

CAROTHERS ROAD SOLID WASTE FACILITY

WHITMAN COUNTY, WASHINGTON

CONTRACT DOCUMENTS

for the construction of the

NEW WASTE TRANSFER BUILDING AND SITE IMPROVEMENTS

BID NO. XEW28

VOLUME III

DRAWINGS

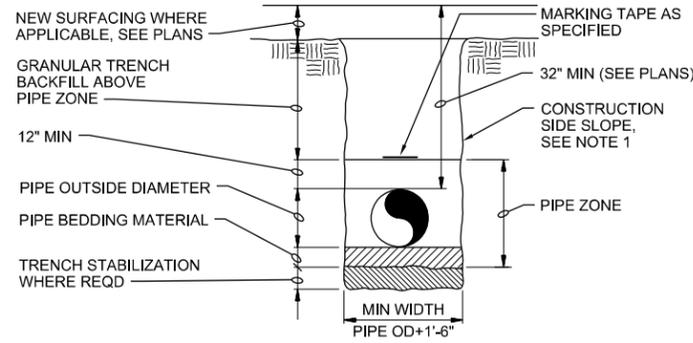
CH2M HILL

July 2013

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Project No. 437927

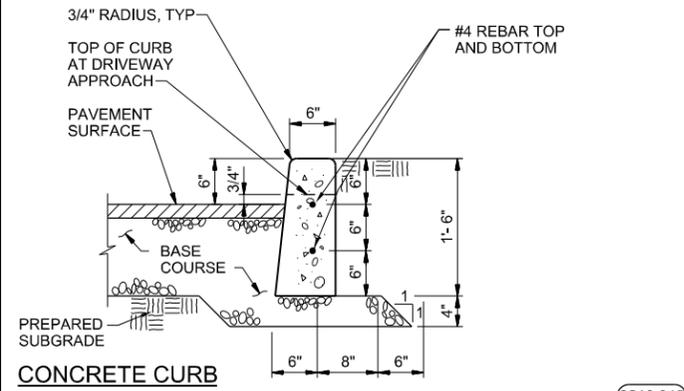


NOTES:

1. ACTUAL SLOPE OF TRENCH SIDE WALLS SHALL BE DETERMINED BY CONTRACTOR TO FIT METHOD OF CONSTRUCTION AND ALL TRENCHING SAFETY REQUIREMENTS.
2. ALL FITTINGS, VALVES, AND ANCILLARIES SHALL MEET OR EXCEED THE PIPE PRESSURE CLASS AND MEET THE ENVIRONMENTAL CONDITIONS FOR ITS INTENDED PURPOSE.

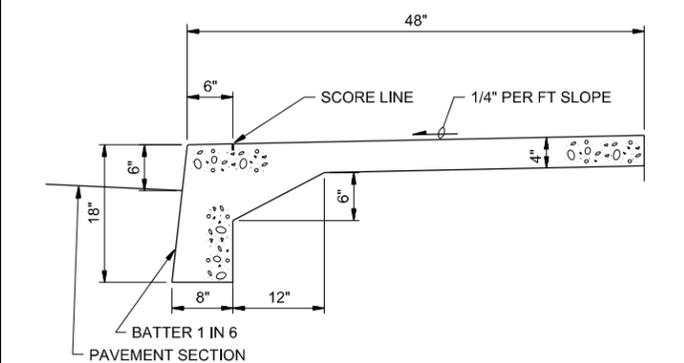
TYPICAL TRENCH

(3123-110)



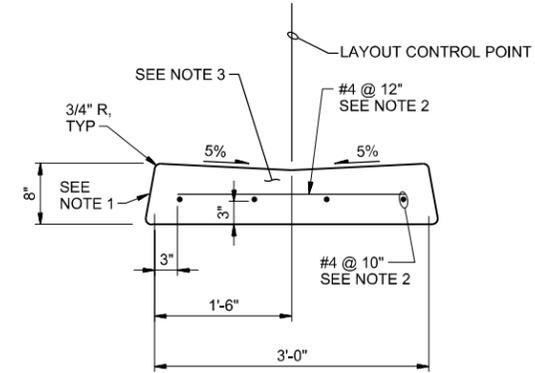
CONCRETE CURB

(3216-315)



MONOLITHIC CURB AND SIDEWALK

(3216-320)

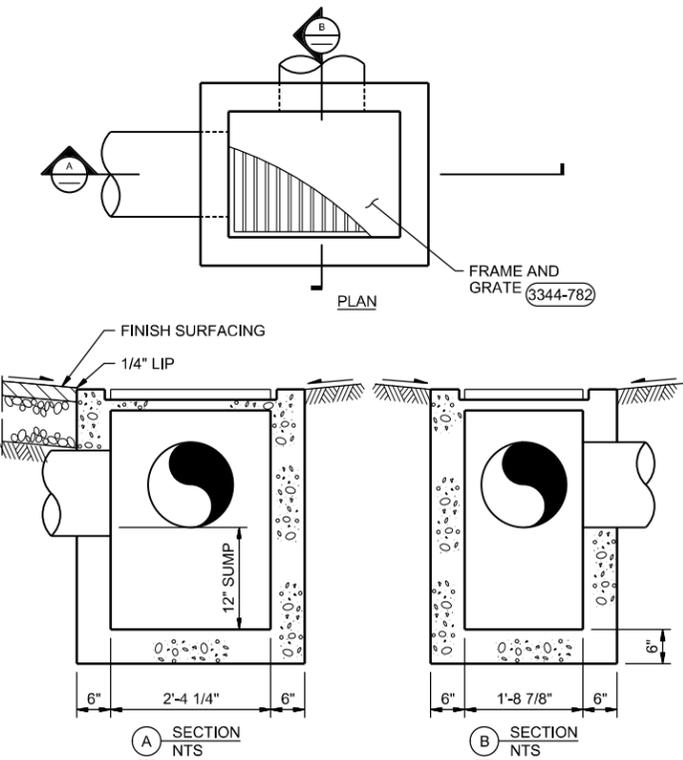


NOTES:

1. CONSTRUCT 1\"/>
- 2. PROVIDE 3\"/>
- 3. PLACE PREMOLDED FILLER AGAINST VERTICAL FACE WHERE VALLEY GUTTER ABUTS CONCRETE.

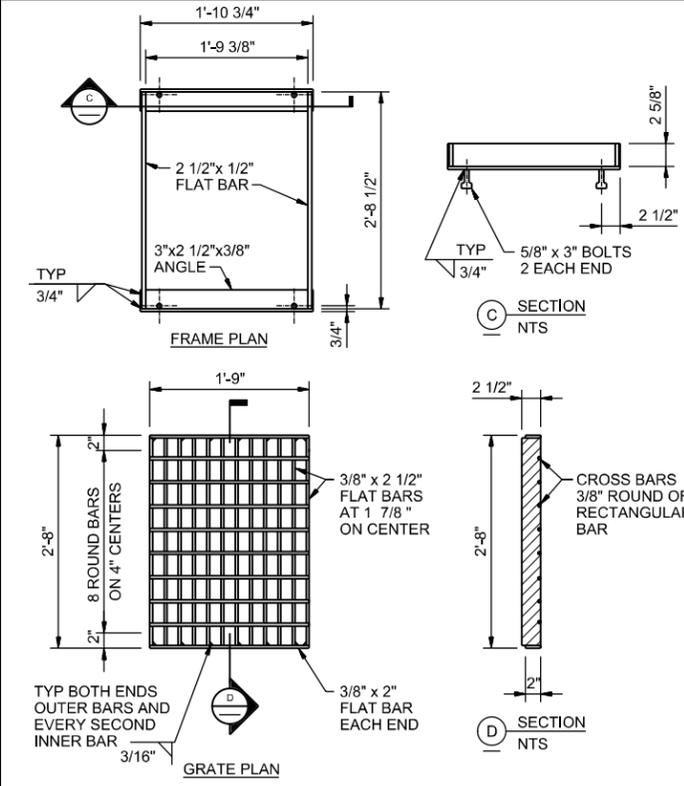
CONCRETE VALLEY GUTTER

(3216-330)



CATCH BASIN

(3344-780)



CATCH BASIN FRAME AND GRATE

(3344-782)

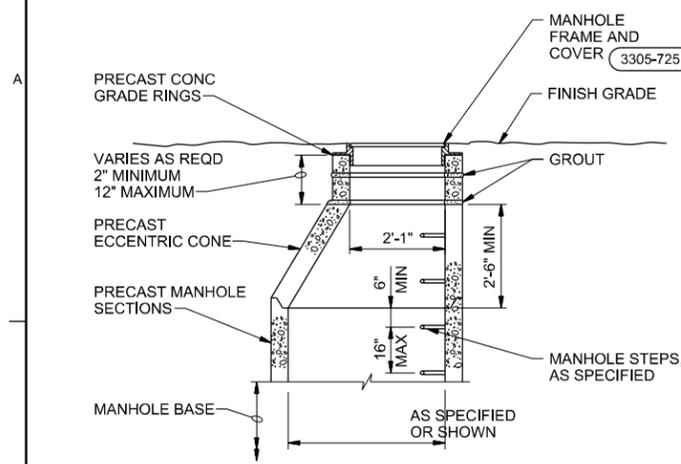


NO.	DATE	DR	REVISION	BY
		R WARD	CHK	T PYLE
		B BUTTERFIELD	APVD	T PYLE

Carothers Road Solid Waste Facility
New Waste Transfer Building and
Site Improvements
Whitman County, WA

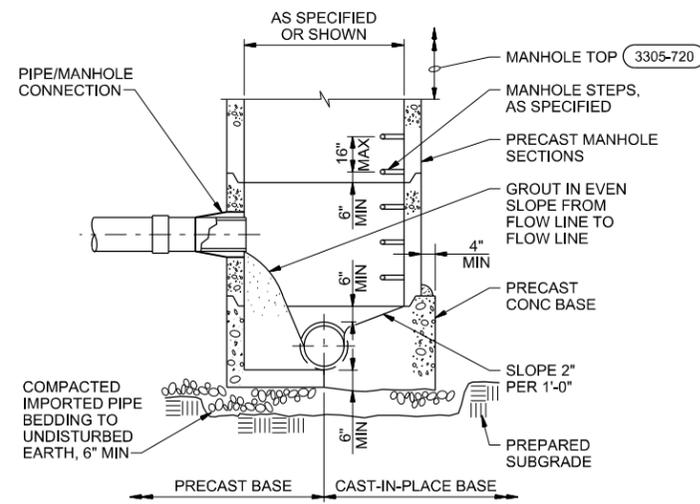
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STANDARD DETAILS

VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	JULY 2013
PROJ	437927
DWG	GEN-CE-03
SHEET	3 of 64



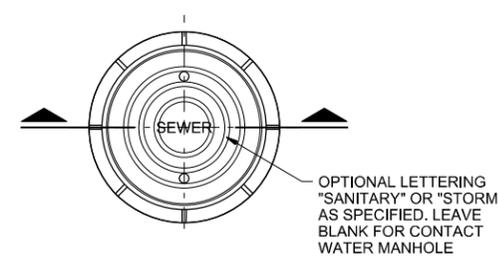
ECCENTRIC MANHOLE TOP SECTION

3305-720



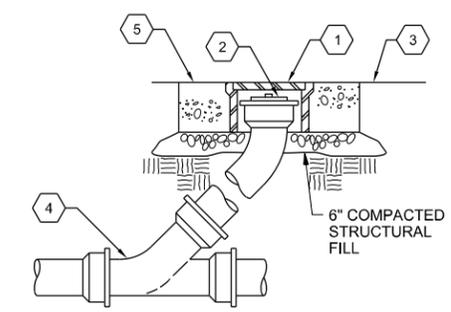
MANHOLE BASE SECTION

3305-710



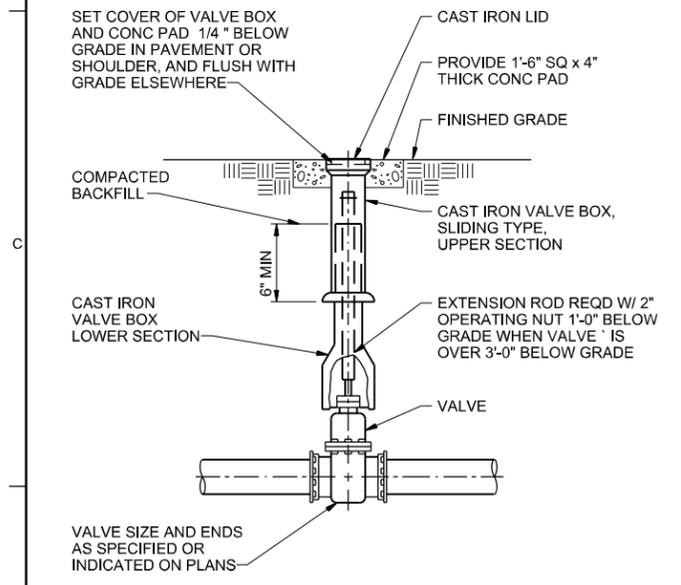
MANHOLE FRAME AND COVER

3305-725



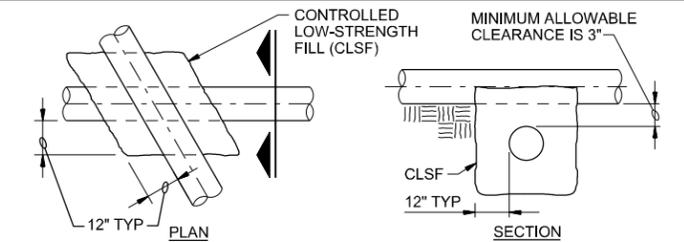
PIPE CLEANOUT

3305-726



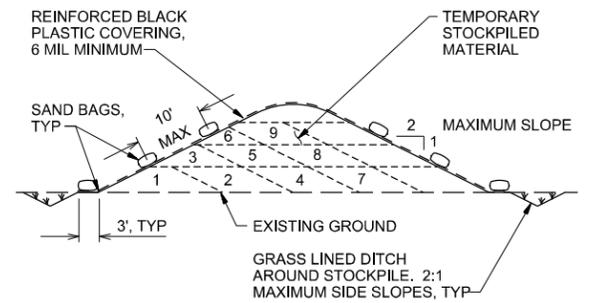
BURIED VALVE WITH VALVE BOX

4027-640



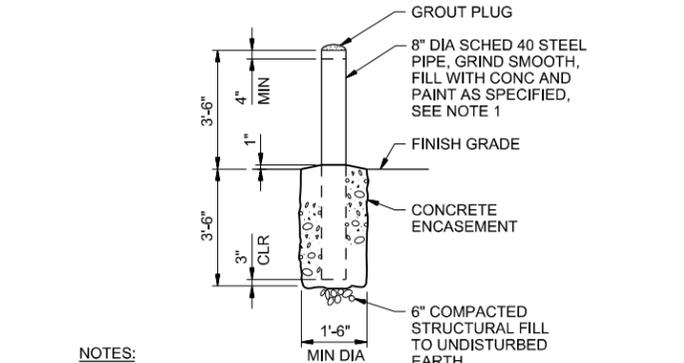
TRENCH PIPE CROSSING

3123-120



TEMPORARY STOCKPILE CONSTRUCTION SEQUENCE AND EROSION PROTECTION COVERING

3125-140



BOLLARD - EXTERIOR

3471-810

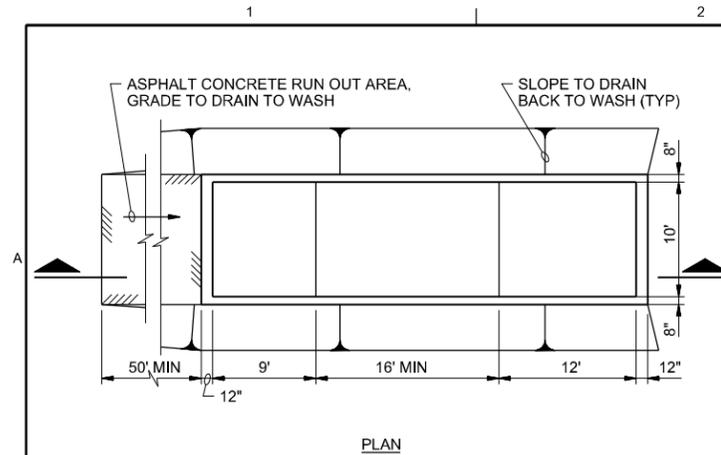


NO.	DATE	DR	REVISION	BY	APVD
		R WARD	CHK	T PYLE	T PYLE
		B BUTTERFIELD			

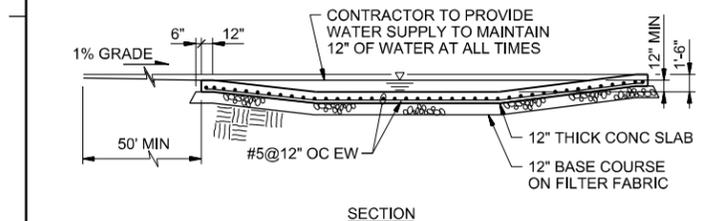
Carothers Road Solid Waste Facility
New Waste Transfer Building and
Site Improvements
Whitman County, WA

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STANDARD DETAILS

VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
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DWG	GEN-CE-04
SHEET	4 of 64



PLAN

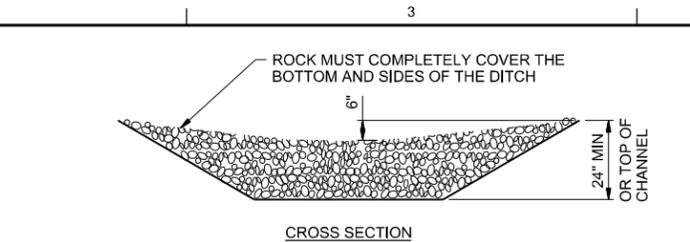


SECTION

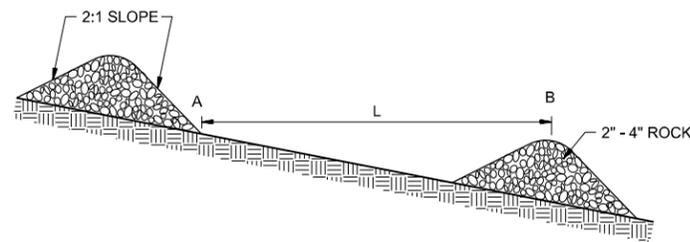
NOTE:
CONTRACTOR TO REMOVE ACCUMULATED SEDIMENT FROM WHEEL WASH, MAY BE PIPED TO AN APPROVED SEDIMENT TRAP.

WHEEL WASH

3125-135



CROSS SECTION



DAM SPACING

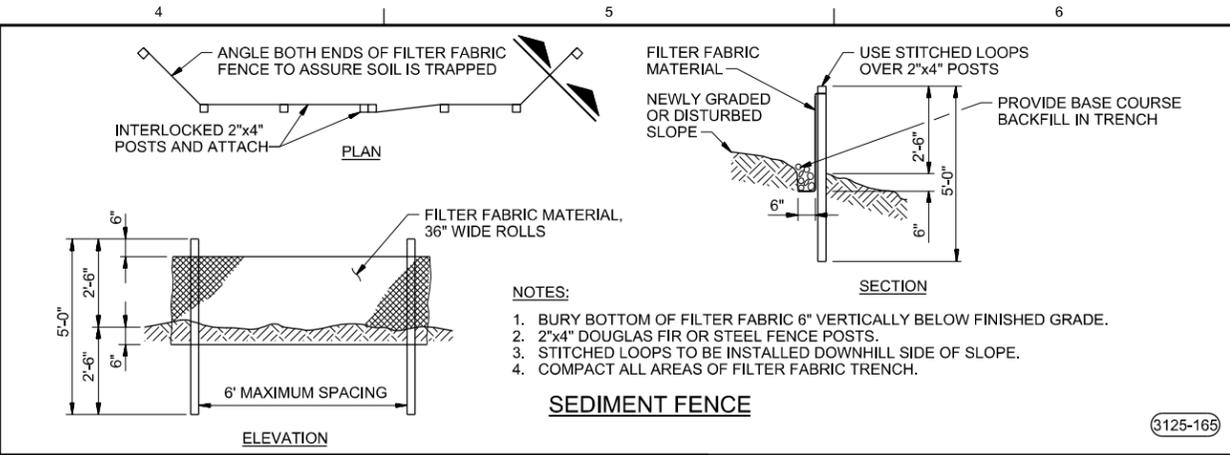
L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATIONS

MAINTENANCE STANDARDS:

1. ANY SEDIMENT DEPOSITION OF MORE THAN 0.5 FEET SHALL BE REMOVED SO THAT THE CHANNEL IS RESTORED TO ITS DESIGN CAPACITY.
2. THE CHANNEL SHALL BE EXAMINED FOR SIGNS OF SCOURING AND EROSION OF THE BED AND BANKS. IF SCOURING OR EROSION HAS OCCURRED, AFFECTED AREAS SHALL BE PROTECTED BY RIP-RAP OR AN EROSION CONTROL BLANKET OR NET.

CHECK DAMS

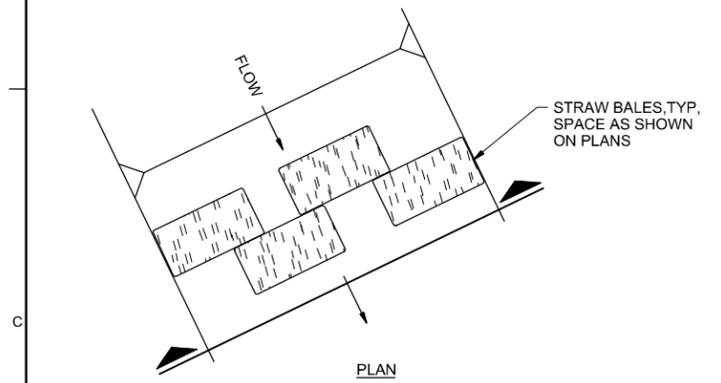
3125-160



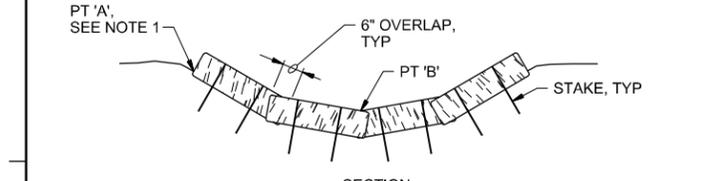
SEDIMENT FENCE

3125-165

- NOTES:
1. BURY BOTTOM OF FILTER FABRIC 6" VERTICALLY BELOW FINISHED GRADE.
 2. 2"x4" DOUGLAS FIR OR STEEL FENCE POSTS.
 3. STITCHED LOOPS TO BE INSTALLED DOWNHILL SIDE OF SLOPE.
 4. COMPACT ALL AREAS OF FILTER FABRIC TRENCH.



PLAN

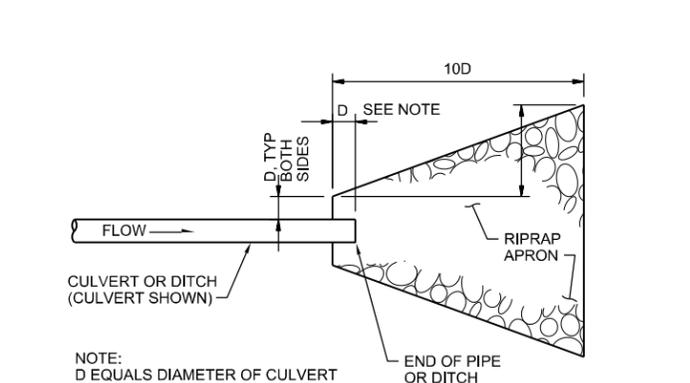


SECTION

- NOTES:
1. POINT 'A' MUST BE 6" MINIMUM HIGHER THAN PT 'B'.
 2. STAKING OF BALES IS REQUIRED USING (2)2"x2"x3" LONG WOOD STAKES OR APPROVED EQUAL PER BALE.
 3. DRIVE STAKES MINIMUM 12" INTO GROUND AND FLUSH WITH TOP OF BALES.
 4. EMBED BALES MINIMUM OF 4" INTO GROUND SURFACE.
 5. BIOFILTER BAGS TO BE USED, IF SPECIFIED.

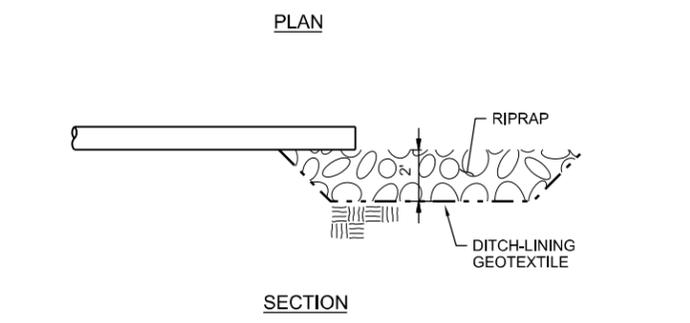
STRAW BALES IN DITCHES

3125-170



PLAN

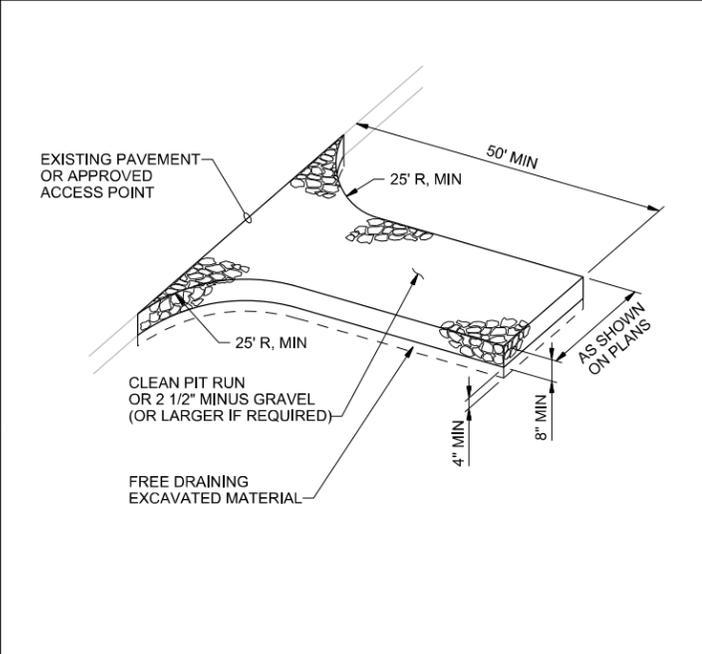
NOTE:
D EQUALS DIAMETER OF CULVERT



SECTION

RIPRAP DISCHARGE APRON

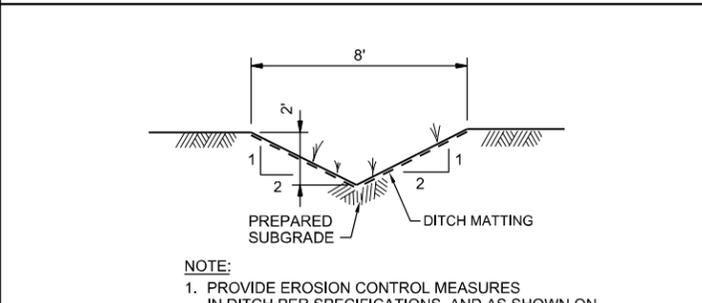
3125-190



GRAVEL CONSTRUCTION ENTRANCE

3125-130

- NOTES:
1. ADDITIONAL GRAVEL MAY HAVE TO BE ADDED PERIODICALLY TO MAINTAIN PROPER FUNCTION OF THE PAD.
 2. REMOVE GRAVEL ENTRANCE AND REPLACE WITH NEW BASE COURSE PRIOR TO COMPLETION OF ACCESS ROAD.



VEGETATED (V-NOTCH) STORMWATER DITCH

3125-180

- NOTE:
1. PROVIDE EROSION CONTROL MEASURES IN DITCH PER SPECIFICATIONS, AND AS SHOWN ON SHEET C-1.

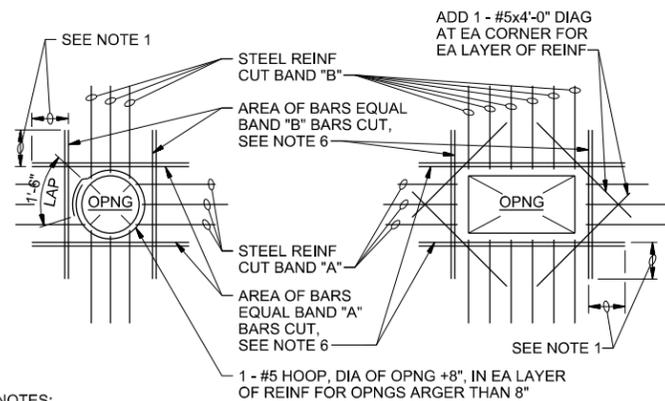


NO.	DATE	DR	REVISION	BY	APVD
		R WARD	B BUTTERFIELD	T PYLE	T PYLE

Carothers Road Solid Waste Facility
New Waste Transfer Building and
Site Improvements
Whitman County, WA

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STANDARD DETAILS

VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	JULY 2013
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DWG	GEN-CE-05
SHEET	5 of 64

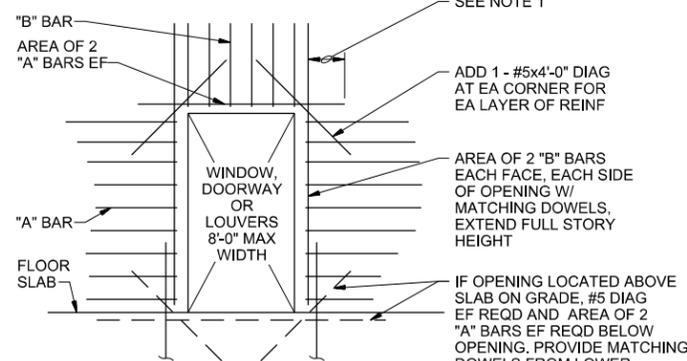


- NOTES:**
1. PROVIDE MINIMUM LAP, SEE GENERAL STRUCTURAL NOTES.
 2. TYPICAL FOR ALL OPENINGS IN CONCRETE WALLS OF BELOW GRADE AND HYDRAULIC STRUCTURES AND ALL STRUCTURAL CONCRETE SLABS UNLESS INDICATED OTHERWISE ON PLANS.
 3. DO NOT WELD REINFORCEMENT TO PIPE SLEEVES AND INSERTS.
 4. PROVIDE A MINIMUM OF 2 "A" BARS AND 2 "B" BARS EACH SIDE OF OPENING (1 EACH FACE).
 5. FOR OPENINGS LARGER THAN 8'-0", REINFORCE SAME AS FOR 8'-0" OPENINGS.
 6. SPACE AT 3 BAR DIAMETERS (OR 3" MINIMUM) ON CENTER.

OPENING REINFORCING

NTS

0330-001

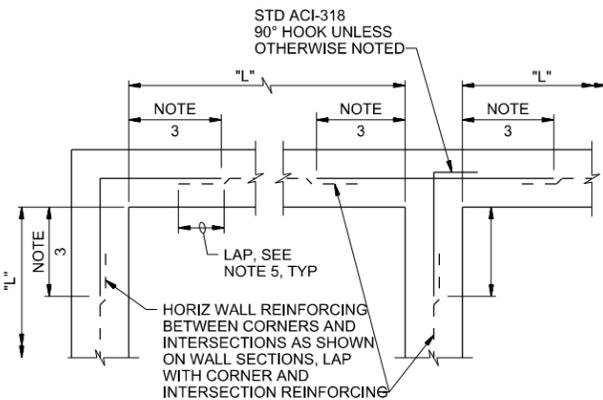


- NOTES:**
1. PROVIDE MINIMUM LAP, SEE GENERAL STRUCTURAL NOTES.
 2. TYPICAL FOR ALL OPENINGS IN ABOVE GROUND BUILDING CONCRETE WALLS UNLESS INDICATED OTHERWISE ON PLANS.
 3. DO NOT WELD REINFORCEMENT TO PIPE SLEEVES AND INSERTS.

OPENING REINFORCING

NTS

0330-002



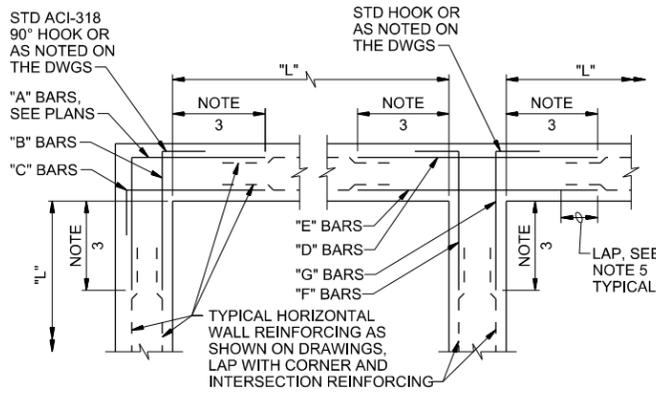
SINGLE REINFORCING MAT

- NOTES:**
1. TYPICAL HORIZONTAL WALL CORNER AND INTERSECTION REINFORCING LAYOUT IS SHOWN TO AVOID CONGESTION AND PERMIT PROPER PLACEMENT. FOR SIZE AND SPACING SEE PLANS. ALL HORIZONTAL REINFORCING AT CORNERS AND INTERSECTIONS SHALL BE FABRICATED AND INSTALLED WITH SPLICES LOCATED WHERE SHOWN REGARDLESS OF BAR SIZE AND SPACING.
 2. WHERE THE CORNER OR INTERSECTION REINFORCING SIZE AND SPACING IS NOT SHOWN, NOTED OR TABULATED ON THE PLANS, THE SIZE AND SPACING SHALL BE THE SAME AS THE WALL HORIZONTAL REINFORCING SHOWN ON THE WALL SECTIONS OR AS NOTED FOR THE REINFORCING BETWEEN THE CORNERS OR INTERSECTIONS.
 3. EXCEPT WHERE OTHERWISE SHOWN ON THE DRAWINGS, THE LENGTH INDICATED AS "NOTE 3" SHALL BE THE LESSER OF L/4, 10 FEET, OR 1.0 TIMES THE HEIGHT OF THE WALL, EXCEPT THAT IN NO CASE SHALL IT BE LESS THAN 2 FEET.
 4. L = LENGTH OF WALL PARALLEL TO THE BAR LENGTH IN QUESTION.
 5. EXCEPT WHERE OTHERWISE SHOWN ON THE DRAWINGS, THE LENGTH INDICATED AS "NOTE 5" SHALL BE EQUAL TO ONE "LAP LENGTH" AS REQUIRED BY THE GENERAL STRUCTURAL NOTES. USE THE LAP LENGTH AS REQUIRED FOR THE SMALLER OF THE TWO REINFORCING BARS BEING SPLICED.
 6. UNLESS OTHERWISE NOTED, "B" AND "C" BARS ARE THE SAME SIZE AND SPACING AND, "F" AND "G" BARS ARE THE SAME SIZE AND SPACING.

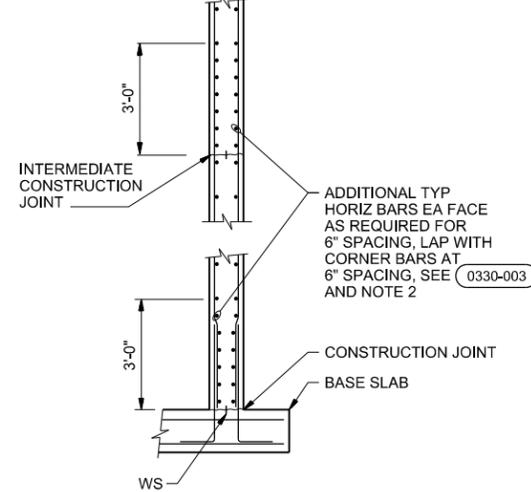
TYPICAL WALL CORNER AND INTERSECTION REINFORCING

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0330-003



DOUBLE REINFORCING MAT



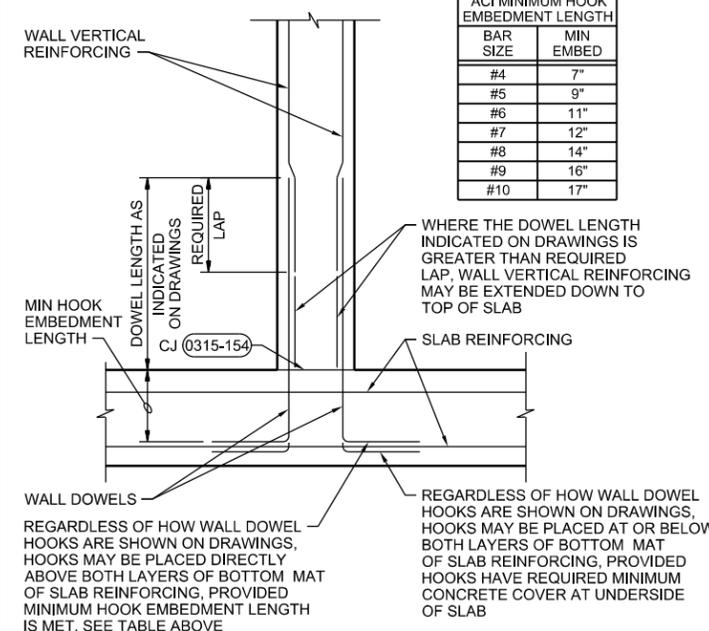
- NOTES:**
1. PROVIDE ADDITIONAL HORIZONTAL BARS AS SHOWN IN THE FIRST THREE FEET ABOVE ALL HORIZONTAL WALL CONSTRUCTION JOINTS IN HYDRAULIC AND BELOW-GRADE STRUCTURES.
 2. PROVIDE ADDITIONAL HORIZONTAL CORNER BARS EACH FACE AS REQUIRED FOR 6" SPACING TO LAP WITH THE ADDITIONAL TYPICAL HORIZONTAL BARS SHOWN.

ADDITIONAL REINFORCING AT HORIZ CONSTRUCTION JOINT

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0330-004



ACI MINIMUM HOOK EMBEDMENT LENGTH	
BAR SIZE	MIN EMBED
#4	7"
#5	9"
#6	11"
#7	12"
#8	14"
#9	16"
#10	17"

- NOTE:**
1. UNLESS NOTED OTHERWISE, ALL DOWEL HOOKS SHALL EXTEND TO AND BE TIED OFF TO BOTTOM MAT OF SLAB REINFORCING.
 2. HOOKS FOR WALL DOWELS MAY BE PLACED IN ANY ORIENTATION IN PLAN.

VERTICAL WALL REINFORCING / DOWEL PLACEMENT

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New Waste Transfer Building and
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Whitman County, WA

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ARCHITECTURAL/STRUCTURAL
STANDARD DETAILS

VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
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PROJ	437927
DWG	GEN-AS-04
SHEET	9 of 64

STATEMENT OF SPECIAL INSPECTION PLAN (SPECIAL INSPECTION, TESTING, and PROFESSIONAL OBSERVATION)

GENERAL NOTES

- THE STATEMENT OF SPECIAL INSPECTIONS DRAWINGS PROVIDE PROJECT COMPLIANCE WITH THE PROVISIONS OF THE INTERNATIONAL BUILDING CODE (IBC) CHAPTER 17 FOR SPECIAL INSPECTION, STRUCTURAL OBSERVATION, AND TESTING FOR WIND AND SEISMIC RESISTANCE AS APPLICABLE. EXCEPT WHERE OTHERWISE NOTED, THIS INSPECTION IS OWNER FURNISHED.
- STANDARD SPECIAL INSPECTION REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS ARE CONTAINED IN TABLE 1.
- STANDARD SPECIAL INSPECTION REQUIREMENTS FOR STRUCTURAL COMPONENTS, REGARDLESS OF WIND OR SEISMIC DESIGN CATEGORIES, ARE CONTAINED IN TABLE 2. STANDARD TESTING REQUIREMENTS FOR STRUCTURAL COMPONENTS ARE CONTAINED IN TABLE 3.
- PROJECT SPECIFIC REQUIREMENTS FOR STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORIES C, D, E, OR F ARE CONTAINED IN TABLE 4. ADDITIONAL TESTING REQUIREMENTS FOR STRUCTURAL RESISTANCE ARE CONTAINED IN TABLE 6.
- FOR ADDITIONAL REQUIREMENTS, REFER TO SPECIFICATION SECTION 01 45 33, SPECIAL INSPECTION, OBSERVATION AND TESTING. THESE INCLUDE:
 - CONTRACTOR'S REQUIREMENTS TO PROVIDE ACCESS TO THE WORK FOR REQUIRED INSPECTIONS, AND TO PROVIDE NOTICE OF REQUIRED INSPECTIONS AND STRUCTURAL OBSERVATION.
 - CONTRACTOR'S STATEMENT OF RESPONSIBILITY FOR WORK TO BE PERFORMED ON SYSTEMS DESIGNATED UNDER THE STATEMENT OF SPECIAL INSPECTIONS PLAN FOR WIND OR SEISMIC RESISTANCE.
 - DEFINITIONS AND TERMINOLOGY USED IN THIS STATEMENT OF SPECIAL INSPECTIONS.

SPECIAL INSPECTION

- SPECIAL INSPECTION WILL BE IN ACCORDANCE WITH IBC SECTION 1704 TOGETHER WITH LOCAL AND STATE AMENDMENTS. REFER TO THE TABLES CONTAINED ON THESE GENERAL SHEETS FOR PROJECT SPECIFIC INSPECTION TYPES AND FREQUENCIES.
- SPECIAL INSPECTIONS WILL BE PROVIDED BY A CERTIFIED OR QUALIFIED INSPECTOR AND ASSOCIATED TESTING WILL BE PERFORMED BY AN APPROVED ACCREDITED INDEPENDENT AGENCY. THE OWNER WILL SECURE AND PAY FOR THE SERVICES OF THE AGENCY TO PERFORM ALL SPECIAL INSPECTION AND ASSOCIATED TESTS. INSPECTORS FOR EACH SYSTEM AND MATERIAL WILL BE INTERNATIONAL CODE COUNCIL (ICC) CERTIFIED OR OTHERWISE APPROVED BY THE BUILDING OFFICIAL. THESE SPECIAL INSPECTION REQUIREMENTS PERTAIN TO BUILDING STRUCTURES AND DO NOT APPLY TO ROADWAYS OR OTHER FEATURES OR SYSTEMS OUTSIDE OF THE BUILDING AREAS. CONTRACTOR SHALL IMPLEMENT CONTRACTOR QUALITY CONTROL DURING CONSTRUCTION IN ACCORDANCE WITH SPEC SECTION 01 45 16.13. CONTRACTOR SHALL COORDINATE WITH OWNER'S SPECIAL INSPECTIONS. IN SOME CASES, INSPECTIONS MAY ALSO BE REQUIRED BY THE BUILDING OFFICIAL.
- THE SPECIAL INSPECTOR WILL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONTRACT DOCUMENTS AND SUBMIT RECORDS OF INSPECTION. ALL DISCREPANCIES WILL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
- SPECIAL INSPECTION AND ASSOCIATED TESTING REPORTS WILL BE SUBMITTED TO THE ENGINEER, CONTRACTOR, BUILDING OFFICIAL, AND OWNER WITHIN ONE WEEK OF INSPECTION OR WITHIN ONE WEEK OF TEST COMPLETION. INSPECTIONS FOR WHICH REPORTING WILL BE REQUIRED ARE NOTED IN THE TABLES CONTAINED ON THIS STATEMENT OF SPECIAL INSPECTIONS.
- AT THE CONCLUSION OF CONSTRUCTION, A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF PREVIOUSLY NOTED DISCREPANCIES WILL BE SUBMITTED.

STRUCTURAL OBSERVATION

- STRUCTURAL OBSERVATION WILL BE IN ACCORDANCE WITH IBC SECTION 1710 TOGETHER WITH LOCAL AND STATE AMENDMENTS. REFER TO PROJECT SPECIFIC NOTES ON THIS SHEET.
- STRUCTURAL OBSERVATION WILL BE PERFORMED BY A REGISTERED PROJECT DESIGN PROFESSIONAL FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR ANY REQUIRED SPECIAL INSPECTIONS OR INSPECTIONS BY THE BUILDING OFFICIAL.
- STRUCTURAL OBSERVATION REPORTS, NOTING ANY DEFICIENCIES IN OBSERVED CONSTRUCTION, WILL BE DELIVERED TO THE CONTRACTOR, BUILDING OFFICIAL, AND OWNER FOLLOWING EACH OBSERVATION.
- AT THE CONCLUSION OF CONSTRUCTION, A WRITTEN STATEMENT WILL BE PROVIDED TO VERIFY THAT THE STRUCTURAL OBSERVATION SITE VISITS WERE MADE AND WHETHER THERE REMAIN ANY STRUCTURAL DEFICIENCIES THAT HAVE NOT BEEN RESOLVED.
- STRUCTURAL OBSERVATION WILL INCLUDE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM FOR EACH STRUCTURE CONTAINED IN THE WORK. THE CONTRACTOR SHALL SCHEDULE AND FACILITATE STRUCTURAL OBSERVATION INCLUDING THE FOLLOWING:

- STRUCTURAL OBSERVATION WILL INCLUDE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM FOR EACH STRUCTURE CONTAINED IN THE WORK. THE CONTRACTOR SHALL SCHEDULE AND FACILITATE STRUCTURAL OBSERVATION INCLUDING THE FOLLOWING:

SYSTEM FOR FACILITY	STAGE	ITEMS	COMMENTS
FOUNDATION SLAB OF STRUCTURE	PRIOR TO FIRST CONCRETE PLACEMENT OF FIRST SECTION WHEN ITEMS CAN STILL BE REVISED	REINFORCING STEEL, CONCRETE WALL DOWELS, WATERSTOPS, EMBEDS, AND SIMILAR ITEMS	NOTE 1
CONCRETE WALLS OF STRUCTURE	PRIOR TO FIRST CONCRETE PLACEMENT OF FIRST SECTION WHEN ITEMS CAN STILL BE REVISED	REINFORCING STEEL, WALL DOWELS, WATERSTOPS, EMBEDS, AND SIMILAR ITEMS	NOTE 1
WALL TO FOUNDATION CONNECTIONS PRIOR TO FORM CLOSURE	PRIOR TO FIRST CONCRETE PLACEMENT OF FIRST SECTION WHEN ITEMS CAN STILL BE REVISED		NOTE 1
ELEVATED CONCRETE SLABS AND BEAMS PRIOR TO CONCRETE PLACEMENT	PRIOR TO FIRST CONCRETE PLACEMENT OF FIRST SECTION WHEN ITEMS CAN STILL BE REVISED	REINFORCING STEEL, WALL DOWELS, WATERSTOPS, EMBEDS, AND SIMILAR ITEMS	NOTE 1
CONCRETE WALL TO FLOOR CONNECTIONS	PRIOR TO FORM CLOSURE OR OTHER COVER		NOTE 1
ANY OTHER SYSTEM DETERMINED TO NEED DESIGN INTENT CONVEYED AS CONSTRUCTION PROGRESSES			NOTE 1
AT END OF STRUCTURAL WORK OF EACH ITEM, OR IF VISIBLE, AT END OF ALL STRUCTURAL WORK FOR DETERMINATION OF FINAL CONDITION OF STRUCTURE			NOTE 1

NOTES:

- STRUCTURAL OBSERVER TO DISCUSS ITEMS AND SITE SPECIFIC CONDITIONS WITH SPECIAL INSPECTOR AND FIELD INSPECTOR AND FIELD INSPECTION STAFF DURING OBSERVATION.

SPECIAL INSPECTIONS FOR WIND RESISTANCE

- SPECIAL INSPECTIONS REQUIREMENTS FOR WIND RESISTANCE IN ACCORDANCE WITH IBC SECTION 1705.4 ARE NOT APPLICABLE TO THIS PROJECT. TABLE 5 IS NOT REQUIRED FOR THIS PROJECT.

SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE

- SPECIAL INSPECTIONS REQUIREMENTS FOR SEISMIC RESISTANCE WILL BE IN ACCORDANCE WITH IBC SECTION 1705.3 TOGETHER WITH LOCAL AND STATE AMENDMENTS.
- SPECIAL INSPECTIONS REQUIREMENTS FOR SEISMIC RESISTANCE SHALL APPLY TO THE SYSTEMS AND COMPONENTS LISTED IN TABLE 4.
- MAIN SYSTEMS REQUIRED TO BE COVERED UNDER PROJECT SPECIAL INSPECTION REQUIREMENTS INCLUDE THE FOLLOWING TOGETHER WITH THEIR CONNECTIONS. REFER TO SPECIFICATION 01 45 33, SPECIAL INSPECTION, OBSERVATION AND TESTING.
 - REINFORCED CONCRETE STRUCTURES.
 - METAL BUILDING SYSTEM.



NO.	DATE	DR	SGOTO
DSGN			
REVISION	CHK	G BURLEY	
		STROYAN	
		APVD	
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Carothers Road Solid Waste Facility
New Waste Transfer Building and
Site Improvements
Whitman County, WA

CH2MHILL®
ARCHITECTURAL/STRUCTURAL
**STATEMENT OF SPECIAL INSPECTOR
OBSERVATION AND TESTING**

VERIFY SCALE	
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DATE	JULY 2013
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HEATING, VENTILATING, AND AIR CONDITIONING PIPE AND FITTING SYMBOLS

DOUBLE LINE	SINGLE LINE	
		EXISTING PIPE (SCREENED)
		NEW PIPE
		EXISTING PIPE TO BE ABANDONED
		EXISTING PIPE TO BE REMOVED
		WELDED JOINT
		GROOVED END JOINT
		FLANGED JOINT
		FLEXIBLE COUPLING
		GROOVED END GROOVED END ADAPTER FLANGE
		STEEL BELLOWS EXP JOINT
		ELBOW UP
		ELBOW DOWN
		TEE UP
		TEE DOWN
		LATERAL UP
		LATERAL DOWN
		CONCENTRIC REDUCER
		ECCENTRIC REDUCER
		UNION
		ANCHOR
		PIPE ALIGNMENT GUIDE
		FLEXIBLE (ELASTOMER) PIPE CONNECTION

NOTES:

- ONLY FLANGED FITTINGS ARE SHOWN FOR DOUBLE LINE PIPING. FITTINGS WITH OTHER END PATTERNS ARE SIMILAR.
- EXISTING PIPING AND EQUIPMENT IS SHOWN LIGHT LINED AND/OR SCREENED AND IS NOTED AS EXISTING. NEW PIPING AND EQUIPMENT IS SHOWN HEAVY-LINED.

VALVE SYMBOLS

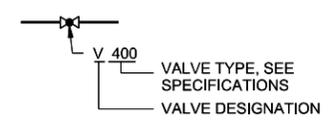
SINGLE LINE	DOUBLE LINE	
		GATE
		BUTTERFLY
		GLOBE
		BALL
		SEATING PORT
		ECCENTRIC PLUG
		PLUG OR COCK
		NEEDLE
		SWING CHECK
		BALL CHECK
		BALANCING FITTING
		COMBINATION FLOWMETER AND BALANCING FITTING
		COMBINATION FLOWMETER, BALANCING FITTING AND SHUT-OFF VALVE
		PRESSURE RELIEF
		AIR VENT (AUTO)
		AIR VENT (MANUAL)
		REGULATED SIDE PRESSURE CONTROL
		MULTI-PORT VALVE (GLOBE VALVE SHOWN. FOR OTHER VALVE TYPES, APPROPRIATE VALVE SYMBOL SHOWN). ARROWS INDICATE FLOW PATTERN. SEATING PORTS ARE IMPLIED BY INDICATED FLOW PATTERN.
		SOLENOID VALVE
		TO TEMPERATURE SENSOR
		TEMPERATURE SENSING VALVE

MISCELLANEOUS PIPING SYMBOLS

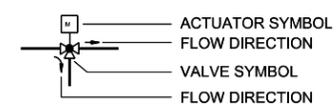
	STEAM TRAP X = NO. IN SPECS		GAUGE WITH COCK
	FLOW SWITCH		THERMOMETER
	FLOW METER X = NO. SHOWN IN SPECS		GAUGE GLASS WITH COCKS
	PRESSURE SWITCH		
	STRAINER		

VALVE DESIGNATIONS

MANUAL VALVES AND CHECK VALVES



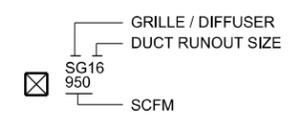
CONTROL VALVES



HVAC EQUIPMENT IDENTIFICATION

BD	BUTTERFLY DAMPER
CF	CEILING FAN
CU	AIR-COOLED CONDENSING UNIT
CR	CEILING REGISTER DIFFUSER
D	DIFFUSER
DG	DOOR GRILLE
EF	EXHAUST FAN
ERV	ENERGY RECOVERY VENTILATOR
F	FURNACE
FSD	FIRE / SMOKE DAMPER
HWP	HEATING WATER PUMP
LVR	LOUVER
MD	MOTORIZED DAMPER
OBD	OPPOSED BLADE DAMPER
RG	RETURN GRILLE
SG	SUPPLY GRILLE
UH	UNIT HEATER

HVAC DESIGNATIONS



FLOW STREAM IDENTIFICATION

IDENTIFICATION	SERVICE
CD	CONDENSATE DRAIN
D	INDUSTRIAL DRAIN SYSTEM
DHW	DOMESTIC HOT WATER POTABLE
NG	NATURAL GAS
PD	PUMPED DISCHARGE (PRESSURE SEWER)
SS	SANITARY SEWER
TWS	TEMPERED WATER SUPPLY
TWR	TEMPERED WATER RETURN
V	SANITARY VENT
W1	POTABLE COLD WATER
W2	NON-POTABLE COLD WATER

HEATING, VENTILATING, AND AIR CONDITIONING SYMBOLS

	WALL REGISTER OR GRILLE (SUPPLY)
	CEILING DIFFUSER OR REGISTER (SUPPLY)
	CEILING REGISTER OR GRILLE (RETURN AND EXHAUST)
	WALL REGISTER OR GRILLE (RETURN AND EXHAUST)
	COMBINATION FIRE/SMOKE DAMPER
	MANUAL OPPOSED-BLADE DAMPER
	MANUAL BUTTERFLY DAMPER
	MOTORIZED DAMPER
	SOUND ATTENUATED DUCT
	FLEXIBLE CONNECTION
	FLEXIBLE DUCTWORK
	INCLINED RISE IN DUCT
	INCLINED DROP IN DUCT
	SUPPLY DUCT (SECTION)
	INTAKE, RETURN, OR EXHAUST DUCT (SECTION)
	ROOM TEMPERATURE SENSOR
	ROOM PRESSURE SENSOR
	ROOM HUMIDITY SENSOR
	EMERGENCY HVAC SHUT-DOWN SWITCH
	SPEED CONTROLLER

GENERAL NOTES

- FOR DUCT FITTING CONSTRUCTION STANDARDS SEE DRAWING H501.
- ALL DUCT BRACING SHALL BE EXTERIOR OF DUCTWORK, NO INTERNAL BRACING ALLOWED.



NO.	DATE	DR	CHK	REVISION	BY	APVD	T PRICE

Carothers Road Solid Waste Facility
New Waste Transfer Building and
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Whitman County, WA

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MECHANICAL
LEGENDS, ABBREVIATIONS
AND GENERAL NOTES

VERIFY SCALE	
DATE	JULY 2013
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SHEET	15 of 64

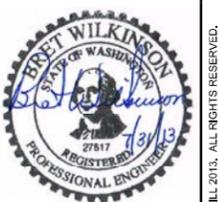
ABBREVIATIONS

Table of abbreviations with columns for symbol, description, symbol, description, symbol, description, symbol, description. Includes terms like AMMETER, AIR-BREAK SWITCH, ABOVE, ALTERNATING CURRENT, etc.

CIRCUIT AND RACEWAY SCHEDULE

Table with columns for callout type (POWER, ANALOG, CONTROL, VIDEO), callout ID, and callout details (size, type, length, etc.). Includes sections for POWER CIRCUIT, ANALOG CIRCUIT, CONTROL CIRCUIT, VIDEO CABLE CIRCUIT, POWER CABLE CIRCUIT, and EMPTY CONDUIT.

GENERAL NOTE: A. THIS IS A STANDARD ABBREVIATIONS AND SCHEDULE SHEET. THEREFORE, NOT ALL OF THE INFORMATION SHOWN MAYBE USED ON THIS PROJECT.



Revision table with columns for NO., DATE, REVISION, and initials (CHK, DR, DSGN, M RARDIN, M KUTZ, B WILKINSON).

Carothers Road Solid Waste Facility New Waste Transfer Building and Site Improvements Whitman County, WA

CH2MHILL logo, ELECTRICAL, ABBREVIATIONS AND SCHEDULE, VERIFY SCALE, DATE: JULY 2013, PROJ: 437927, DWG: GEN-EE-02, SHEET: 17 of 64.

BUILDING CONTROL POINTS				
POINT NAME	NORTHING	EASTING	ELEVATION	DESCRIPTION
B1	10467.85	11754.36	2399.00	BUILDING CORNER
B2	10507.37	11869.78	2399.00	BUILDING CORNER
B3	10418.44	11900.23	2380.00	BUILDING CORNER
B4	10378.92	11784.81	2380.00	BUILDING CORNER

REFER TO DWG YRD-CE-05

DRAINAGE CONTROL POINTS				
POINT NAME	NORTHING	EASTING	ELEVATION	DESCRIPTION
D1	10560.77	12104.55	2378.80	DITCH FLOWLINE
D2	10573.76	12149.89	2375.63	DITCH FLOWLINE
D3	10595.60	12205.77	2375.44	DITCH FLOWLINE
D4	10618.23	12263.65	2375.23	DITCH FLOWLINE
D5	10631.09	12299.26	2375.23	DITCH FLOWLINE
D6	10648.06	12346.29	2375.23	DITCH FLOWLINE
D7	10661.65	12383.91	2375.23	DITCH FLOWLINE
D8	10672.60	12414.24	2375.23	DITCH FLOWLINE
D9	10294.12	11694.60	2378.59	DITCH FLOWLINE
D10	10253.80	11724.18	2376.97	DITCH FLOWLINE
D11	10248.36	11740.65	2376.82	DITCH FLOWLINE
D12	10268.14	11787.99	2375.90	DITCH FLOWLINE
D13	10292.82	11848.13	2374.89	DITCH FLOWLINE
D14	10349.50	12032.82	2373.04	DITCH FLOWLINE
D15	10498.05	12291.78	2372.31	DITCH FLOWLINE
D16	10539.28	12341.19	2372.11	DITCH FLOWLINE
D17	10581.01	12394.44	2371.19	DITCH FLOWLINE
D18	10622.10	12450.40	2370.22	DITCH FLOWLINE
D19	10631.31	12457.47	2371.25	DITCH FLOWLINE
D20	10650.03	12484.51	2371.07	DITCH FLOWLINE
D21	10693.90	12534.44	2370.18	DITCH FLOWLINE
D22	10695.83	12543.48	2368.39	DITCH FLOWLINE
D23	10703.02	12551.98	2368.34	DITCH FLOWLINE
D24	10712.85	12569.58	2368.08	DITCH FLOWLINE
D25	10745.40	12619.71	2368.92	DITCH FLOWLINE
D26	10753.00	12628.56	2369.12	DITCH FLOWLINE
D27	10768.74	12653.37	2369.57	DITCH FLOWLINE
D28	10775.13	12665.61	2370.18	DITCH FLOWLINE
D29	10777.32	12671.27	2370.39	DITCH FLOWLINE
D30	10779.69	12682.94	2370.41	DITCH FLOWLINE
D31	10695.89	12581.02	2367.80	DITCH FLOWLINE
D32	10666.50	12563.44	2363.00	POND BOTTOM
D33	10616.75	12596.98	2363.00	POND BOTTOM
D34	10651.41	12648.39	2363.00	POND BOTTOM
D35	10701.16	12614.85	2363.00	POND BOTTOM
D36	10524.42	11863.70	2398.00	CATCH BASIN GRATE/VALLEY GUTTER FLOWLINE
D37	10484.57	11747.41	2398.00	CATCH BASIN GRATE/VALLEY GUTTER FLOWLINE
D38	10408.95	11769.20	2396.24	VALLEY GUTTER FLOWLINE
D39	10369.94	11703.40	2395.10	VALLEY GUTTER FLOWLINE
D40	10395.55	11662.05	MATCH EXISTING	PIPE OUTLET
D41	10323.46	11728.25	2380.56	CORNER OF PAD
D42	10345.76	11749.78	2380.56	CORNER OF PAD
D43	10336.96	11758.90	2380.56	CORNER OF PAD
D44	10359.27	11780.43	2380.56	CORNER OF PAD

REFER TO DWG YRD-CE-05 AND YRD-CE-06

GRADING CONTROL POINTS				
POINT NAME	NORTHING	EASTING	ELEVATION	DESCRIPTION
G1	10768.22	11723.49	2402.73	ROADWAY EDGE
G2	10796.31	11723.25	2402.73	ROADWAY EDGE
G3	10760.58	11637.38	2402.90	ROADWAY EDGE
G4	10788.46	11634.80	2402.90	ROADWAY EDGE
G5	10717.01	11600.15	2403.14	ROADWAY EDGE
G6	10717.13	11572.15	2403.14	ROADWAY EDGE
G7	10525.50	11599.34	2401.21	ROADWAY EDGE
G8	10525.61	11571.34	2401.21	ROADWAY EDGE
G9	10475.31	11572.52	2400.00	ROADWAY EDGE
G10	10425.08	11622.59	2398.35	ROADWAY EDGE
G11	10475.32	11647.93	2400.00	ROADWAY EDGE
G12	10425.12	11647.59	2397.00	ROADWAY EDGE
G13	10389.46	11695.56	2395.53	ROADWAY EDGE
G14	10334.07	11694.64	2388.00	TOE OF FILL
G15	10320.30	11707.78	2380.56	TOE OF FILL
G16	10319.14	11708.86	2380.56	ROADWAY EDGE
G17	10296.49	11697.83	2380.56	ROADWAY EDGE
G18	10255.65	11727.78	2378.92	ROADWAY EDGE
G19	10252.14	11739.34	2378.92	ROADWAY EDGE
G20	10297.83	11844.66	2377.30	ROADWAY EDGE
G21	10354.62	12031.22	2375.50	ROADWAY EDGE
G22	10502.00	12289.53	2374.50	ROADWAY EDGE
G23	10615.79	12420.71	2375.00	ROADWAY EDGE
G24	10659.68	12477.40	2375.73	ROADWAY EDGE
G25	10763.21	12605.88	2377.11	ROADWAY EDGE
G26	10795.83	12697.62	2376.00	ROADWAY EDGE
G27	10796.03	12543.95	2379.76	ROADWAY EDGE
G28	10759.91	12557.17	2375.17	ROADWAY EDGE
G29	10682.48	12461.07	2375.69	ROADWAY EDGE
G30	10668.84	12415.60	2377.10	ROADWAY EDGE
G31	10644.30	12347.64	2377.10	ROADWAY EDGE
G32	10614.51	12265.11	2377.10	ROADWAY EDGE
G33	10570.03	12151.35	2377.50	ROADWAY EDGE
G34	10524.46	12019.04	2388.48	ROADWAY EDGE
G35	10535.07	11932.39	2394.40	ROADWAY EDGE
G36	10558.32	11882.35	2397.22	ROADWAY EDGE
G37	10576.82	11860.90	2398.68	ROADWAY EDGE
G38	10586.17	11812.53	2400.32	ROADWAY EDGE
G39	10561.58	11740.78	2400.79	ROADWAY EDGE
G40	10538.37	11713.58	2400.66	ROADWAY EDGE
G41	10491.40	11687.54	2400.00	ROADWAY EDGE
G42	10481.64	11674.65	2400.00	ROADWAY EDGE

REFER TO DWG YRD-CE-05 AND YRD-CE-06

WALL CONTROL POINTS				
POINT NAME	NORTHING	EASTING	ELEVATION	DESCRIPTION
W1	10320.30	11707.78	2380.56	WALL TIE IN TO GROUND - Z-WALL
W2	10319.14	11708.86	2380.56	WALL TIE IN TO GROUND - Z-WALL
W3	10355.88	11742.18	2394.56	TOP OF Z-WALL
W4	10353.05	11742.23	2394.56	TOP OF Z-WALL
W5	10347.08	11751.30	2394.56	TOP OF Z-WALL
W6	10344.26	11751.34	2394.56	TOP OF Z-WALL
W7	10380.31	11783.37	2394.56	TOP OF Z-WALL
W8	10378.92	11784.81	2394.56	TOP OF Z-WALL
W9	10449.22	11889.78	2380.00	BOTTOM OF GRAVITY BLOCK WALL
W10	10543.10	12162.11	2378.00	BOTTOM OF GRAVITY BLOCK WALL
W11	10544.05	12161.78	2378.00	BOTTOM OF GRAVITY BLOCK WALL
W12	10453.95	11888.16	2398.45	TOP OF GRAVITY BLOCK WALL

REFER TO DWG YRD-CE-05 FOR THE GRAVITY BLOCK WALL AND DWG YRD-CE-07 FOR THE Z-WALL



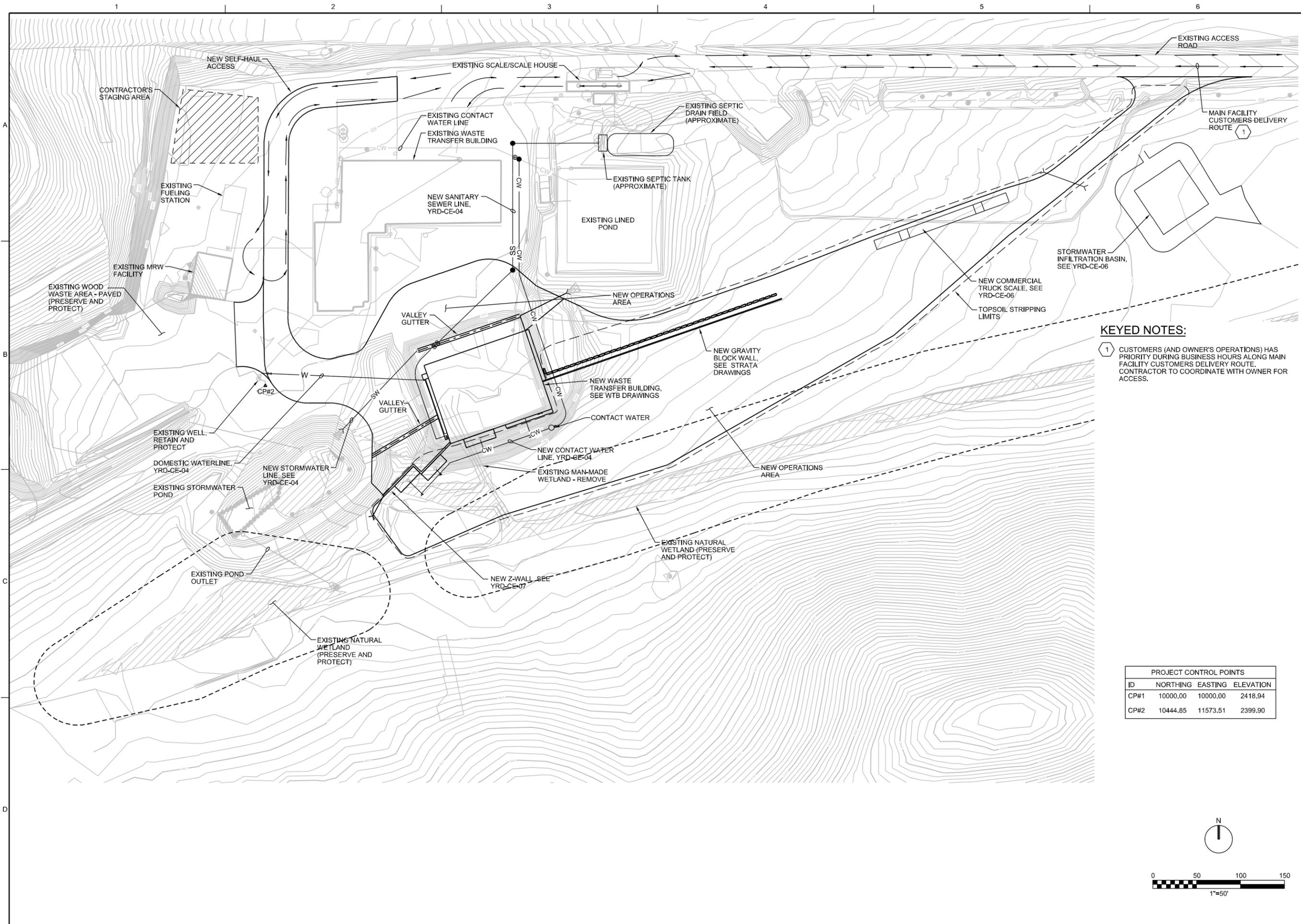
NO.	DATE	DR	B BUTTERFIELD	REVISION	CHK	BY	APVD	T PYLE

Carothers Road Solid Waste Facility
New Waste Transfer Building and
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Whitman County, WA

CH2MHILL
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CONTROL SCHEDULE TABLES

VERIFY SCALE	
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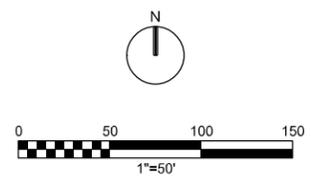
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KEYED NOTES:

1 CUSTOMERS (AND OWNER'S OPERATIONS) HAS PRIORITY DURING BUSINESS HOURS ALONG MAIN FACILITY CUSTOMERS DELIVERY ROUTE. CONTRACTOR TO COORDINATE WITH OWNER FOR ACCESS.

PROJECT CONTROL POINTS			
ID	NORTHING	EASTING	ELEVATION
CP#1	10000.00	10000.00	2418.94
CP#2	10444.85	11573.51	2399.90

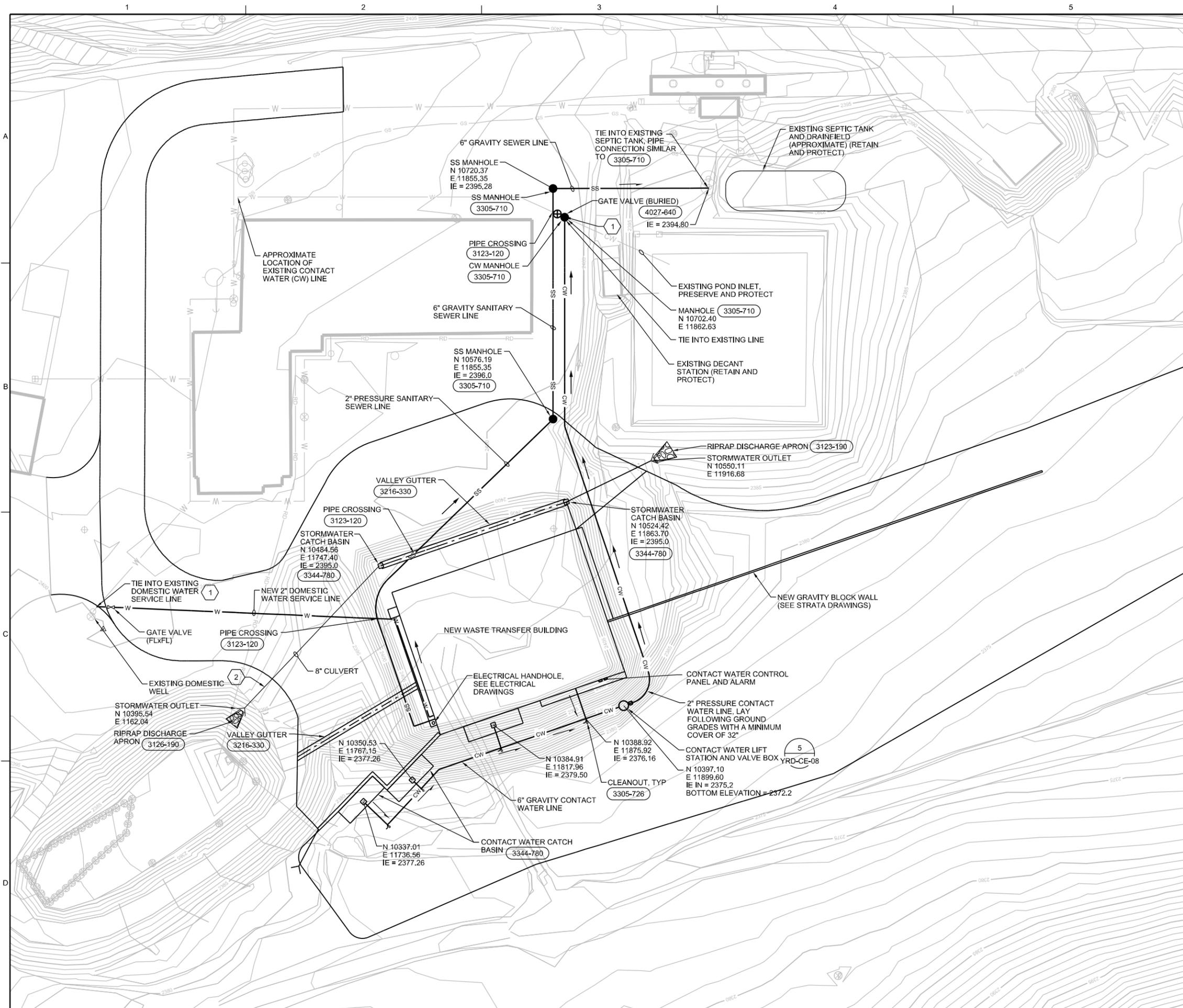


NO.	DATE	DR	REVISION	BY	APVD
		R WARD	B BUTTERFIELD	T PYLE	T PYLE

Carothers Road Solid Waste Facility
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 Whitman County, WA

CH2MHILL
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OVERALL SITE LAYOUT PLAN

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GENERAL NOTES:

- ALL UTILITY LINES SHALL BE PLACED WITH MINIMUM 32" COVER.
- FOR TRENCH DETAIL FOR CIVIL/YARD UTILITY LINES, REFER TO (3123-110)
- LOCATIONS OF ALL EXISTING UTILITIES SHALL BE VERIFIED PRIOR TO START OF WORK.

KEYED NOTES:

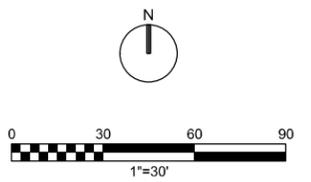
- BURIAL DEPTH OF EXISTING CONTACT WATERLINE IS ESTIMATED TO BE APPROXIMATELY 2394.0 FEET. CONTRACTOR TO VERIFY AND SUBMIT CONNECTION PLAN TO ENGINEER FOR APPROVAL.
- RESTORE ROAD AT CROSSING TO EQUAL OR BETTER PRE-DEVELOPMENT CONDITION.



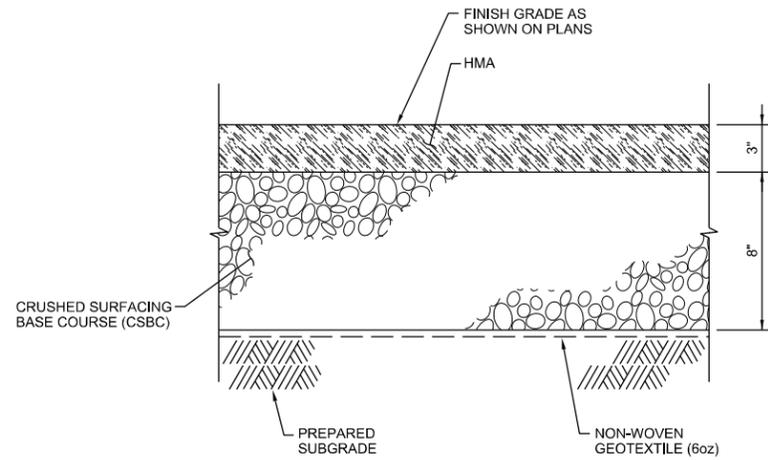
NO.	DATE	DR	REVISION	BY	APVD

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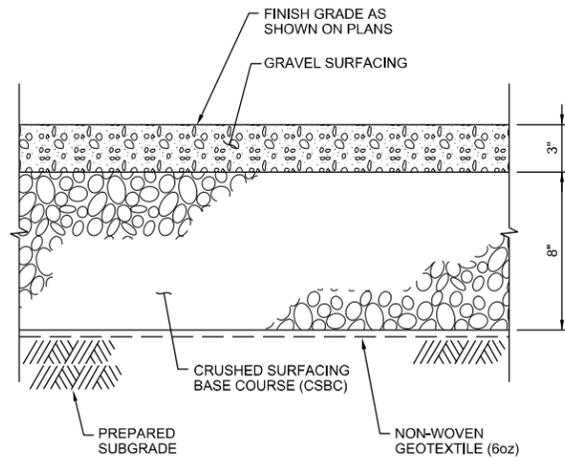
CH2MHILL
 CIVIL
SITE UTILITIES PLAN



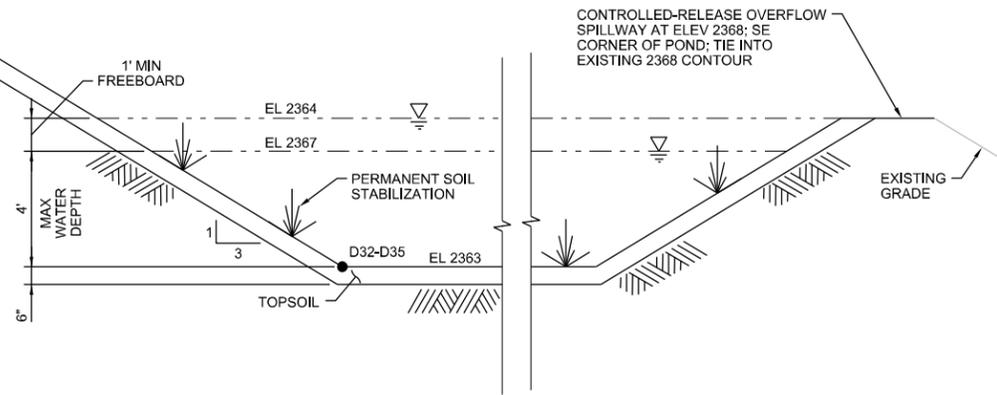
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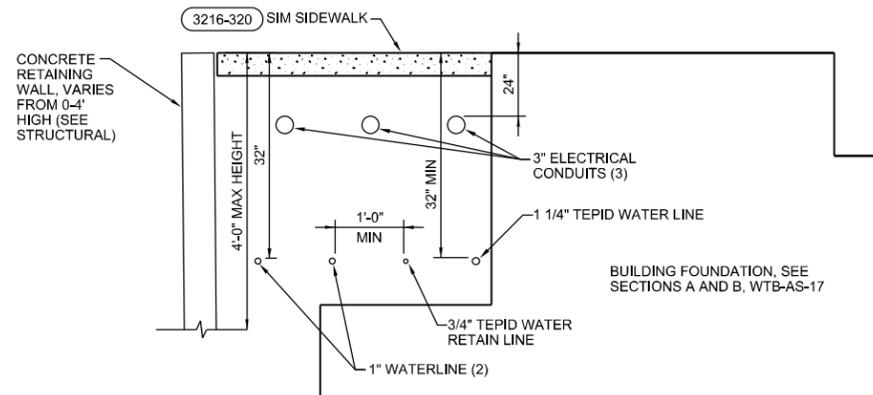
1 ACP ROAD SECTION
NTS



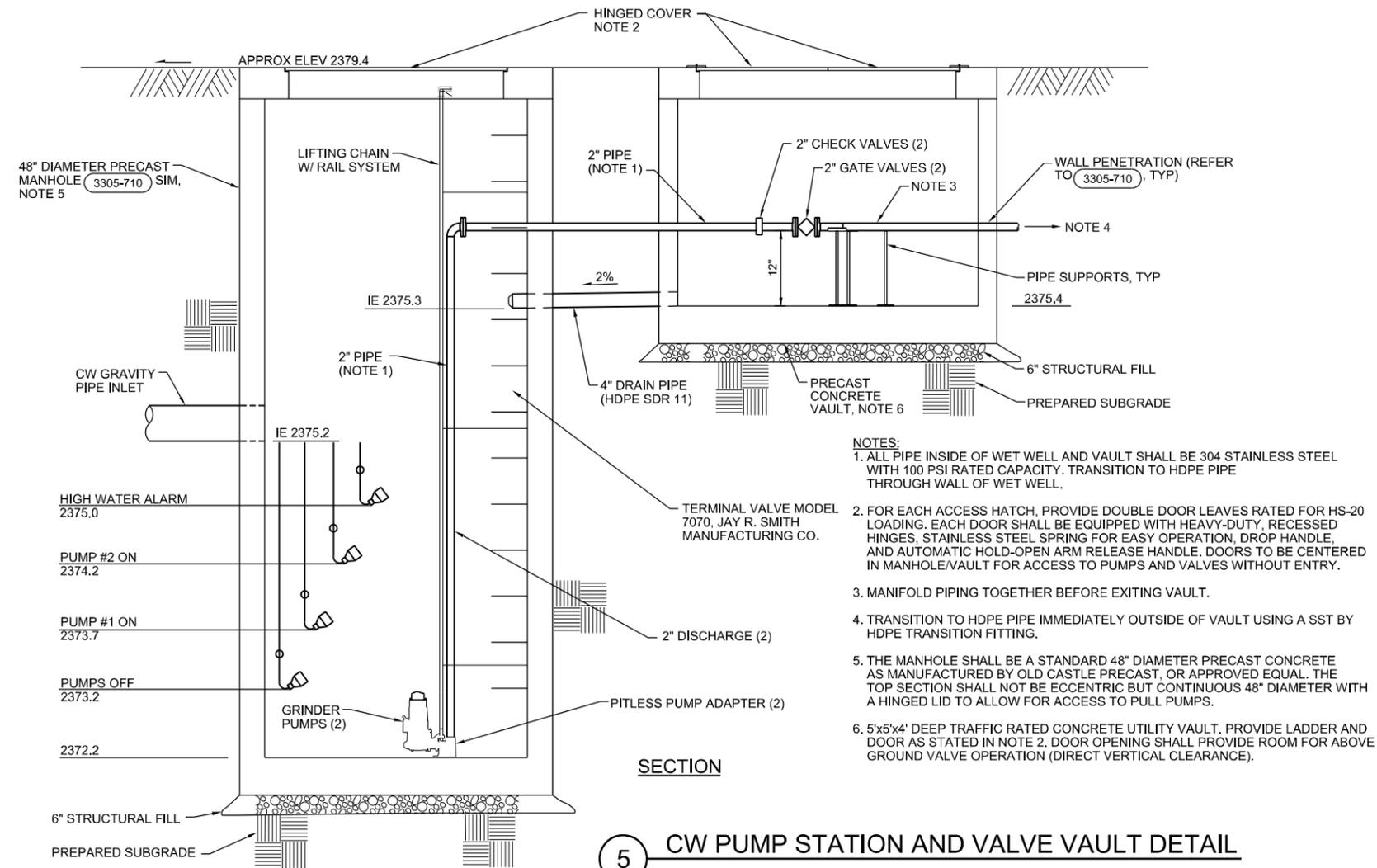
2 GRAVEL ROAD SURFACING SECTION
NTS



3 STORMWATER INFILTRATION BASIN
NTS



4 UTILITY CORRIDOR (SIDEWALK)
3/4" = 1'-0"



- NOTES:**
- ALL PIPE INSIDE OF WET WELL AND VAULT SHALL BE 304 STAINLESS STEEL WITH 100 PSI RATED CAPACITY. TRANSITION TO HDPE PIPE THROUGH WALL OF WET WELL.
 - FOR EACH ACCESS HATCH, PROVIDE DOUBLE DOOR LEAVES RATED FOR HS-20 LOADING. EACH DOOR SHALL BE EQUIPPED WITH HEAVY-DUTY, RECESSED HINGES, STAINLESS STEEL SPRING FOR EASY OPERATION, DROP HANDLE, AND AUTOMATIC HOLD-OPEN ARM RELEASE HANDLE. DOORS TO BE CENTERED IN MANHOLE/VAULT FOR ACCESS TO PUMPS AND VALVES WITHOUT ENTRY.
 - MANIFOLD PIPING TOGETHER BEFORE EXITING VAULT.
 - TRANSITION TO HDPE PIPE IMMEDIATELY OUTSIDE OF VAULT USING A SST BY HDPE TRANSITION FITTING.
 - THE MANHOLE SHALL BE A STANDARD 48" DIAMETER PRECAST CONCRETE AS MANUFACTURED BY OLD CASTLE PRECAST, OR APPROVED EQUAL. THE TOP SECTION SHALL NOT BE ECCENTRIC BUT CONTINUOUS 48" DIAMETER WITH A HINGED LID TO ALLOW FOR ACCESS TO PULL PUMPS.
 - 5'x5'x4' DEEP TRAFFIC RATED CONCRETE UTILITY VAULT. PROVIDE LADDER AND DOOR AS STATED IN NOTE 2. DOOR OPENING SHALL PROVIDE ROOM FOR ABOVE GROUND VALVE OPERATION (DIRECT VERTICAL CLEARANCE).

5 CW PUMP STATION AND VALVE VAULT DETAIL



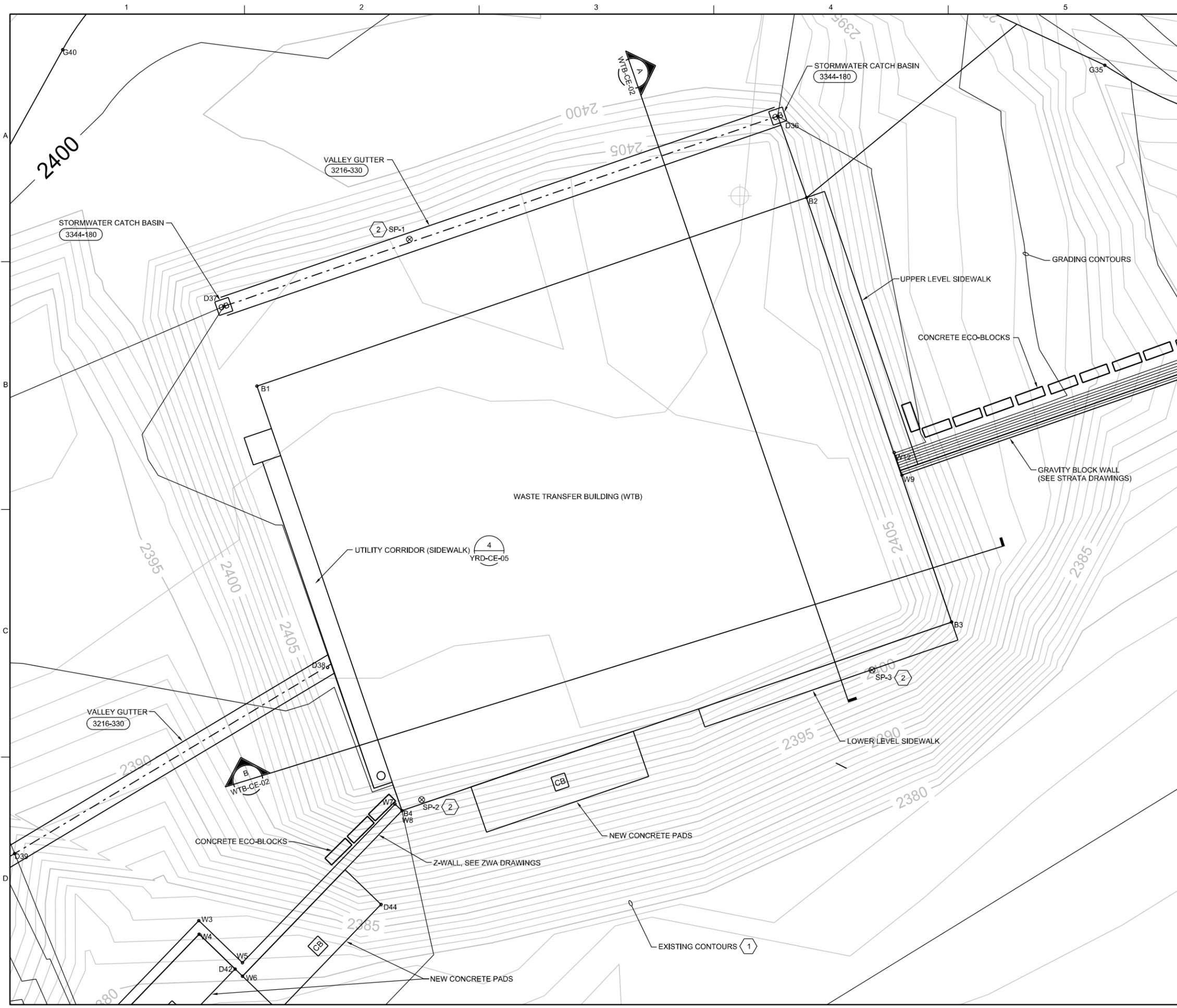
NO.	DATE	DR	REVISION	BY	APVD
		R WARD	CHK	T PYLE	T PYLE
		B BUTTERFIELD	CHK	T PYLE	T PYLE

Carothers Road Solid Waste Facility
New Waste Transfer Building and
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Whitman County, WA

CH2MHILL
CIVIL
**SITE GRADING AND DRAINAGE
SECTIONS AND DETAILS**

VERIFY SCALE
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DATE	JULY 2013
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- KEYED NOTES:**
- 1 EXISTING CONTOURS SHOWN IN VICINITY OF WTB ARE FROM SURVEY INFORMATION PROVIDED BY OWNER IN APRIL 2013 AND DEPICT THE TOP OF PRELOAD FILL PLACED BY OWNER. FILL IS LIKELY TO HAVE SETTLED BY THE TIME OF CONSTRUCTION SO ALL GRADES AND CONTOURS SHALL BE VERIFIED BY CONTRACTOR PRIOR TO THE START OF WORK.
 - 2 SURCHARGE SETTLEMENT PLATE. REMOVE/ABANDON PER STRATA'S INSTRUCTIONS.

Settlement Plate #1 (North plate)			Settlement Plate #2 (SW plate)		
Northing	Easting	Change (ft)	Northing	Easting	Change (ft)
10498.607	11786.383		10381.211	11788.957	
12/3/2012	2579.347		10/24/2012	2373.077	
2/13/2013	2579.262	-0.085	2/5/2013	2372.720	-0.357
3/11/2013	2579.231	-0.031	3/11/2013	2372.708	-0.012

Settlement Plate #3 (SE plate)		
Northing	Easting	Change (ft)
10408.386	11883.497	
10/24/2012	2572.944	
2/5/2013	2572.930	-0.014
3/11/2013	2572.901	-0.029

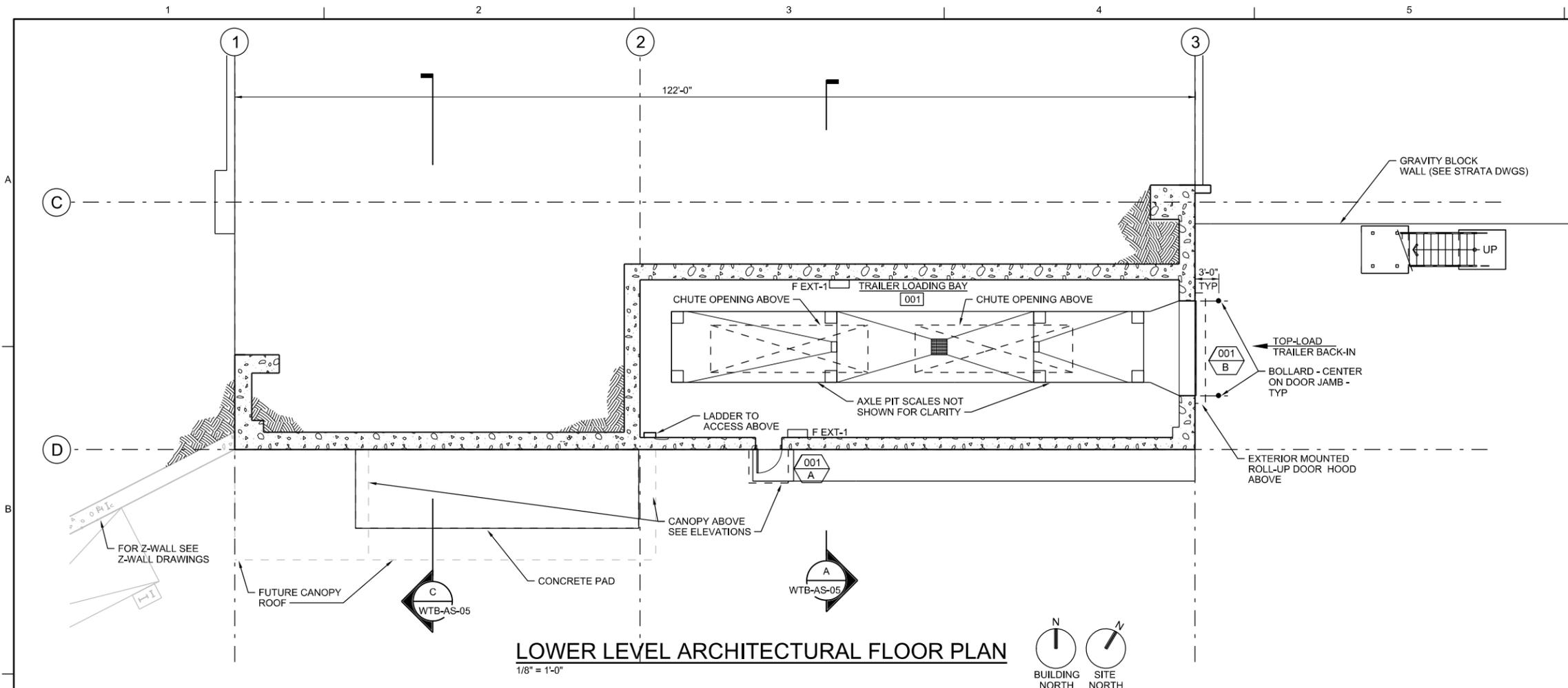


NO.	DATE	REVISION	CHK	DR	BY	APVD

Carothers Road Solid Waste Facility
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CH2MHILL
 CIVIL
BUILDING GRADING PLAN

VERIFY SCALE	DATE	JULY 2013
BAR IS ONE INCH ON ORIGINAL DRAWING.	PROJ	437927
	DWG	WTB-CE-01
	SHEET	30 of 64



- NOTES:
- SEE DWG. GEN-AS-01 FOR GENERAL NOTES LEGEND, CODE SUMMARY AND WALL TYPES.
 - SEE DWG GEN-G-01 FOR ABBREVIATIONS.



NO.	DATE	DR	REVISION	BY	APVD
		M SHARP			
		G BURLEY	CHK		
		J HANSEN	APVD		
		M SHARP			

LOWER LEVEL ARCHITECTURAL FLOOR PLAN
1/8" = 1'-0"

INTERIOR FINISH SCHEDULE

NO.	SPACE NAME	FLOOR			BASE			WALLS			CEILING			MISCELLANEOUS			REMARKS				
		SUBFL	MATL	FINISH	COL	HGT	MATL	FINISH	COL	MATL	FINISH	COL	HGT	MATL	FINISH	COL		ITEM	MATL	FINISH	COL
BUILDING NAME AND OR BUILDING NUMBER																					
C 001	TRAILER LOADING BAY	-	CONC	SLR	CL	-	-	-	-	CONC	PNT	WHT	-	-	-	-	-	-	-	-	-
101	TIPPING FLOOR	-	CONC	SLR	CL	-	-	-	-	CONC	SLR	CLR	-	-	-	-	-	LANE STRIPING	PNT	-	YE
102	REST/ MECHANICAL ROOM	-	CONC	TILE	TBD	4"	VINT	-	TBD	GWB	PNT	WHT	7'-6"	GWB	PNT	WHT	-	-	-	-	
103	ELECTRICAL ROOM	-	CONC	SLR	CL	4"	VINT	-	TBD	GWB	PNT	WHT	9'-6"	GWB	PNT	WHT	-	-	-	-	
104	ACCESS SPACE	-	CONC	SLR	CL	-	-	-	-	CONC	SLR	CLR	-	-	-	-	-	-	-	-	

DOOR AND HARDWARE SCHEDULE

NO	SIZE		DOOR				FRAME			DETAILS (FOUND ON DWG WTB-AS-08 & 09)				HARDWARE	FIRE PROTECTION RATING (MINUTES)	MISC/REMARKS
	WIDTH	HEIGHT	MATL	TYPE	GLASS	FINISH	MATL	TYPE	FINISH	HEAD	JAMB	SILL	MISC	HDW GROUP		
001A	3'-0"	7'-0"	STL	F	-	PNT	STL	F1	PNT	9/AS-08	9/AS-08	12/AS-12	-	1	-	-
001B	12'-0"	16'-0"	-	OCD	-	PWDR COAT	STL	-	PWDR COAT	1/AS-09	2/AS-09	3/AS-09	-	-	-	-
101A	20'-0"	18'-0"	-	OCD	-	PWDR COAT	STL	-	PWDR COAT	4/AS-09	5/AS-09	6/AS-09	-	-	-	-
101B	3'-0"	7'-0"	STL	F	-	PNT	STL	F1	PNT	10/AS-08	10/AS-08	12/AS-12	-	3	-	OMIT FLOOR STOP
101C	24'-0"	12'-0"	-	OCD	-	PWDR COAT	STL	-	PWDR COAT	7/AS-09	8/AS-09	6/AS-09	-	-	-	-
101D	3'-0"	7'-0"	STL	F	-	PNT	STL	F1	PNT	10/AS-08	10/AS-08	12/AS-12	-	3	-	-
102A	3'-0"	7'-0"	STL	F	-	PNT	STL	F1	PNT	10/AS-08	10/AS-08	12/AS-12	-	2	-	-
103A	3'-0"	7'-0"	STL	F	-	PNT	STL	F1	PNT	11/AS-08	11/AS-08	12/AS-12	-	1	-	X
104A	3'-0"	7'-0"	STL	F	-	PNT	STL	F1	PNT	11/AS-08	11/AS-08	12/AS-12	-	1	-	-
104B	3'-0"	7'-0"	STL	F	-	PNT	STL	F3	PNT	-	9/AS-08	12/AS-12	-	3	-	OMIT FLOOR STOP & THRESHOLD

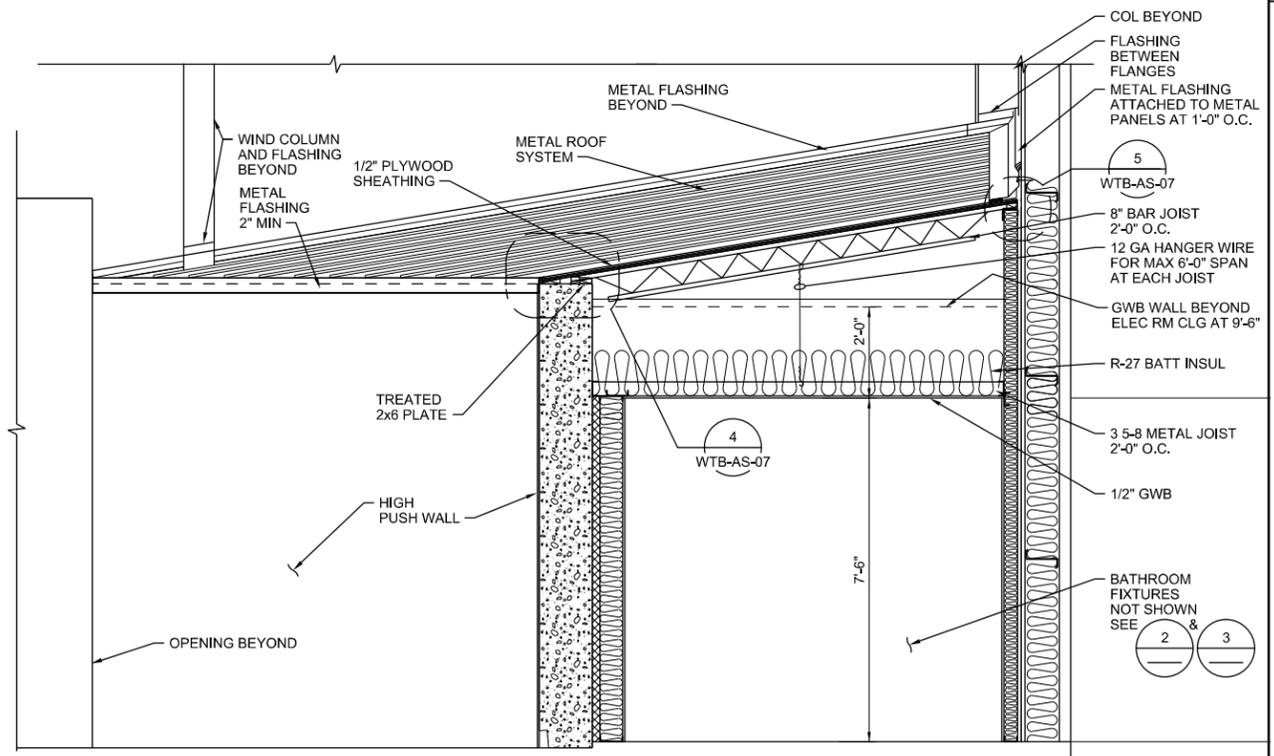
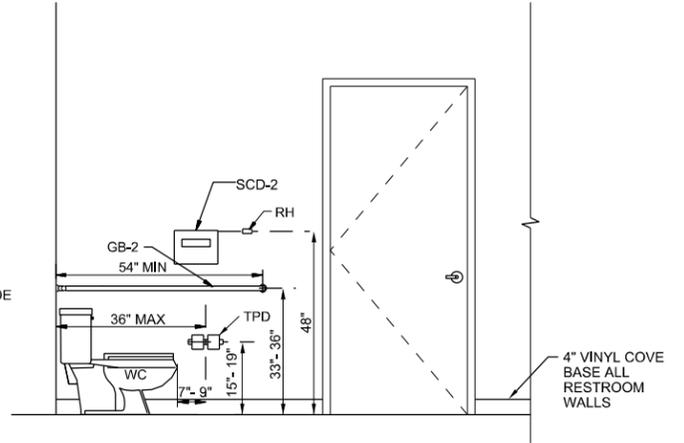
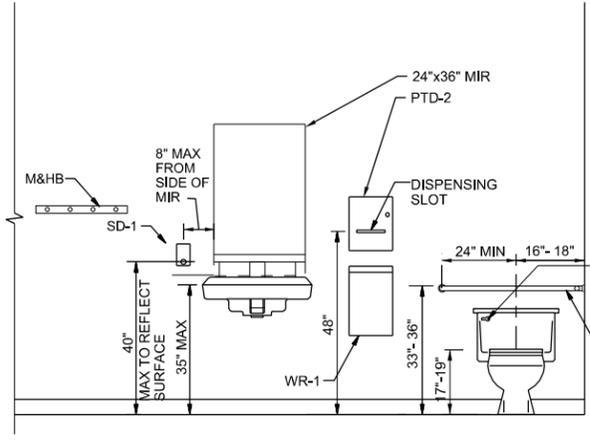
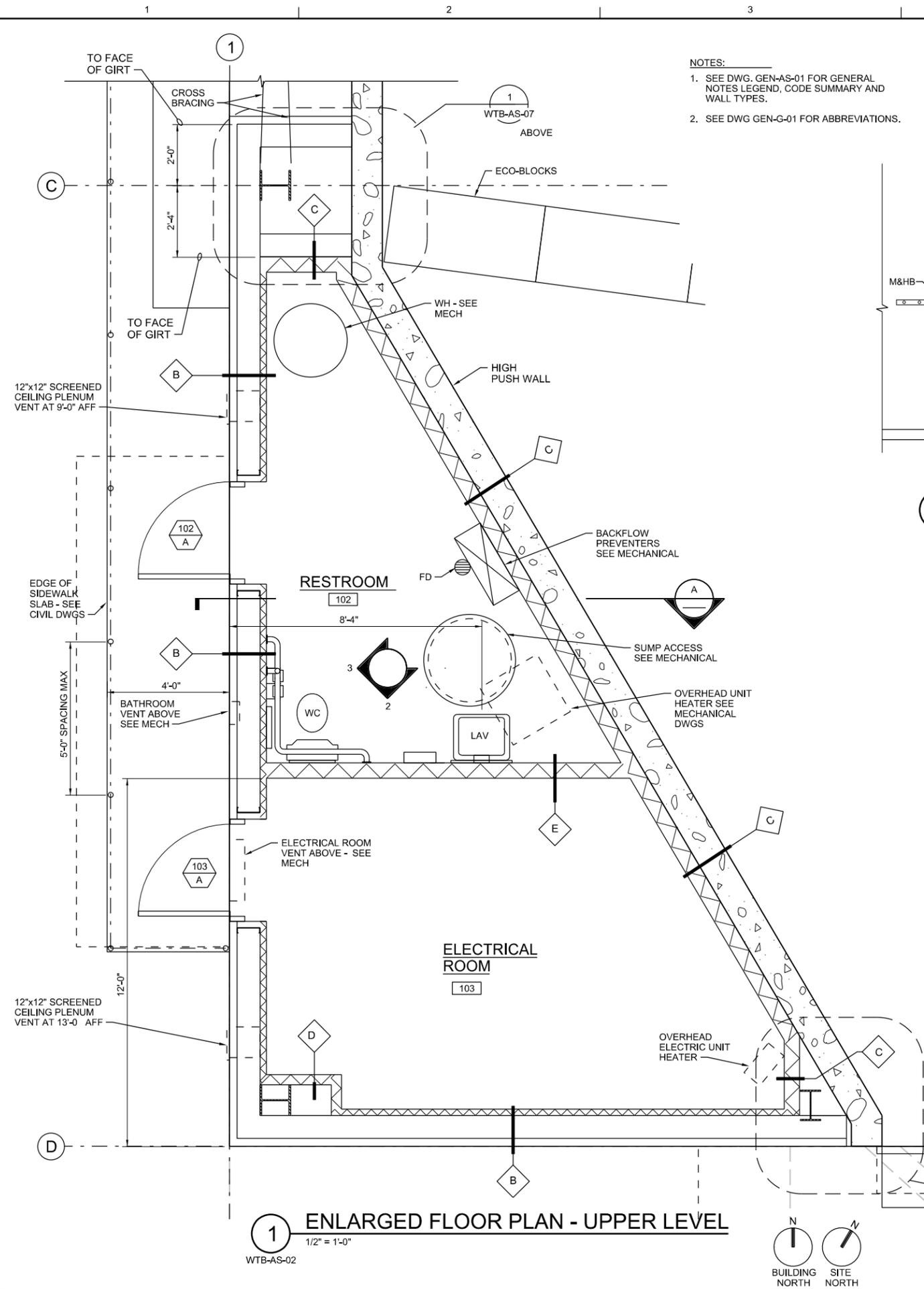
Carothers Road Solid Waste Facility
New Waste Transfer Building and
Site Improvements
Whitman County, WA

CH2MHILL®
ARCHITECTURAL
LOWER LEVEL FLOOR PLAN

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE	JULY 2013
PROJ	437927
DWG	WTB-AS-01
SHEET	32 of 64

- NOTES:
- SEE DWG. GEN-AS-01 FOR GENERAL NOTES LEGEND, CODE SUMMARY AND WALL TYPES.
 - SEE DWG GEN-G-01 FOR ABBREVIATIONS.



NO.	DATE	DR	REVISION	BY	APVD
		M. SHARP			
			CHK	J. HANSEN	
			APVD	G. BURLEY	
					M. SHARP

Carothers Road Solid Waste Facility
New Waste Transfer Building and
Site Improvements
Whitman County, WA

CH2MHILL
ARCHITECTURAL
ENLARGED FLOOR PLAN

VERIFY SCALE	
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SHEET	34 of 64

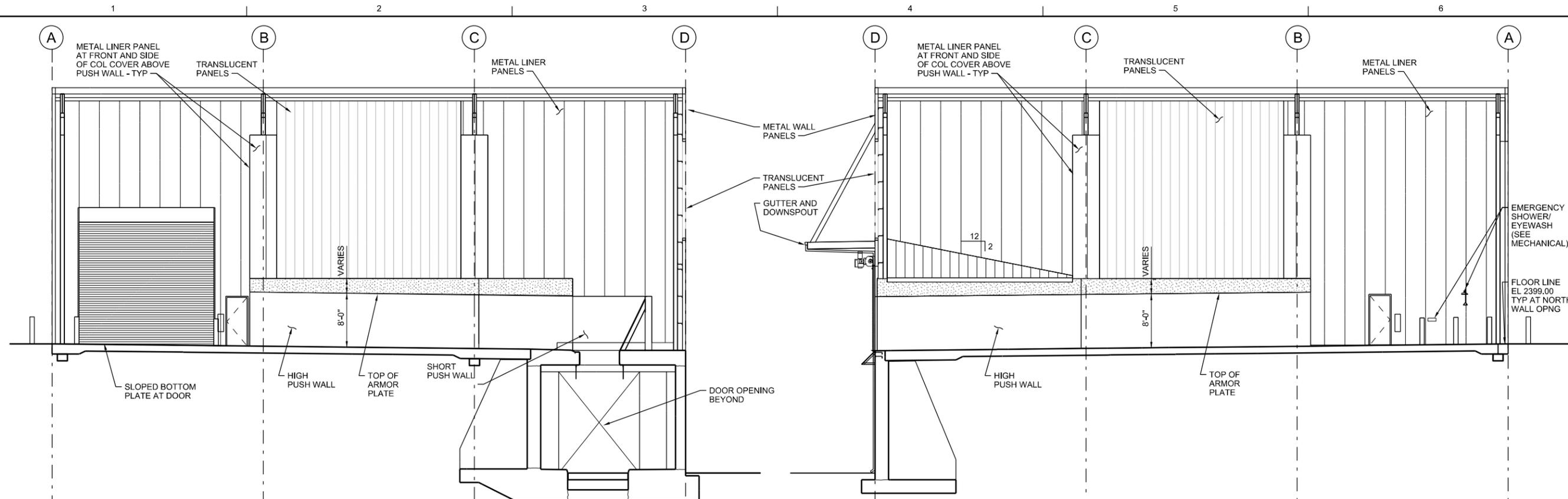
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		M SHARP		G BURLEY	J HANSEN		M SHARP

Carothers Road Solid Waste Facility
 New Waste Transfer Building and
 Site Improvements
 Whitman County, WA

CH2MHILL
 ARCHITECTURAL
 BUILDING SECTIONS

VERIFY SCALE	
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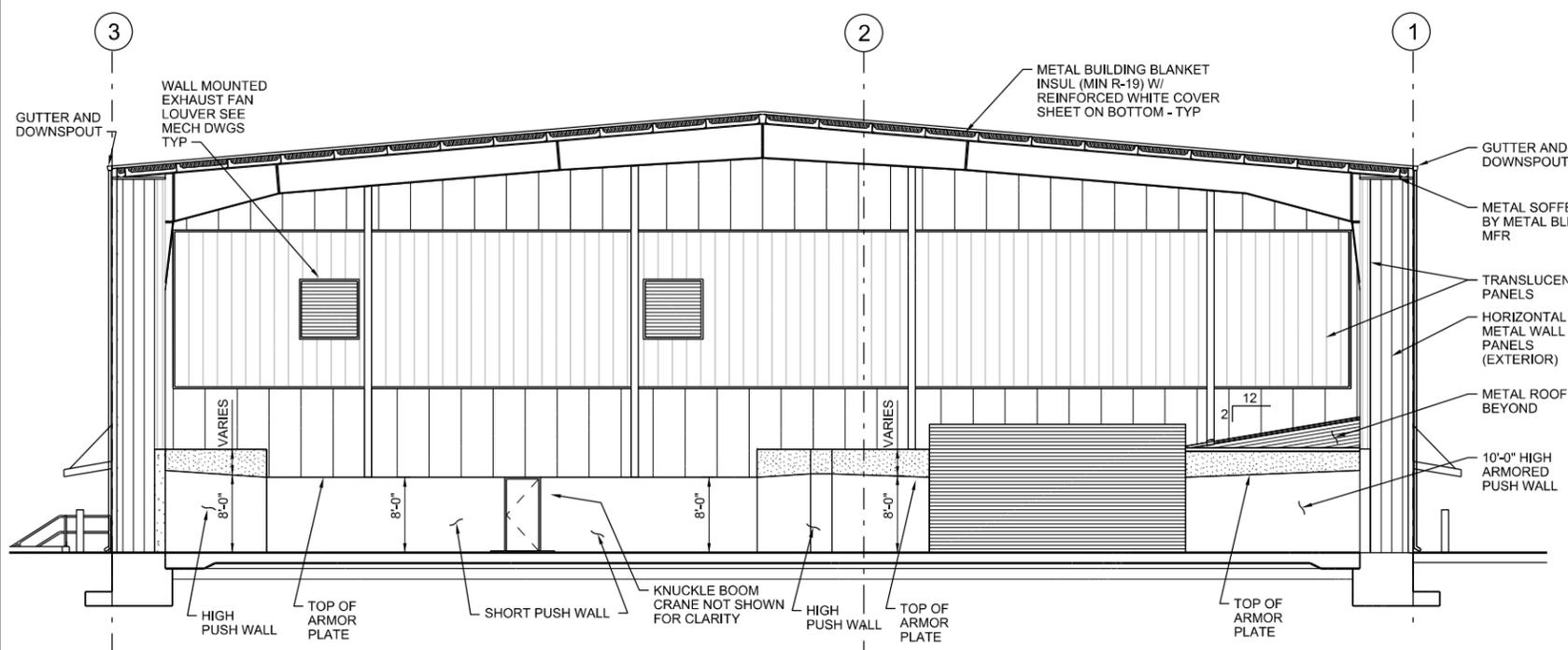
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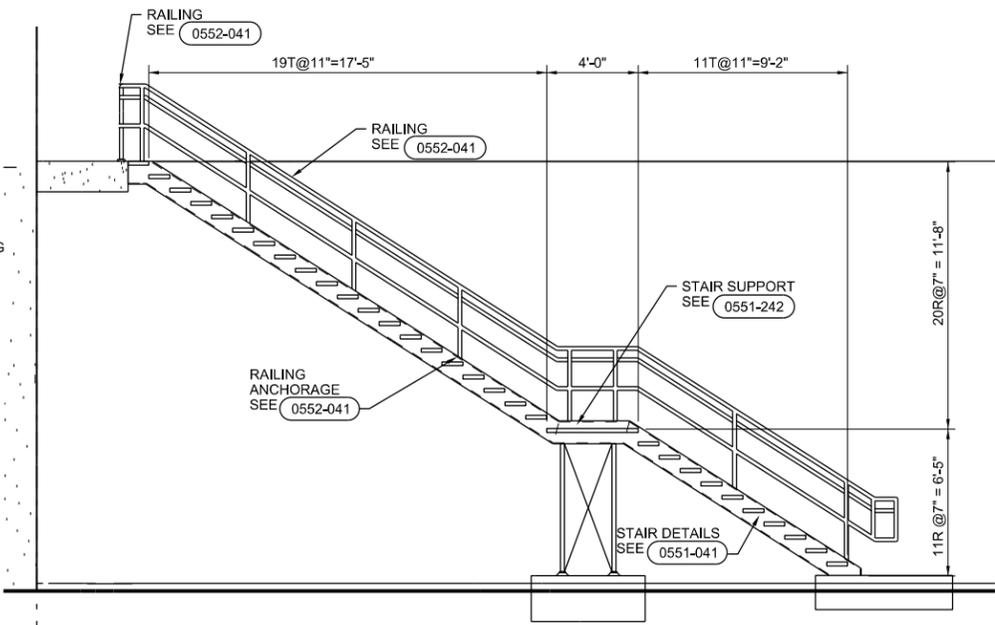
A BUILDING SECTION
 1/8" = 1'-0"
 WTB-AS-02

B BUILDING SECTION
 1/8" = 1'-0"
 WTB-AS-02

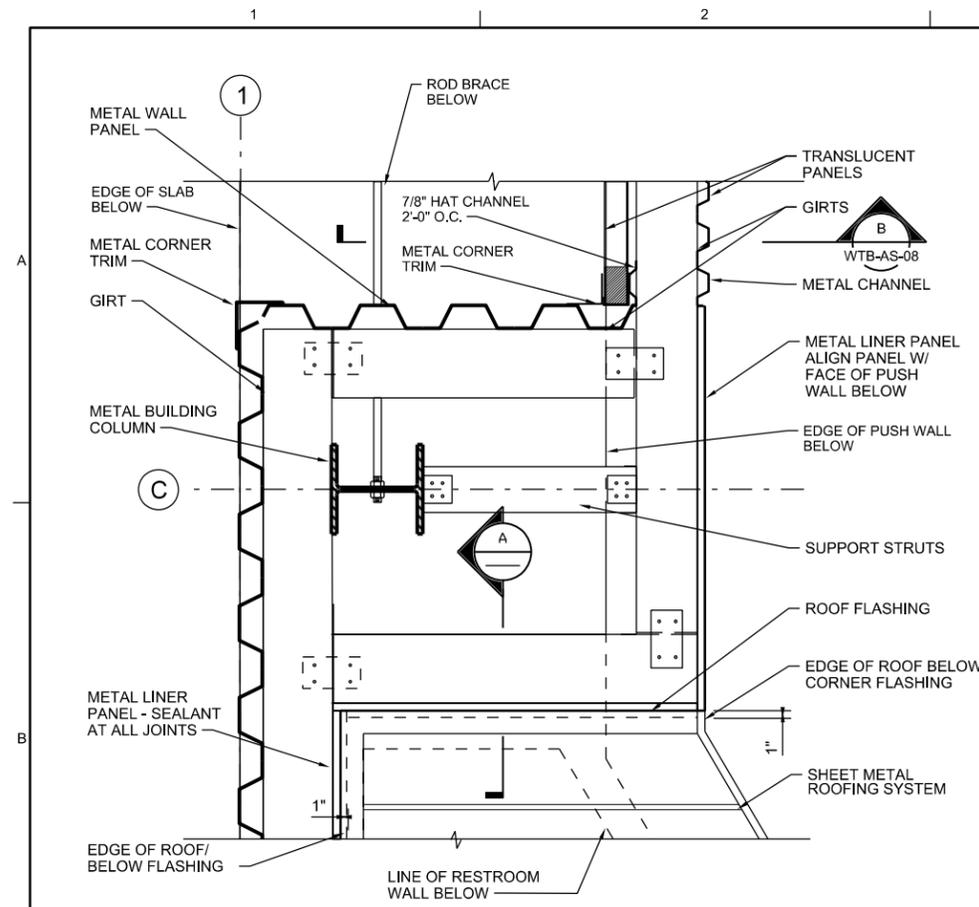
- NOTES:**
1. INSTALL LINER PANELS AT ALL INTERIOR WALL FACES OF PRE-ENGINEERED BUILDING. U.N.O.
 2. PUSH WALLS ARE LEVEL AT TOP SEE WTB-AS-13 FOR ELEVATIONS.
 3. ARMOR PLATE FOLLOWS SLOPE OF FLOOR.



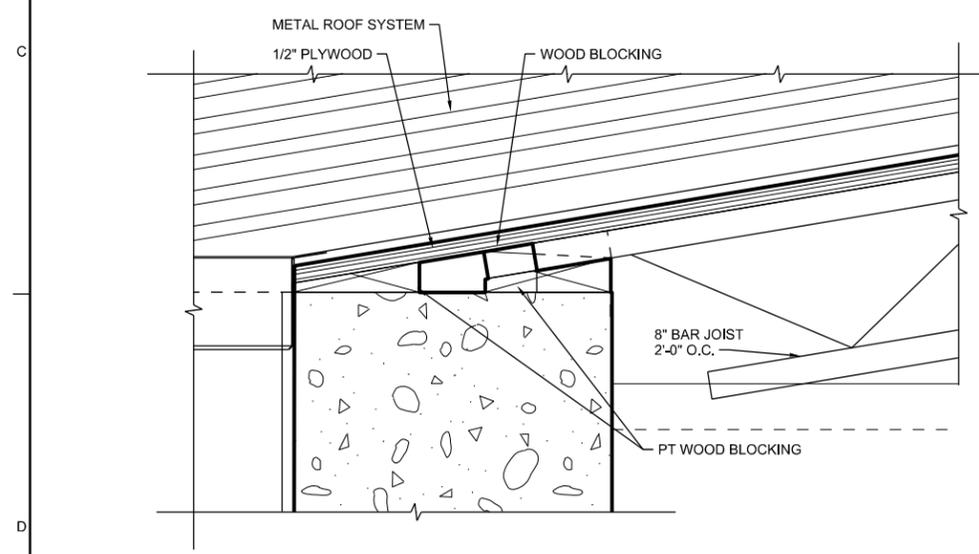
C BUILDING SECTION
 1/8" = 1'-0"
 WTB-AS-02



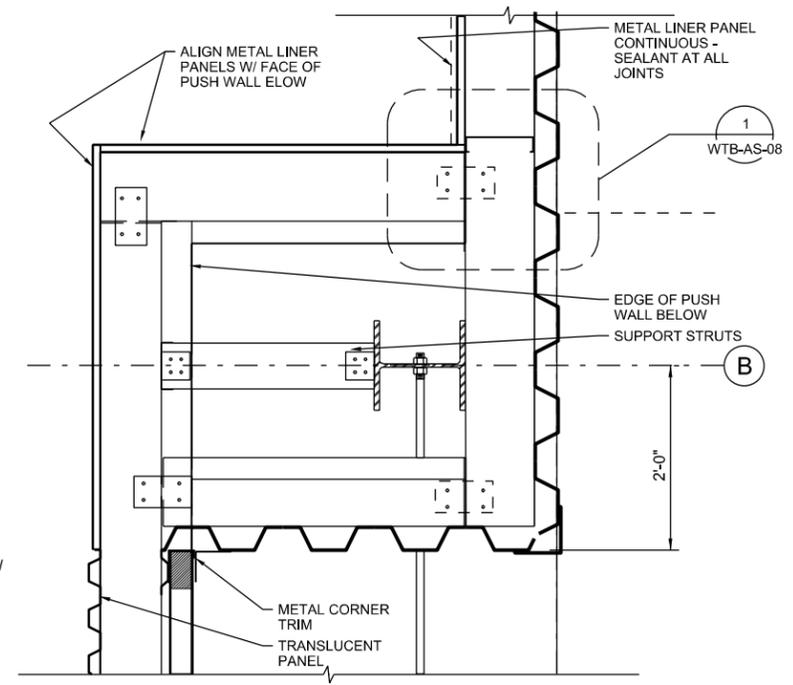
D STAIR SECTION
 1/4" = 1'-0"
 WTB-AS-02



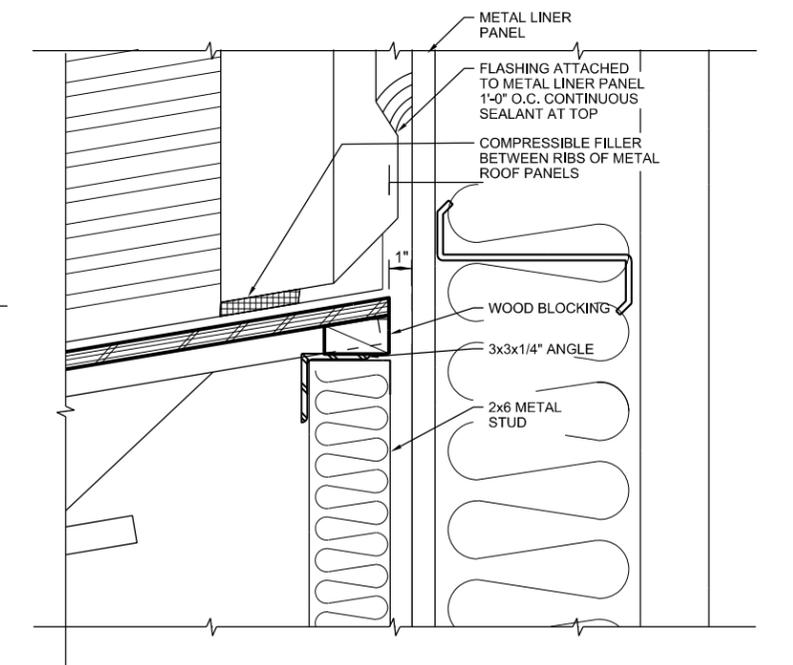
1 DETAIL
1"=1'-0"
WTB-AS-03



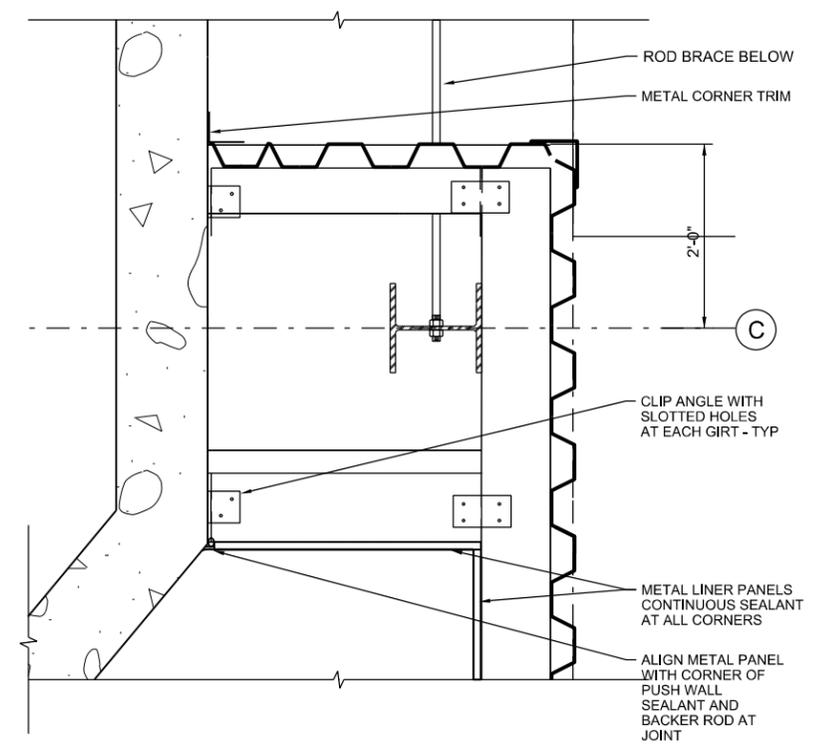
4 DETAIL
3"=1'-0"
WTB-AS-03



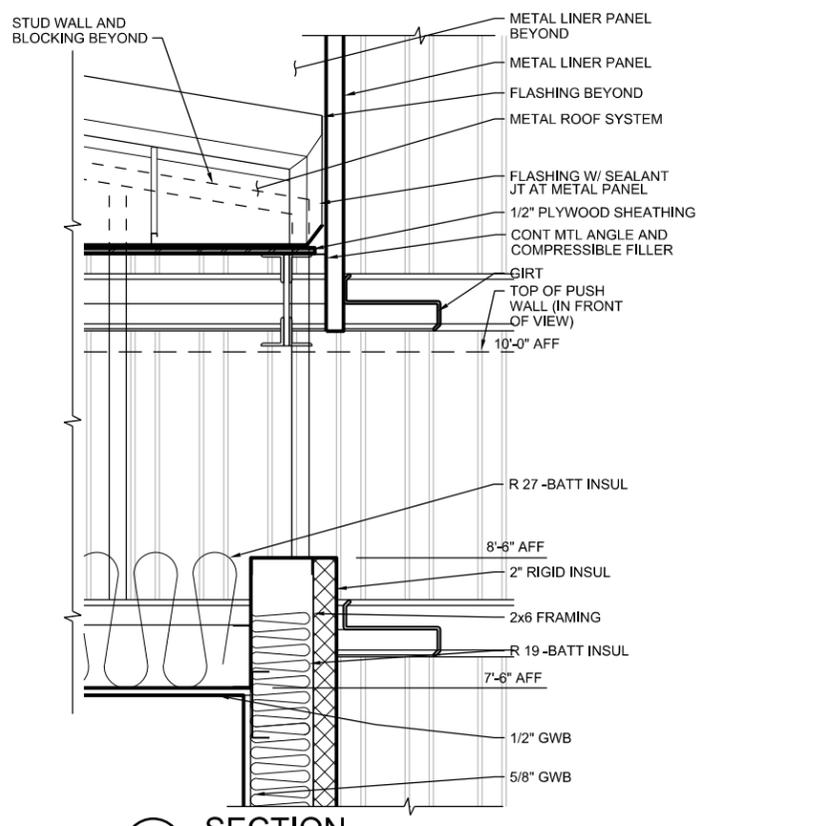
2 DETAIL
1"=1'-0"
WTB-AS-02



5 DETAIL
3"=1'-0"
WTB-AS-03



3 DETAIL
1"=1'-0"
WTB-AS-02



A SECTION
1 1/2"=1'-0"

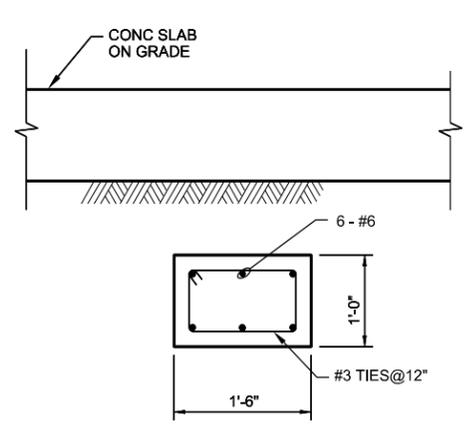
9622 REGISTERED ARCHITECT
Mark Sharp
MARK F. SHARP
STATE OF WASHINGTON

NO.	DATE	DR	REVISION	BY	APVD
		M. SHARP			
		J. HANSEN			
		G. BURLEY			

Carothers Road Solid Waste Facility
New Waste Transfer Building and
Site Improvements
Whitman County, WA

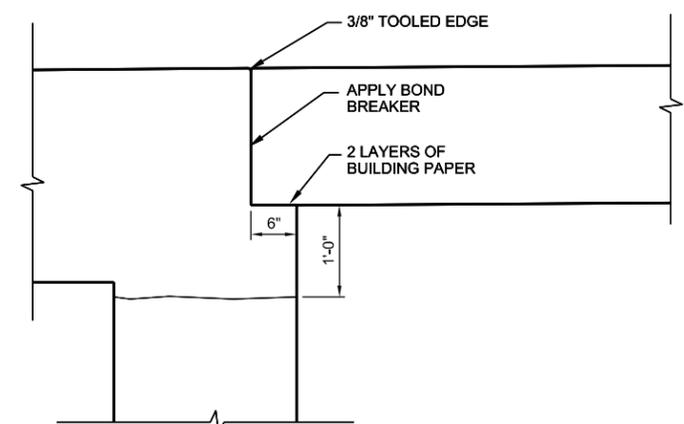
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DETAILS

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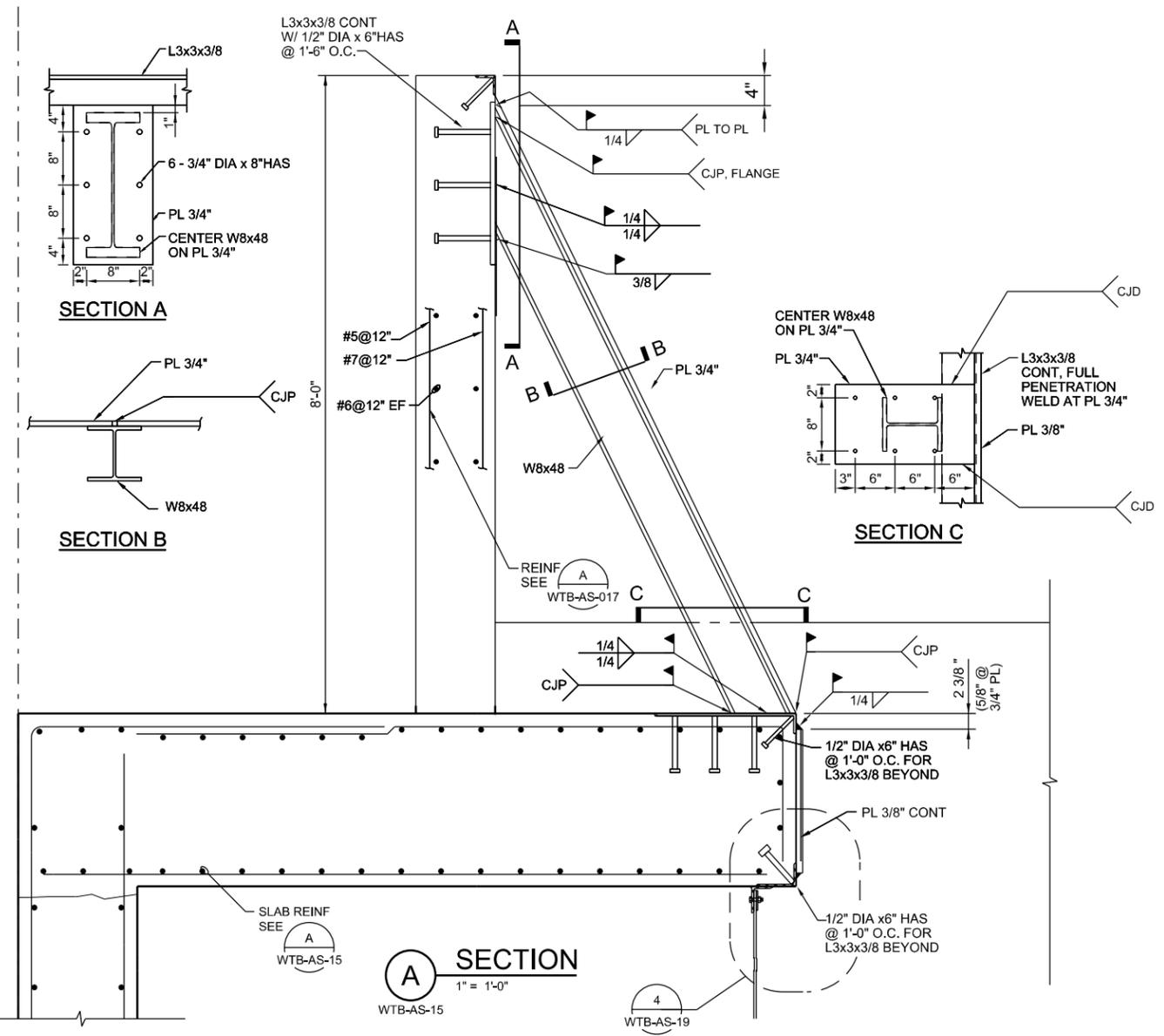
1 DETAIL
1" = 1'-0"

WTB-AS-16
WTB-AS-10



2 DETAIL
1" = 1'-0"

WTB-AS-15



A SECTION
1" = 1'-0"

WTB-AS-15

WTB-AS-19

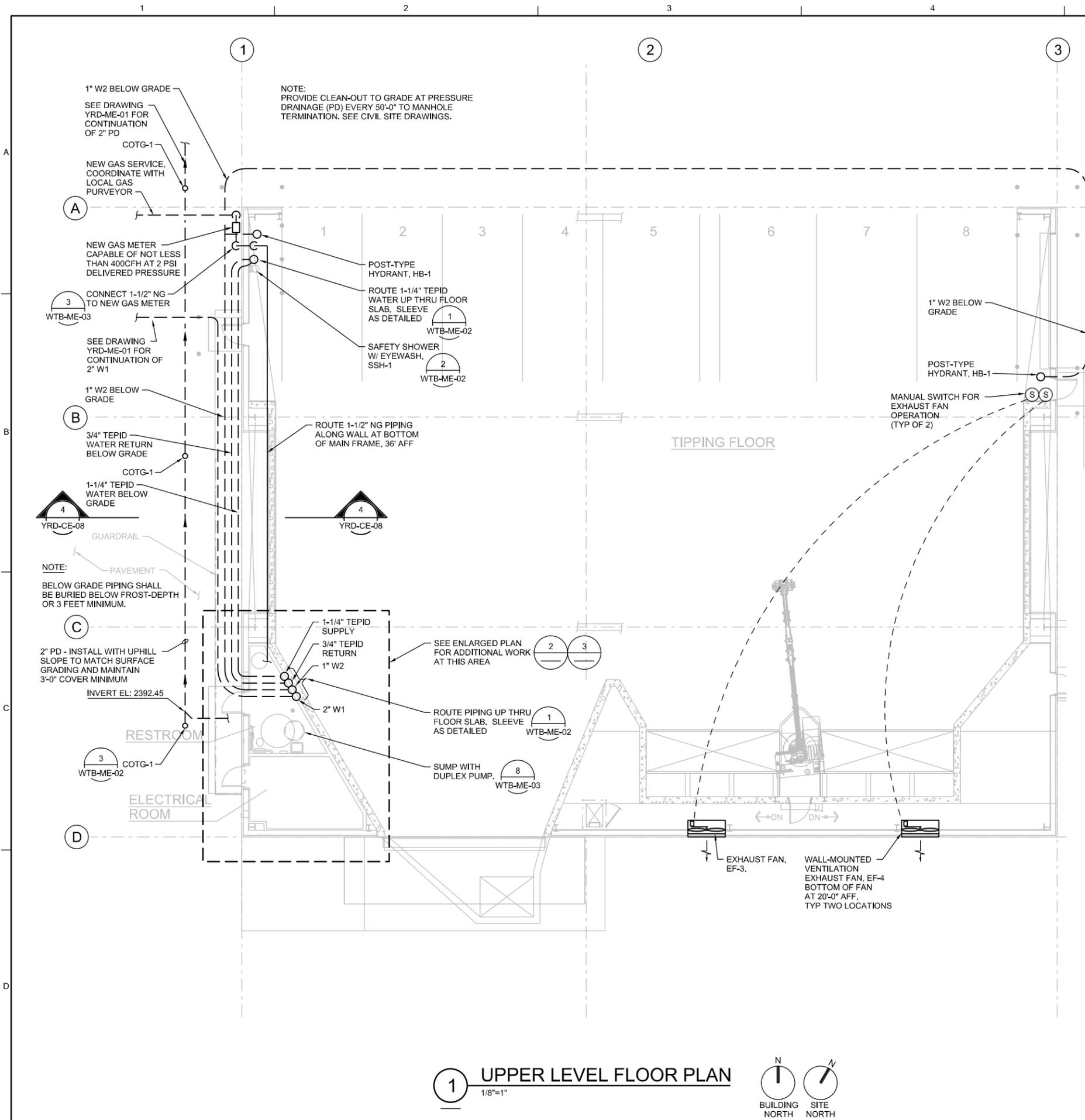


NO.	DATE	DR	REVISION	BY	APVD
		S GOTO	CHK	G BURLEY	APVD
		S GOTO	DR	S TROYAN	APVD
					S GOTO

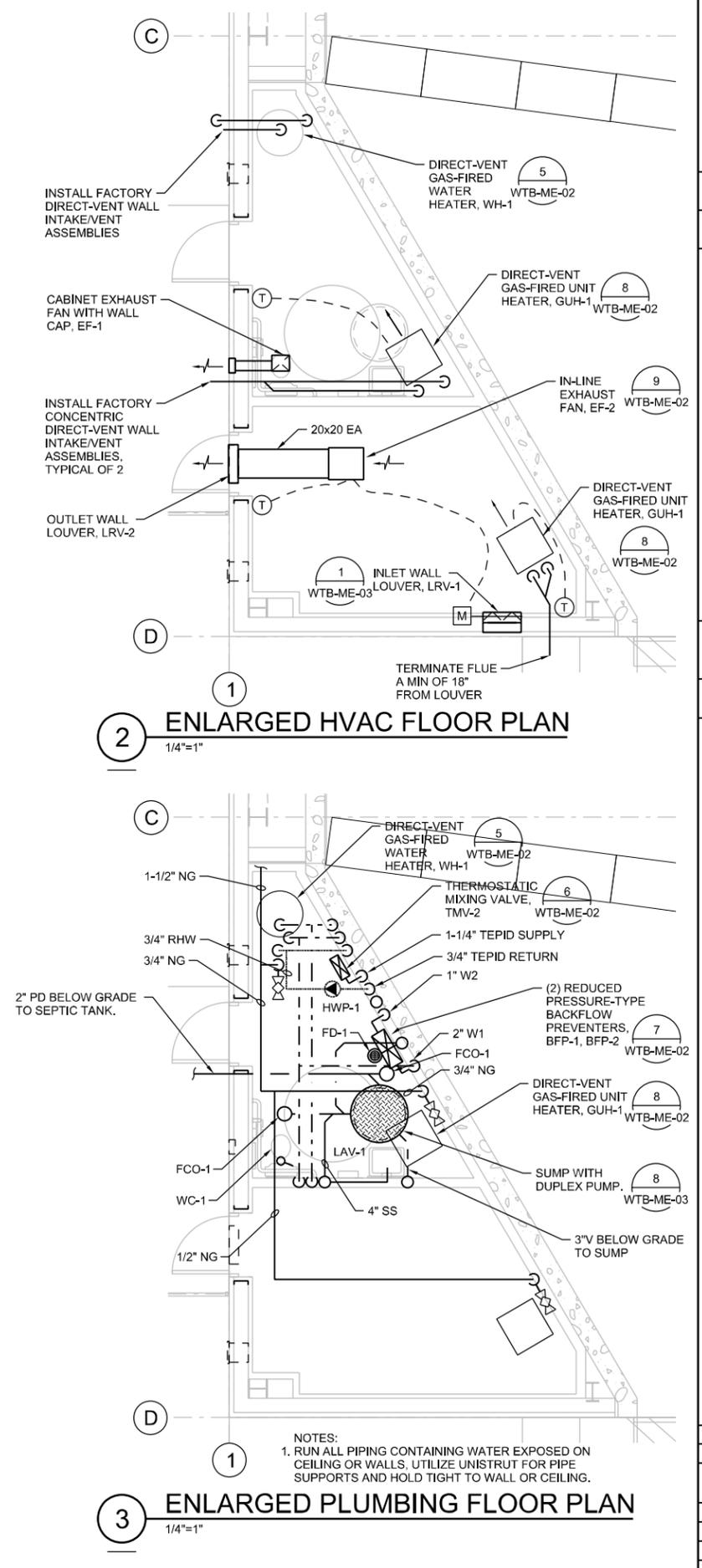
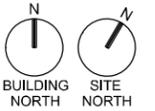
Carothers Road Solid Waste Facility
New Waste Transfer Building and
Site Improvements
Whitman County, WA

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STRUCTURAL
SECTIONS AND DETAILS

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1 UPPER LEVEL FLOOR PLAN
1/8"=1"



2 ENLARGED HVAC FLOOR PLAN
1/4"=1"

3 ENLARGED PLUMBING FLOOR PLAN
1/4"=1"



NO.	DATE	DR	REVISION	BY	T PRICE
		R. CATHERS	CHK	G. WALKER	
		R. CATHERS	DR	R. CATHERS	

Carothers Road Solid Waste Facility
New Waste Transfer Building and
Site Improvements
Whitman County, WA

CH2MHILL

MECHANICAL
UPPER LEVEL PLAN

VERIFY SCALE	
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1

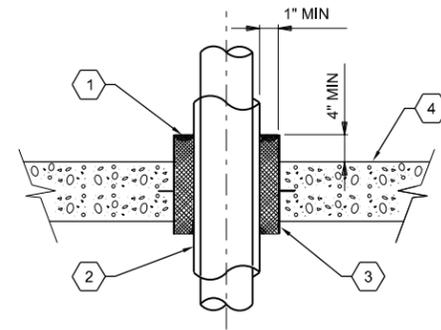
2

3

4

5

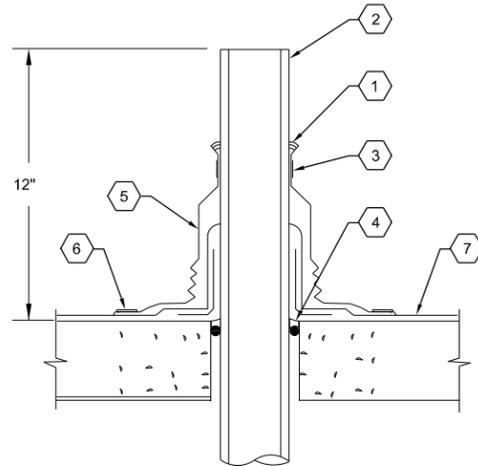
6



1. SEAL WATER TIGHT ALL AROUND WITH WATERPROOF NON SHRINKING MASTIC
2. INSULATION (WHERE APPLICABLE)
3. PIPE SLEEVE
4. FLOOR

1 PIPE PENETRATION THRU FLOOR

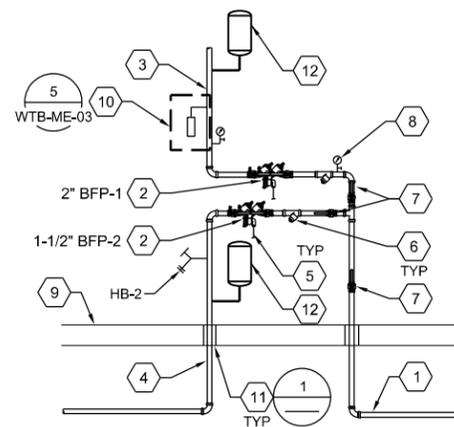
NTS
ME-01



1. SEALANT
2. VENT PIPE
3. STAINLESS STEEL DRAW BAND
4. 1/2" MIN SEALANT
5. PREFORMED BOOT ASSEMBLY PER SPECIFICATION SECTION 07 70 01
6. ATTACH AND FLASH PER MANUFACTURER'S REQUIREMENTS
7. ROOF ASSEMBLY

4 VENT THROUGH ROOF DETAIL

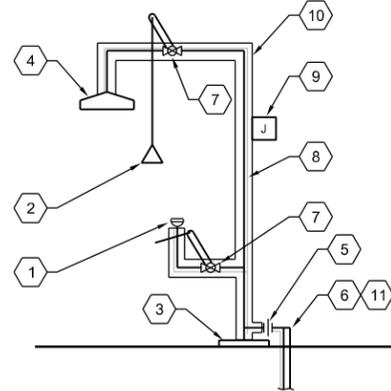
NTS
ME-01



1. 2" WATER, SEE CIVIL SHEET C-- FOR CONTINUATION.
2. REDUCED PRESSURE-TYPE BACKFLOW PREVENTER. PROVIDE ISOLATION VALVES AND UNIONS TO ALLOW REMOVAL.
3. 2" DOMESTIC SERVICE (W1).
4. 1-1/2" NON-POTABLE WATER SERVICE (W2) BELOW GROUND TO POST-TYPE HYDRANTS.
5. ROUTE DRAIN LINE TO NEAREST FLOOR DRAIN.
6. Y-STRAINER (TYP)
7. SHUT-OFF BALL VALVE (FULL PORT).
8. PRESSURE GAUGE (TYP)
9. FLOOR.
10. ELECTRONIC TRAP PRIMER, SEE DETAIL.
11. FLOOR PENETRATION, SEE DETAIL.
12. EXPANSION TANK, 2 GALLON

7 W1 AND W2 WATER SERVICE DETAIL

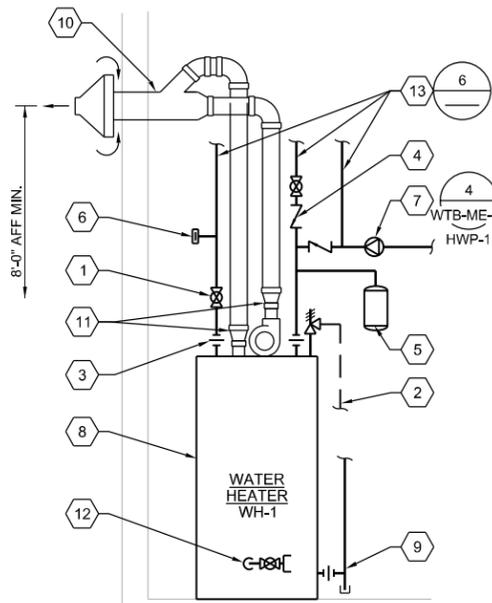
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ME-01



1. EYEWASH (LESS BOWL)
2. SHOWER PULL ROD
3. FLOOR MOUNTING FLANGE
4. SHOWER HEAD
5. UNION AT FIXTURE CONNECTION
6. 1-1/4" TEPID WATER SUPPLY INSULATED AND HEAT-TRACED
7. STAY-OPEN VALVE - TYPICAL
8. FACTORY HEAT-TRACE
9. POWER SUPPLY CONNECTION BY DIVISION 26
10. UV RESISTANT ABS COVER
11. CONNECT 3/4" TEPID WATER RETURN PIPING INSULATED AND HEAT-TRACED

2 EMERGENCY SHOWER-EXTERIOR

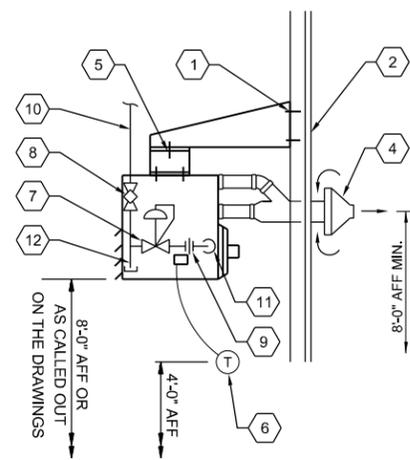
NO SCALE
ME-01



1. ISOLATION BALL VALVE
2. EXTEND COPPER T&P RELIEF TO ADJACENT FLOOR DRAIN
3. DIELECTRIC UNION
4. CHECK VALVE (TYP)
5. EXPANSION TANK, 2 GALLON
6. THERMOMETER
7. HOT WATER RECIRCULATION PUMP - SEE DETAIL
8. DIRECT VENT TYPE GAS-FIRED WATER HEATER
9. NATURAL GAS CONNECTION
10. CONCENTRIC WALL CAP ALL WORK PER MANUFACTURER'S RECOMMENDATIONS
11. PIPE INCREASER PER VENT LENGTH CHARTS
12. REPLACE TANK DRAIN WITH 3/4"x3" NIPPLE AND BALL VALVE WITH MALE HOSE THREAD OUTLET
13. DHW, RHW AND W1 TO MIXING VALVE, TMV-2

5 DIRECT-VENT WATER HEATER DETAIL

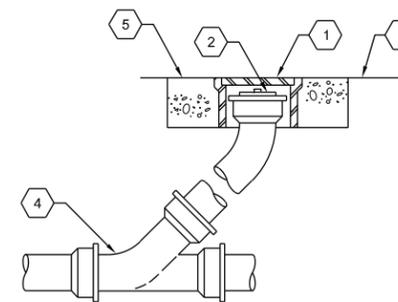
NTS
ME-01



1. SECURE TO STRUCTURE
2. WALL/STRUCTURE
3. UNIT HEATER
4. CONCENTRIC WALL VENT
5. MANUFACTURER'S MOUNTING BRACKETS, (TYP)
6. FACTORY REMOTE THERMOSTAT
7. GAS PRESSURE REGULATOR
8. ISOLATION VALVE
9. UNION
10. GAS SUPPLY BY PLUMBING
11. PROVIDE FLEXIBLE APPLIANCE CONNECTOR
12. DIRT LEG

8 NATURAL GAS-FIRED UNIT HEATER INSTALLATION DETAIL

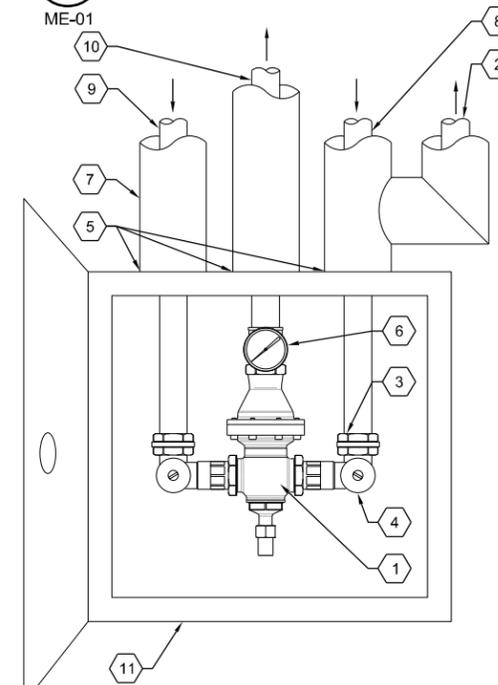
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ME-01



1. CLEANOUT BOX WITH CI COVER MARKED "CO".
2. CLEANOUT FITTING
3. FINISH GRADE
4. BEND OR WYE, AS REQUIRED.
5. 18" x 18" x 6" CONCRETE PAD.

3 CLEANOUT TO GRADE DETAIL

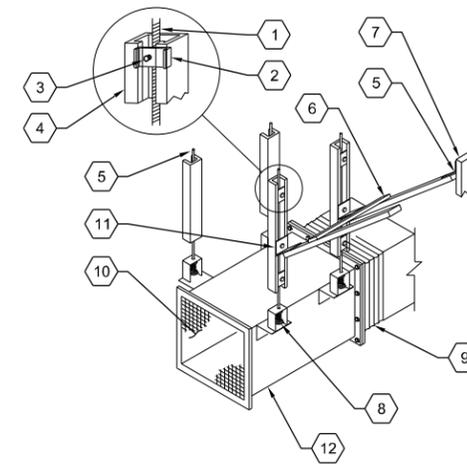
NTS
ME-01



1. THERMOSTATIC MIXING VALVE, TMV-2
2. HOT WATER CIRCULATION BRANCH TAKE-OFF AS CLOSE TO CABINET AS POSSIBLE)
3. DIELECTRIC UNION TYPICAL
4. INTEGRAL STOPS
5. SEAL PENETRATIONS WATER-TIGHT-TYP
6. THERMOMETER
7. INSULATION - SEE SPECIFICATIONS
8. COLD WATER SUPPLY (W1)
9. HOT WATER SUPPLY (140°F)
10. TEPID WATER SUPPLY (85°F ADJUSTABLE)
11. FACTORY METAL VALVE CABINET WITH DOOR

6 MIXING VALVE WITH CABINET DETAIL

NTS
ME-01



1. THREADED ROD LOAD RATED
2. CLAMPING NUT
3. CAP SCREW
4. STRUT FRAMING CHANNEL
5. ANCHOR TO STRUCTURE TYPICAL OF 4
6. CROSS TIE
7. STRUCTURE
8. SPRING HANGER - TYP
9. FLEXIBLE CONNECTION W/ 1" GAP
10. COVER INLET OPENING WITH GALVANIZED 1/4"x1/4" WIRE CLOTH
11. 45° ANGLE FITTING TYPICAL
12. IN-LINE EXHAUST FAN

9 IN-LINE EXHAUST FAN SUPPORT DETAIL

NTS
ME-01

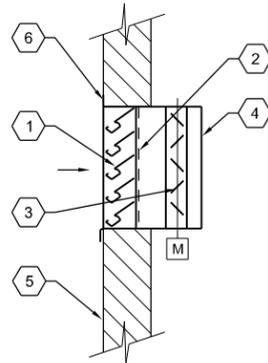


DATE	JULY 2013
PROJ	437927
DWG	WTB-ME-02
SHEET	52 of 64
REVISION	BY APVD
NO.	DATE
DR	R. CATHERS
CHK	G. WALKER
APVD	T. PRICE

Carothers Road Solid Waste Facility
New Waste Transfer Building and
Site Improvements
Whitman County, WA

CH2MHILL
MECHANICAL
DETAILS

VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
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SHEET	52 of 64

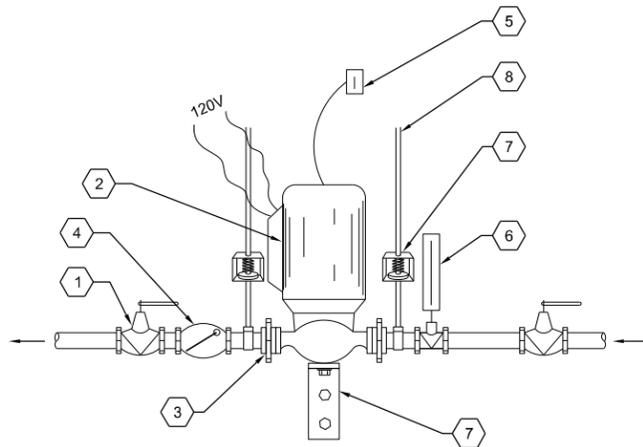


1. ALUMINUM DRAINABLE FIXED BLADE LOUVER, SEE LOUVER SCHEDULE
2. ALUMINUM BIRD SCREEN ACROSS OPENING
3. FACTORY 2-POSITION MOTORIZED DAMPER WHERE INDICATED ON DRAWINGS. PROVIDE 120V ACTUATOR INTERLOCKED WITH SERVING FAN. SEE CONTROL DIAGRAM.
4. FABRICATE SHEET METAL PLENUM TO SUPPORT DAMPER ASSEMBLY. LEAVE PLENUM OPEN TO SPACE
5. EXTERIOR WALL. CONSTRUCTION MATERIAL VARIES. COORDINATE OPENING REQUIREMENTS
6. SEAL PERIMETER JOINT WATER-TIGHT

1 WALL INTAKE LOUVER W/ DAMPER DETAIL
NTS
ME-01

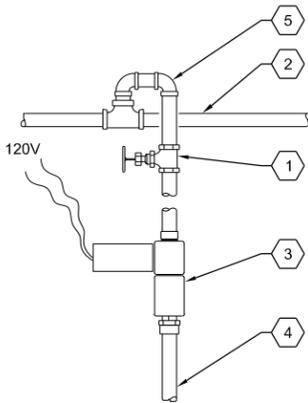
2 NOT USED
NTS

3 NOT USED
NTS



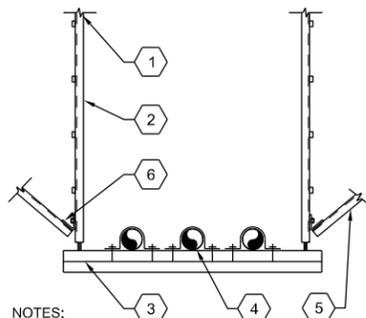
1. ISOLATION BALL VALVE (TYP)
2. RECIRCULATION PUMP SEE SCHEDULE
3. DIELECTRIC UNION (TYP)
4. CHECK VALVE
5. WALL SWITCH, PUMP TO RUN CONTINUOUS
6. THERMOMETER
7. BASE-SUPPORT TO STRUCTURE OR SPRING HANGER
8. FOR ANCHORAGE, SEE DETAIL 7 THIS SHEET.

4 RECIRCULATION PUMP DETAIL
NTS
ME-01



1. ISOLATION BALL VALVE
2. DOMESTIC WATER LINE
3. ELECTRONIC TRAP PRIMER VALVE, ETP-1 WITH SOLENOID
4. 1/2" TRAP PRIMER LINE TO FLOOR DRAIN
5. 1/2" TRAP PRIMER SUPPLY

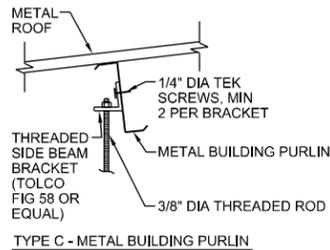
5 ELECTRONIC TRAP PRIMER DETAIL
NTS
ME-01



1. FOR ANCHORAGE, SEE DETAIL 7 THIS SHEET.
2. 1/2" DIA A307 THREADED ROD INSIDE OF UNISTRUT P1000 (OR EQUAL) STIFFENER, WITH P2485 CRADLE CLIP, CHANNEL NUT, AND HEX HEAD CAP SCREW AT MAX 16" O.C.
3. UNISTRUT P1001 OR EQUAL.
4. PIPES WITH STRAPS.
5. UNISTRUT P1000 (OR EQUAL) MAX 8'-0" LONG.
6. UNISTRUT P1354 WITH 3/8" CHANNEL NUTS WITH SPRING, TYP

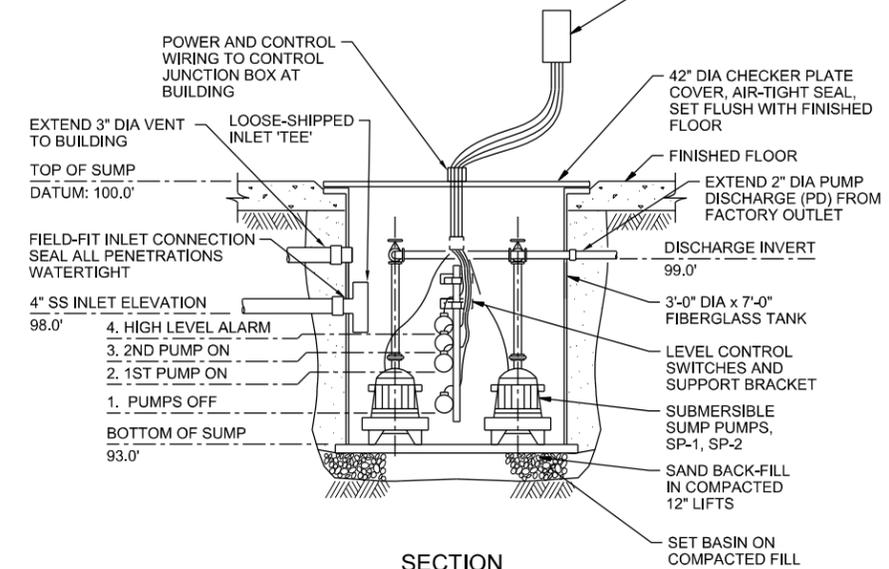
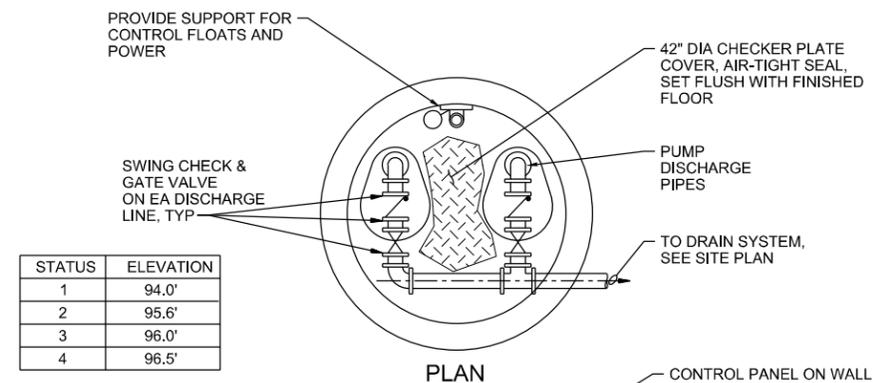
- NOTES:
1. MAX SPACING OF TRAPEZE SUPPORT 6'-0".
 2. MAX VERTICAL LOAD TO ANY TRAPEZE SUPPORT 500 LB.

6 PIPE SUPPORT DETAIL
NTS
ME-01



- NOTES:
1. MAXIMUM ALLOWABLE SUPPORTED LOAD PER HANGAR:
TYPE A : 600 LBS TYPE D : 600 LBS
TYPE B : 250 LBS TYPE E : 150 LBS
TYPE C : 300 LBS
 2. DETAIL IS INTENDED FOR SUPPORT OF PIPES WITH DIA ≤ 4".

7 PIPE SUPPORT ATTACHMENT DETAIL
NTS
ME-01



8 DUPLEX SUMP PUMP DETAIL
NTS
ME-01



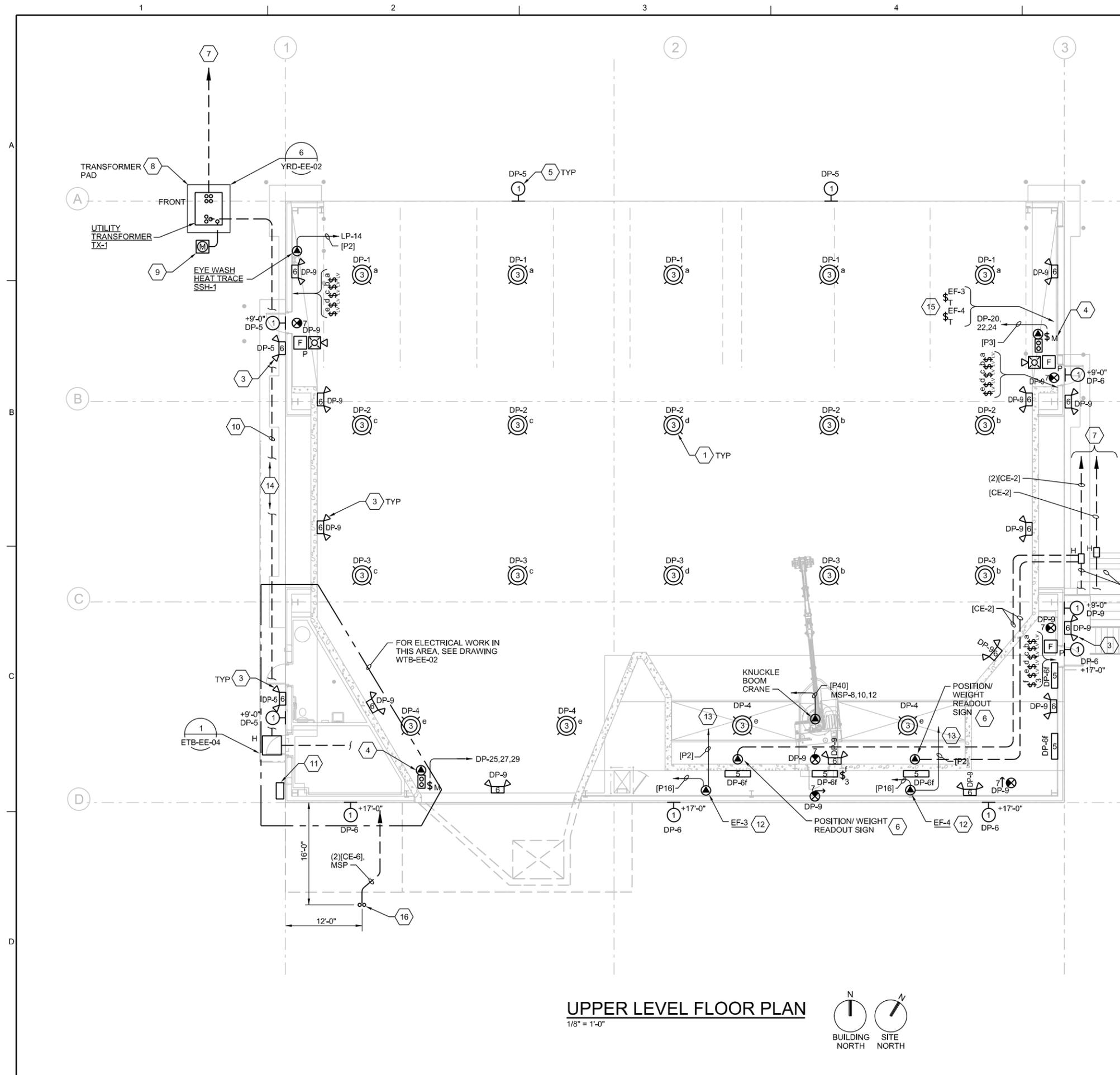
NO.	DATE	DR	REVISION	BY	T PRICE
		R. CATHERS	CHK	APVD	
		R. CATHERS	CHK	APVD	
		G. WALKER	CHK	APVD	

Carothers Road Solid Waste Facility
New Waste Transfer Building and
Site Improvements
Whitman County, WA

CH2MHILL
MECHANICAL
DETAILS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.

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PROJ	437927
DWG	WTB-ME-03
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GENERAL NOTES

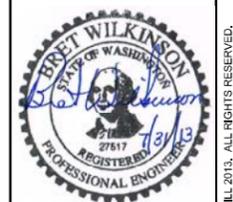
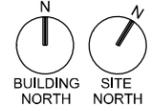
- A. FOR ELECTRICAL LEGENDS, SEE DRAWING GEN-EE-01. FOR ELECTRICAL ABBREVIATIONS, SEE DRAWING GEN-EE-02. FOR ONE-LINE DIAGRAM, SEE DRAWING WTB-EE-03. FOR PANEL AND LUMINAIRE SCHEDULES, SEE DRAWING WTB-EE-06.
- B. FURNISH, INSTALL, AND CONNECT THE QUANTITY OF CONDUCTORS, IN CONDUIT, AS REQUIRED FOR THE COMBINATION OF LIGHTS AND LIGHT SWITCHES ASSIGNED TO THE BRANCH CIRCUIT SHOWN.
- C. CIRCUIT NUMBERS ARE SHOWN ADJACENT TO LIGHTS, RECEPTACLES, AND OTHER EQUIPMENT CONNECTION POINTS. FURNISH, INSTALL AND CONNECT THE QUANTITY OF CONDUCTORS, IN CONDUIT, AS REQUIRED.
- D. UNLESS OTHERWISE NOTED, FURNISH NO. 12 AWG PHASE AND INDIVIDUAL NEUTRAL WIRES WITH NO. 12 AWG GROUND IN 3/4" CONDUIT. FOR 120-VOLT, 20-AMP CIRCUIT LENGTHS BETWEEN 75 FEET AND 150 FEET, PROVIDE NO. 10 AWG PHASE, INDIVIDUAL NEUTRAL, AND GROUND IN 3/4" CONDUIT. FOR 277-VOLT, 20-AMP CIRCUIT LENGTHS BETWEEN 200 FEET AND 350 FEET, PROVIDE NO. 10 AWG PHASE, INDIVIDUAL NEUTRAL, AND GROUND IN 3/4" CONDUIT. FOR LENGTHS BETWEEN 350 FEET AND 500 FEET, PROVIDE NO. 8 AWG PHASE, INDIVIDUAL NEUTRAL, AND GROUND IN 1" CONDUIT.
- E. COORDINATE THE LOCATION AND INSTALLATION OF LIGHT FIXTURES WITH OTHER CONSTRUCTION.
- F. GROUND ALL CONDUITS ACCORDING TO DETAIL 8/WTB-EE-04.
- G. FOR EQUIPMENT LABELING, SEE DETAIL 5/WTB-EE-04.
- H. MECHANICAL EQUIPMENT IS SHOWN IN APPROXIMATE LOCATIONS. VERIFY LOCATION AND TERMINATION REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- I. ROUTE LIGHTING POWER, AND LOW-VOLTAGE CONTROL HOME-RUN BRANCH CIRCUITS THROUGH THE LIGHTING CONTROL PANEL, LCP, UNLESS OTHERWISE NOTED.
- J. FOR LIGHTING CONTROL PANEL REQUIREMENTS, SEE SPECIFICATIONS.

KEYED NOTES

- 1. MOUNT TYPE 3 LUMINAIRES WITH THE BOTTOM OF THE FIXTURE AT 33'-0" AFF.
- 2. MOUNT INDOOR EXIT LIGHT WITH TOP OF FIXTURE 9'-0" AFF.
- 3. MOUNT OUTDOOR EMERGENCY EGRESS LIGHT WITH THE BOTTOM OF THE FIXTURE AT 8'-0".
- 4. OVERHEAD DOOR MOTOR. FURNISH AND INSTALL MOTOR-RATED DISCONNECT AT THE CONTROLLER. INSTALL THE CONTROLLER AS DIRECTED BY THE MANUFACTURER. FURNISH AND INSTALL CONDUIT AND WIRING BETWEEN CONTROLLER AND PUSHBUTTON STATION. MOUNT PUSHBUTTON STATION 48" AFF TO BOTTOM ENCLOSURE. CONTROLLER AND PUSHBUTTON STATION ARE PROVIDED BY OTHERS. PROVIDE AND INSTALL PROPERLY RATED OVERCURRENT PROTECTION AT EACH LOCAL DISCONNECT, TO MATCH ACTUAL MOTOR SIZE.
- 5. MOUNT TYPE 1 LUMINAIRE WITH BOTTOM OF FIXTURE AT 31'-0" AFF, TYP. UNO.
- 6. MOUNT POSITION/WEIGHT READOUT SIGN 16'-0" AFF. ORIENT SIGN TOWARD KNUCKLE BOOM OPERATOR. PROVIDE AND INSTALL CONDUIT SHOWN BETWEEN THIS AND THE SCALE CONTROLLER IN THE SCALE HOUSE. WIRING PROVIDED AND INSTALLED BY SCALE SYSTEM INSTALLER.
- 7. FOR CONTINUATION OF CONDUITS, SEE DRAWING YRD-EE-01.
- 8. PROVIDE CONCRETE TRANSFORMER PAD. FOR PAD REQUIREMENTS, SEE DRAWING YRD-EE-01. MAINTAIN THE FOLLOWING CLEARANCES TO THE EDGE OF THE CONCRETE PAD:

CLEARANCE TO:	SHALL BE NO LESS THAN:
NON-COMBUSTIBLE WALL	2'-0"
WALL WITH COMBUSTIBLE COMPONENT	8'-0"
DOOR, WINDOW, OR OTHER OPENING	8'-0"
COMBUSTIBLE EAVES 14" OR LESS ABOVE	8'-0" HORIZONTAL FROM EAVES
- 9. PROVIDE AND INSTALL METER ENCLOSURE. FOR ADDITIONAL REQUIREMENTS, SEE DRAWING YRD-EE-01. INSTALL METER ON THE LOW-VOLTAGE SIDE OF THE TRANSFORMER, BETWEEN 12" AND 24" FROM THE EDGE OF THE CONCRETE PAD.
- 10. SERVICE LATERAL. FOR CONDUIT AND CONDUCTOR REQUIREMENTS, SEE ONE LINE DIAGRAM ON DRAWING WTB-EE-03. FOR ROUTING WITHIN TRENCH, SEE DRAWING YRD-CE-08.
- 11. ROLL-UP GENERATOR TERMINAL CABINET. FOR MORE INFORMATION, SEE DRAWING WTB-EE-02.
- 12. COMBINATION STARTER IS PROVIDED WITH EXHAUST FAN.
- 13. PROVIDE CONDUIT AND WIRING BETWEEN THE STARTER EXHAUST FAN AND TIMER SWITCH, LOCATED AT EAST ENTRANCE.
- 14. UTILITY COORIDOR. MAINTAIN A MINIMUM OF 12" SEPARATION BETWEEN SERVICE LATERAL AND OTHER UTILITIES.
- 15. PROVIDE 0 TO 60 MINUTE TIMER SWITCH TO ENERGIZE EF-3 AND EF-4. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- 16. CONDUIT. STUB FOR FUTURE PRE-LOAD COMPACTOR. CAP AND MARK LOCATION.
- 17. FOR CONTINUATION, SEE DRAWING WTB-EE-02.

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

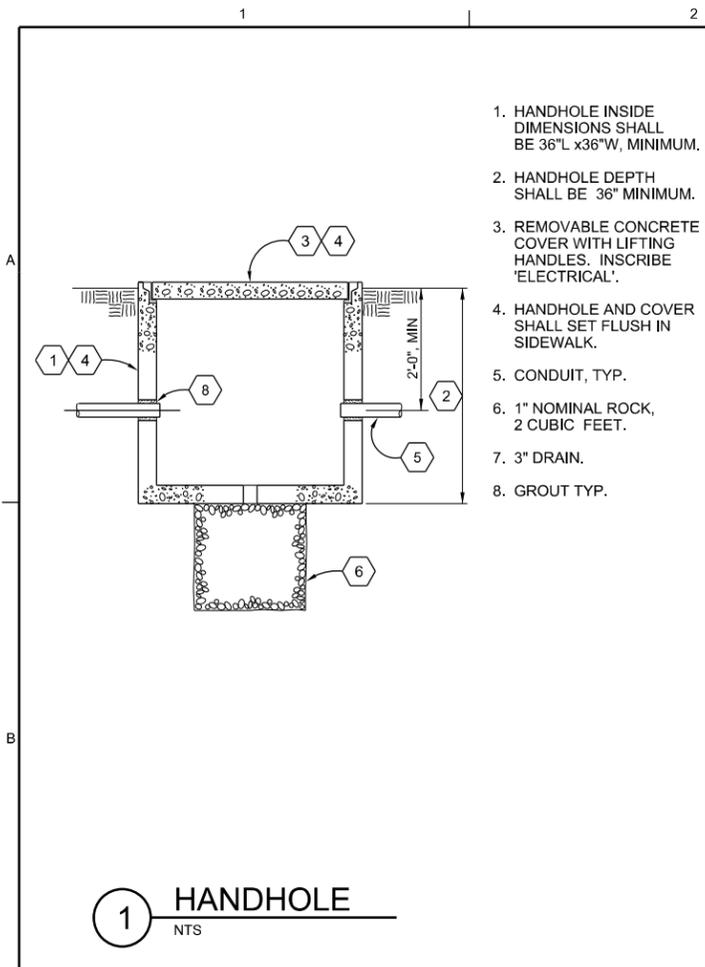


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Carothers Road Solid Waste Facility
New Waste Transfer Building and
Site Improvements
Whitman County, WA

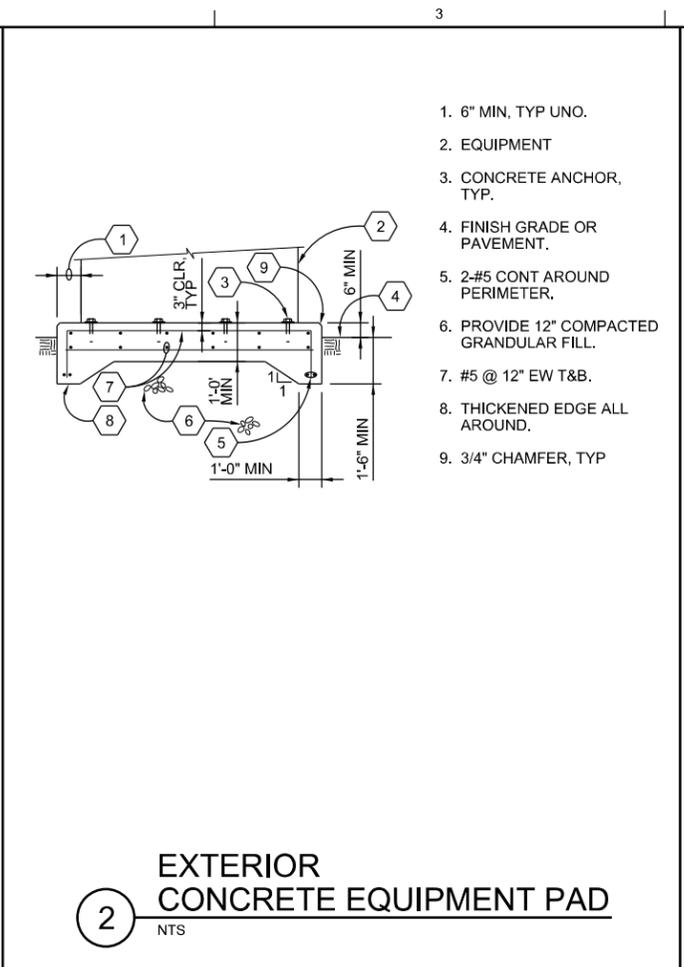
CH2MHILL
ELECTRICAL
UPPER LEVEL PLAN

VERIFY SCALE	
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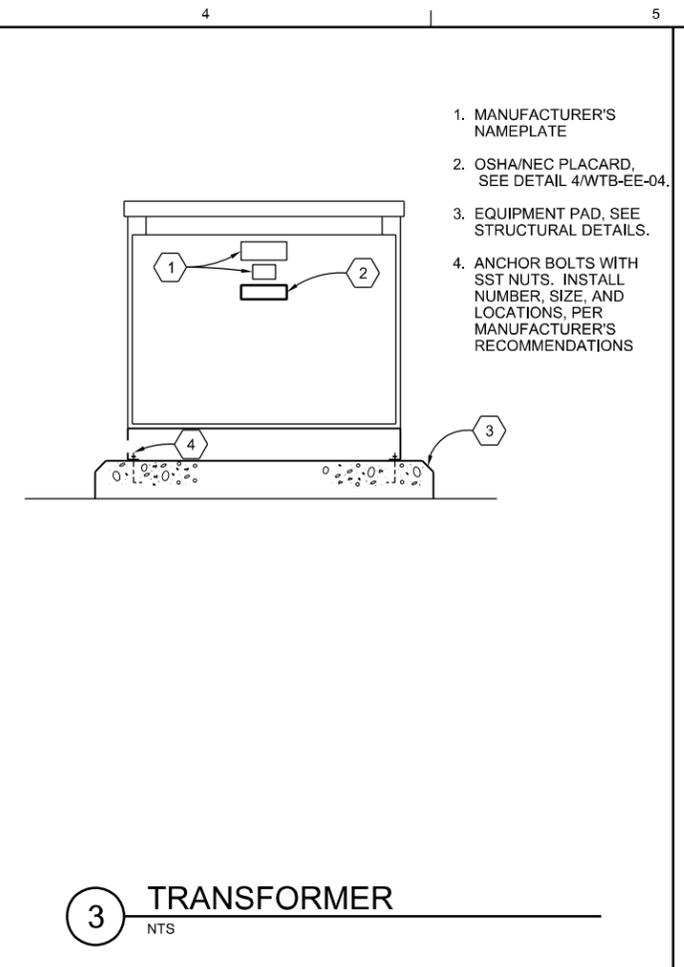
1. HANDHOLE INSIDE DIMENSIONS SHALL BE 36" L x 36" W, MINIMUM.
2. HANDHOLE DEPTH SHALL BE 36" MINIMUM.
3. REMOVABLE CONCRETE COVER WITH LIFTING HANDLES. INSCRIBE 'ELECTRICAL'.
4. HANDHOLE AND COVER SHALL SET FLUSH IN SIDEWALK.
5. CONDUIT, TYP.
6. 1" NOMINAL ROCK, 2 CUBIC FEET.
7. 3" DRAIN.
8. GROUT TYP.

1 HANDHOLE
NTS



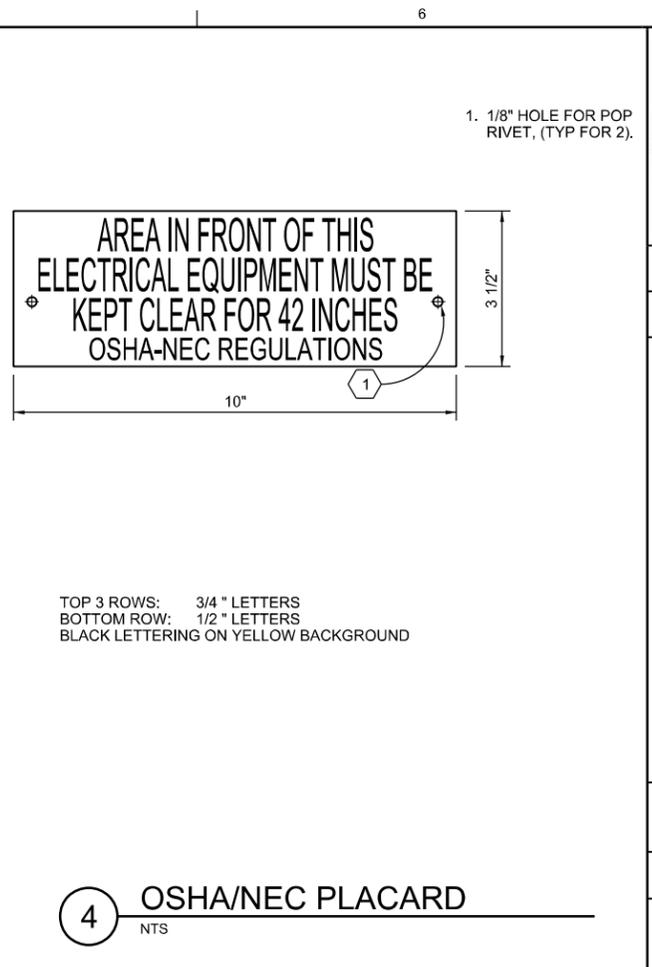
1. 6" MIN, TYP UNO.
2. EQUIPMENT
3. CONCRETE ANCHOR, TYP.
4. FINISH GRADE OR PAVEMENT.
5. 2-#5 CONT AROUND PERIMETER.
6. PROVIDE 12" COMPACTED GRANDULAR FILL.
7. #5 @ 12" EW T&B.
8. THICKENED EDGE ALL AROUND.
9. 3/4" CHAMFER, TYP

2 EXTERIOR CONCRETE EQUIPMENT PAD
NTS



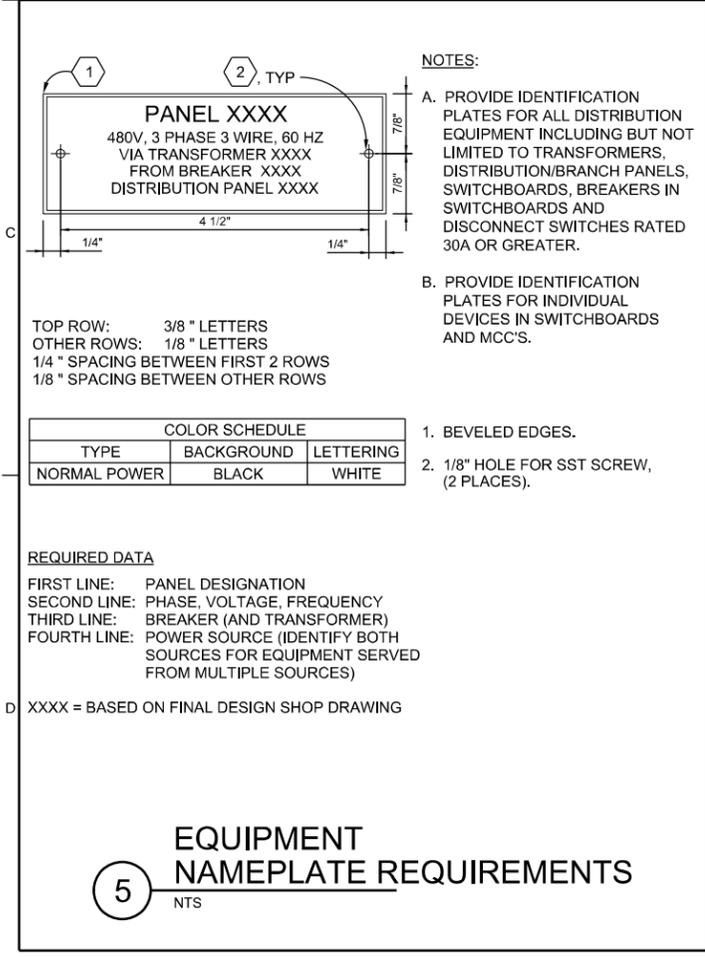
1. MANUFACTURER'S NAMEPLATE
2. OSHA/NEC PLACARD, SEE DETAIL 4/WTB-EE-04.
3. EQUIPMENT PAD, SEE STRUCTURAL DETAILS.
4. ANCHOR BOLTS WITH SST NUTS. INSTALL NUMBER, SIZE, AND LOCATIONS, PER MANUFACTURER'S RECOMMENDATIONS

3 TRANSFORMER
NTS



1. 1/8" HOLE FOR POP RIVET, (TYP FOR 2).

4 OSHA/NEC PLACARD
NTS



- NOTES:
- A. PROVIDE IDENTIFICATION PLATES FOR ALL DISTRIBUTION EQUIPMENT INCLUDING BUT NOT LIMITED TO TRANSFORMERS, DISTRIBUTION/BRANCH PANELS, SWITCHBOARDS, BREAKERS IN SWITCHBOARDS AND DISCONNECT SWITCHES RATED 30A OR GREATER.
 - B. PROVIDE IDENTIFICATION PLATES FOR INDIVIDUAL DEVICES IN SWITCHBOARDS AND MCC'S.

TOP ROW: 3/8" LETTERS
OTHER ROWS: 1/8" LETTERS
1/4" SPACING BETWEEN FIRST 2 ROWS
1/8" SPACING BETWEEN OTHER ROWS

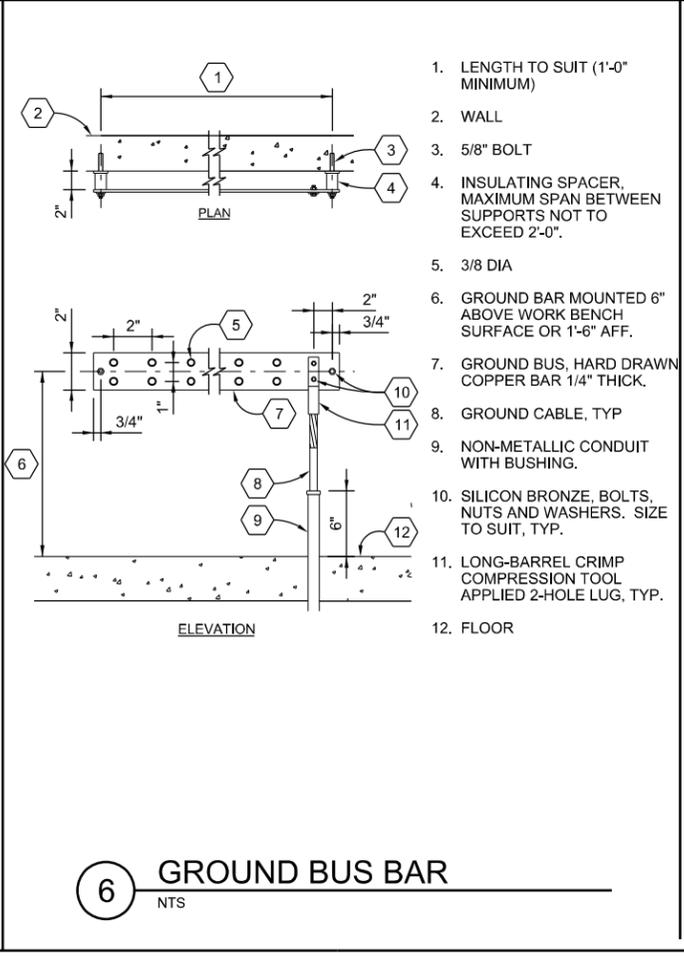
COLOR SCHEDULE		
TYPE	BACKGROUND	LETTERING
NORMAL POWER	BLACK	WHITE

1. BEVELED EDGES.
2. 1/8" HOLE FOR SST SCREW, (2 PLACES).

REQUIRED DATA
FIRST LINE: PANEL DESIGNATION
SECOND LINE: PHASE, VOLTAGE, FREQUENCY
THIRD LINE: BREAKER (AND TRANSFORMER)
FOURTH LINE: POWER SOURCE (IDENTIFY BOTH SOURCES FOR EQUIPMENT SERVED FROM MULTIPLE SOURCES)

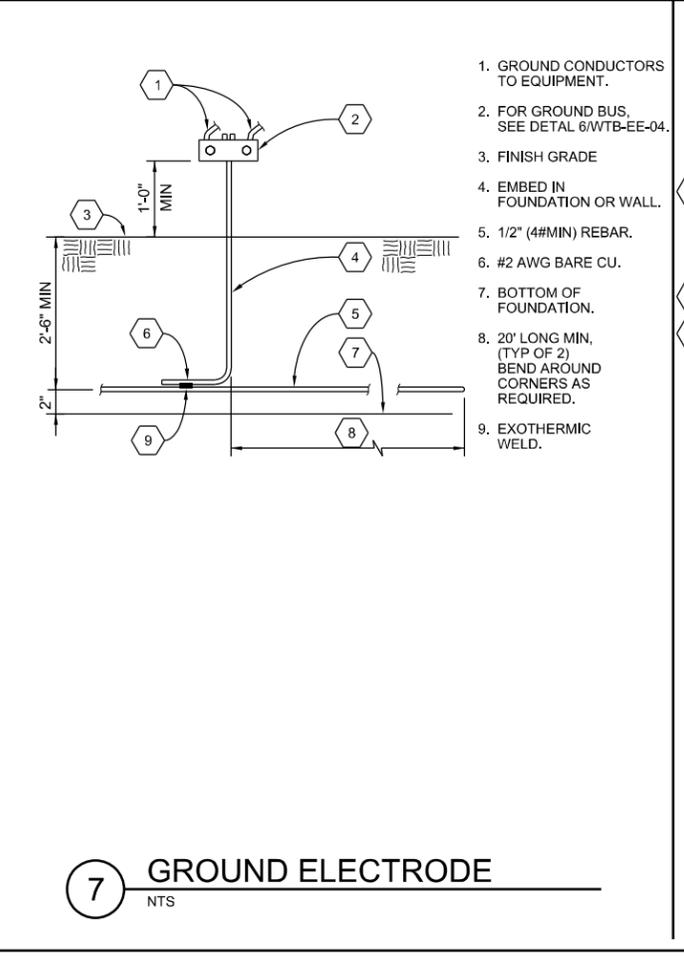
D XXXX = BASED ON FINAL DESIGN SHOP DRAWING

5 EQUIPMENT NAMEPLATE REQUIREMENTS
NTS



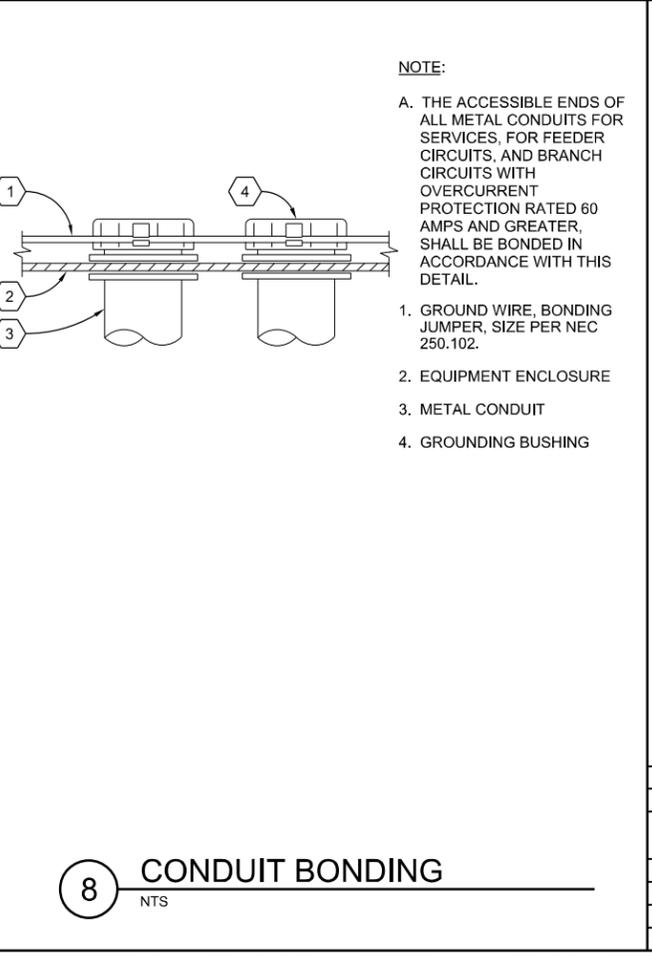
1. LENGTH TO SUIT (1'-0" MINIMUM)
2. WALL
3. 5/8" BOLT
4. INSULATING SPACER, MAXIMUM SPAN BETWEEN SUPPORTS NOT TO EXCEED 2'-0".
5. 3/8" DIA
6. GROUND BAR MOUNTED 6" ABOVE WORK BENCH SURFACE OR 1'-6" AFF.
7. GROUND BUS, HARD DRAWN COPPER BAR 1/4" THICK.
8. GROUND CABLE, TYP
9. NON-METALLIC CONDUIT WITH BUSHING.
10. SILICON BRONZE, BOLTS, NUTS AND WASHERS. SIZE TO SUIT, TYP.
11. LONG-BARREL CRIMP COMPRESSION TOOL APPLIED 2-HOLE LUG, TYP.
12. FLOOR

6 GROUND BUS BAR
NTS



1. GROUND CONDUCTORS TO EQUIPMENT.
2. FOR GROUND BUS, SEE DETAL 6/WTB-EE-04.
3. FINISH GRADE
4. EMBED IN FOUNDATION OR WALL.
5. 1/2" (#4MIN) REBAR.
6. #2 AWG BARE CU.
7. BOTTOM OF FOUNDATION.
8. 20' LONG MIN, (TYP OF 2) BEND AROUND CORNERS AS REQUIRED.
9. EXOTHERMIC WELD.

7 GROUND ELECTRODE
NTS



- NOTE:
- A. THE ACCESSIBLE ENDS OF ALL METAL CONDUITS FOR SERVICES, FOR FEEDER CIRCUITS, AND BRANCH CIRCUITS WITH OVERCURRENT PROTECTION RATED 60 AMPS AND GREATER, SHALL BE BONDED IN ACCORDANCE WITH THIS DETAIL.
1. GROUND WIRE, BONDING JUMPER, SIZE PER NEC 250.102.
 2. EQUIPMENT ENCLOSURE
 3. METAL CONDUIT
 4. GROUNDING BUSHING

8 CONDUIT BONDING
NTS

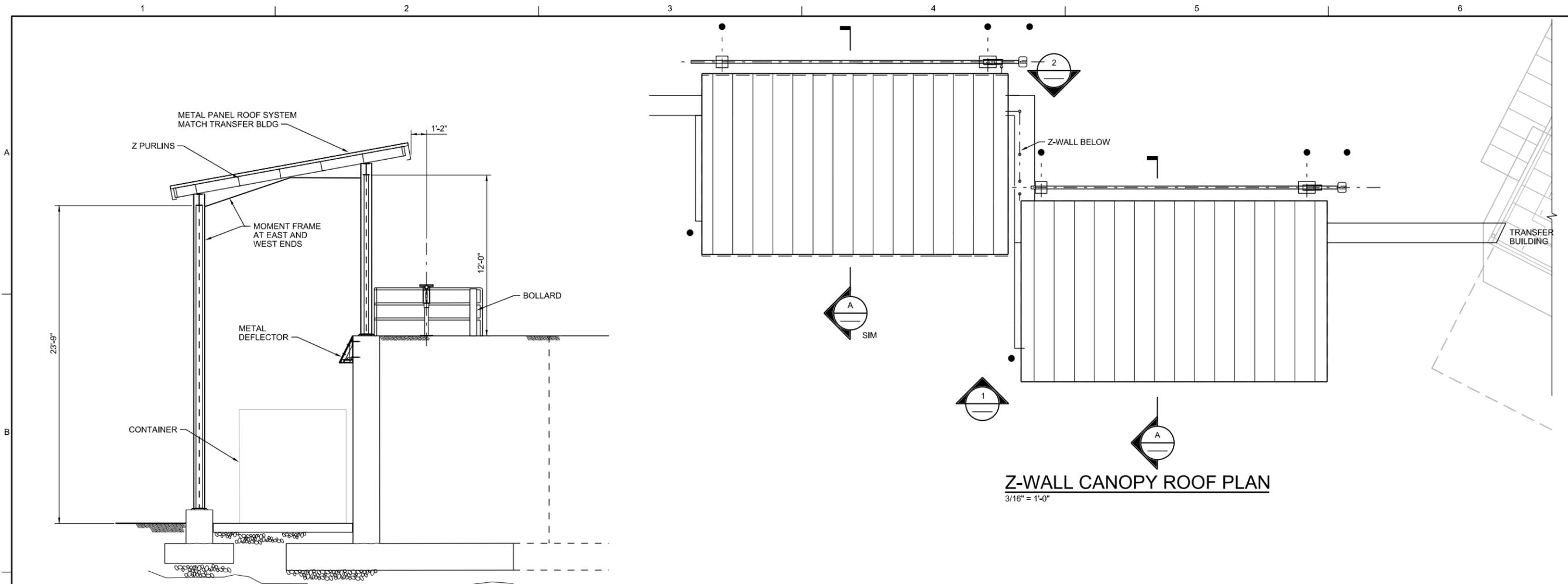
NO.	DATE	DR	APVD	BY	APVD	REVISION	CHK	APVD	M KUTZ	B WILKINSON
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Carothers Road Solid Waste Facility
New Waste Transfer Building and
Site Improvements
Whitman County, WA

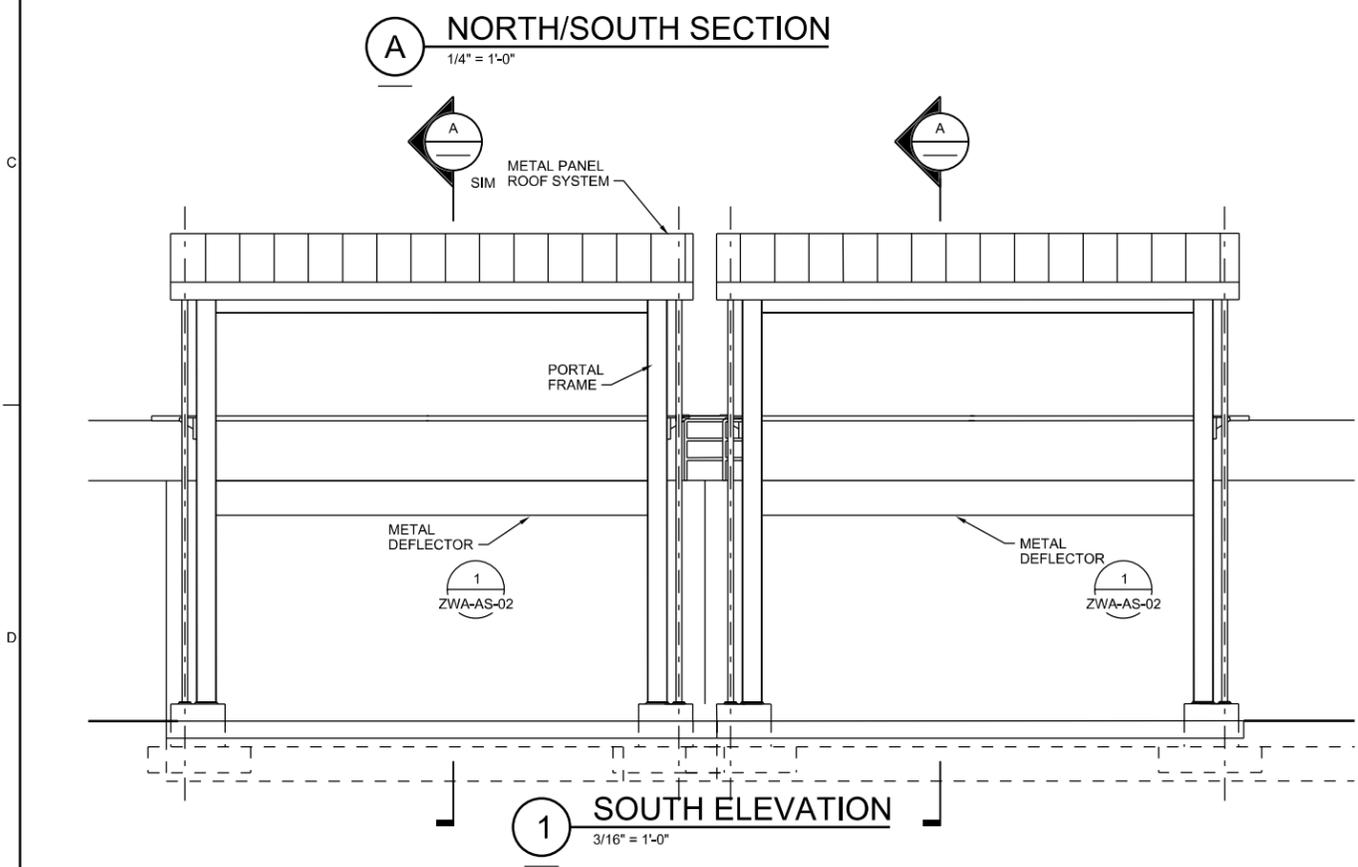
ELECTRICAL
DETAILS

VERIFY SCALE	
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PROJ	437927
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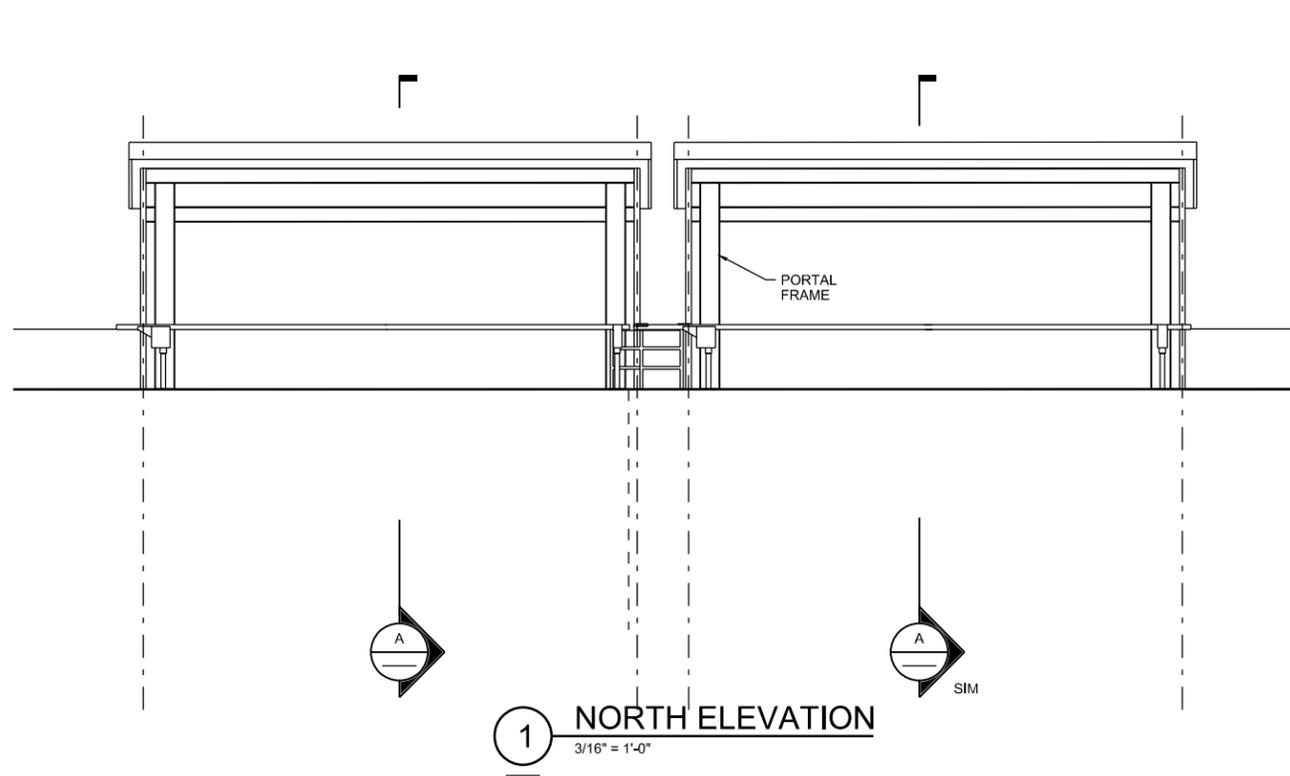
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Z-WALL CANOPY ROOF PLAN
3/16" = 1'-0"



A NORTH/SOUTH SECTION
1/4" = 1'-0"



1 NORTH ELEVATION
3/16" = 1'-0"

9622 REGISTERED ARCHITECT
Mark Sharp
MARK F. SHARP
STATE OF WASHINGTON

NO.	DATE	DR	CHK	REVISION	BY	APVD
		M SHARP	G BURLEY	J HANSEN		M SHARP

Carothers Road Solid Waste Facility
New Waste Transfer Building and
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Whitman County, WA

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SECTIONS AND ELEVATIONS

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