: LDWP-FC-3B-120V-F1-PE120V-EMLED-CD(WHERE INDICATED)	OR EQUAL	
X1	SELF LUMINOUS EXIT SIGN	-	-	-	WALL	EMERGI-LITE: WSLX-2061R-PC-N	OR EQUAL	

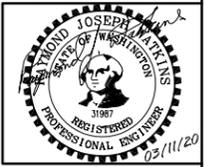
GLASS CRUSHER LOAD CALCULATION				
480 VAC, 3Ø, 3w				
		LOAD (VA)		
		Ø A	Ø B	Ø C
M	10 HP MOTOR	3,718	3,718	3,718
M	10 HP MOTOR	3,718	3,718	3,718
M	1 HP MOTOR	478	478	478
M	1 HP MOTOR	478	478	478
M	1 HP MOTOR	478	478	478
<b>Total Connected Load (VA):</b>		<b>8,870</b>	<b>8,870</b>	<b>8,870</b>
<b>+ 25% of Largest Motor:</b>		<b>930</b>	<b>930</b>	<b>930</b>
<b>Total Code Load (VA):</b>		<b>9,800</b>	<b>9,800</b>	<b>9,800</b>
<b>Total Code Load (Amps):</b>		<b>36</b>	<b>36</b>	<b>36</b>

Panel: HW		Mains: 225A			Voltage: 208Y/120 VAC, 3ø, 4w			
Mounting: SURFACE		Poles: 54 Type: CB			Min. A.I.C.: 18,000			
Use and/or Area Served	C/B	Cir. No.	Load			Cir. No.	C/B	Use and/or Area Served
			Ø A	Ø B	Ø C			
L INTERIOR LIGHTS	20	1	1822			2	20	FUEL PUMP AT EXISTING COMBUSTIBLE STORAGE BLDG.
L EXTERIOR LIGHTS	20	3	828	270		4	2	FUEL PUMP AT EXISTING COMBUSTIBLE STORAGE BLDG.
L COVERED RECEIVING LIGHTS	20	5		249		6	20	FACP
R OFFICE RECEPTACLES	20	7	720			8	200	GLASS CRUSHER TRANSFORMER
R RECEPTACLES MRW PROCESSING, DYR & BULKED CHEM. STORAGE	20	9	8,870	540		10		GLASS CRUSHER TRANSFORMER
R RECEPTACLES EXTERIOR, MECH/RR, GLASS	20	11		1440		12	3	GLASS CRUSHER TRANSFORMER
M EF-2	15	13	180			14	20	COMBUSTIBLE STORAGE BLDG. RECEPTACLE
C WH-1, CP-1	20	15	180	628		16	20	CU-1
R RECEPTACLES CFC, EXTERIOR	20	17		978		18	2	CU-1
M MAU-1	15	19	1213			20	20	GAS ALARM PANEL
M MAU-1		21	300	1213		22	20	CU-2
M MAU-1		23		1030		24	2	CU-2
M EF-1	20	25	1321			26	20	GAS ALARM NOTIFICATION BEACON
M EF-1		27	240	1321		28	20	SPARE
M EF-1		29				30	20	SPARE
C F-1	15	31				32	20	SPARE
C F-2	15	33				34	20	SPARE
SPACE	20	35				36	20	SPARE
SPACE	20	37				38	20	SPARE
SPACE	20	39				40	20	SPARE
SPACE	20	41				42	20	SPARE
SPACE	20	43				44	20	SPARE
SPACE	20	45				46	20	SPARE
SPACE	20	47				48	20	SPARE
SPACE	20	49				50	30	SPD
SPACE	20	51		10		52		SPD
SPACE	20	53				54	3	SPD
<b>Total Connected Load (VA):</b>			15684	15688	16511	NOTES:		
<b>+ 25% of Continuous Load:</b>			593	227	190	1.) PROVIDE INTERGRAL PANEL SPD PROTECTION.		
<b>+ 25% of Largest Motor:</b>			331	331	331	2.) PROVIDE GFCI BREAKER FOR CIRCUIT 9.		
<b>Total Code Load (VA):</b>			<b>16608</b>	<b>16246</b>	<b>17032</b>			
<b>Total Code Load (Amps):</b>			<b>139</b>	<b>136</b>	<b>142</b>			

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NO.	REVISION DESCRIPTION	BY	DATE
1	ISSUED FOR BID	RJM	03/11/20



CAROTHERS ROAD SOLID WASTE FACILITY  
**MRW BUILDING REMODEL**  
ELECTRICAL SCHEDULES

SHEET NO.

**E4**

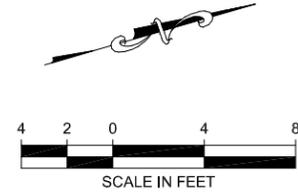
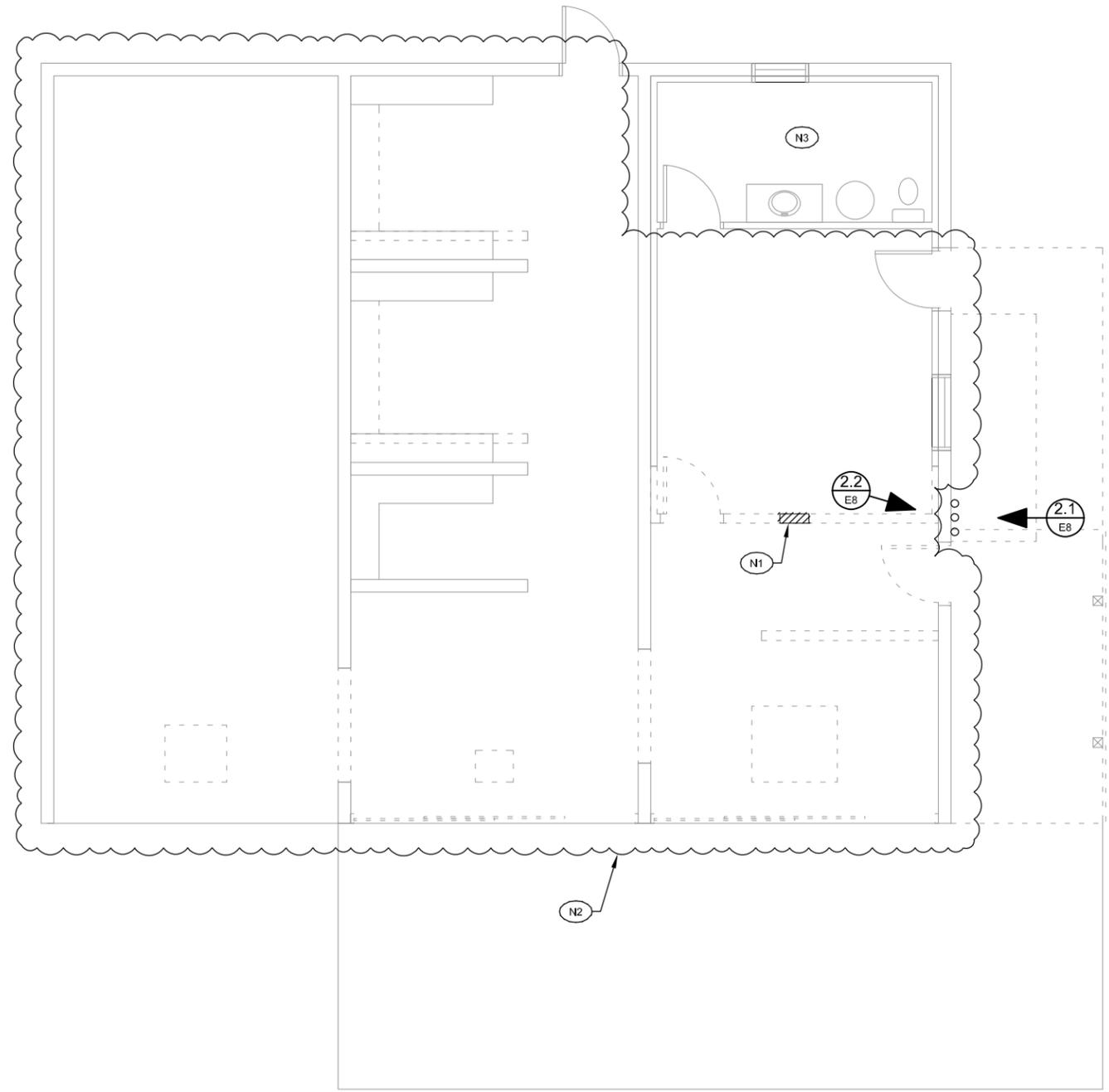
OF 8



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# 4.1 ELECTRICAL DEMOLITION PLAN

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



### NOTES: (for this detail)

- (N1)** EXISTING LOAD CENTER TO BE REMOVED.
- (N2)** REMOVE ALL ELECTRICAL CONDUIT, CONDUCTORS, LIGHTING, RECEPTACLES, ETC. IN THIS AREA.
- (N3)** REMOVE AND REPLACE LIGHTING. REUSE AND RECONNECT RECEPTACLES.

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NO.	REVISION DESCRIPTION	BY	DATE
1	ISSUED FOR BID	RJM	03/11/20

PROJECT: M19126  
 DESIGNED: JWA  
 DRAWN: TJS  
 CHECKED: RJW  
 APPROVED: RJW  
 DATE: MARCH 11, 2020



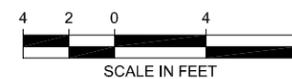
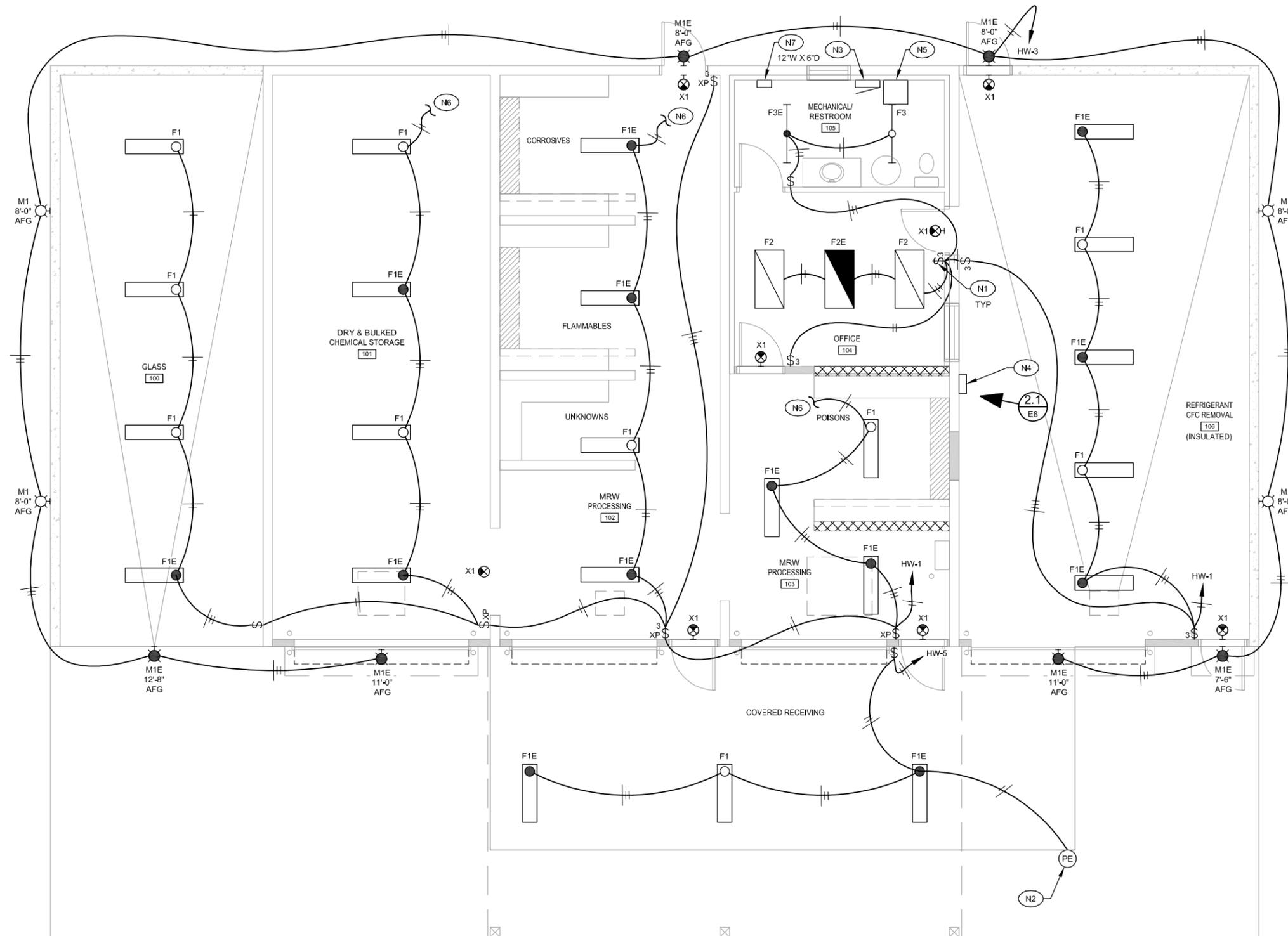
CAROTHERS ROAD SOLID WASTE FACILITY  
**MRW BUILDING REMODEL**  
 ELECTRICAL DEMOLITION PLAN

SHEET NO.  
**E5**  
 OF 8



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**4.1 LIGHTING PLAN**  
SCALE: 1/8"=1'-0"

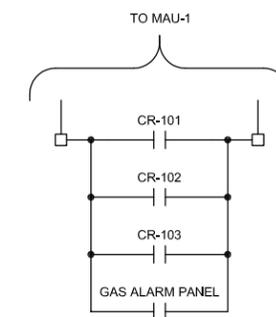
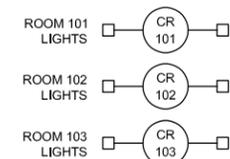


**NOTES: (for this sheet)**

- (N1) EATON GREENGATE WALL SWITCH: OSW-D-010, OR EQUAL.
- (N2) PROVIDE PHOTOCELL AT CANOPY EAVE, INTERMATIC #EK42365, OR EQUAL.
- (N3) PANEL "HW".
- (N4) COMMUNICATIONS JUNCTION BOX.
- (N5) TRANSFORMER "T1".
- (N6) TO MAU-1 CONTROL PANEL
- (N7) MAU-1 CONTROL PANEL, NEMA 1, 12"W X 12"H X 6"D.

**GENERAL NOTES:**

- 1) PROVIDE INTERPOSING RELAYS AND TERMINALS AS REQUIRED.
- 2) MAKE UP AIR UNIT "MAU-1" SHALL BE INTERLOCKED TO RUN WHEN LIGHT SWITCHES OR GAS ALARM PANEL ARE ACTIVE. REFERENCE WIRING DIAGRAM BELOW FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL PROVIDE ALL CONDUIT, WIRE, CONNECTIONS AND APPURTENANCES AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM.



**4.4 MAU-1 CONTROL WIRING DIAGRAM**  
SCALE: NOT TO SCALE

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**AEI Engineering Incorporated**

PROJECT: M19126	DESIGNED: JWA	DRAWN: TJS	CHECKED: RJW	APPROVED: RJW	DATE: MARCH 11, 2020
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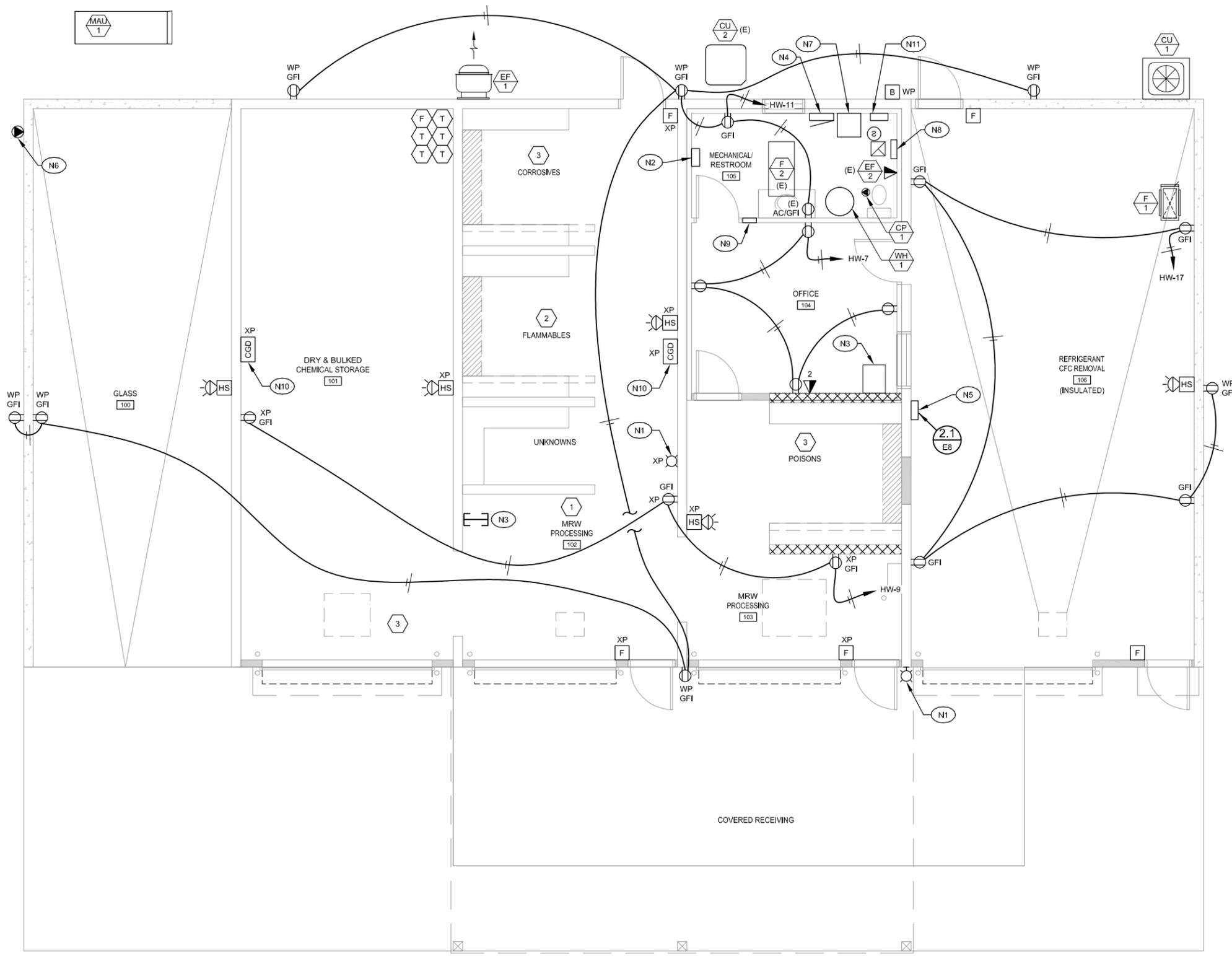


CAROTHERS ROAD SOLID WASTE FACILITY  
**MRW BUILDING REMODEL**  
LIGHTING PLAN



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**4.1** POWER AND SPECIAL SYSTEMS PLAN  
SCALE: 1/8"=1'-0"



**NOTES: (for this sheet)**

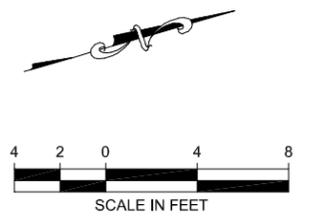
- (N1) GAS ALARM NOTIFICATION BEACON.
- (N2) GAS ALARM PANEL.
- (N3) PROVIDE 3/4" C FROM PANEL "HW". STUB AND CAP AT 40" AFF. PROVIDE CONDUIT SEALS AS REQUIRED.
- (N4) PANEL "HW".
- (N5) COMMUNICATIONS JUNCTION BOX.
- (N6) GLASS CRUSHER, 480V, 3Ø RECEPTACLE, 60A, 3P, 4W, APPLETON PART # ACP6034BC, CONFIRM WITH EXISTING RECEPTACLE.
- (N7) TRANSFORMER "T1".
- (N8) FIRE ALARM CONTROL PANEL (FACP).
- (N9) FIRE ALARM REMOTE ANNUNCIATOR, FACE TOWARDS OFFICE.
- (N10) MOUNT COMBUSTIBLE GAS DETECTORS AT 24" AFF AND 10' AFF AT EACH LOCATION.
- (N11) ENCLOSED CIRCUIT BREAKER, 60A, 3P, 3W, 480V, 3Ø.

**AREA CLASSIFICATION LEGEND**

- 1 CLASS 1, DIVISION 1:  
INCLUDES ALL AREAS WITHIN 5' OF ANY EDGE OF PROCESS OR HANDLING EQUIPMENT, EXTENDING IN ALL DIRECTIONS.
- 2 CLASS 1, DIVISION 2:  
  - ALL AREAS BETWEEN 5' AND 8' OF ANY EDGE OF PROCESS OR HANDLING EQUIPMENT, EXTENDING IN ALL DIRECTIONS.
  - ALL AREAS INDICATED TO 3' AFF.
- 3 CLASS 1, DIVISION 2:  
  - ALL AREAS INDICATED TO 3' AFF.

**GENERAL NOTES:**

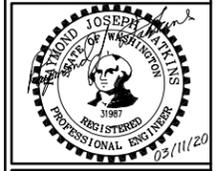
1. IN ADDITION TO THE 120VAC RECEPTACLES INDICATED ON THE PLANS, CONTRACTOR SHALL AS PART OF THE BASE BID PROVIDE UP TO 12 WEATHERPROOF, GFI RECEPTACLES INCLUDING 100 FEET OF 3/4" GRC, (3) 12 AWG CONDUCTORS, AND A 20A CIRCUIT BREAKER EACH. THE LOCATION OF THE ADDITIONAL RECEPTACLES SHALL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION.
2. IN ADDITION TO THE DATA OUTLETS INDICATED ON THE PLANS, CONTRACTOR SHALL AS PART OF THE BASE BID PROVIDE UP TO 6, FOUR PORT RJ45 OUTLETS INCLUDING 100 FEET OF 1" CONDUIT, AND FOUR CAT 5e CABLES EACH WITH PUNCHDOWN CONNECTIONS. THE LOCATION OF THE ADDITIONAL OUTLETS SHALL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION.



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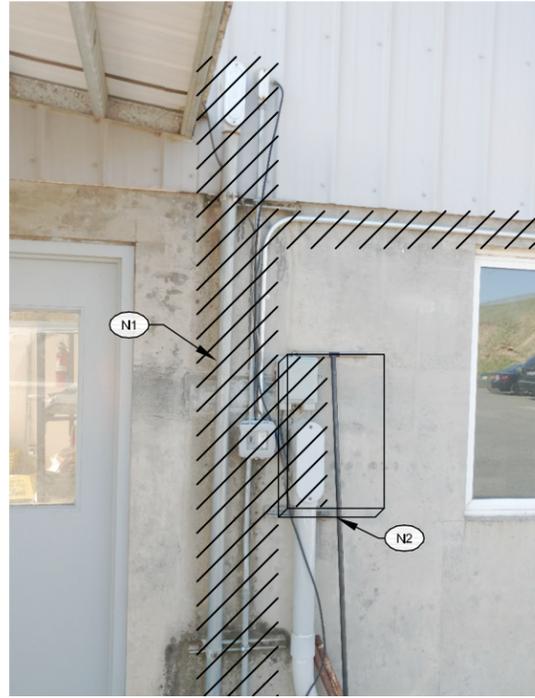
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CAROTHERS ROAD SOLID WASTE FACILITY  
**MRW BUILDING REMODEL**  
POWER AND SPECIAL SYSTEMS PLAN

SHEET NO.  
**E7**  
OF 8

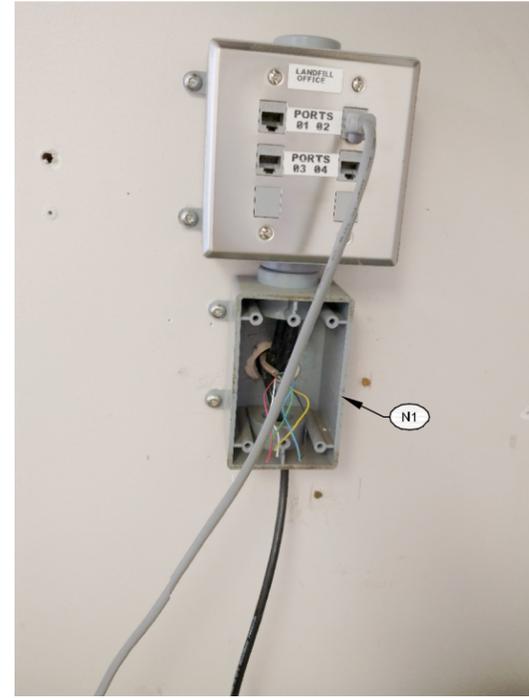




**NOTES: (for this detail)**

- N1 REMOVE EXISTING POWER FEED AND CONDUIT, LIGHT SWITCH, CONDUIT AND BRANCH WIRING FOR LIGHT CIRCUIT.
- N2 REMOVE EXISTING LB AND INTERCEPT EXISTING TELECOMMUNICATIONS CONDUIT, PROVIDE 18" X 24" X 8" JUNCTION BOX. REFERENCE DETAIL "4.1" ON THIS SHEET FOR ADDITIONAL INFORMATION.

**2.1** EXISTING MRW BUILDING CONDUITS PHOTO DETAIL  
NOT TO SCALE



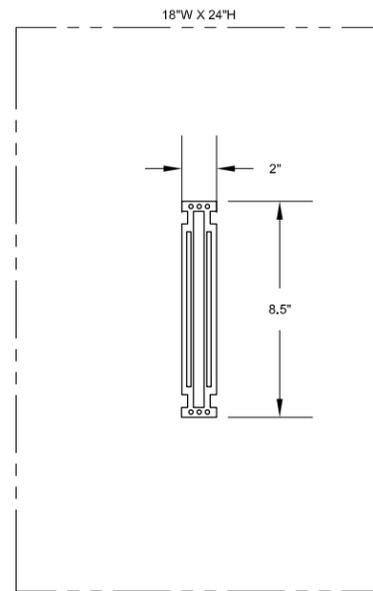
**NOTES: (for this detail)**

- N1 REMOVE EXISTING PHONE CABLE AND PULL BACK INTO NEW TELECOMMUNICATIONS JUNCTION BOX. TERMINATE EXISTING PHONE CABLE ON NEW TELECOMMUNICATION CONNECTION BLOCK. REMOVE EXISTING TELECOMMUNICATION BOXES, JACKS AND PLATE.

**2.2** EXISTING COMMUNICATIONS BREAK OUT PHOTO DETAIL  
NOT TO SCALE



**2.3** EXISTING FUEL PUMP CONNECTION PHOTO DETAIL  
NOT TO SCALE



**NOTES: (for this detail)**

- N1 NEW TELECOMMUNICATIONS JUNCTION BOX 18" X 24" X 8", NEMA 1.
- N2 48 PAIR CAT 6 110 CONNECTION BLOCK. TERMINATE EXISTING AND NEW PHONE CABLES ON BLOCK.

**4.1** TELECOMMUNICATION J-BOX DETAIL  
NOT TO SCALE

**4.2** NOT USED  
NOT TO SCALE

**4.3** NOT USED  
NOT TO SCALE

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PROJECT: M19126	REVISION DESCRIPTION	BY	DATE
DESIGNED: JWA	ISSUED FOR BID	RJM	03/11/20
DRAWN: TJS			
CHECKED: RJW			
APPROVED: RJW			
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CAROTHERS ROAD SOLID WASTE FACILITY  
**MRW BUILDING REMODEL**  
ELECTRICAL DETAILS