

GRANT COUNTY LANDFILL COMPLEX

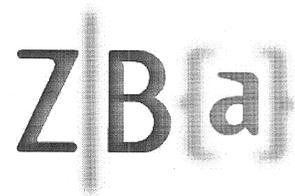
EPHRATA, WASHINGTON

GRANT COUNTY
PUBLIC WORKS DEPARTMENT
EPHRATA, WASHINGTON

DIRECTOR OF PUBLIC WORKS
DEREK POHLE, PE

MAY 16, 2011

ARCHITECT



ZECK BUTLER ARCHITECTS PS

CONSULTING ENGINEERS

CIVIL:	THOMAS, DEAN & HOSKINS, INC.
STRUCTURAL:	THOMAS, DEAN & HOSKINS, INC.
MECHANICAL:	L & S ENGINEERING ASSOCIATES, INC.
ELECTRICAL:	L & S ENGINEERING ASSOCIATES, INC.

ABBREVIATIONS

A.B.	ANCHOR BOLT	JT.	JOINT
ACT.	ACCOUSTICAL TILE	LAM.	LAMINATE(D)(ION)
A/C	AIR CONDITIONING	LAV.	LAVATORY
A.D.	AREA DRAIN	LL.	LIVE LOAD
A.F.F.	ABOVE FINISH FLOOR	LT.	LIGHT
ALUM.	ALUMINUM	MAS.	MASONRY
A.P.	ACCESS PANEL	MECH.	MECHANICAL
A.P.A.	AMERICAN PLYWOOD ASSOCIATION	MET.	METAL
ARCH.	ARCHITECT (URAL)	MFG.	MANUFACTURE(ER)
BD.	BOARD	M.H.	MAN HOLE
BET.	BETWEEN	MIN.	MINIMUM
BLDG.	BUILDING	M.O.	MASONRY OPENING
BLK.	BLOCKING	MT.	MOUNTED
B.M.	BENCH MARK	MATL.	MATERIAL
BM.	BEAM	N.I.C.	NOT IN CONTRACT
BOT.	BOTTOM	NOM.	NOMINAL
BRG.	BEARING	N.T.S.	NOT TO SCALE
BUR.	BUILT UP ROOFING	NRCA	NATIONAL ROOFING CONTRACTORS ASSOCIATION
CAB.	CABINET	O.C.	ON CENTER
C.	CAMBER	O.D.	OUTSIDE DIAMETER
C.B.	CATCH BASIN	O.F.	OWNER FURNISHED
C.F.	CONTRACTOR FURNISHED	O.I.	OWNER INSTALLED
CF.	CUBIC FEET	OPG.	OPENING
C.I.	CAST IRON	OPP.	OPPOSITE
C.J.	CONTROL JOINT	P.B.D.	PARTICLE BOARD
CLG.	CEILING	P.C.	PRECAST CONCRETE
CMU.	CONCRETE MASONRY UNIT	P.F.L.	FOUNDS PER LINEAL FOOT
COL.	COLUMN	P.L.	PROPERTY LINE
CONC.	CONCRETE	FLAM.	FLASTIC LAMINATE
CONSTR.	CONSTRUCTION	FLAS.	FLASTIC
CONTR.	CONTRACTOR	FNL.	PANEL
CFT.	COUNTERSINK	PNT.	PAINT
CTCK.	CERAMIC TILE	P.S.F.	POUNDS PER SQUARE FOOT
C.T.	CUBIC YARD	P.S.I.	POUNDS PER SQUARE INCH
C.Y.		PT.	POINT
DBL.	DOUBLE	P.T.D.	PAPER TONEL DISPENSER
D.F.	DRINKING FOUNTAIN	P.T.N.	PARTITION
DIAG.	DIAGONAL	P.V.D.	PRESERVATIVE TREATED
DIA.	DIAMETER	Q.T.	QUARRY TILE
DIM.	DIMENSION	R.	RIGER
DIV.	DIVISION	R.A.	RETURN AIR
DL.	DEAD LOAD	R.B.	RUBBER BASE
DR.	DOOR	R.D.	ROOF DRAIN
D.S.	DOWNSPOUT	REF.	REFERENCE
DTL.	DETAIL	REV.	REVISION, REVISED
DWG.	DRAWING	R.M.	ROOM
D.W.	DRYWELL	R.O.	ROUGH OPENING
E.B.	EXPANSION BOLT	R.O.W.	RIGHT OF WAY
E.I.F.S.	EXTERIOR INSULATION AND FINISH SYSTEM	R.R.F.	RECYCLED RUBBER FLOOR
E.J.	EXPANSION JOINT	R.W.C.	RAINWATER CONDUCTOR
EL.	ELEVATION	R.W.L.	RAINWATER LEADER
ELEC.	ELECTRICAL	S.C.	SOLID CORE
EPDM	ETHYLENE PROPYLENE DIENE MONOMER	SHT.	SHEET
EQ.	EQUAL	SM.	SIMILAR
EQP.	EQUIPMENT	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
E.W.	EACH WAY	SPEC.	SPECIFICATION
EXG.	EXISTING	SQ.	SQUARE
EXH.	EXHAUST	S.S.	STAINLESS STEEL
EXP.	EXPOSED	ST.	STEEL
EXT.	EXTERIOR	SUSP.	SUSPENDED
F.A.	FIRE ALARM	STN.	STAIN
F.B.O.	FURNISHED BY OTHERS	T.	TREAD
F.D.	FLOOR DRAIN	T.B.	TOWEL BAR
F.E.C.	FIRE EXTINGUISHER CABINET	T.C.	TOP OF CURB
FIN.	FINISH	T.G.	TEXT.
FLR.	FLOOR(ING)	THK.	THICK(NESS)
FLUR.	FLUORESCENT	T.P.D.	TOILET PAPER DISPENSER
FND.	FOUNDATION	T.J.N.	TOP OF WALL
FP.	FIREPROOF	TYP.	TYPICAL
FR.	FRAMED(ING)	U.B.C.	UNIFORM BUILDING CODE
FT.	FOOT	U.F.C.	UNIFORM FIRE CODE
FTG.	FOOTING	UG.	UNDERGROUND
FUR.	FURRED(ING)	U.O.	UNLESS NOTED OTHERWISE
G.A.	GAGE, GAUGE	V.C.T.	VINYL COMPOSITION TILE
G.B.	GRAB BAR	V.G.	VERTICAL
G.C.	GENERAL CONTRACTOR	V.G.	VERTICAL GRAIN
G.I.	GALVANIZED IRON	VIN.	VINYL
GL.	GLASS, GLAZING	V.T.	VINYL TILE
GLBM.	GLUE LAMINATED BEAM	V.V.C.	VINYL WALL COVERING
G.W.B.	GYPSSUM WALL BOARD	W.C.	WATER CLOSET
GALV.	GALVANIZED	W.D.	WOOD
H.B.	HOSE BIBB	W.O.C.	WALK OFF CARPET
H.C.	HOLLOW CORE	W.S.C.	WAINSCOT
HDN.	HARDWARE	W.W.F.	WELDED WIRE FABRIC
HOR.	HORIZONTAL		
H.M.	HOLLOW METAL		
H.P.	HORSE POWER		
HT.	HEIGHT		
HTG.	HEATING		
H.W.H.	HOT WATER HEATER		
I.D.	INSIDE DIAMETER		
INCL.	INCLUDE(D)(ING)		
INSUL.	INSULATED(ION)		
INT.	INTERIOR		
INV.	INVERT		

SYMBOLS

THE FOLLOWING SYMBOLS IDENTIFY TYPICAL CONDITIONS AND ELEMENTS AND ARE APPLICABLE ONLY IF UTILIZED IN THE DOCUMENTS.

FIRE AREA DIAGRAMS



CODE ANALYSIS

SHOP BUILDING
 Design Code: 2009 International Building Code
 Occupancy Classification(s) (303 to 312): B & S-1, non-separated mixed use
 Construction Type (602): V-B
 Fire Suppression (903): None Provided.
 (903.2.9.1.4) No sprinkler req'd. Building is one story. Fire areas do not exceed 5,000sf.
 Fire Alarm & Detection System (907): None Provided.
 There is no requirement for an S-1 occupancy to have an alarm system.
 Buildings on the same lot (705.3)
 Actual distance provided between buildings: over 10'
 Req'd Fire Rating of Extr. Walls (Table 602): 0 hours

Scale House
 Design Code: 2009 International Building Code
 Occupancy Classification(s) (303 to 312): B
 Construction Type (602): V-B
 Fire Suppression (903): None Provided.
 (903.2.9.1.4) No sprinkler req'd. Building is one story, w/ area < 12,000sf.
 Fire Alarm & Detection System (907): None Provided.
 There is no requirement for a B occupancy to have an alarm system.
 Buildings on the same lot (705.3)
 Actual distance provided between buildings: Over 10'
 Req'd Fire Rating of Extr. Walls (Table 602): 0 hours

Recycling Building
 Design Code: 2009 International Building Code
 Occupancy Classification(s) (303 to 312): S-1
 Construction Type (602): V-B
 Fire Suppression (903): None Provided.
 (903.2.9.1) No sprinkler required. Building is one story, w/ area < 12,000 sf.
 Fire Alarm & Detection System (907): None Provided.
 There is no requirement for a S-1 occupancy to have an alarm system.

Fire Resistance Rated Construction (Table 601 for typical assemblies):

Structural Frame (704.10):	0
Exterior Bearing Walls (Table 602):	0
Interior Bearing Walls:	0
Exterior Non-bearing Walls:	0
Interior Non-bearing Walls:	0
Floor Construction (incl. support):	0
Roof Construction (incl. support):	0
Penetrations at...:	0
Fire resistance rated walls (713.3):	None
Horizontal Assemblies (713.4):	None
Opening Protectives (715):	None

Fire Walls (706): None
Fire Barriers (707): None
Shaft Enclosures (708): None
Fire Partitions (709): None
Smoke Barriers (710): None
Smoke Partitions (711): None
Horizontal Assemblies (712): None
Penetrations at...: None
Fire-resistance rated walls (713.3): None
Horizontal Assemblies (713.4): None
Opening Protectives (715): None

Actual Building Height: 1 story with mezzanine, 25'-8"
Actual Building Area per Floor (square feet):

	Offices B	Shop S-1	Total
Ground Level	1,552	6,195	7,747
Mezzanine		815	
Total	1,552	7,010	8,562

Mezzanine area is less than 1/3 of area of Shop room.

Common Path of Egress Travel (1014) Not Applicable
 Maximum Travel Distance (Table 1016.1): 200 feet (OK)
 Corridor Rating (Table 1018.1): No corridor provided
 Egress Widths (1005.1):
 Minimum door width: 50 x 0.2' = 10' (36' per 100B.1.1)
 Minimum stair width: 50 x 0.3' = 15' (36' per 1009.1, ex.1)
 *Mezzanine stair not req'd to be accessible.
 Number of exits required (Table 1015.1, 1021.1 & 1021.2): 2
 Exit Separations (1015.2):
 At least 1/2 of diagonal of room or area serviced by exits.
 Office Area: 27' separation required. 41' separation provided.
 Shop: 57' separation required. 84' separation provided.
 Number of exits req'd to be accessible (1007.1): 2
 Meets accessible route of travel criteria (1104): (OK)
 Accessible route is continuous to public way (1007.2): (OK)

Fire Resistance Rated Construction (Table 601 for typical assemblies):

Space	Occ. Grp.	Factor (sf/occ)	Area (sf)	Occ. Load
Offices	B	100 gross	1,552	16
Shop	S-1	200 gross	6,195	31
Mezzanine	S-1	300 gross	815	3
Total			8,562	50

Fire Resistance Rated Construction (Table 601 for typical assemblies):

Space	Occ. Grp.	Factor (sf/occ)	Area (sf)	Occ. Load
Scale House	B	100 gross	231	3

Buildings on the same lot (705.3):
 Actual distance provided between buildings: over 10'
 Req'd Fire Rating of extr. walls (Table 602): 0 hours
 Fire Resistance Rated Construction (Table 601 for typical assemblies):
 Structural Frame (704.10): 0
 Exterior Bearing Walls (Table 602): 0
 Interior Bearing Walls: 0
 Exterior Non-bearing Walls: 0
 Interior Non-bearing Walls: 0
 Floor Construction (incl. support): 0
 Roof Construction (incl. support): 0
 Protection Requirements for Structural Members (704): Not required
 Minimum Fire Classification of Roofing (1505 & Appx D, D102.2.4): Class C
 Fire Walls (706): None
 Fire Barriers (707): None
 Shaft Enclosures (708): None
 Fire Partitions (709): None
 Smoke Barriers (710): None
 Smoke Partitions (711): None
 Horizontal Assemblies (712): None
 Penetrations at...: None
 Fire resistance rated walls (713.3): None
 Horizontal Assemblies (713.4): None
 Opening Protectives (715): None
 Actual Building Height: 1 story, 16'
 Actual Building Area (square feet): 231
 B Occupancy & V-B Construction Type
 Allowable Height (Table 503): 2 story, 40 feet
 Tabular Allowable Area (Table 503): 9,000 sf/floor
 Occupant Load (1004):

Space	Occ. Grp.	Factor (sf/occ)	Area (sf)	Occ. Load
Scale House	B	100 gross	231	3

 Number Exits Required (Table 1015.1, 1021.1 & 1021.2):
 Actual Building Height: 1 story with mezzanine, 20'
 Actual Building Area (square feet): 1,700
 S-1 Occupancy & V-B Construction Type
 Allowable Height (Table 503): 2 story, 40 ft
 Sprinkler Increase (504.2): None
 Tabular Allowable Area (Table 503): 9,000 sf/floor
 Occupant Load (1004):

Space	Occ. Grp.	Factor (sf/occ)	Area (sf)	Occ. Load
Recycling Bldg	S-1	200 gross	576	2

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GENERAL NOTES

- VERIFY ALL CONDITIONS & DIMENSIONS PRIOR TO STARTING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES WITH THE DRAWINGS.
- PROVIDE FIRE BLOCKS AND DRAFT STOPS AS PER 2006 IBC SECTION 711.
- ALL GLASS IN DOORS & WITHIN 24" OF DOORS SHALL BE TEMPERED GLASS.
- PENETRATIONS THROUGH OR INTO FIRE RATED WALLS AND CEILING SHALL BE LIMITED TO STEEL OR OTHER APPROVED ELECTRICAL OUTLET BOXES NOT EXCEEDING 16 SQUARE INCHES AND TO NON-COMBUSTIBLE PIPE OR CONDUIT NOT EXCEEDING 4 INCH NOMINAL DIAMETER. THE ANNULAR SPACE BETWEEN A PENETRATING ITEM AND GMB SHALL BE FILLED WITH IBC APPROVED FIRESTOPPING. OUTLET BOXES ON OPPOSITE SIDES OF A FIRE RATED WALL SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF AT LEAST 24 INCHES, OR SHALL HAVE APPROVED RATED INSERTS.
- NO PIPING, DUCTS, WASHER BOXES, WALL HEATERS, OR ITEMS OTHER THAN WIRING AND APPROVED ELECTRICAL BOXES SHALL BE INSTALLED IN PARTY WALLS. WATER PIPING SHALL NOT RUN IN EXTERIOR WALLS OR ATTICS, INCLUDING FIRE SPRINKLER PIPING.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE FOLLOWING CODES AND REGULATIONS: 2004 IBC, 2006 UPC, 2006 IFC, 2006 IFC, LATEST EDITION OF THE NEC, AMERICANS WITH DISABILITIES ACT, FEDERAL FAIR HOUSING AMENDMENTS ACT & ANY OTHER ADOPTED OR APPLICABLE CODE OR REGULATION, INCLUDING WASHINGTON STATE AMENDMENTS TO THOSE LISTED ABOVE.
- THE DESIGN, ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND HAS NOT BEEN CONSIDERED BY THE ARCHITECT. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE PRIOR TO THE COMPLETION OF ALL SHEAR WALLS, ROOF AND FLOOR DIAPHRAGMS AND FINISH MATERIALS. THE CONTRACTOR SHALL PROVIDE THE NECESSARY BRACING TO PROVIDE STABILITY PRIOR TO THE APPLICATION OF THE ABOVE MENTIONED COMPONENTS. VISITS TO THE SITE BY THE ARCHITECT SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

NO. DATE REVISIONS BY

ZB&A

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 www.zbba.com

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PROJECT TITLE: GRANT COUNTY LANDFILL COMPLEX
 EPHRATA, WASHINGTON
 GRANT COUNTY PUBLIC WORKS DEPARTMENT

GENERAL INFORMATION

SHEET TITLE

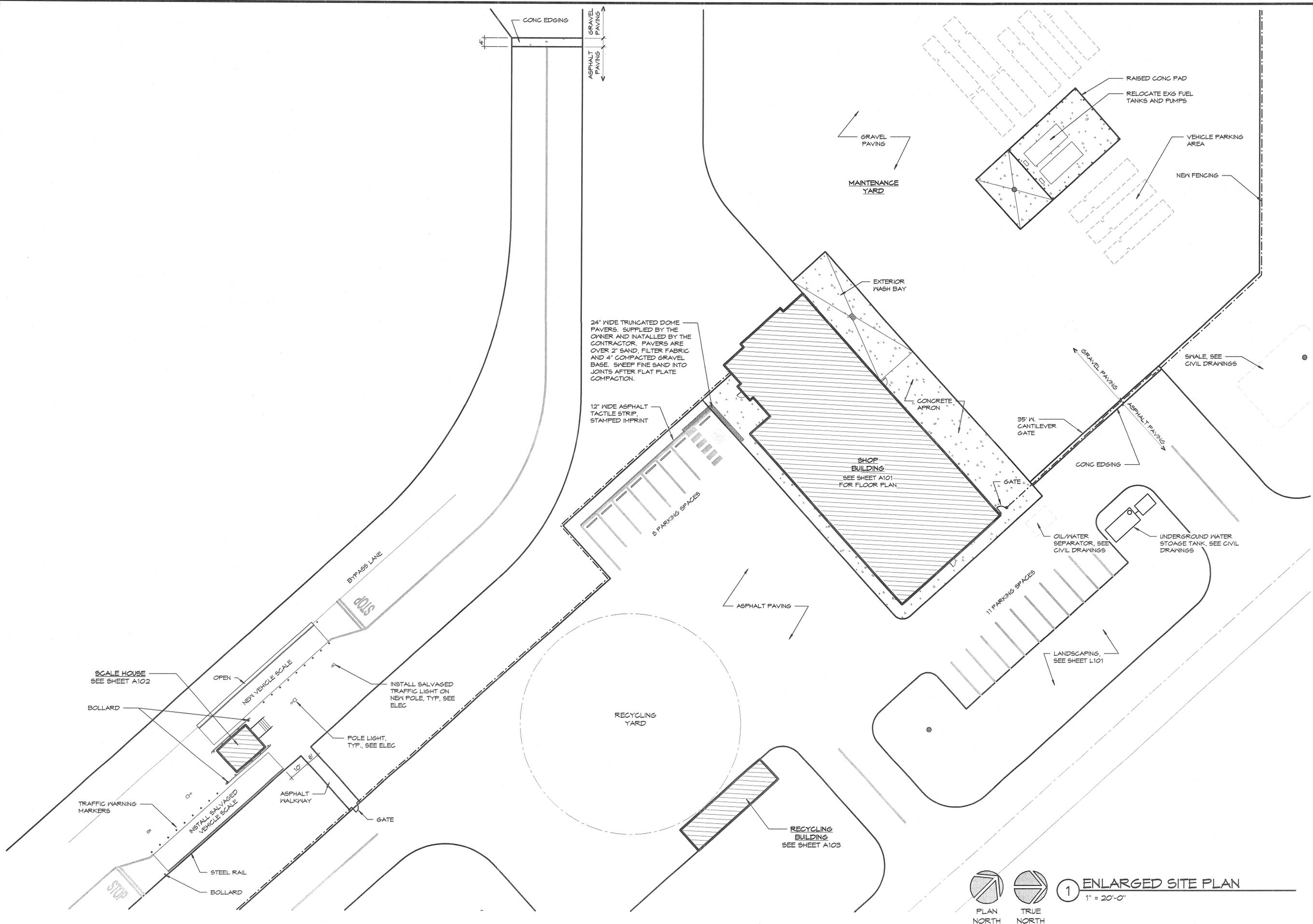
SEAL

6829 REGISTERED ARCHITECT
 WILLIAM ARTHUR FROENKE
 STATE OF WASHINGTON

PROJECT NO. 1009
 DRAWN: RJJ/SEMB
 CHECKED: JAF
 DATE: 5/16/11
 DRAWING NO. G101

C:\REVIT\BHP\1009\Grant County Landfill Complex.rvt 6/1/2011 11:28:39 AM

6/7/2011 11:29:20 AM C:\REVIT\1009 Grant County Landfill Complex.rvt



24" WIDE TRUNCATED DOME PAVERS, SUPPLIED BY THE OWNER AND INSTALLED BY THE CONTRACTOR. PAVERS ARE OVER 2" SAND, FILTER FABRIC AND 4" COMPACTED GRAVEL BASE. SWEEP FINE SAND INTO JOINTS AFTER FLAT PLATE COMPACTION.

12" WIDE ASPHALT TACTILE STRIP, STAMPED IMPRINT

GRAVEL PAVING
MAINTENANCE YARD

RAISED CONC PAD
RELOCATE EXG FUEL TANKS AND PUMPS

VEHICLE PARKING AREA
NEW FENCING

EXTERIOR WASH BAY

SHOP BUILDING
SEE SHEET A101 FOR FLOOR PLAN

35' W CANTILEVER GATE

SNAIL, SEE CIVIL DRAWINGS

CONC EDGING

OIL/WATER SEPARATOR, SEE CIVIL DRAWINGS

UNDERGROUND WATER STORAGE TANK, SEE CIVIL DRAWINGS

ASPHALT PAVING

RECYCLING YARD

RECYCLING BUILDING
SEE SHEET A103

LANDSCAPING, SEE SHEET L101

SCALE HOUSE
SEE SHEET A102

NEW VEHICLE SCALE

INSTALL SALVAGED TRAFFIC LIGHT ON NEW POLE, TYP, SEE ELEC

POLE LIGHT, TYP., SEE ELEC

ASPHALT WALKWAY

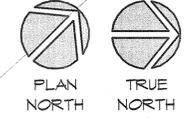
GATE

TRAFFIC WARNING MARKERS

INSTALL SALVAGED VEHICLE SCALE

STEEL RAIL

BOLLARD



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

NO.	DATE	BY

REVISIONS

ZB|a|

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ENLARGED SITE PLAN

GRANT COUNTY LANDFILL COMPLEX

EPHRATA, WASHINGTON

GRANT COUNTY PUBLIC WORKS DEPARTMENT

6829 REGISTERED ARCHITECT

WILLIAM ARTHUR FROCKE
STATE OF WASHINGTON

PROJECT NO. 1009

DRAWN: R-JJ/SEM/B

CHECKED: WAF

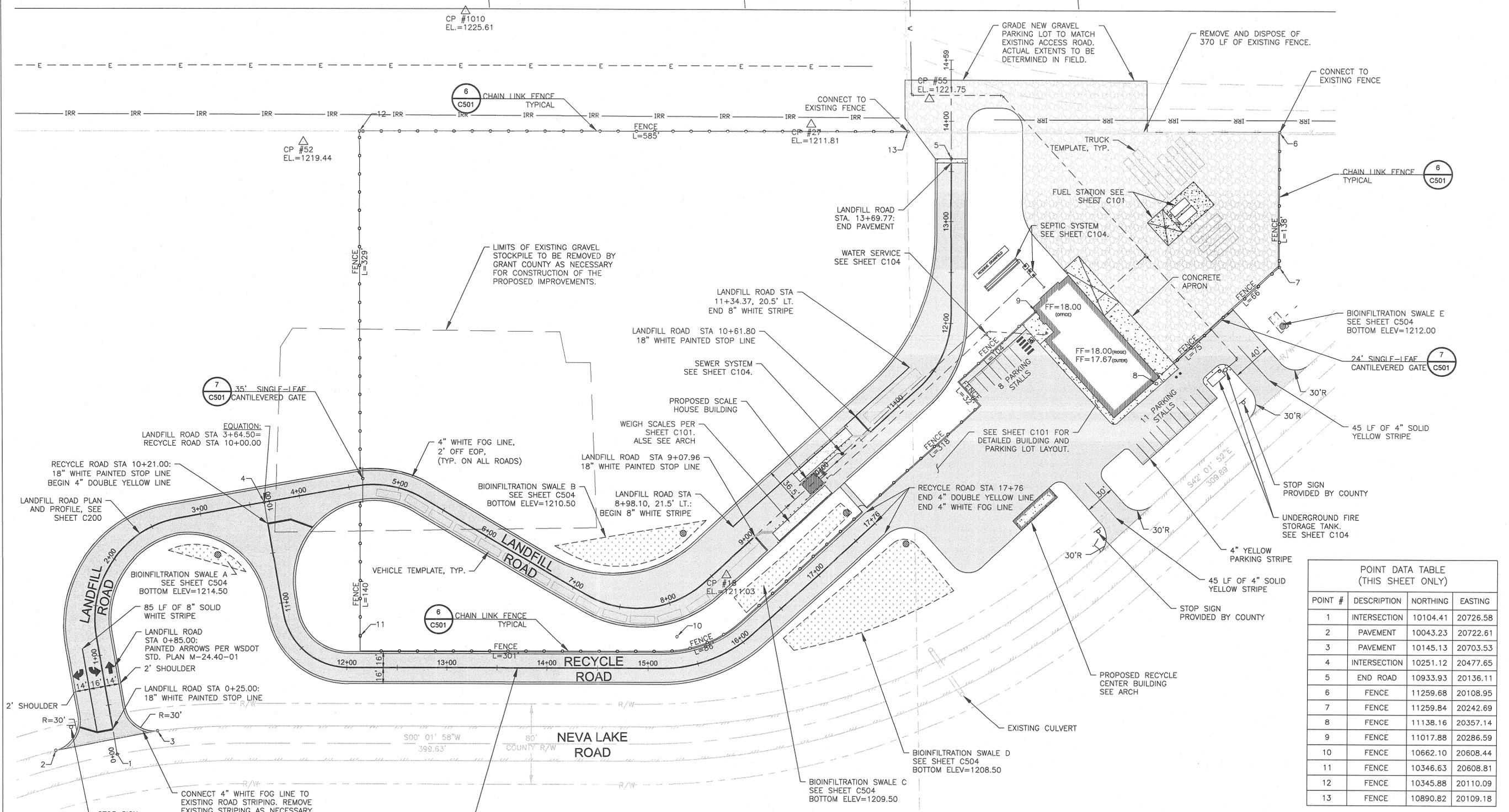
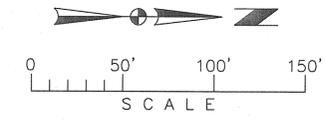
DATE: 5/16/11

DRAWING NO.

AC102

CONTROL POINT INFORMATION:

CONTROL POINT	18	N.	10711.05	E.	20547.54	Z.	1211.03
CONTROL POINT	27	N.	10794.69	E.	20102.38	Z.	1221.81
CONTROL POINT	52	N.	10290.23	E.	20120.98	Z.	1219.44
CONTROL POINT	55	N.	10912.21	E.	20077.18	Z.	1221.75
CONTROL POINT	1010	N.	10451.47	E.	19992.73	Z.	1225.61



NOTE:
ALL LISTED SPOT ELEVATIONS REFERENCE A BASE ELEVATION OF 1200 FEET UNLESS NOTED OTHERWISE.

UTILITY LOCATE

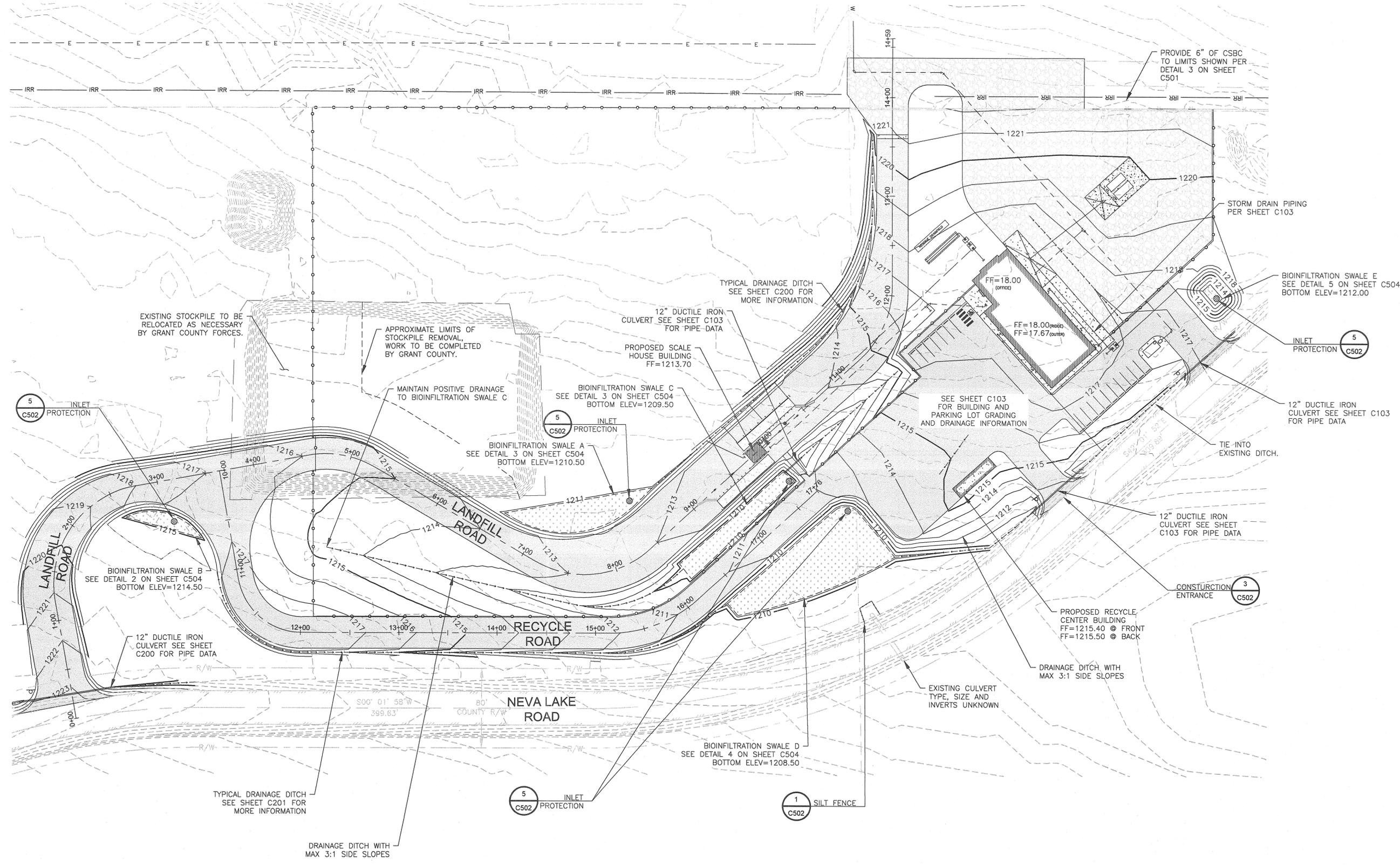
THE LOCATION OF UNDERGROUND UTILITIES REPRESENTED ON THIS DRAWING HAVE BEEN DETERMINED FROM A FIELD SURVEY. THE NUMBER AND LOCATIONS OF ALL UNDERGROUND UTILITIES SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL MAKE HIS OWN INVESTIGATION TO DETERMINE THE EXACT INFORMATION NECESSARY TO PROTECT OR ACCESS ALL UNDERGROUND UTILITIES.

POINT DATA TABLE (THIS SHEET ONLY)

POINT #	DESCRIPTION	NORTHING	EASTING
1	INTERSECTION	10104.41	20726.58
2	PAVEMENT	10043.23	20722.61
3	PAVEMENT	10145.13	20703.53
4	INTERSECTION	10251.12	20477.65
5	END ROAD	10933.93	20136.11
6	FENCE	11259.68	20108.95
7	FENCE	11259.84	20242.69
8	FENCE	11138.16	20357.14
9	FENCE	11017.88	20286.59
10	FENCE	10662.10	20608.44
11	FENCE	10346.63	20608.81
12	FENCE	10345.88	20110.09
13	FENCE	10890.82	20109.18

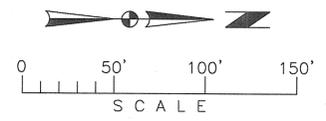
CALL BEFORE YOU DIG
811
ONE CALL NUMBER
48 HOUR NOTICE REQUIRED

NO.	DATE	BY
REVISIONS		
THOMAS, DEAN & HOSKINS, INC. ENGINEERING CONSULTANTS GREAT FALLS - BOZEMAN - KALISPELL MONTANA SPOKANE LEWISTON IDAHO		
ZECK BUTLER ARCHITECTS PS 		
421 W Riverside, Suite 860, Spokane, WA 99201 t 509.456.8238 f 509.47.0570 www.zeckbutler.com		
HORIZONTAL CONTROL & SITE PLAN PROJECT TITLE GRANT COUNTY LANDFILL COMPLEX EPHRATA, WASHINGTON GRANT COUNTY PUBLIC WORKS DEPARTMENT		
SEAL 		
PROJECT NO.		
DRAWN:	ATJ	
CHECKED:	GRG	
DATE:	05-16-11	
DRAWING NO.		
C100		



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UTILITY LOCATE
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REVISIONS		



THOMAS, DEAN & HOSKINS, INC.
 ENGINEERING CONSULTANTS
 GREAT FALLS—BOZEMAN—KALISPELL
 SPOKANE—LEWISTON
 WASHINGTON IDAHO

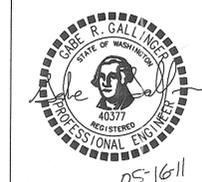
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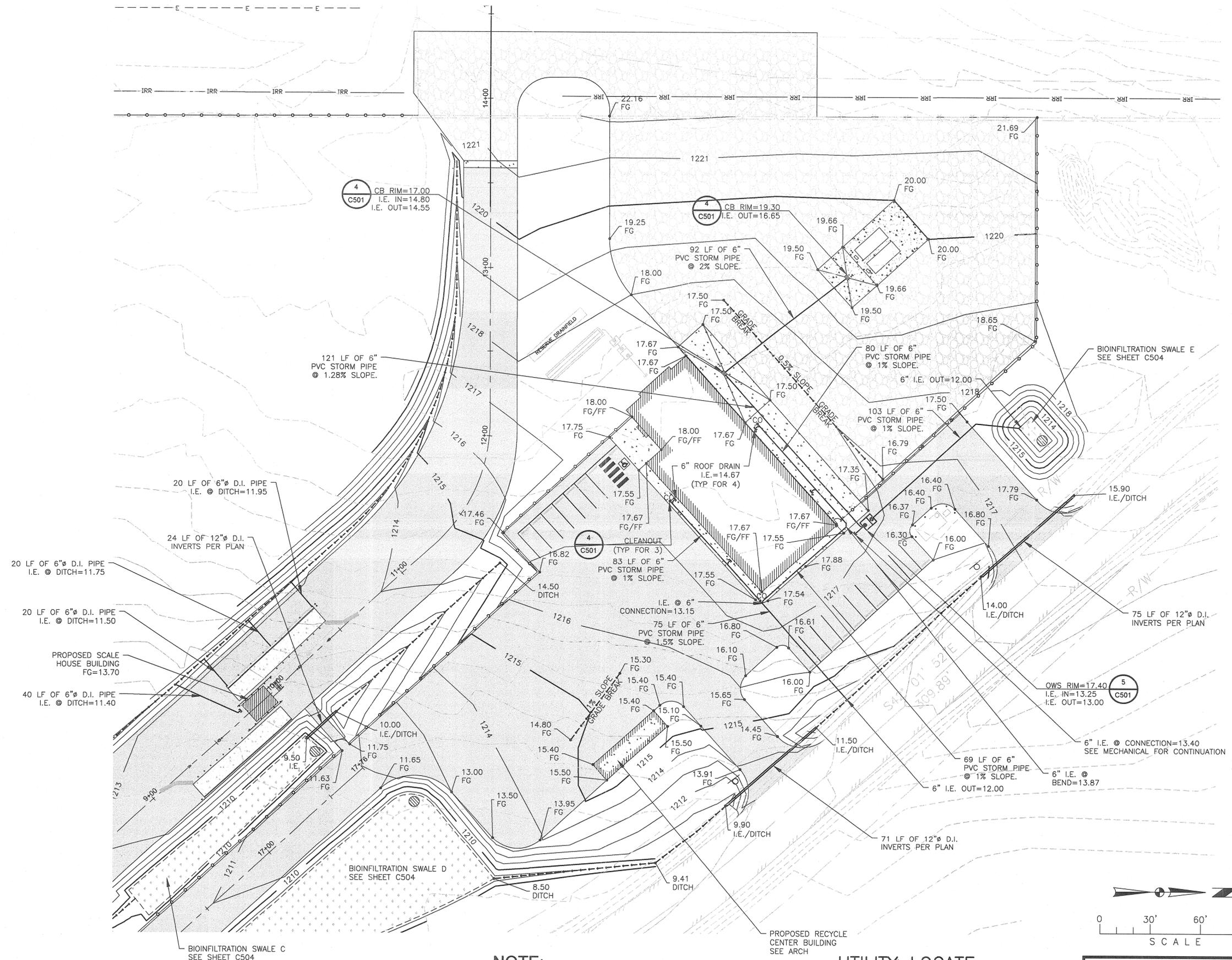
OVERALL GRADING PLAN

GRANT COUNTY LANDFILL COMPLEX
 EPHRATA, WASHINGTON
 GRANT COUNTY PUBLIC WORKS DEPARTMENT



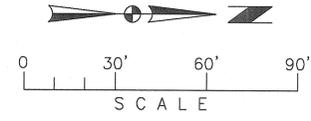
PROJECT NO.
 DRAWN: ATJ
 CHECKED: GRG
 DATE: 05-16-11
 DRAWING NO.

C102



NOTE:
 ALL LISTED SPOT ELEVATIONS REFERENCE A BASE ELEVATION OF 1200 FEET UNLESS NOTED OTHERWISE.

UTILITY LOCATE
 THE LOCATION OF UNDERGROUND UTILITIES REPRESENTED ON THIS DRAWING HAVE BEEN DETERMINED FROM A FIELD SURVEY. THE NUMBER AND LOCATIONS OF ALL UNDERGROUND UTILITIES SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL MAKE HIS OWN INVESTIGATION TO DETERMINE THE EXACT INFORMATION NECESSARY TO PROTECT OR ACCESS ALL UNDERGROUND UTILITIES.



CALL BEFORE YOU DIG
811
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 48 HOUR NOTICE REQUIRED

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THOMAS, DEAN & HOSKINS, INC.
 ENGINEERING CONSULTANTS
 MONTANA
 GREAT FALLS - BOZEMAN - KALISPELL
 WASHINGTON
 LEWISTON
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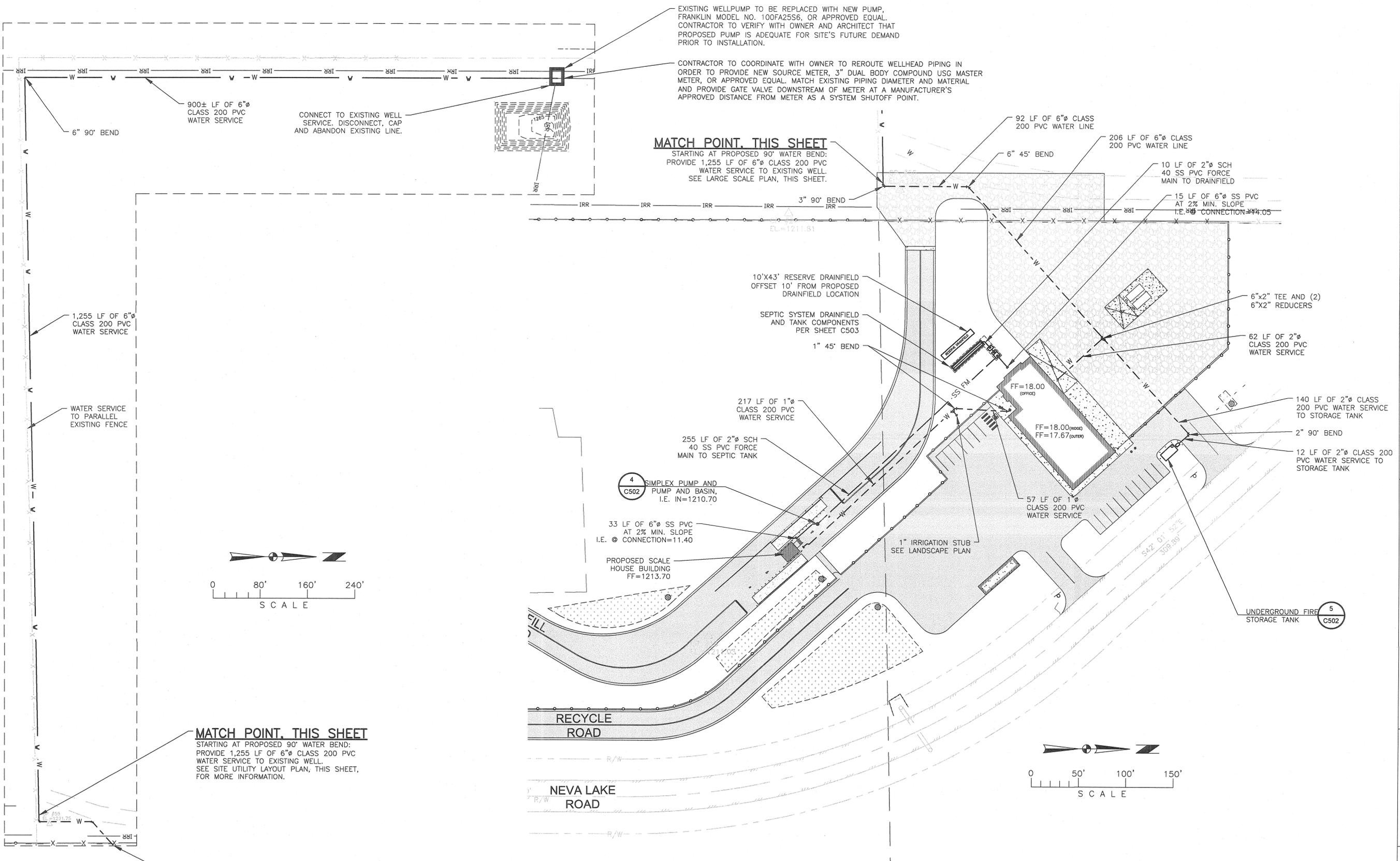
421 W Riverside Suite 880 Spokane WA 99201
 T 509-455-8226 F 509-747-0570
 www.zeckbutler.com

BUILDING GRADING/DRAINAGE PLAN
 PROJECT TITLE
GRANT COUNTY LANDFILL COMPLEX
 EPHRATA, WASHINGTON
 GRANT COUNTY PUBLIC WORKS DEPARTMENT



PROJECT NO.
 DRAWN: ATJ
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C103

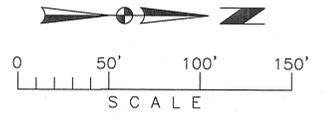
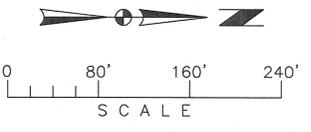


EXISTING WELLPUMP TO BE REPLACED WITH NEW PUMP, FRANKLIN MODEL NO. 100FA25S6, OR APPROVED EQUAL. CONTRACTOR TO VERIFY WITH OWNER AND ARCHITECT THAT PROPOSED PUMP IS ADEQUATE FOR SITE'S FUTURE DEMAND PRIOR TO INSTALLATION.

CONTRACTOR TO COORDINATE WITH OWNER TO REROUTE WELLHEAD PIPING IN ORDER TO PROVIDE NEW SOURCE METER, 3" DUAL BODY COMPOUND USG MASTER METER, OR APPROVED EQUAL. MATCH EXISTING PIPING DIAMETER AND MATERIAL AND PROVIDE GATE VALVE DOWNSTREAM OF METER AT A MANUFACTURER'S APPROVED DISTANCE FROM METER AS A SYSTEM SHUTOFF POINT.

MATCH POINT, THIS SHEET
STARTING AT PROPOSED 90° WATER BEND: PROVIDE 1,255 LF OF 6" CLASS 200 PVC WATER SERVICE TO EXISTING WELL. SEE LARGE SCALE PLAN, THIS SHEET.

MATCH POINT, THIS SHEET
STARTING AT PROPOSED 90° WATER BEND: PROVIDE 1,255 LF OF 6" CLASS 200 PVC WATER SERVICE TO EXISTING WELL. SEE SITE UTILITY LAYOUT PLAN, THIS SHEET, FOR MORE INFORMATION.



NOTE:
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UTILITY LOCATE
THE LOCATION OF UNDERGROUND UTILITIES REPRESENTED ON THIS DRAWING HAVE BEEN DETERMINED FROM A FIELD SURVEY. THE NUMBER AND LOCATIONS OF ALL UNDERGROUND UTILITIES SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL MAKE HIS OWN INVESTIGATION TO DETERMINE THE EXACT INFORMATION NECESSARY TO PROTECT OR ACCESS ALL UNDERGROUND UTILITIES.

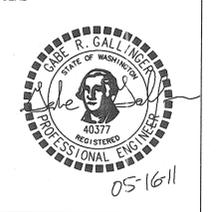
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LEWISTON, IDAHO

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ZECK BUTLER ARCHITECTS P.S.
421 W Riverside, Suite 800, Spokane, WA 99201
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UTILITY PLAN
GRANT COUNTY LANDFILL COMPLEX
EPHRATA, WASHINGTON
GRANT COUNTY PUBLIC WORKS DEPARTMENT



PROJECT NO.	
DRAWN:	ATJ
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DATE:	05-16-11
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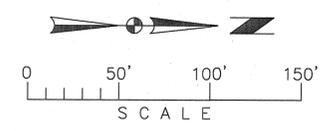
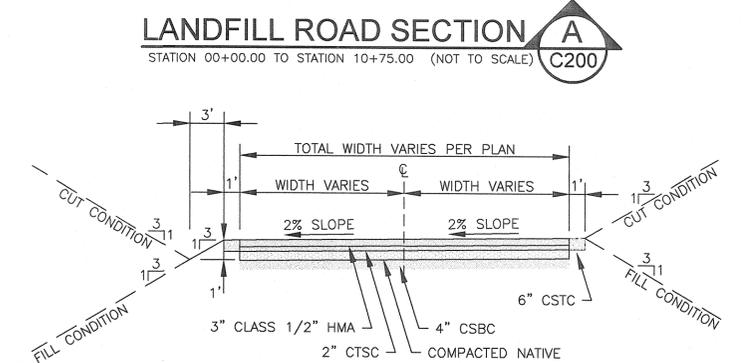
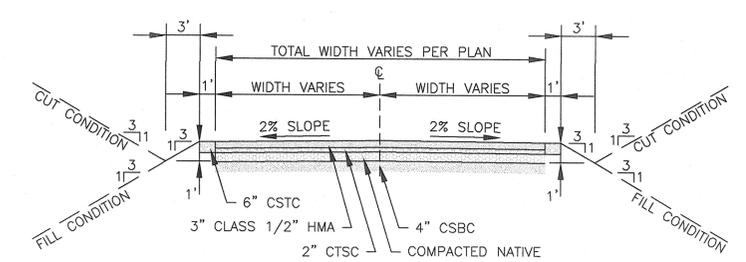
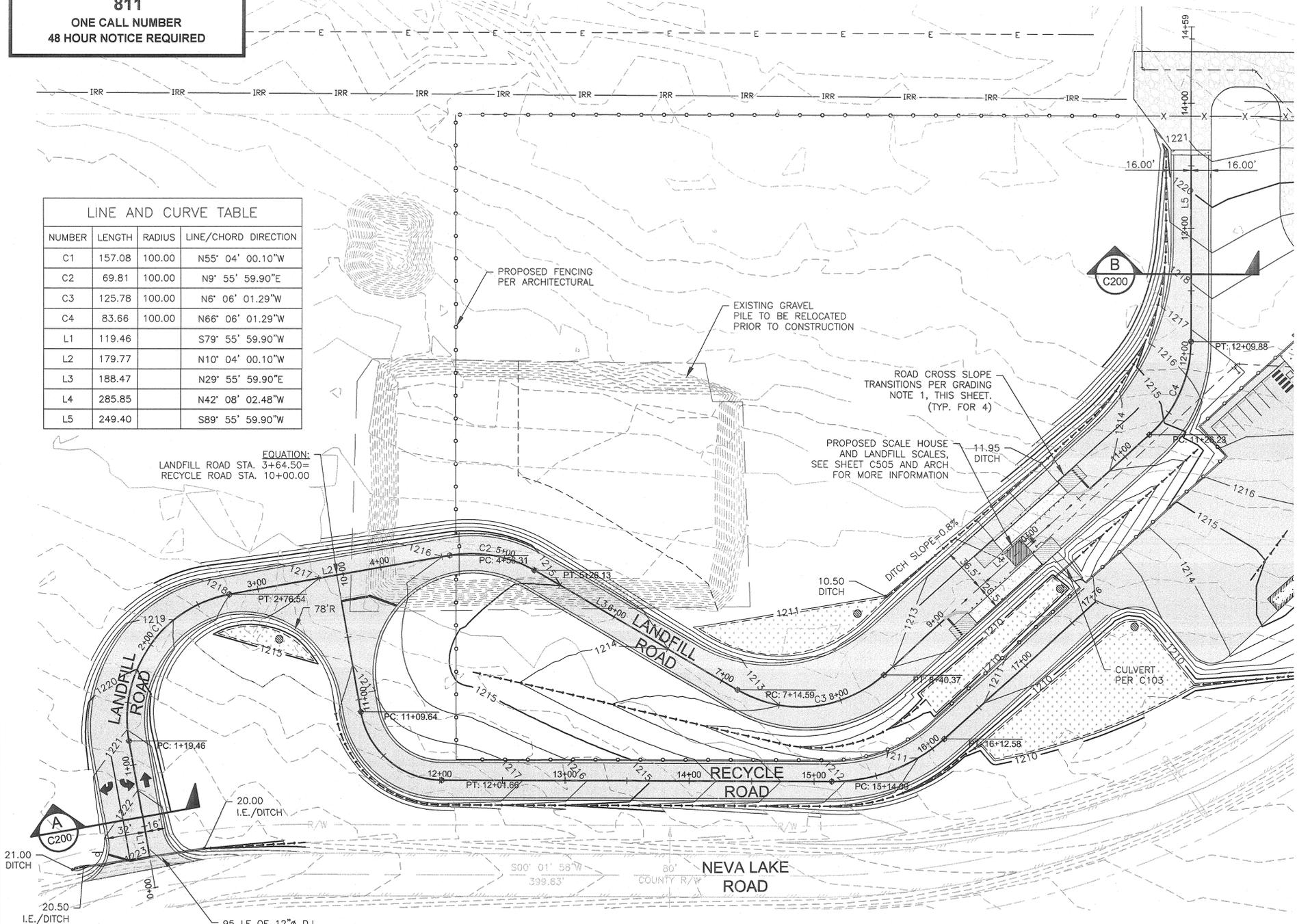
C104

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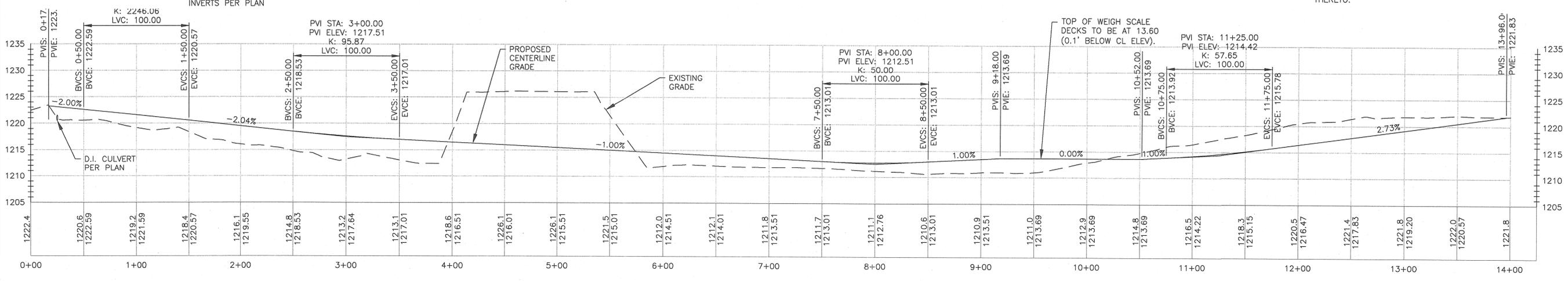
GRADING NOTES:

- CONTRACTOR SHALL PROVIDE 20' TRANSITION OF LANDFILL ROAD CROSS SLOPE FROM 2% TO 0% ON THE APPROACHES INTO AND OUT OF THE PROPOSED SCALE LOCATIONS. TRANSITION ONLY TO OCCUR OVER THE WIDTH OF THE SCALE FOUNDATION.
- CONTRACTOR SHALL COORDINATE PAVING WITH SCALE PROVIDER/INSTALLER TO ENSURE PROPER PLACEMENT OF PAVEMENT AND SCALE FOUNDATIONS.
- CONTRACTOR SHALL PROVIDE 50' TRANSITION BETWEEN ROAD PLAN SECTIONS WHERE 2% CROSS SLOPE CHANGES TO 2% SUPERELEVATION. SEE ROAD SECTIONS A AND B BELOW.

LINE AND CURVE TABLE			
NUMBER	LENGTH	RADIUS	LINE/CHORD DIRECTION
C1	157.08	100.00	N55° 04' 00.10"W
C2	69.81	100.00	N9° 55' 59.90"E
C3	125.78	100.00	N6° 06' 01.29"W
C4	83.66	100.00	N66° 06' 01.29"W
L1	119.46		S79° 55' 59.90"W
L2	179.77		N10° 04' 00.10"W
L3	188.47		N29° 55' 59.90"E
L4	285.85		N42° 08' 02.48"W
L5	249.40		S89° 55' 59.90"W



NOTE:
 CONSTRUCTION SHALL COMPLY WITH GRANT COUNTY ROAD STANDARDS AND GRANT COUNTY DEVELOPMENT CODE. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT EDITION OF THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION AND AMENDMENTS THERETO.



NO.	DATE	BY
REVISIONS		

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 ENGINEERING CONSULTANTS
 GREAT FALLS - BOZEMAN - KALISPELL
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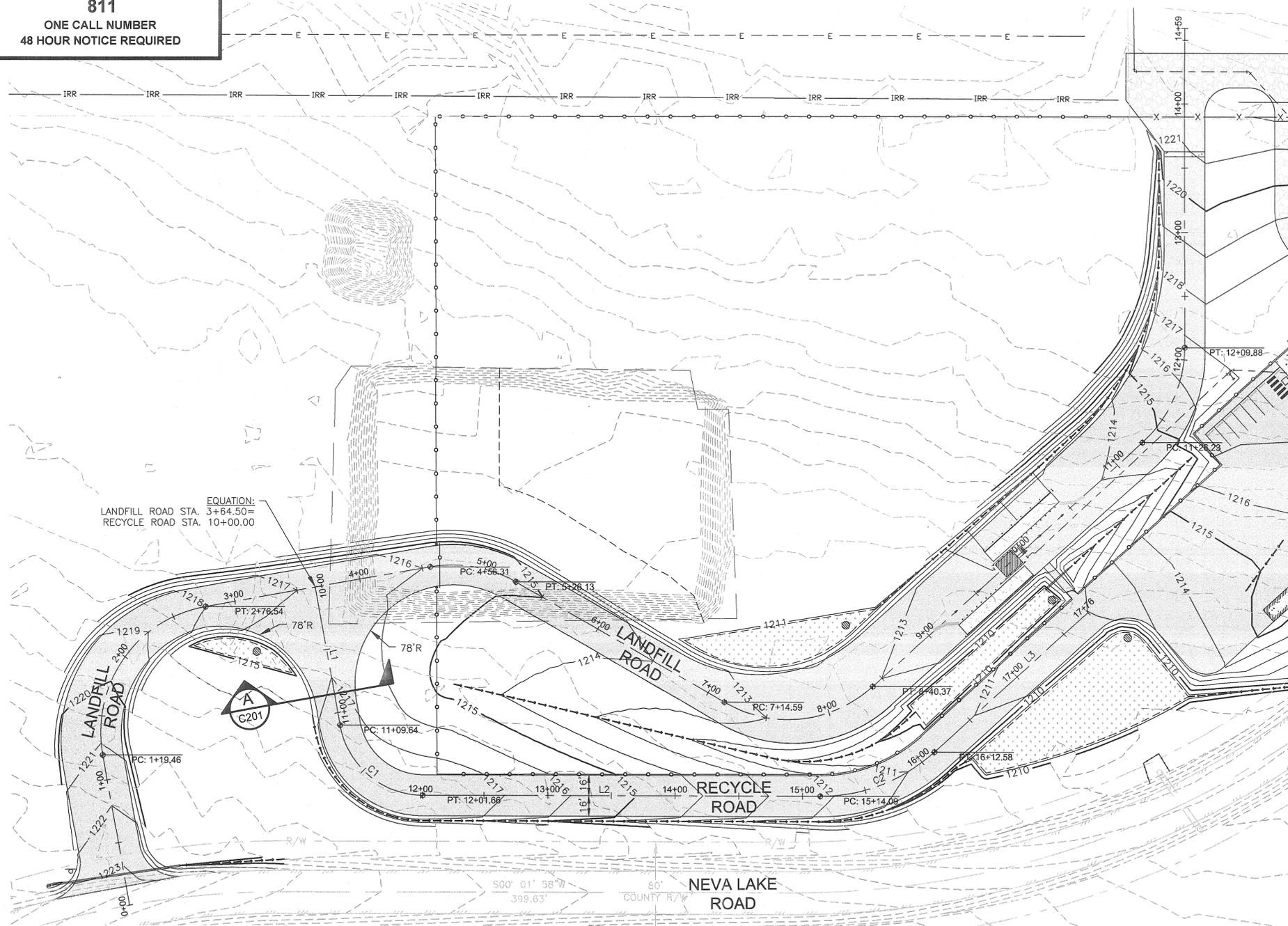
 421 W Riverside, Suite 886, Spokane WA 99201
 T 509.466.8236 F 509.747.0670
 www.zeckbutler.com

LANDFILL ROAD PLAN & PROFILE
 PROJECT TITLE
GRANT COUNTY LANDFILL COMPLEX
 EPHRATA, WASHINGTON
 GRANT COUNTY PUBLIC WORKS DEPARTMENT

PROJECT NO.
 DRAWN: ATJ
 CHECKED: GRG
 DATE: 05-16-11
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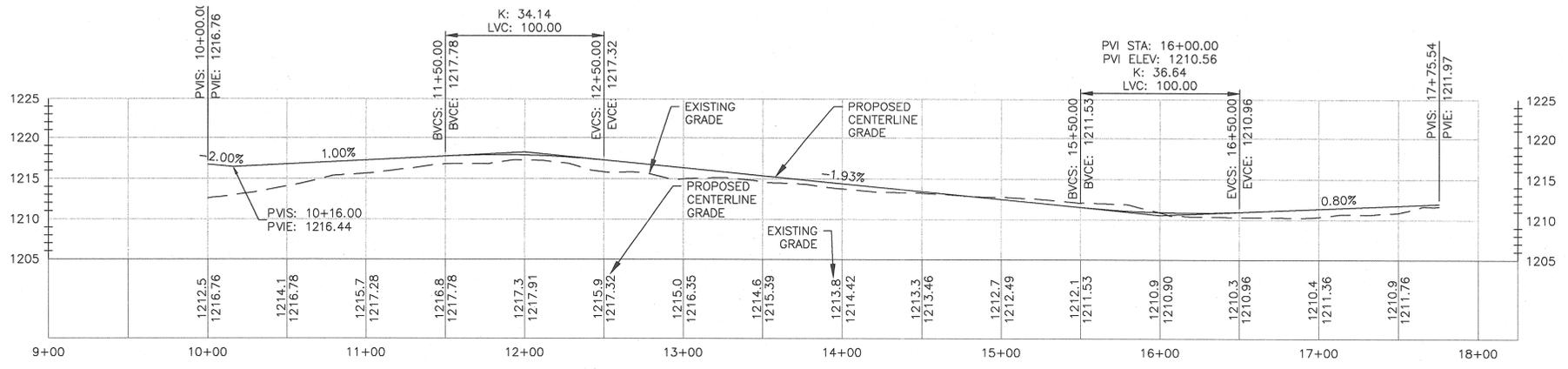
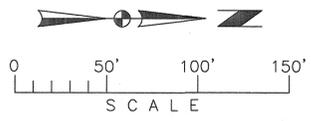
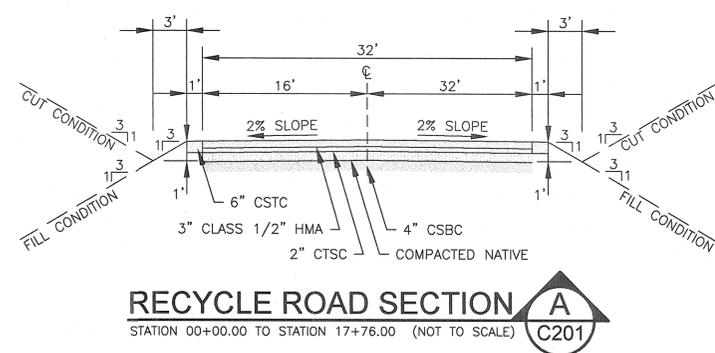
C200

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LINE AND CURVE TABLE

Number	Length	Radius	Line/Chord Direction
C1	92.026	66.00	N39° 58' 40.15"E
C2	98.481	134.00	N21° 01' 16.62"W
L1	109.64		N79° 55' 18.07"E
L2	312.43		N0° 01' 58.47"E
L3	162.97		N42° 04' 31.71"W



NO.	DATE	BY
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RECYCLE ROAD PLAN & PROFILE

GRANT COUNTY LANDFILL COMPLEX
 EPHRATA, WASHINGTON
 GRANT COUNTY PUBLIC WORKS DEPARTMENT

SHEET TITLE

SEAL



PROJECT NO.
 DRAWN: ATJ
 CHECKED: GRG
 DATE: 05-16-11
 DRAWING NO.

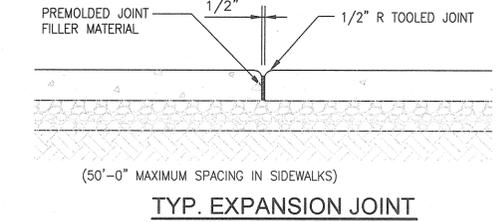
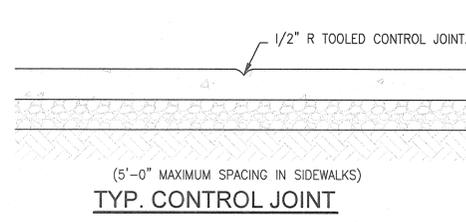
C201

LEGEND

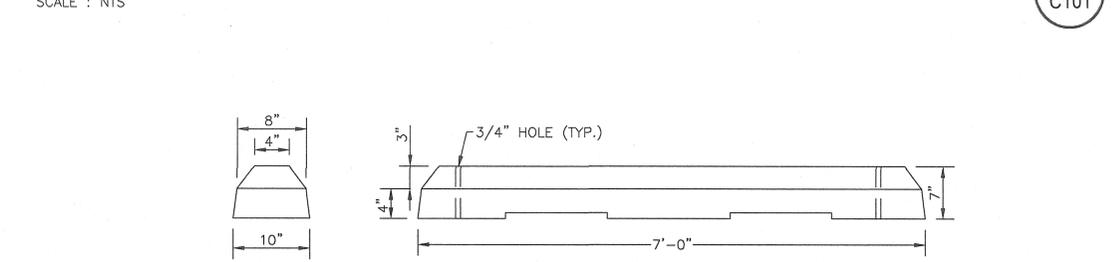
NEW	EXISTING	DESCRIPTION
		ASPHALT CONCRETE PAVEMENT
		BOLLARD/BARRIER POST
		BUILDING
		CLEANOUT
		CONCRETE
		CONTOUR LINE
		CONTROL POINT
		CURB
		DITCH
		DOWNSPOUT
		DRAINAGE SWALE
		EDGE OF ASPHALT
		EDGE OF GRAVEL
		ELECTRICAL JUNCTION BOX
		ELECTRICAL TRANSFORMER
		FENCE-CHAIN LINK
		FENCE-WIRE
		FILTER FABRIC FENCE
		FIRE HYDRANT
		FITTINGS WITH THRUST BLOCKS
		FOUNDATION DRAIN LINE
		GAS LINE
		GAS METER
		GATE
		GRAVEL
		GUY WIRE
		INLET
		LIGHT POLE/LUMINAIRE
		MANHOLE
		OVERHEAD CABLE TV
		OVERHEAD ELECTRIC
		OVERHEAD TELEPHONE
		PAINT STRIPE
		PROPERTY LINE
		RETAINING WALL
		RIGHT OF WAY
		SANITARY SEWER LINE
		SIGN
		SLOPE INDICATORS
		STORM DRAIN LINE
		STUBBED & PLUGGED LINE
		SURFACE ELEVATIONS
		UNDERGROUND ELECTRIC
		UNDERGROUND TELEPHONE
		UTILITY POLE
		VALVE
		WATER LINE
		WHEEL STOP

ABBREVIATIONS

ACP	ASPHALT CONCRETE PAVEMENT	IRR	IRRIGATION WATER
ARCH	ARCHITECT(URAL)	L	LENGTH
BLDG	BUILDING	LF	LINEAR FEET
BOW	BOTTOM OF WALL (AT FINISHED GRADE)	MECH	MECHANICAL
BVCE	BEGIN VERTICAL CURVE ELEVATION	MFR	MANUFACTURER
BVCS	BEGIN VERTICAL CURVE STATION	MH	MANHOLE
CB	CATCH BASIN	MISC.	MISCELLANEOUS
CF	CUBIC FEET (FOOT)	MJ	MECHANICAL JOINT
CI	CAST IRON	N	NORTH(ING)
CJ	CONSTRUCTION JOINT	NO (#)	NUMBER
CL	CLASS	OC	ON CENTER
CMP	CORRUGATED METAL PIPE	PC	POINT OF CURVATURE
CO	CLEANOUT	PIV	POST INDICATOR VALVE
CONC.	CONCRETE	P	POWER
CTR	CENTER(ED)	PP	POWER POLE
CTV	CABLE TV	PT	POINT OF TANGENCY
CY	CUBIC YARD	PVC	POLYVINYL CHLORIDE
DET	DETAIL	PVIE	POINT OF VERTICAL INTERSECTION ELEVATION
DI	DUCTILE IRON	PVIS	POINT OF VERTICAL INTERSECTION STATION
DIA (Ø)	DIAMETER	QTY	QUANTITY
DCVA	DOUBLE CHECK VALVE ASSEMBLY	RAD (R)	RADIUS
DDCV	DOUBLE DETECTOR CHECK VALVE	REF	REFERENCE
DS	DOWN SPOUT	REQ	REQUIRED
DWG	DRAWING	RIM	ELEVATION OF GRATE
E	EAST(ING)	ROW	RIGHT OF WAY
EC	ELECTRICAL CONDUIT	S	SLOPE
EL	ELEVATION	S.F.	SQUARE FEET
ELEC	ELECTRICAL	SHT	SHEET
EOP	EDGE OF PAVEMENT	SD	STORM DRAIN
EX	EXISTING	SS	SANITARY SEWER
EVCE	END VERTICAL CURVE ELEVATION	STA	STATION
EVCS	END VERTICAL CURVE STATION	STD	STANDARD
FD	FOUNDATION DRAIN	SW	SIDEWALK
FDC	FIRE DEPARTMENT CONNECTION	T	TEMPORARY
FFE	FINISH FLOOR ELEVATION	T.C.	TOP OF CURB
F.G.	FINISHED GRADE	TEMP.	TEMPORARY
FH	FIRE HYDRANT	TOE	TOE OF WALL, OR SLOPE
FT (')	FOOT (FEET)	TOW	TOP OF WALL
FTG	FOOTING	TV	TELEVISION WIRE
G	GAS MAIN	TYP.	TYPICAL
GM	GAS METER	VC	VERTICAL CURVE
HYD	HYDRANT	W	WATER
I.E.	INVERT ELEVATION	WM	WATER METER
IN (")	INCH(ES)		



TYPICAL SIDEWALK DETAIL



NOTES

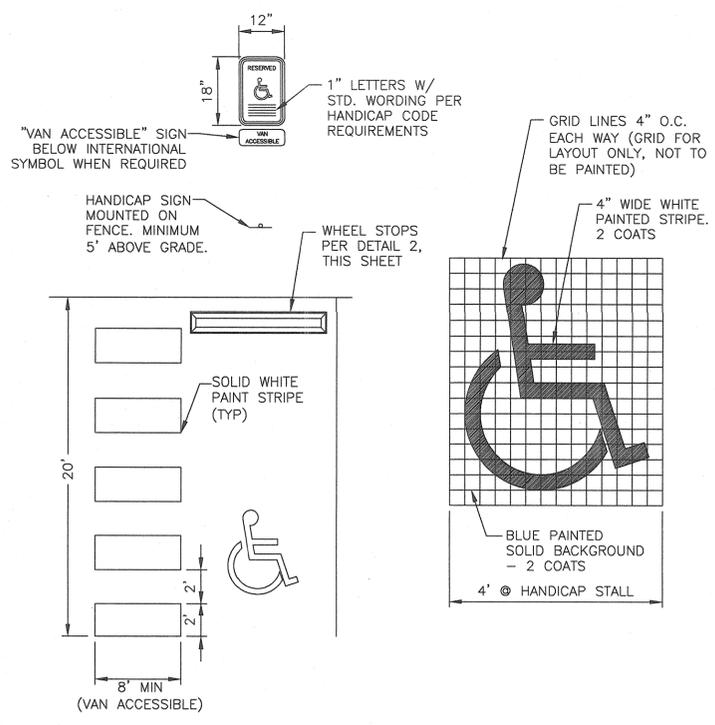
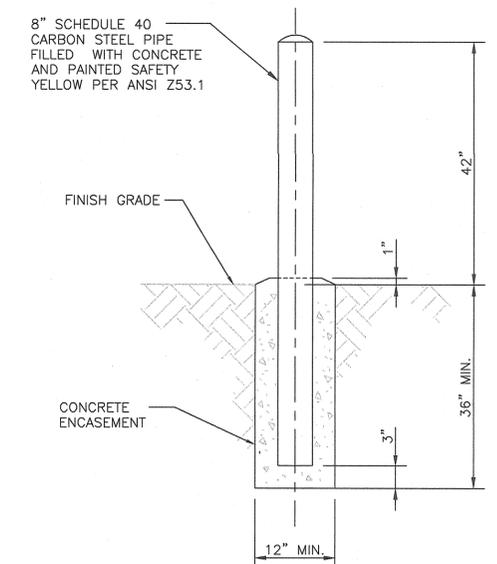
- SET IN PLACE WITH 5/8" x 24" STEEL PIN. GROUT SPACE AROUND PIN.
- REINFORCE WITH 4-#4 LONGITUDINAL BARS AND WRAP WITH W1.5 OR LARGER WIRE AT 4 1/2" PITCH. TIE W1.5 OR LARGER WIRE TO EVERY REINFORCING BAR AT 2'-0" CENTERS.

PRECAST CONCRETE CURB STOP



STRIPING NOTES:

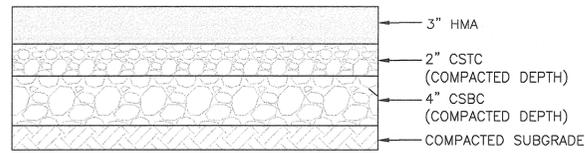
- THE CENTER LINE OF THE DOUBLE STRIPE IS SHOWN ON PLAN UNLESS NOTED OTHERWISE.
- ALL STRIPES ARE 4" WIDE. DIMENSIONS ARE TO CENTER LINES OF STRIPES, EXCEPT FOR ACCESSIBLE SPACES WHERE DIMENSIONS ARE TO INSIDE FACES OF STRIPES COLOR IS TO BE TRAFFIC YELLOW.
- BLOCKED OUT AREAS ARE TO BE DIAGONALLY STRIPED WITH 4" WIDE STRIPES AT 2'-0" O.C. ON A 45 DEGREE ANGLE WHERE SHOWN ON PLANS AND DETAILS.
- PARKING SPACE STRIPING DIMENSIONS INDICATED ARE NOMINAL DIMENSIONS. TOLERANCES ARE AS FOLLOWS:
A. PARKING SPACE LENGTH = INDICATED LENGTH ± 2".
B. PARKING SPACE WIDTH = INDICATED WIDTH ± 1".
C. BASE LINE LENGTH = INDICATED LENGTH ± 1".
D. STRIPE WIDTH = 4" ± 1/4".
E. TOTAL OVERALL STRIPING BASELINE DIMENSIONS = INDICATED LENGTH ± 2" PER RUN.
- PARKING SPACE DIMENSIONS INDICATED ARE FROM THE EDGE OF PAVEMENT, UNLESS OTHERWISE INDICATED OR NOTED.
- KEY TO STRIPING ABBREVIATIONS:



3
C101

4
C101

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ZECK BUTLER ARCHITECTS PS 401 W. Riverside, Suite 800, Spokane, WA 99201 T 509.485.8228 F 509.747.0570 www.zackbutler.com		
DETAILS GRANT COUNTY LANDFILL COMPLEX EPHRATA, WASHINGTON GRANT COUNTY PUBLIC WORKS DEPARTMENT		
PROJECT TITLE		
SHEET TITLE		
SEAL		
PROJECT NO.		
DRAWN: ATJ		
CHECKED: GRG		
DATE: 05-16-11		
DRAWING NO.		
C500		

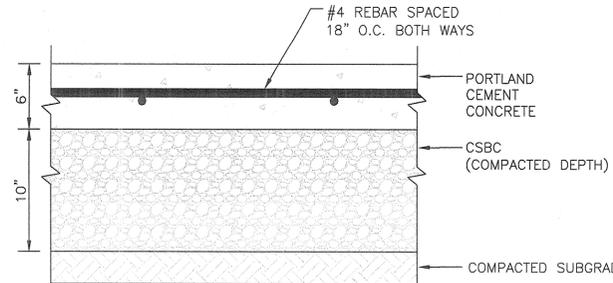


NOTE: CONSTRUCTION SHALL COMPLY WITH GRANT COUNTY ROAD STANDARDS AND GRANT COUNTY DEVELOPMENT CODE. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT EDITION OF THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION AND AMENDMENTS THERETO.

PARKING LOT & ROAD ACP SECTION

SCALE : NTS

1
C101



CONCRETE PAVEMENT SECTION

SCALE : NTS

2
C101



GRAVEL PARKING LOT SECTION

SCALE : NTS

3
C101

PIPE ALLOWANCES	
PIPE MATERIAL	MAXIMUM INSIDE DIAMETER
REINFORCED OR PLAIN CONCRETE	12"
ALL METAL PIPE	15"
CPSSP # (STD. SPEC. 9-05.20)	12"
SOLID WALL PVC (STD. SPEC. 9-05.12(1))	15"
PROFILE WALL PVC (STD. SPEC. 9-05.12(2))	15"

* CORRUGATED POLYETHYLENE STORM SEWER PIPE

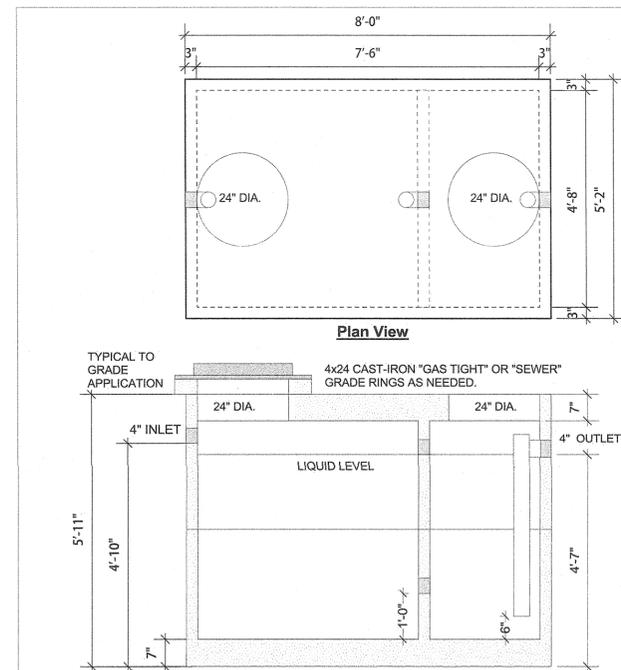
NOTES:
 1. As acceptable alternatives to the rebar shown in the PRECAST BASE SECTION, fibers (placed according to the Standard Specifications), or wire mesh having a minimum area of 0.12 square inches per foot shall be used with the minimum required rebar shown in the ALTERNATIVE PRECAST BASE SECTION. Wire mesh shall not be placed in the knockouts.
 2. The knockout diameter shall not be greater than 20". Knockouts shall have a wall thickness of 2" minimum to 2.5" maximum. Provide a 1.5" minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification 9-04.3.
 3. The maximum depth from the finished grade to the lowest pipe invert shall be 5".
 4. The frame and grate may be installed with the flange up or down. The frame may be cast into the adjustment section.
 5. The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1:24 or steeper.
 6. The opening shall be measured at the top of the precast base section.
 7. All pickup holes shall be grouted full after the basin has been placed.

REGISTERED PROFESSIONAL ENGINEER
 HAROLD J. PETERFARO
 LICENSE NO. 10000
 WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

WSDOT CATCH BASIN TYPE 1 DETAIL

SCALE : NTS

4
C103



TANK TO BE AS SHOWN IN PLANS OR AN EQUIVALENT PRODUCT AS APPROVED BY ENGINEER.

SECTION VIEW

Scale: 1/2" = 1'-0"

ALL TANKS MUST BE BACKFILLED & COMPACTED PRIOR TO FILLING OR WARRANTY IS VOID
INITIALS _____

Reinforcing:
 #4 Bars @ 12" O.C. Lengthwise in Top
 #5 Bars @ 9" O.C. Widthwise in Top
 6x6 10 Ga. Wire Mesh in Sides & Bottom

PRODUCT NAME
**1000 GALLON OIL/WATER SEPARATOR
 HEAVY LOAD OPTION**

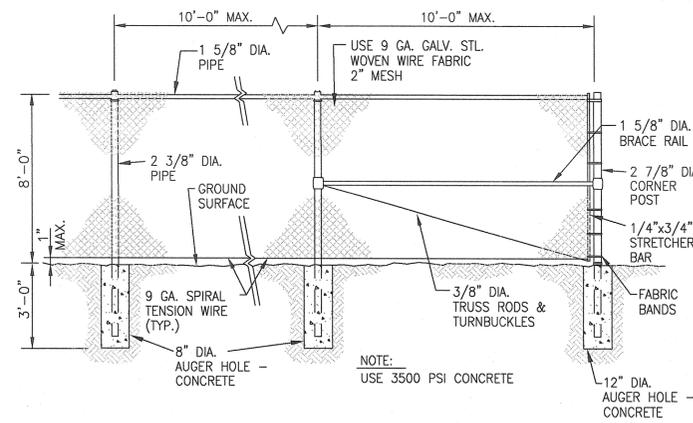
PRODUCT NUMBER
1627 O/W - 1653

Wilbert PRECAST, INC.
 2215 E Brooklyn, Spokane, WA 99217
 Ph: (509) 325-4573 Fax: (509) 325-5098
 Toll Free: 1-800-888-4573
 SPOKANE LEWISTON YAKIMA
 www.wilbertprecast.com

1,000 GAL. O/W SEPARATOR

SCALE : NTS

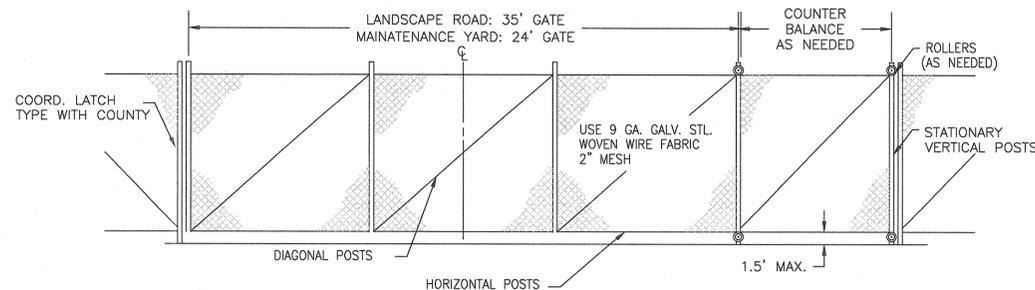
5
C103



CHAIN LINK FENCE DETAIL

SCALE : NTS

6
C100

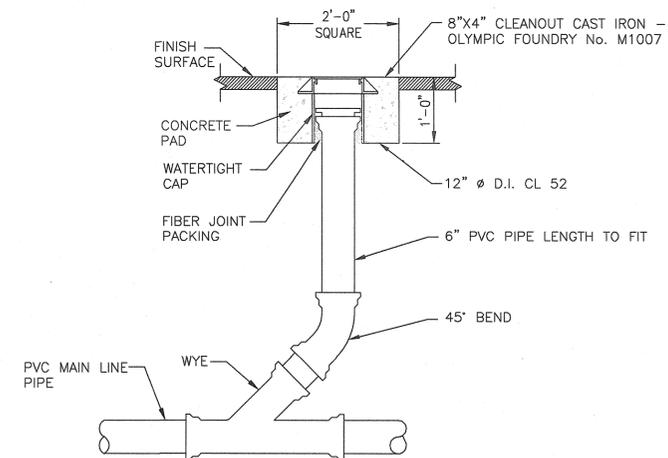


NOTE:
 CONTRACTOR SHALL SUBMIT GATE/FENCE SHOP DRAWINGS DETAILING POSTS, POST FOUNDATIONS, BRACING, ROLLERS, COUNTER BALANCES, LATCH TYPE AND ANY OTHER MATERIALS FOR OWNER/ARCHITECT APPROVAL PRIOR TO CONSTRUCTION.

SINGLE-LEAF CANTILEVERED GATE DETAIL

SCALE : NTS

7
C100



TYPICAL CLEANOUT

SCALE : NTS

8
C103

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DETAILS

PROJECT TITLE
GRANT COUNTY LANDFILL COMPLEX
 EPHRATA, WASHINGTON
 GRANT COUNTY PUBLIC WORKS DEPARTMENT

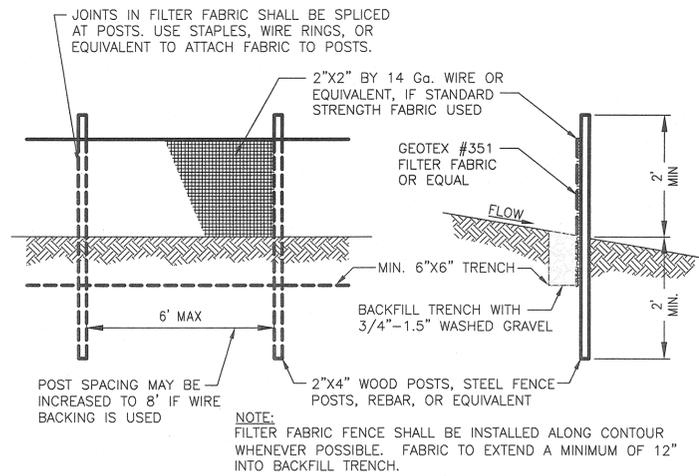
SHEET TITLE

SEAL



PROJECT NO.
 DRAWN: ATJ
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C501



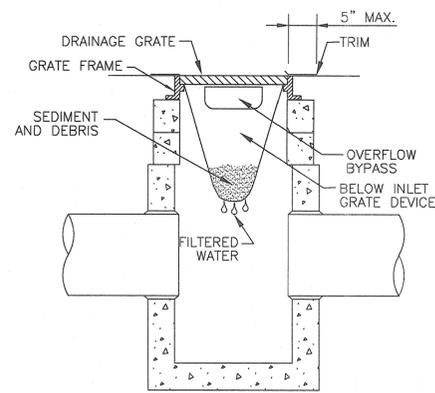
MAINTENANCE STANDARDS

1. ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY.
2. IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT TRAP OR POND.
3. IT IS IMPORTANT TO CHECK THE UPHILL SIDE OF THE FENCE FOR SIGN OF THE FENCE CLOGGING AND ACTING AS A BARRIER TO FLOW AND THEN CAUSING CHANNELIZATION OF FLOWS PARALLEL TO THE FENCE. IF THIS OCCURS, REPLACE THE FENCE AND/OR REMOVE THE TRAPPED SEDIMENT.
4. SEDIMENT MUST BE REMOVED WHEN THE SEDIMENT IS 6" HIGH.
5. IF THE FILTER FABRIC HAS DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN, IT SHALL BE REPLACED.

FILTER FABRIC FENCE DETAIL

SCALE : NTS

1
C102



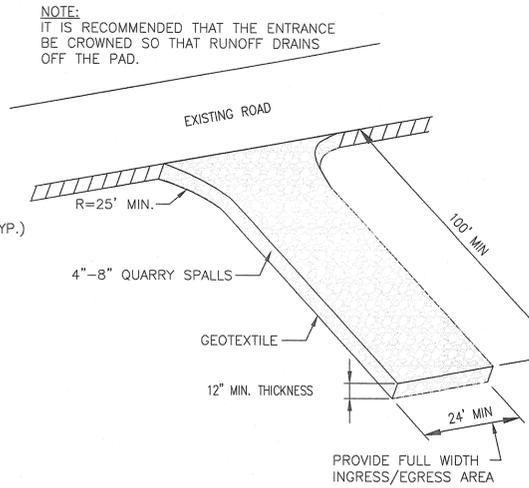
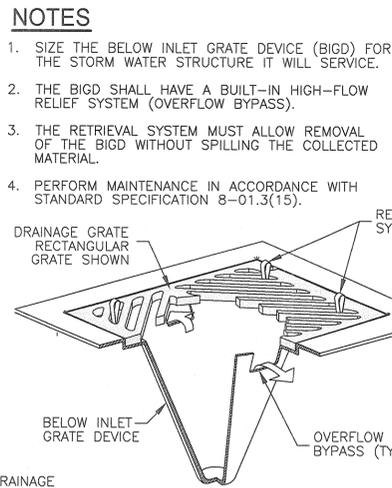
NOTE

1. WHEN BELOW GRATE INLET DEVICE IS TOO LARGE FOR DRAINAGE STRUCTURE (I.E. AREA DRAINS), STRUCTURE SHALL BE LINED WITH FILTER FABRIC TO PREVENT SEDIMENT FROM ENTERING.

STORM DRAIN INLET PROTECTION DETAIL

SCALE : NTS

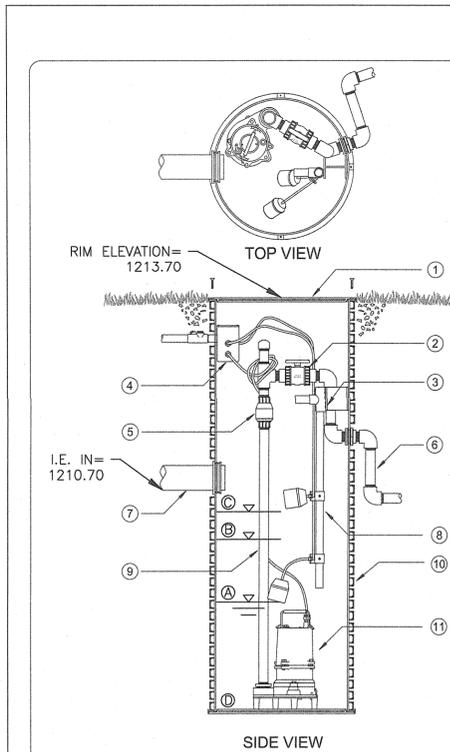
2
C102



CONSTRUCTION ENTRANCE DETAIL

SCALE : NTS

3
C102



GENERAL NOTES

- 1 FIBERGLASS LID W/ TAMPER RESISTANT STAINLESS STEEL ANCHORS, AND 2500 LB WHEEL LOAD RATING
- 2 PVC TRU-UNION BALL VALVE
- 3 FIBERGLASS PIPING SUPPORT & FLOAT TREE BRACKET
- 4 WATER-TIGHT SPLICE BOX
- 5 PVC FLAPPER OR BALL CHECK VALVE
- 6 SCH 80 PVC "SWING" JOINT
- 7 DISCHARGE LINE FROM HOME
- 8 ALARM & CONTROL SIGNAL FLOATS WITH OPTIONAL REDUNDANT OFF
- 9 1-1/4" OR 2" SCH 80 PVC PIPING AND FITTINGS
- 10 24"Ø PVC KOR-FLOW PUMP BASIN SHALL BE A MINIMUM OF 72" TALL
- 11 HYDROMATIC EFFLUENT, SEWAGE EJECTOR OR GRINDER PUMP

FEATURES & BENEFITS

CONSTRUCTED EXCLUSIVELY OF NON-CORROSIVE FITTINGS AND FASTENERS
FACTORY PRE-ASSEMBLED PROVIDING QUALITY CONSTRUCTION & EASY INSTALLATION
SERVICEABLE DESIGN RESULTING IN LOW COST OF OWNERSHIP

AFSPBA
AFS PUMP BASIN ASSEMBLY

DRAWN BY: KCV
SCALE: NTS
DATE: 06/17/09
VERSION: V1.1

AIS
CORPORATION
SPOKANE, WA
800-806-6775
208-585-8338

208-585-2153

NOTES:

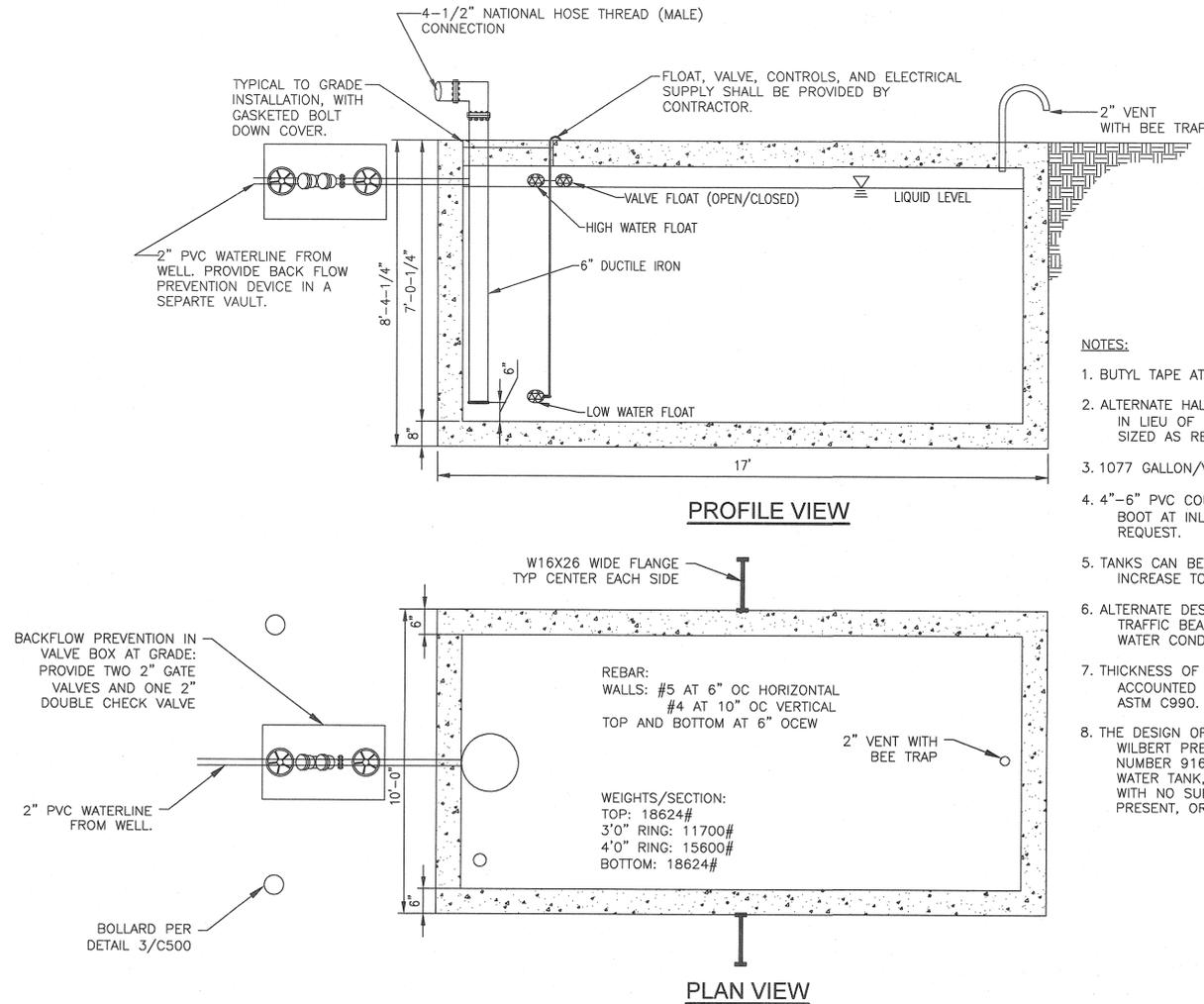
1. PUMP SHALL BE HYDROMATIC SUBMERSIBLE SEWAGE EJECTOR PUMP MODEL NUMBER SK50M1 OR APPROVED EQUIVALENT WITH 2" DISCHARGE CONNECTION.
2. PIPES AND FITTINGS SHALL BE 2"Ø SCHEDULE 80 PVC INSIDE BASIN.
3. PUMP SETTINGS:
A) PUMP OPERATING POINT: 47 GPM AT 17' TDH.
B) VOLUME=23.5 GALLONS PER DOSE
C) DESIGN FLOW DOSING FREQUENCY= TWICE EVERY THREE DAYS
D) PUMP RUN TIME=30 SECONDS

	ELEV.
A) PUMP OFF ELEVATION	1208.70
B) PUMP ON ELEVATION	1209.70
C) HIGHWATER ALARM ELEV.	1210.20
D) INTERNAL TANK BOTTOM ELEV.	1207.70

SCALE HOUSE SIMPLEX PUMP & PUMP BASIN DETAIL

SCALE : NTS

4
C104

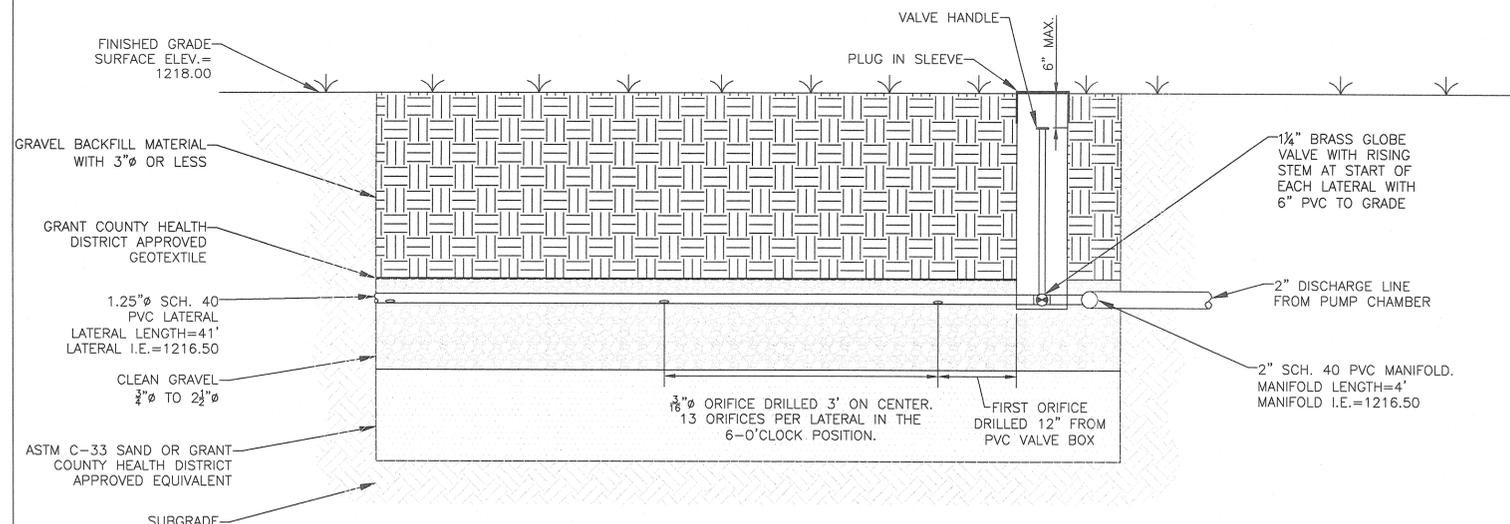


FIRE STORAGE WATER TANK DETAIL

SCALE : NTS

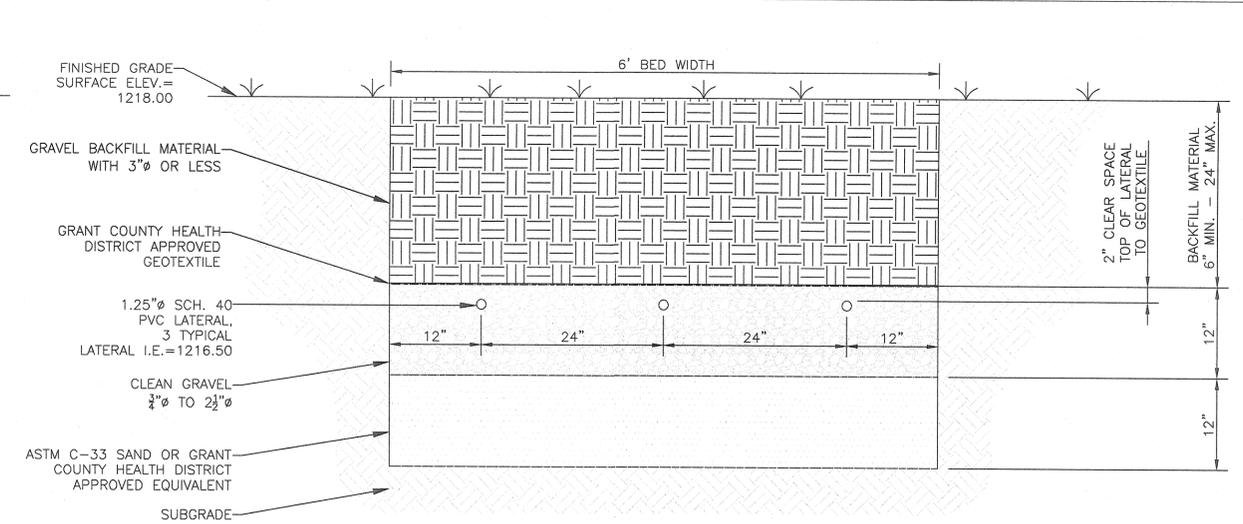
5
C104

NO.	DATE	BY
REVISIONS		
<p>TD&H</p> <p>THOMAS, DEAN & HOSKINS, INC. ENGINEERING CONSULTANTS MONTANA WASHINGTON IDAHO</p> <p>421 W Riverside, Suite 880, Spokane, WA 99201 t 509-466-8236 f 509-747-0570 www.zeckbutler.com</p>		
<p>ZB&A</p> <p>ZECK BUTLER ARCHITECTS PS</p>		
<p>DETAILS</p> <p>GRANT COUNTY LANDFILL COMPLEX EPRHATA, WASHINGTON GRANT COUNTY PUBLIC WORKS DEPARTMENT</p>		
<p>PROJECT TITLE</p> <p>SHEET TITLE</p> <p>SCALE</p> <p>05-16-11</p>		
<p>PROJECT NO.</p> <p>DRAWN: ATJ</p> <p>CHECKED: GRG</p> <p>DATE: 05-16-11</p> <p>DRAWING NO.</p>		
<p>C502</p>		



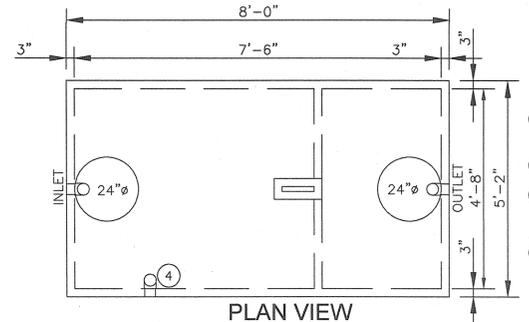
SEPTIC DRAINFIELD LATERAL & MANIFOLD CROSS SECTION DETAIL

1
C104



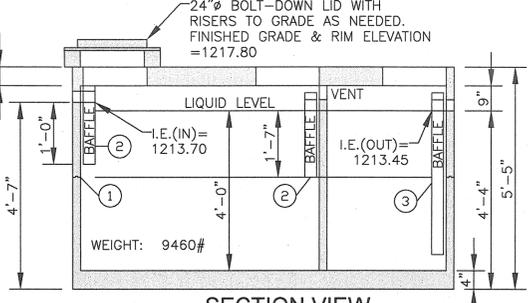
SEPTIC DRAINAGE BED CROSS SECTION DETAIL

2
C104



PLAN VIEW

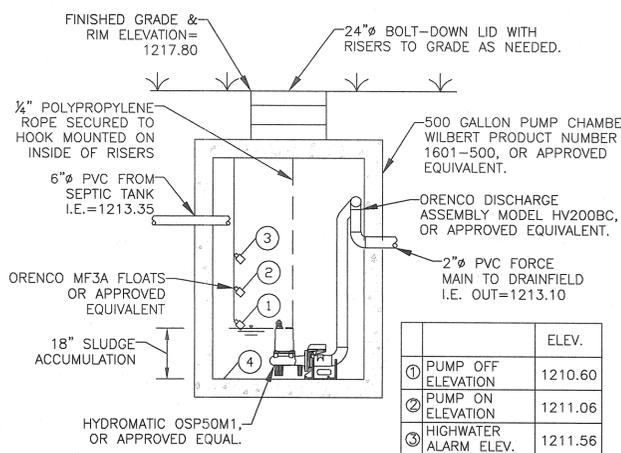
- TANK NOTES:**
- 2-PIECE CONSTRUCTION WITH BUTYL TAPE SEAL ASTM C990
 - 4" PVC TEE & BAFFLE.
 - ORENCO BIOTUBE EFFLUENT FILTER AT OUTLET, PRODUCT NUMBER FT044436, OR APPROVED EQUIVALENT.
 - SIDE INLET CONNECTION REQUIRED
- REINFORCEMENT:**
TOP AND BOTTOM:
#4 BARS AT 12" OC LENGTHWISE
#5 BARS @ 9" OC WIDTHWISE
SIDES: 6X6-10/10 WIRE MESH



SECTION VIEW

1,000 GAL. SEPTIC TANK DETAIL

3
C104

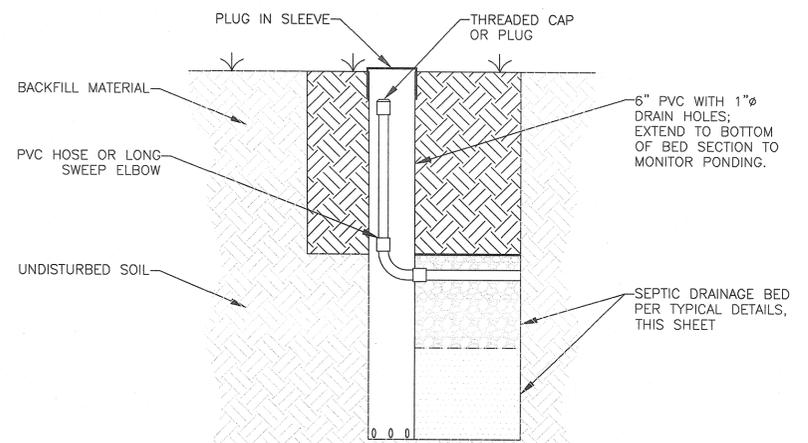


SEPTIC SYSTEM PUMP CHAMBER DETAIL

4
C104

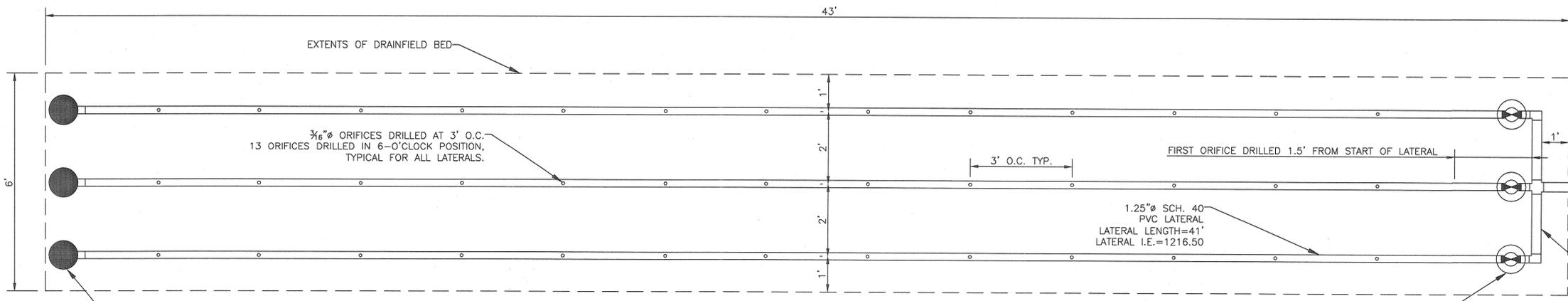
- PUMP NOTES:**
- PUMP CONTROLS SHALL BE WALL MOUNTED INSIDE BUILDING, COORDINATE LOCATION WITH MECHANICAL AND ELECTRICAL ENGINEERS. PROVIDE ORENCO MMS1PTRO CONTROL PANEL, OR APPROVED EQUAL.
 - PUMP CONTROLS ARE DEPENDANT UPON INTERNAL PUMP CHAMBER DIMENSIONS AND PUMP OPERATING POINT. IF EQUIVALENT PRODUCTS ARE SUBMITTED, CHANGES TO PUMP DRAWDOWN, FLOAT ELEVATIONS AND RUNTIMES WILL BE IMPACTED AND ARE TO BE VERIFIED BY THE CIVIL ENGINEER PRIOR TO APPROVAL AND INSTALLATION.
 - PRESSURE DISTRIBUTION SETTINGS:
A) PUMP OPERATING POINT: 37.5 GPM AT 17" TDH
B) VOLUME = 60 GALLONS/DOSE
C) DOSES/DAY = 4
D) TIMER SETTINGS:
PUMP ON = 1 MIN. 36 SEC
PUMP OFF = 5 HRS 58 MINS 24 SEC

	ELEV.
① PUMP OFF ELEVATION	1210.60
② PUMP ON ELEVATION	1211.06
③ HIGHWATER ALARM ELEV.	1211.56
④ INTERNAL TANK BOTTOM ELEV.	1209.10



MONITORING/CLEANOUT PORT DETAIL

5
C104



SEPTIC DRAINFIELD LAYOUT DETAIL

6
C104

- ON-SITE SEPTIC SYSTEM NOTES:**
- WASTEWATER FLOWS ARE CONSIDERED TO BE OF RESIDENTIAL STRENGTH AND QUALITY.
 - CONTRACTOR/INSTALLER SHALL PROVIDE AN OPERATION & MAINTENANCE MANUAL UPON COMPLETION OF WORK AS APPROVED BY THE GRANT COUNTY HEALTH DISTRICT.
 - CONTRACTOR TO TEST LATERALS WITH HEALTH DISTRICT PRESENT TO ENSURE CORRECT PRESSURE DISTRIBUTION THROUGHOUT SYSTEM. ORIFICES TO FACE 12-O'CLOCK POSITION FOR TEST AND ARE TO BE TURNED TO 6-O'CLOCK POSITION UPON HEALTH DISTRICT APPROVAL AND PRIOR TO BACKFILLING.

NO.	DATE	BY
REVISIONS		

TD&H

THOMAS, DEAN & HOSKINS, INC.
ENGINEERING CONSULTANTS
MONTANA
GRAND FALLS-BOZEMAN-KALISPELL
WASHINGTON
LEWISTON

ZECK BUTLER ARCHITECTS PS

ZBa

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www.zeckbutler.com

DETAILS

GRANT COUNTY LANDFILL COMPLEX
EPHRATA, WASHINGTON
GRANT COUNTY PUBLIC WORKS DEPARTMENT

SHEET TITLE

PROJECT TITLE

SEAL

GOVERNOR R. GALL
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
05-16-11

PROJECT NO.

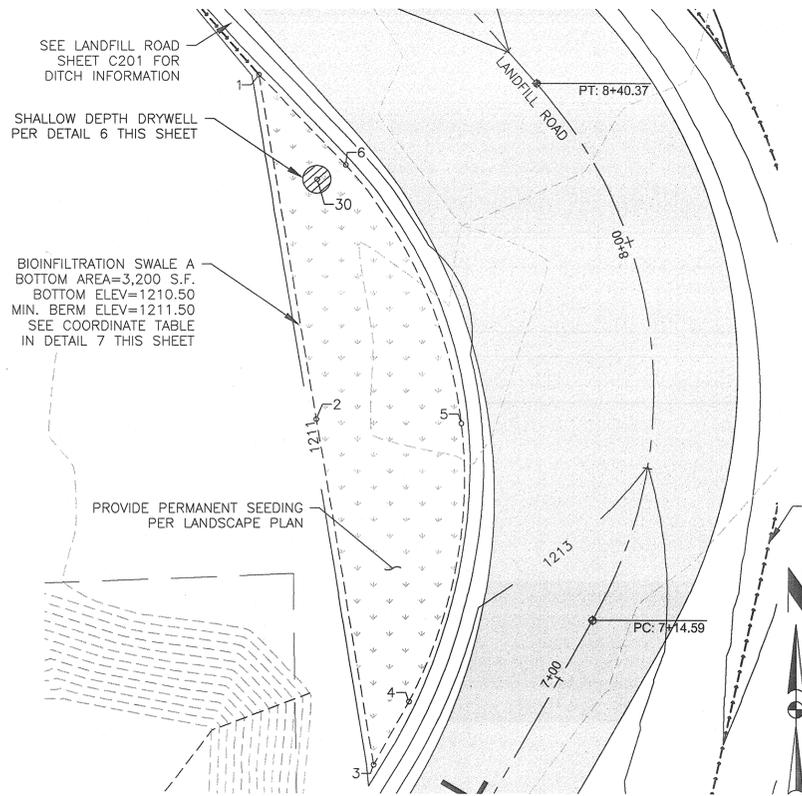
DRAWN: ATJ

CHECKED: GRG

DATE: 05-16-11

DRAWING NO.

C503

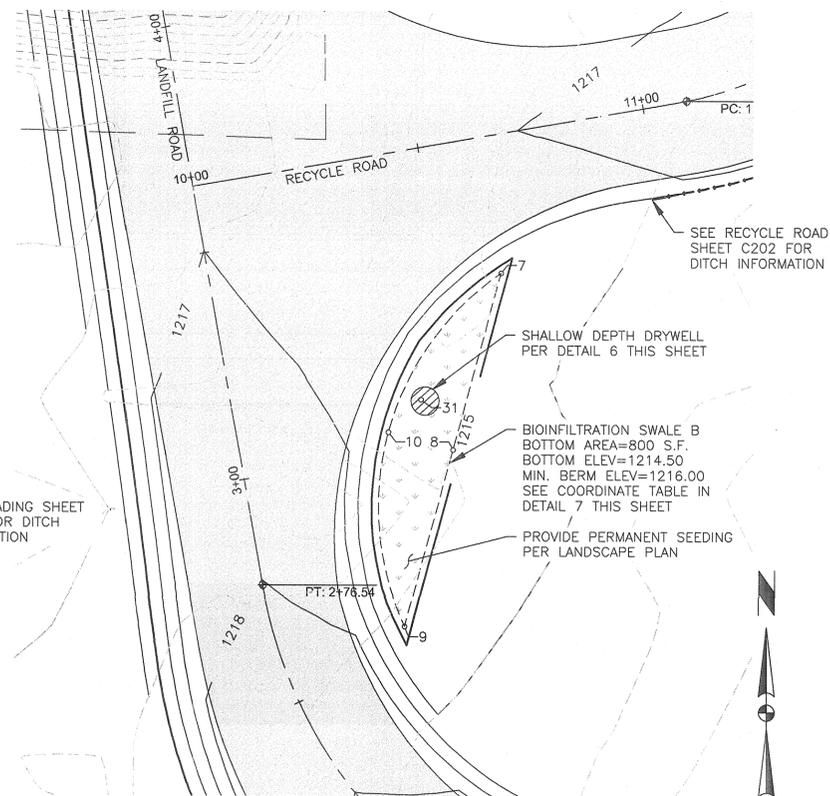


BIOINFILTRATION SWALE A LAYOUT DETAIL

SCALE : 1"=20'

1

C102

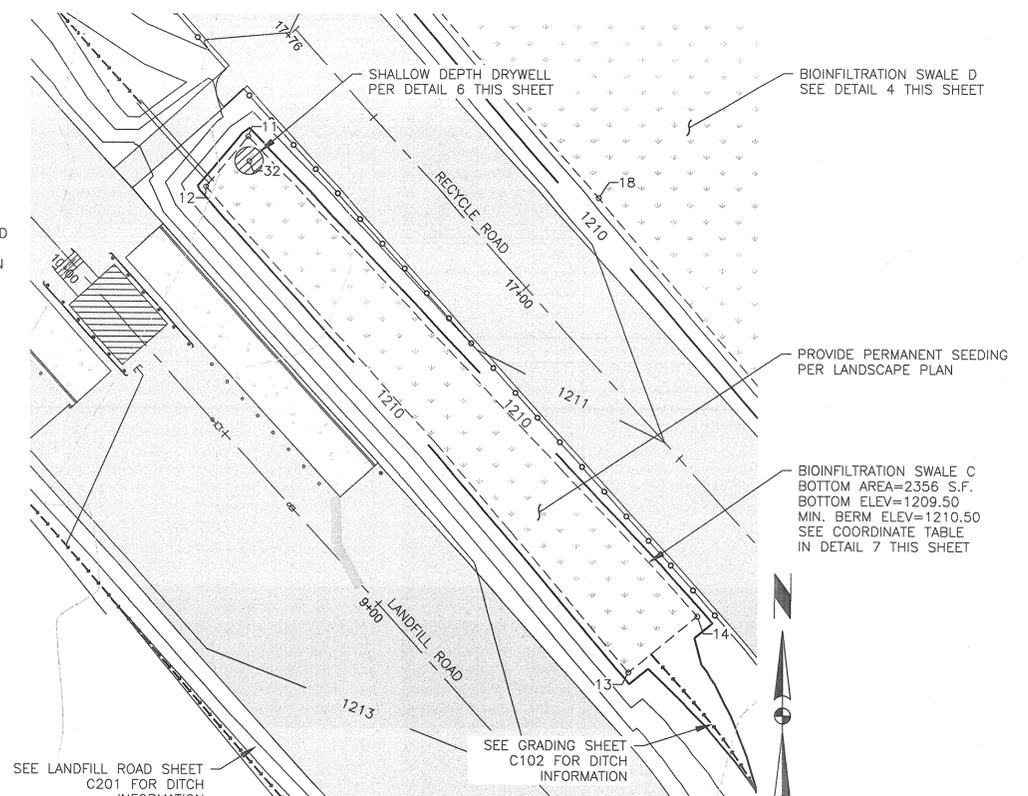


BIOINFILTRATION SWALE B LAYOUT DETAIL

SCALE : 1"=20'

2

C102

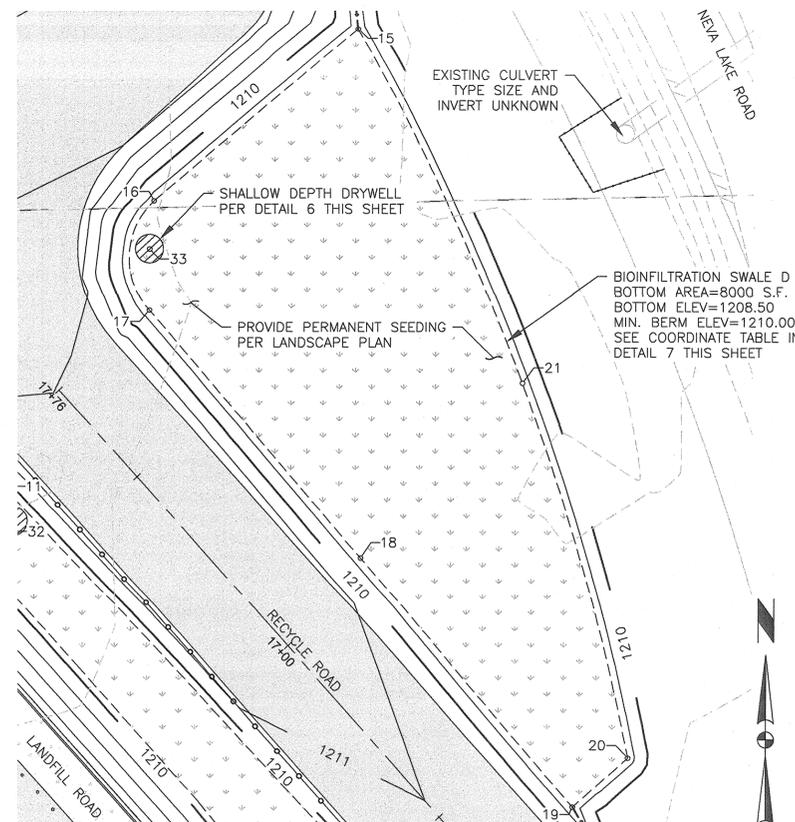


BIOINFILTRATION SWALE C LAYOUT DETAIL

SCALE : 1"=20'

3

C102

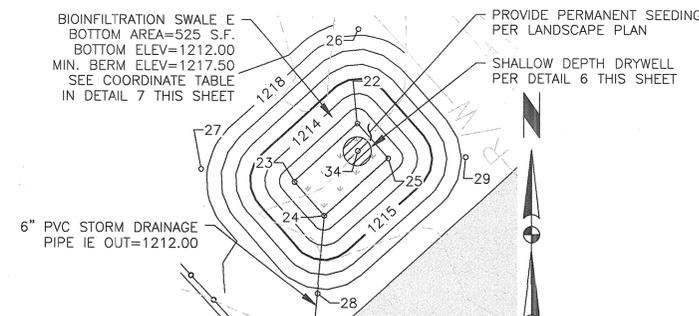


BIOINFILTRATION SWALE D LAYOUT DETAIL

SCALE : 1"=20'

4

C102

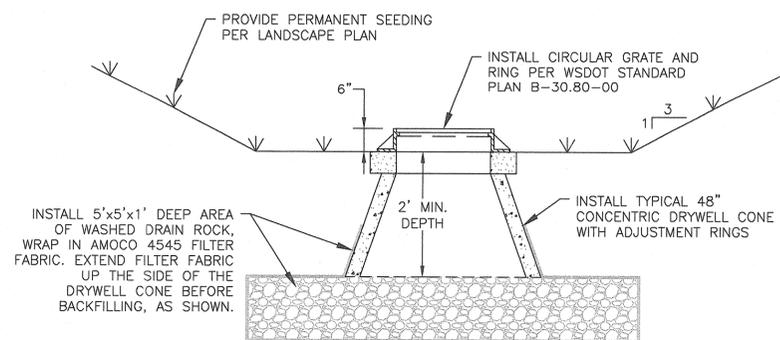


BIOINFILTRATION SWALE E LAYOUT DETAIL

SCALE : 1"=20'

5

C102



SHALLOW DRYWELL DETAIL

SCALE : NTS

6

C504

POINT DATA TABLE (THIS SHEET ONLY)			
POINT #	DESCRIPTION	NORTHING	EASTING
1	SWALE A	10691.18	20494.17
2	SWALE A	10616.09	20506.74
3	SWALE A	10541.00	20519.31
4	SWALE A	10554.68	20527.06
5	SWALE A	10615.17	20538.49
6	SWALE A	10671.28	20513.15
7	SWALE B	10232.62	20545.12
8	SWALE B	10194.12	20534.63
9	SWALE B	10155.62	20524.13
10	SWALE B	10197.97	20520.49
11	SWALE C	10835.25	20486.32
12	SWALE C	10824.06	20477.13
13	SWALE C	10718.86	20569.64
14	SWALE C	10730.93	20584.69
15	SWALE D	10936.99	20562.25
16	SWALE D	10899.80	20517.34
17	SWALE D	10876.06	20516.19

POINT DATA TABLE (THIS SHEET ONLY)			
POINT #	DESCRIPTION	NORTHING	EASTING
18	SWALE D	10821.81	20562.93
19	SWALE D	10767.56	20609.67
20	SWALE D	10778.20	20621.76
21	SWALE D	10860.03	20598.50
22	SWALE E	11269.26	20300.26
23	SWALE E	11256.61	20286.51
24	SWALE E	11249.31	20293.04
25	SWALE E	11261.78	20307.01
26	SWALE E	11289.72	20300.47
27	SWALE E	11259.36	20266.09
28	SWALE E	11232.41	20291.48
29	SWALE E	11262.09	20323.94
30	DRYWELL A	10667.98	20506.93
31	DRYWELL B	10205.16	20527.65
32	DRYWELL C	10829.83	20486.60
33	DRYWELL D	10889.33	20516.37
34	DRYWELL E	11263.35	20300.37

NOTE: SWALE COORDINATE DATA IS MEASURED AT THE BOTTOM TOE OF SLOPE.

COORDINATE TABLE

SCALE : NTS

8

C504

NO. DATE BY

REVISIONS

TD&H

THOMAS, DEAN & HOSKINS, INC.
ENGINEERING CONSULTANTS
SPokane, Washington
CREATED BY: BOZEMAN-KALISPELL
LEWISTON, IDAHO

ZECK BUTLER ARCHITECTS PS

ZB&A

421 W Riverside - Suite 800 - Spokane WA 99201
t: 509.496.8228 f: 509.447.0570
www.zbata.com

SWALE DETAILS

GRANT COUNTY LANDFILL COMPLEX
EPHRATA, WASHINGTON
GRANT COUNTY PUBLIC WORKS DEPARTMENT

PROFESSIONAL ENGINEER
GEOFF R. GALLINGER
STATE OF WASHINGTON
LICENSED
05-16-11

PROJECT NO.

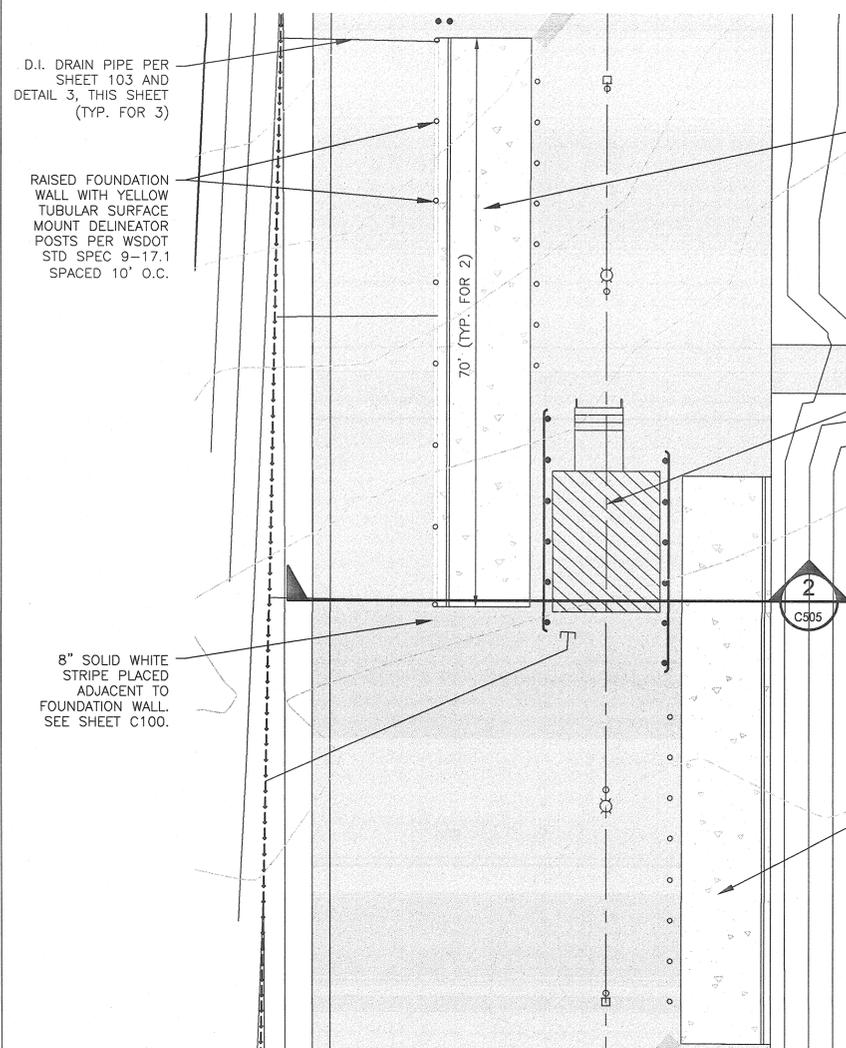
DRAWN: ATJ

CHECKED: GRG

DATE: 05-16-11

DRAWING NO.

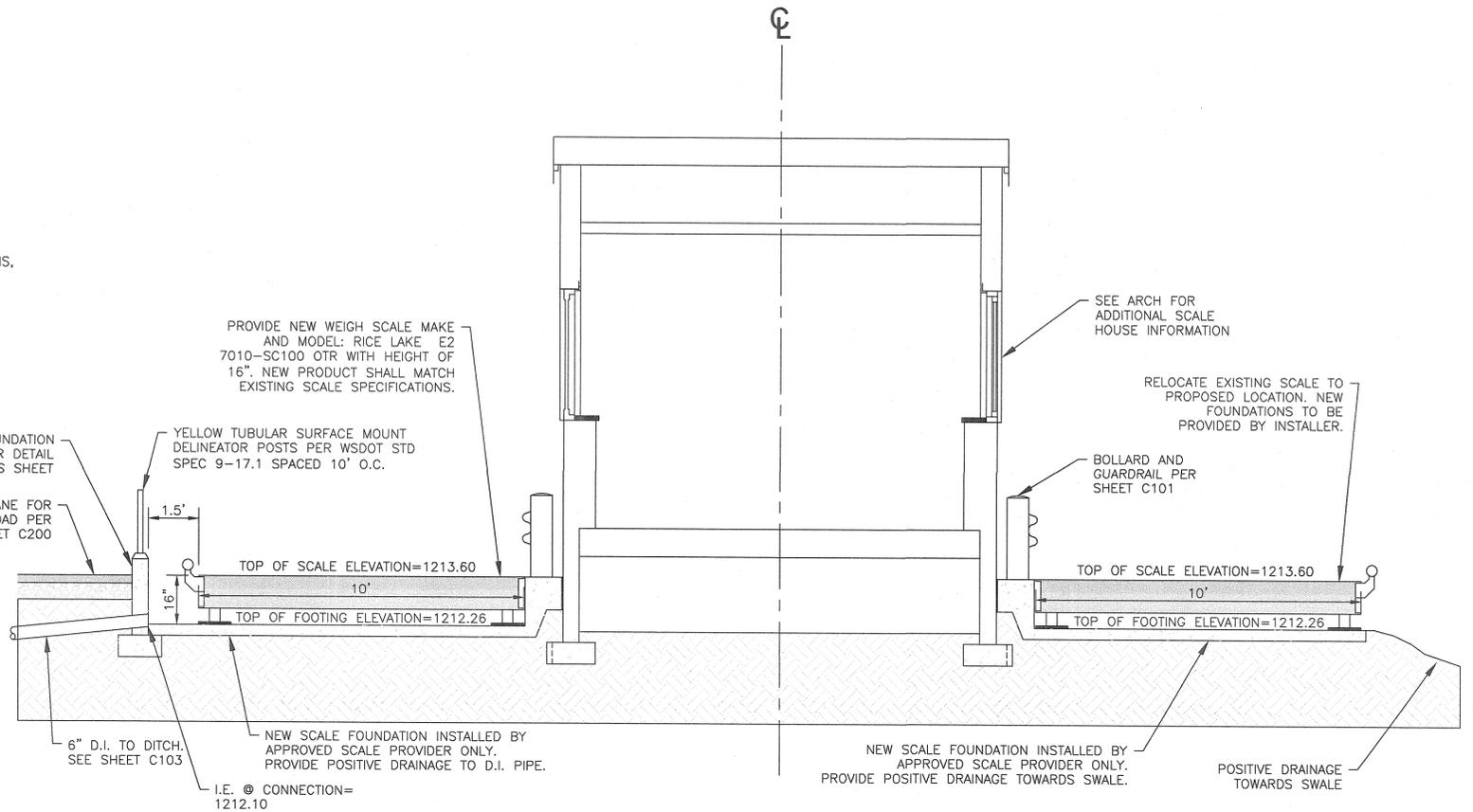
C504



PROVIDE NEW WEIGH SCALE MAKE AND MODEL: RICE LAKE E2 7010-SC100 OTR WITH HEIGHT OF 16". NEW PRODUCT SHALL MATCH EXISTING SCALE SPECIFICATIONS.

SEE ARCH FOR SCALE HOUSE PLANS, SECTIONS AND ELEVATIONS.

RELOCATE EXISTING SCALE TO PROPOSED LOCATION. NEW FOUNDATIONS TO BE PROVIDED BY INSTALLER.



PROVIDE NEW WEIGH SCALE MAKE AND MODEL: RICE LAKE E2 7010-SC100 OTR WITH HEIGHT OF 16". NEW PRODUCT SHALL MATCH EXISTING SCALE SPECIFICATIONS.

SEE ARCH FOR ADDITIONAL SCALE HOUSE INFORMATION

RELOCATE EXISTING SCALE TO PROPOSED LOCATION. NEW FOUNDATIONS TO BE PROVIDED BY INSTALLER.

WEIGH SCALES (SECTION 1) DETAIL

SCALE : NTS

2
C101

SCALE RETAILER INFORMATION

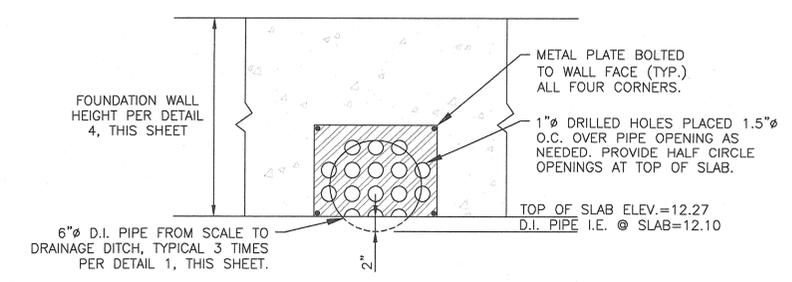
APPROVED SCALES AND FOUNDATIONS PROVIDED BY: CORRELL'S SCALE SERVICE 4300 ROAD K NE MOSES LAKE, WA 98837 CONTACT: RANDY PUCH TELEPHONE: 509-765-7754

PRE-APPROVED SCALE AND FOUNDATION SUBMITTALS ARE ALLOWED PROVIDED THEY ARE EQUIVALENT TO THE PRODUCTS SPECIFIED IN THESE PLANS.

WEIGH SCALES PLAN LAYOUT DETAIL

SCALE : NTS

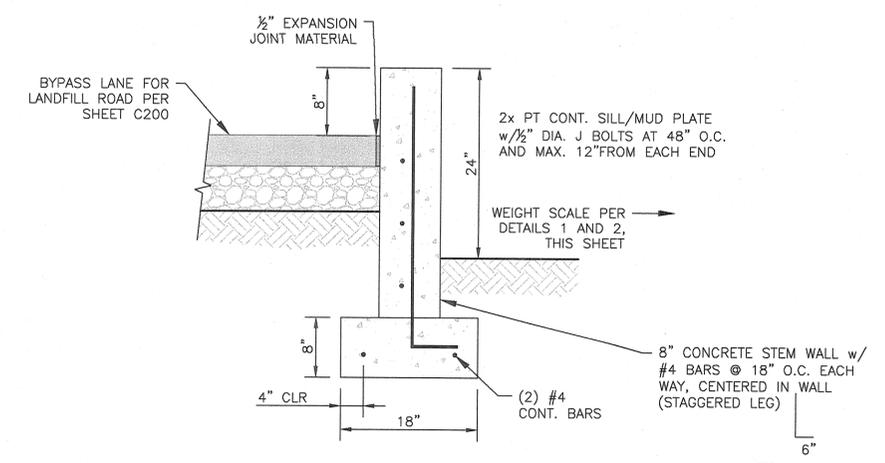
1
C101



FOUNDATION WALL DRAIN DETAIL

SCALE : NTS

3
C101



FOUNDATION WALL SECTION DETAIL

SCALE : NTS

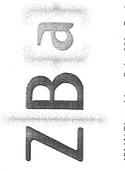
4
C101

NO.	DATE	BY
REVISIONS		



THOMAS, DEAN & HOSKINS, INC.
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BOZEMAN
LEWISTON
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t 509-495-3236 f 509-747-0570
www.zeckbutler.com

DETAILS

SHEET TITLE
PROJECT TITLE

GRANT COUNTY LANDFILL COMPLEX
EPHRATA, WASHINGTON
GRANT COUNTY PUBLIC WORKS DEPARTMENT

SEAL



PROJECT NO.

DRAWN: ATJ

CHECKED: GRG

DATE: 05-16-11

DRAWING NO.

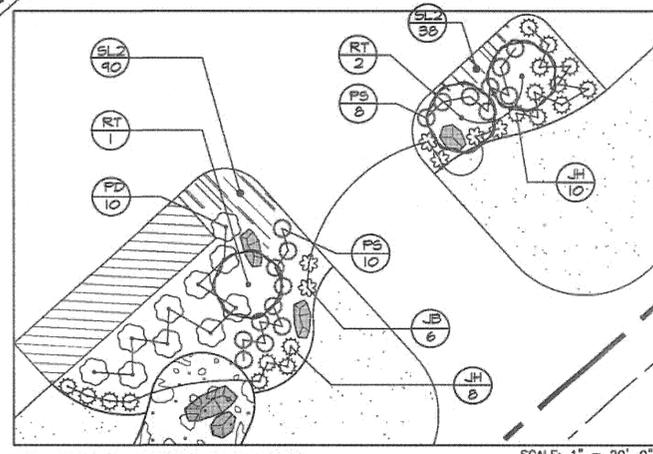
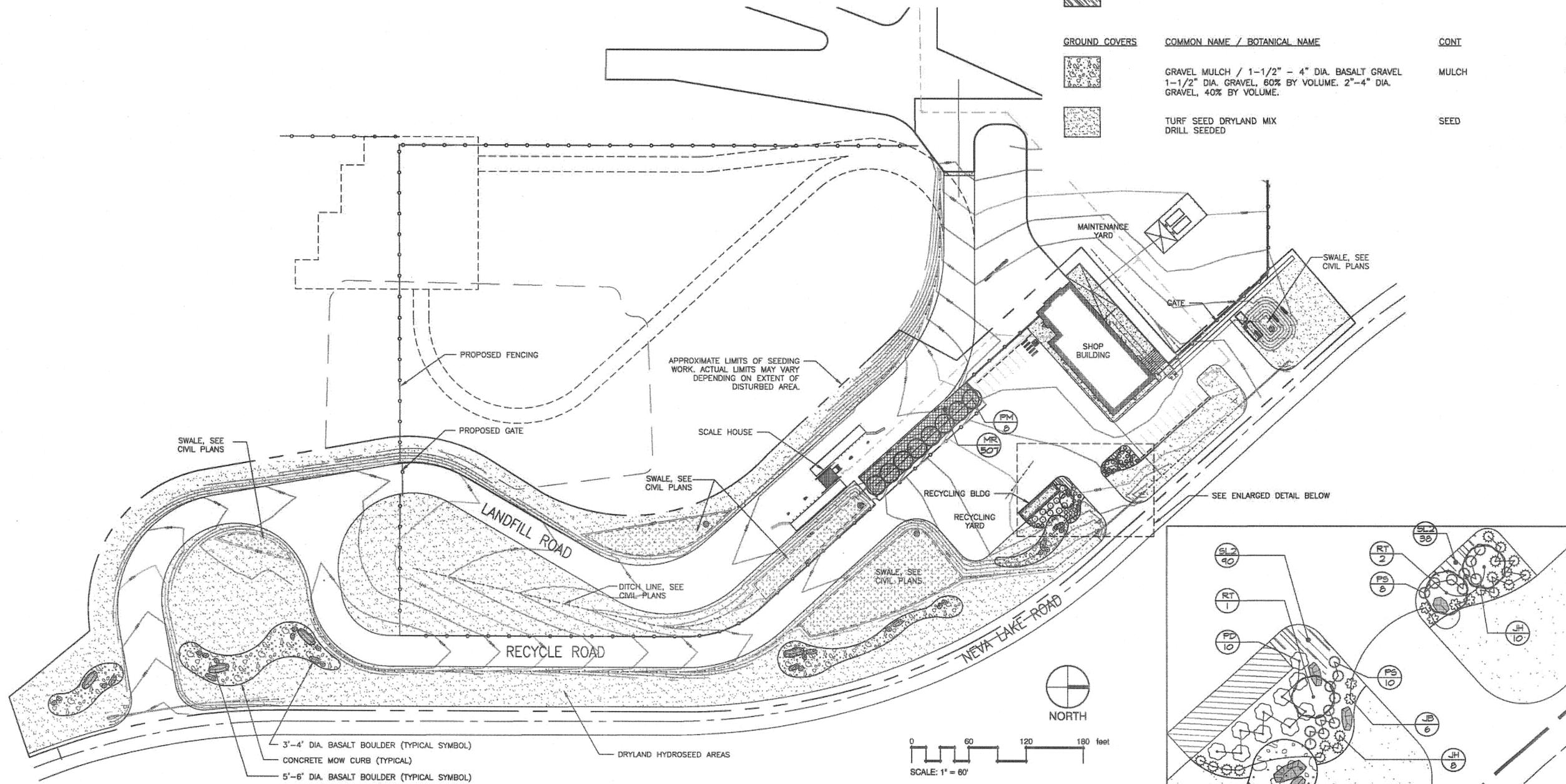
C505

PLANTING PLAN NOTES

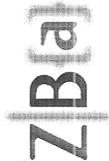
- SEE SHEET L201 FOR PLANTING AND HYDROSEED NOTES AND DETAILS.
- SEE SHEET L301 FOR IRRIGATION NOTES AND DETAILS.
- BERM GRAVEL MULCH AREAS 24" TO 36" HIGH. DO NOT BERM GRAVEL AREAS ON SLOPES OVER 8:1. SEE DETAIL, SHEET L201.
- SHRUB AND GROUND COVER AREAS SHALL RECEIVE 3" OF MEDIUM SIZE BARK MULCH.

PLANT SCHEDULE

TREES	COMMON NAME / BOTANICAL NAME	CONT	CAL	QTY
PM	LOMBARDY BLACK POPLAR / POPULUS NIGRA 'MAJESTIC'	B & B	2" CAL	8
RT	STAGHORN SUMAC / RHUS TYPHINA SPECIMEN	B & B	2" CAL	3
SHRUBS	COMMON NAME / BOTANICAL NAME	CONT	HYDRO	QTY
JH	CREeping JUNIPER / JUNIPERUS HORIZONTALIS	2 GAL		18
JB	BUFFALO JUNIPER / JUNIPERUS SABINA 'BUFFALO'	2 GAL		6
PS	RUSSIAN SAGE / PEROVSKIA ATRIPLICIFOLIA 'BLUE SPIRES'	3 GAL		18
PD	DIABLO NINEBARK / PHYSOCARPUS OPULIFOLIUS 'DIABLO'	3 GAL		10
SHRUB AREAS	COMMON NAME / BOTANICAL NAME	CONT	QTY	
	CREeping MAHONIA / MAHONIA REPENS	2 GAL @ 36" OC	507	
	LITTLE BLUESTEM GRASS / SCHIZACHYRIUM SCOPARIUM	1 GAL @ 18" OC	128	
GROUND COVERS	COMMON NAME / BOTANICAL NAME	CONT	QTY	
	GRAVEL MULCH / 1-1/2" - 4" DIA. BASALT GRAVEL 1-1/2" DIA. GRAVEL, 60% BY VOLUME. 2"-4" DIA. GRAVEL, 40% BY VOLUME.	MULCH	12,223 SF	
	TURF SEED DRYLAND MIX DRILL SEEDED	SEED	160,477 SF	

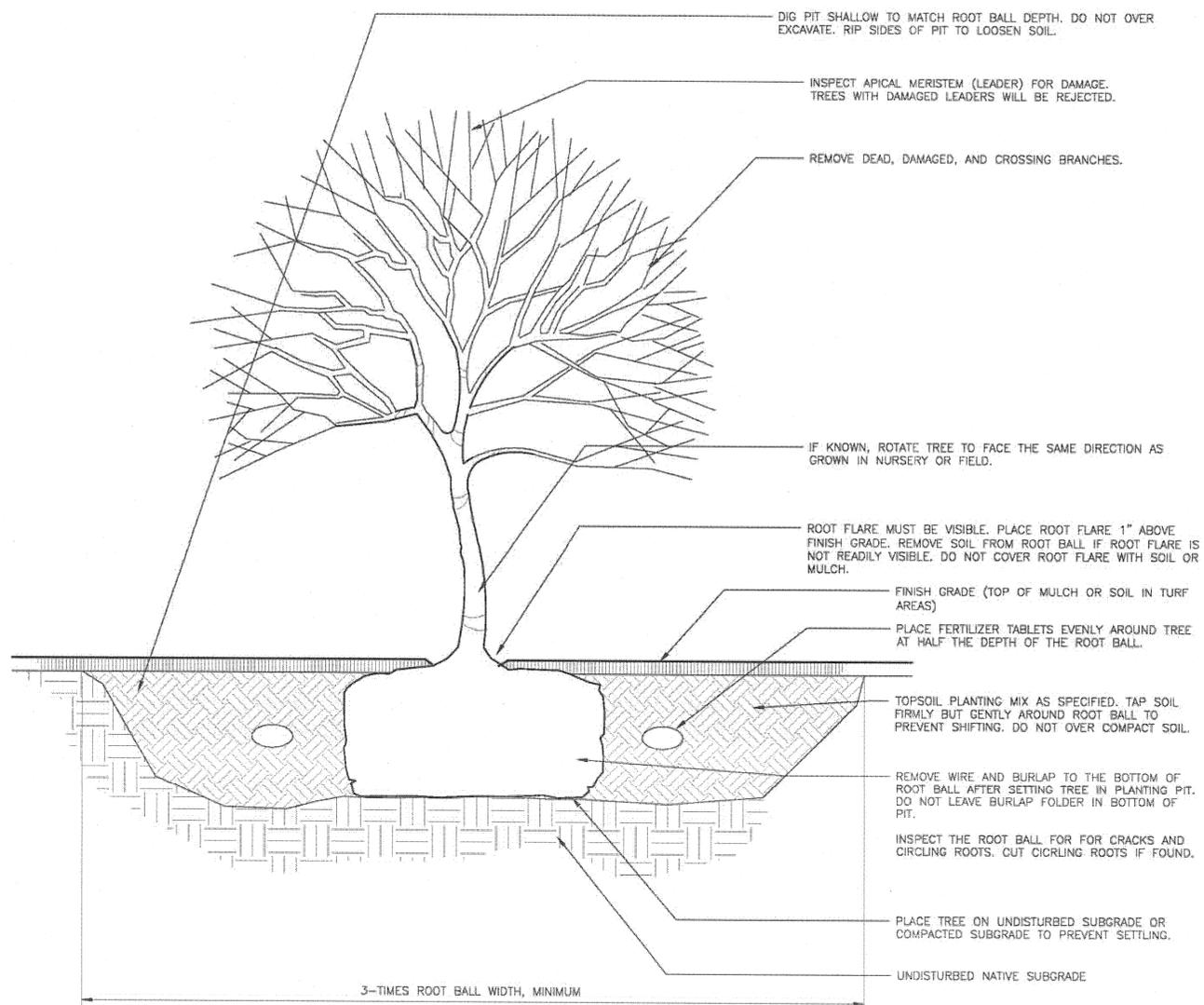


6/1/2011 11:42:54 AM C:\REVITTE\1009 Grant County Landfill Complex.rvt

NO.	DATE	BY	
REVISIONS			
			
LANDSCAPE PLANTING PLAN GRANT COUNTY LANDFILL COMPLEX EPHRATA, WASHINGTON GRANT COUNTY PUBLIC WORKS DEPARTMENT			
SHEET TITLE	PROJECT TITLE		
SEAL	 STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT CRAIG L. ANDERSEN CERTIFICATE NO. 1005 11.23.10		
PROJECT NO.	1009		
DRAWN:	CDA		
CHECKED:	CDA		
DATE:	5/16/11		
DRAWING NO.	L101		

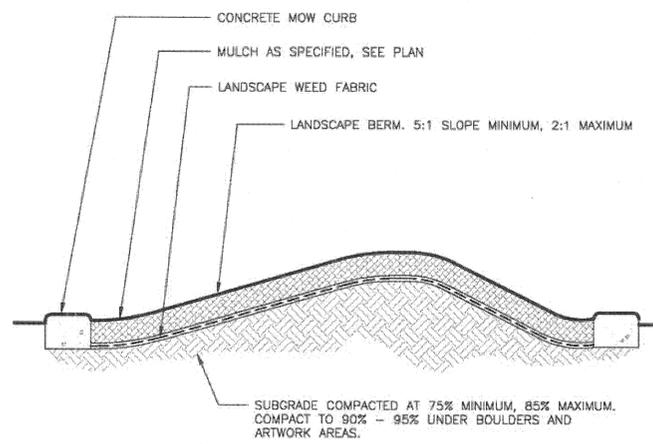
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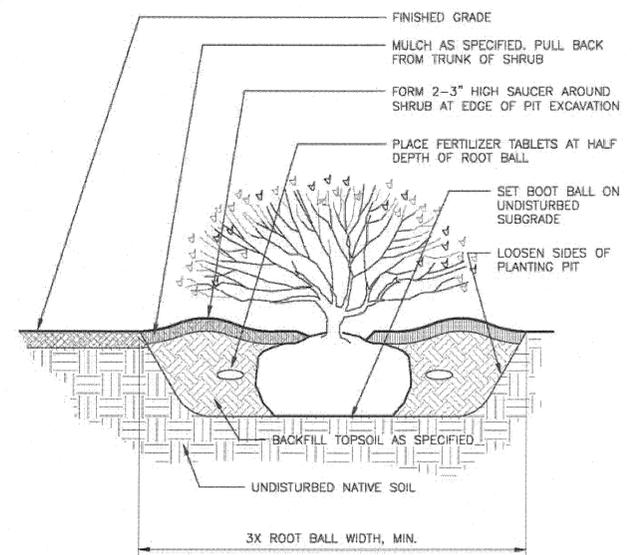
1 DECIDUOUS TREE PLANTING
1/2" = 1'-0"

329343.33-01



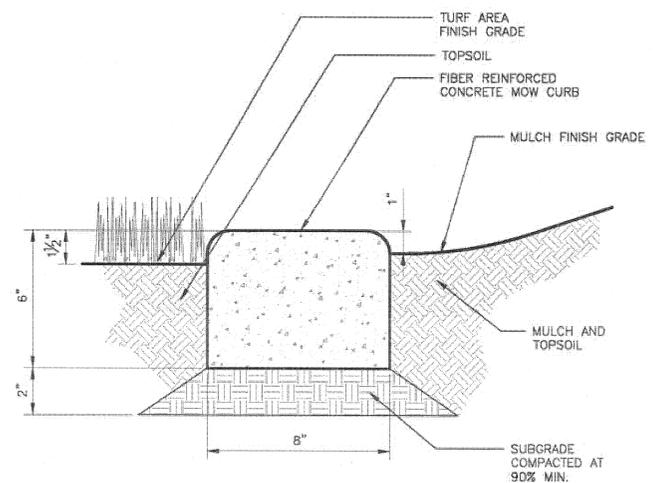
2 MULCH BERM
3/4" = 1'-0"

323010-01



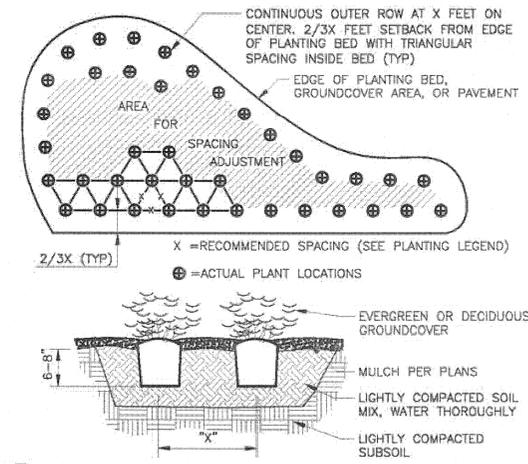
3 SHRUB PLANTING
1 1/2" = 1'-0"

329333.13-04



4 8X6 CONCRETE MOW CURB
3" = 1'-0"

329413.19-04



5 GROUNDCOVER PLANTING
1/4" = 1'-0"

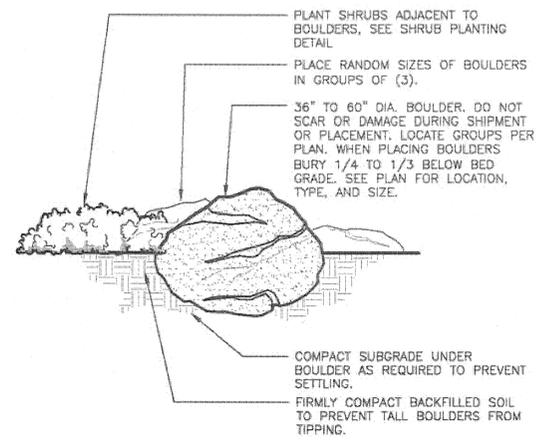
329333.83-01

GENERAL PLANTING NOTES

- SEE SPECIFICATIONS FOR TOP SOILS AND PLANTING MIX TYPES AND DEPTH, MULCHING, SOIL AMENDMENTS, FERTILIZERS AND WARRANTIES.
- CONTRACTOR SHALL PAY AND SECURE ANY REQUIRED PERMITS.
- CONTRACTOR TO VERIFY ON-SITE CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION.
- ALL PLANTING AREAS INDICATED SHALL BE INSTALLED WITH AN APPROVED AUTOMATIC IRRIGATION SYSTEM, OTHER THAN AREAS INDICATED AS 'DRYLAND'.
- ALL PLANTING AREAS SHALL BE STRIPPED AND CLEARED OF ALL EXISTING ROOTS, WEEDS, ROCKS AND DEBRIS OR CONTAMINATED SOIL. RAKE SUBGRADE TO A SMOOTH AND EVEN GRADE. FREE OF STONES LARGER THAN 1" AVERAGE DIAMETER. DO NOT STRIP OR CLEAR AREAS WITH EXISTING VEGETATION TO BE PRESERVED OR WHERE DOING SO WOULD DAMAGE ROOTS OF PLANTS TO REMAIN.
- THE CONTRACTOR & OWNER ARE RESPONSIBLE FOR READING THE PLANS, SPECIFICATIONS AND NOTES.
- THE CONTRACTOR SHALL MAINTAIN A QUALIFIED SUPERVISOR ON THE SITE AT ALL TIMES DURING CONSTRUCTION THROUGH COMPLETION OF FINAL PUNCHLIST WORK.
- THE CONTRACTOR SHALL VERIFY ALL PLANT MATERIAL QUANTITIES PRIOR TO INSTALLATION. ANY PLANT MATERIAL QUANTITIES LISTED ARE FOR THE CONVENIENCE OF THE CONTRACTOR. ACTUAL NUMBER OF SYMBOLS SHALL HAVE PRIORITY OVER QUANTITY DESIGNATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COUNTING THE TOTAL NUMBER OF PLANTS INDICATED ON THE PLANS AND ESTIMATING GROUNDCOVER QUANTITIES.
- THE CONTRACTOR SHALL FURNISH AND PAY FOR ALL CONTAINER OR FIELD GROWN TREES, SHRUBS AND VINES, INCLUDING SEEDS AND SODDED TURF, HYDROMULCHES AND FLATTED GROUNDCOVERS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE AND PAY FOR: PLANTING OF ALL PLANT MATERIALS; THE SPECIFIED GUARANTEE OF ALL PLANT MATERIALS; THE STAKING AND GUYING OF TREES AND THE CONTINUOUS PROTECTION OF ALL PLANT MATERIALS UPON THEIR ARRIVAL AT THE SITE.

DRILL SEED NOTES

- SEED AREAS SHOWN ARE APPROXIMATE. ALL DISTURBED AREAS SHALL BE SEEDED.
- SEEDS TO BE DELIVERED TO THE JOB SITE IN UNOPENED BAGS BEARING THE SEED SUPPLIER'S TAG SHOWING THE PROPORTIONS AND MIX COMPONENTS OF THE SEED CONTAINED IN EACH BAG INCLUDING THE AREA TO BE COVERED BY THE SEED CONTAINED IN EACH BAG.
- CONTRACTOR TO BRING TO THE JOB SITE THE PACKING LIST FROM THE SEED SUPPLIER LISTING ALL THE SEED DELIVERED TO THE JOB SITE.
- PROVIDE FRESH, CLEAN, NEW-CROP SEED COMPLYING WITH TOLERANCE OF PURITY AND GERMINATION ESTABLISHED BY THE OFFICIAL SEED ANALYSIS OF NORTH AMERICA. PROVIDE SEED MIXTURE COMPOSED OF GRASS SPECIES AND PERCENTAGES AS SPECIFIED BY SEED MANUFACTURER OR SUPPLIER.
- PROVIDE MIXTURE COMPOSED OF GRASS SEED IN PERCENTAGES AS FOLLOWS:
 - SEED MIX: AS REQUIRED BY WASHINGTON DEPARTMENT OF FISH AND WILDLIFE, NORTH CENTRAL REGION 2. CONTACT JOHN COTTON FOR MORE INFORMATION (1-509-754-4624)
- FERTILIZER: PER SEED MANUFACTURER/SUPPLIER RECOMMENDATIONS.
- ALL SEEDING OF SLOPES SHALL BE MULCHED PER SEED SUPPLIERS RECOMMENDATIONS.
- SEED AT MANUFACTURER'S OR SUPPLIERS RECOMMENDED TIMES AND RATES



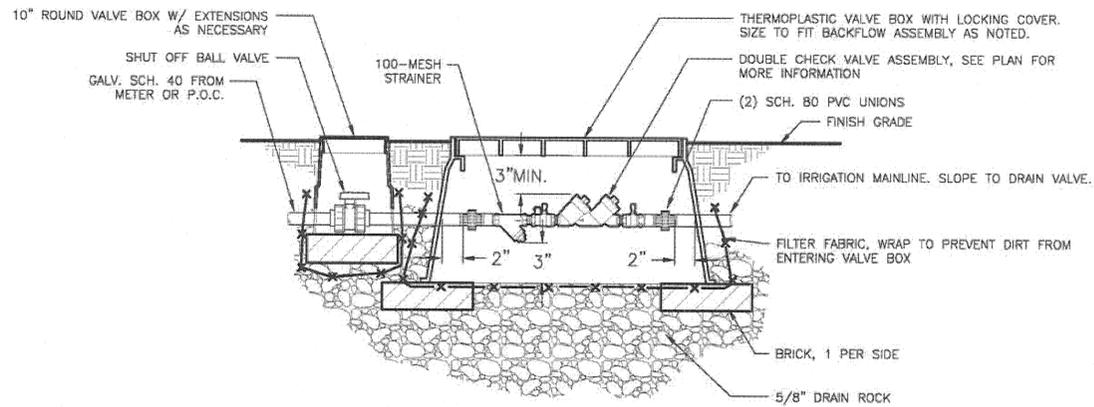
6 BOULDER PLACEMENT DETAIL
1/2" = 1'-0"

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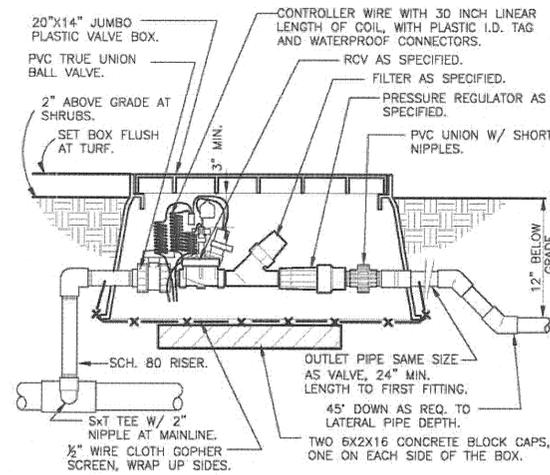
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REVISIONS		
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ZECK BUTLER ARCHITECTS PS		
LANDSCAPE PLANTING DETAILS		
PROJECT TITLE		
GRANT COUNTY LANDFILL COMPLEX		
EPHRATA, WASHINGTON		
GRANT COUNTY PUBLIC WORKS DEPARTMENT		
SHEET TITLE		
SEAL		
STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT		
CRAIG ANBERSEN		
CERTIFICATE NO. 1005		
11.23.10		
PROJECT NO.	1009	
DRAWN:	CDA	
CHECKED:	CDA	
DATE:	5/16/11	
DRAWING NO.	L201	

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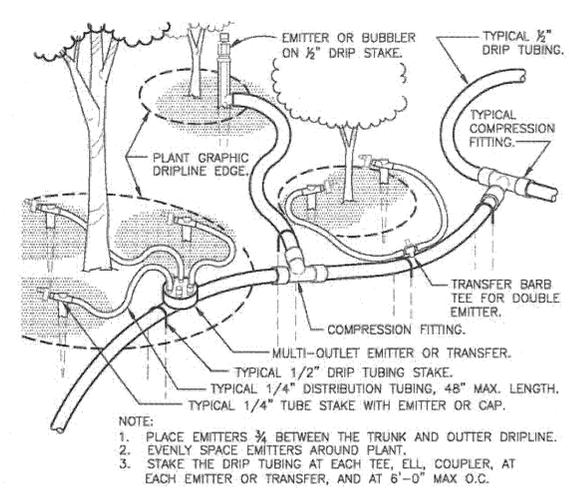
1 BACKFLOW PREVENTER
1 1/2" = 1'-0"

328489.46-01



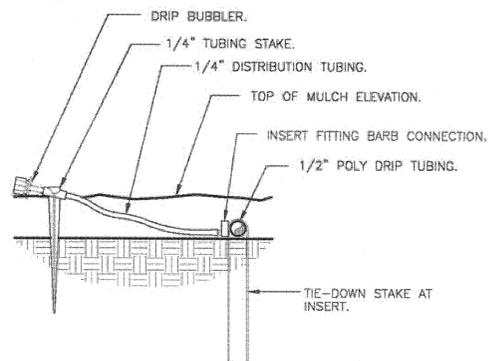
2 1" DRIP VALVE/FILTER/REGULATOR
1 1/2" = 1'-0"

328413.76-23



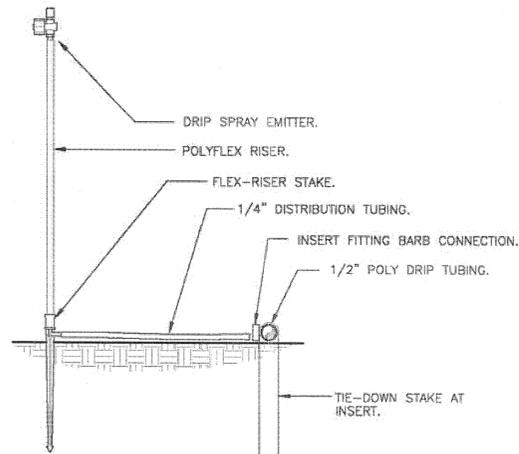
3 TYPICAL DRIP TUBING
1 1/2" = 1'-0"

328413.43-01



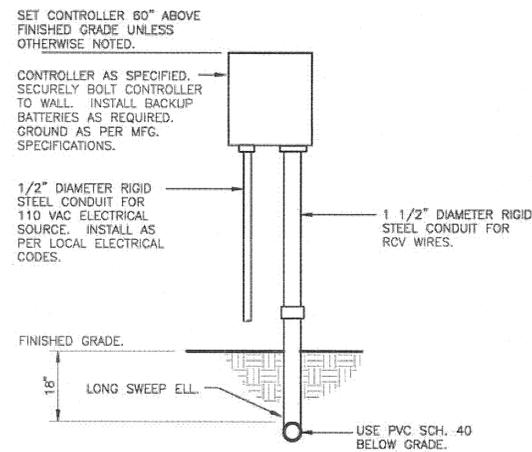
4 DRIP BUBBLER ON 1/4" TUBING
3" = 1'-0"

328413.19-08



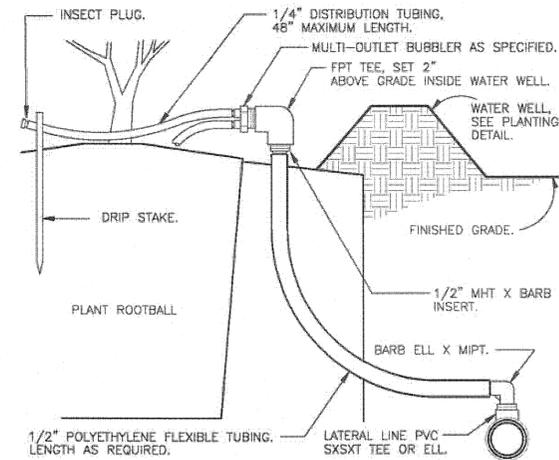
5 DRIP SPRAY ON FLEX RISER
3" = 1'-0"

328413.23-13



6 WALL MOUNT CONTROLLER
1" = 1'-0"

328409.13-01



7 DRIP MULTI-OUTLET BUBBLER AT PLANT PIT
3" = 1'-0"

328413.19-33

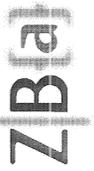
IRRIGATION SYSTEM DESIGN NOTES:

- PROVIDE A CONTRACTOR DESIGNED IRRIGATION SYSTEM IN ALL SHRUB AND GROUND COVER PLANTING AREAS. SYSTEM SHALL CONFORM WITH SPECIFICATIONS. THE IRRIGATION CONTRACTOR SHALL DESIGN AND FIELD ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVERSPRAY ONTO WALKS, PATIOS, ROADWAYS, FENCES, AND BUILDINGS AS MUCH AS POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT THE EXISTING SITE CONDITIONS AND TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH ZONE.
- IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, ETC. HE SHALL COORDINATE HIS WORK WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS FOR THE LOCATION AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, PAVING, STRUCTURES, ETC.
- SYSTEM DESIGN SHALL BE SUBMITTED TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO ORDERING MATERIALS AND START OF INSTALLATION.
- SYSTEM DESIGN SHALL MEET ALL BEST INDUSTRY STANDARDS FOR COMMERCIAL PROJECTS UTILIZING WATER EFFICIENT SPRAY AND DRIP IRRIGATION ZONES FOR PLANTING AREAS. ONLY PRODUCTS DESIGNATED BY THE MANUFACTURER AS SUITABLE FOR COMMERCIAL USE SHALL BE PROVIDED; RESIDENTIAL QUALITY PRODUCTS SHALL NOT BE UTILIZED. PLANTING AREAS INDICATED AS "DRYLAND" SHALL NOT BE IRRIGATED.
- THE DETAILS ON THIS SHEET SHALL BE USED AS A GUIDELINE FOR THE QUALITY OF WORKMANSHIP AND MATERIALS EXPECTED OF THE CONTRACTOR. FAILURE TO COMPLY WITH BASIC EQUIPMENT AND DIMENSIONS OF THE SHOWN DETAILS WILL RESULT IN CONTRACTOR BEING LIABLE FOR ANY CHANGES TO THE IRRIGATION SYSTEM THAT MIGHT BE REQUIRED.
- WIRING: EACH CONTROLLER SHALL HAVE ITS OWN INDEPENDENT GROUND WIRE.
 - RUN WIRE FROM EACH RCV TO THE CONTROLLER. SPlicing OF 24-VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 24" COIL OF EXCESS WIRE AT EACH SPLICE AND 100 FEET ON CENTER ALONG WIRE RUN. TAPE WIRE IN BUNDLES 10 FEET ON CENTER. NO TAPING PERMITTED INSIDE SLEEVES
 - INSTALL A SPARE CONTROL WIRE OF A DIFFERENT COLOR ALONG THE ENTIRE MAIN LINE. LOOP 36" EXCESS WIRE INTO EACH SINGLE VALVE BOX AND INTO ONE VALVE BOX IN EACH GROUP OF VALVES.
 - TWO-WIRE CONTROL SYSTEMS ARE ACCEPTABLE ALTERNATIVES.
- INSTALL VALVE BOXES MINIMUM 12" FROM AND PERPENDICULAR TO WALK, CURB, LAWN, BUILDING OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, EACH BOX SHALL BE AN EQUAL DISTANCE FROM THE WALK, CURB, LAWN, ETC. AND EACH BOX SHALL BE MINIMUM 12" APART. SHORT SIDE OF VALVE BOXES SHALL BE PARALLEL TO WALK, CURB, LAWN, ETC.
- LOCATE QUICK COUPLING VALVES 12" FROM HARDSCAPE AREAS AND NO FURTHER THAN 100' APART.
- IN LOCATIONS WHERE LOW HEAD DRAINAGE WILL CAUSE EROSION AND EXCESS WATER, USE POP-UP SPRINKLER MODELS WITH INTEGRAL CHECK VALVE.
- IRRIGATION CONTRACTOR TO PROVIDE A MEANS FOR SYSTEM BLOW-OUT AND WINTERIZATION ACCEPTABLE TO THE OWNER'S REPRESENTATIVE.
- IRRIGATION CONTRACTOR TO NOTIFY ALL LOCAL JURISDICTIONS FOR INSPECTION AND TESTING OF INSTALLED BACKFLOW PREVENTION DEVICE.
- POINT OF CONNECTION: IRRIGATION CONTRACTOR SHALL COORDINATE WITH WATER UTILITIES CONTRACTOR TO DETERMINE POINT OF CONNECTION SCOPE OF WORK PRIOR TO BIDDING.
- CONTRACTOR TO VERIFY ON-SITE CONDITIONS PRIOR TO BIDDING OR CONSTRUCTION.
- PROVIDE SYSTEM DESIGN SHOP DRAWING AND FINAL CONDITION AS-BUILTS TO OWNER AND LANDSCAPE ARCHITECT FOR APPROVAL.
- A BOOSTER PUMP MAY BE NECESSARY. CONTRACTOR SHALL VERIFY PRESSURE INFORMATION AND DESIGN SYSTEM ACCORDINGLY.
- INSTALL THRUST BLOCKS ON MAINLINE OF SYSTEM WHERE WATER HAMMER IS ANTICIPATED.
- INSTALL METALLIC DETECTABLE WARNING TAPE 6" ABOVE ALL IRRIGATION MAINLINE PIPE.

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LANDSCAPE IRRIGATION DETAILS

PROJECT TITLE
GRANT COUNTY LANDFILL COMPLEX
EPHRAATA, WASHINGTON
GRANT COUNTY PUBLIC WORKS DEPARTMENT



PROJECT NO. 1009
DRAWN: CDA
CHECKED: CDA
DATE: 5/16/11

DRAWING NO.
L301

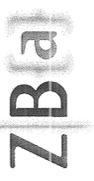
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KEYED NOTES

- ① FLOOR PROTECTION MATS (LOOSE) FOR LANDFILL COMPACTOR. PROVIDE RUBBER CONVEYOR BELT PRODUCT: "ROCKMASTER" 110 BY FENNER-DUNLOP. BELT STYLE: 3-330. SIZE: 60" WIDE X 20'-0" LONG. QTY.: 6 EA. WEIGHT: 5.67 LBS/LINEAL FT.
- ② WARP CONC. SLAB TO DOOR OPENING FOR SMOOTH, UNABRUPT TRANSITION.
- ③ TRENCH DRAINS - REFER TO MECHANICAL DRAWINGS.
- ④ FIRE EXTINGUISHER
- ⑤ O.H. LUBE, GREASE, WATER, AIR, HOSE REEL UNIT (5-REEL)
- ⑥ LUBE TANKS (2-280 GAL) FOR O.H. UNIT
- ⑦ LUBE DISPENSING RACK (6 TANK UNIT)
- ⑧ GREASE DRUM FOR O.H. UNIT
- ⑨ NOT USED
- ⑩ EMERGENCY EYE/SHOWER UNIT - REFER TO MECHANICAL DRAWINGS
- ⑪ EXISTING, RELOCATED AIR COMPRESSOR. CONTRACTOR INSTALLED.
- ⑫ PIPE BOLLARDS, TYP.
- ⑬ INSTALL GUARD CHAIN ACROSS DOOR OPENING AT 42" ABOVE FLOOR LEVEL.
- ⑭ 3"x4" DOWNSPOUTS ARE TIGHTLINED TO DRAIN LINES. REFER TO CIVIL DRAWINGS, TYPICAL.

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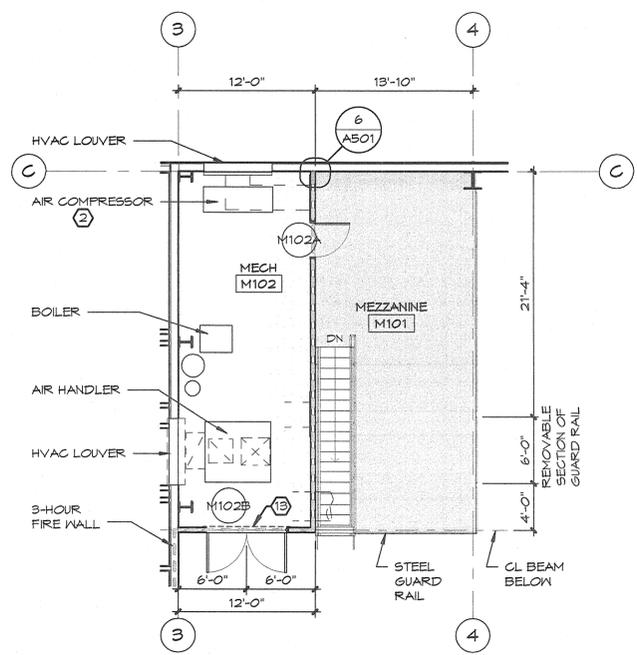
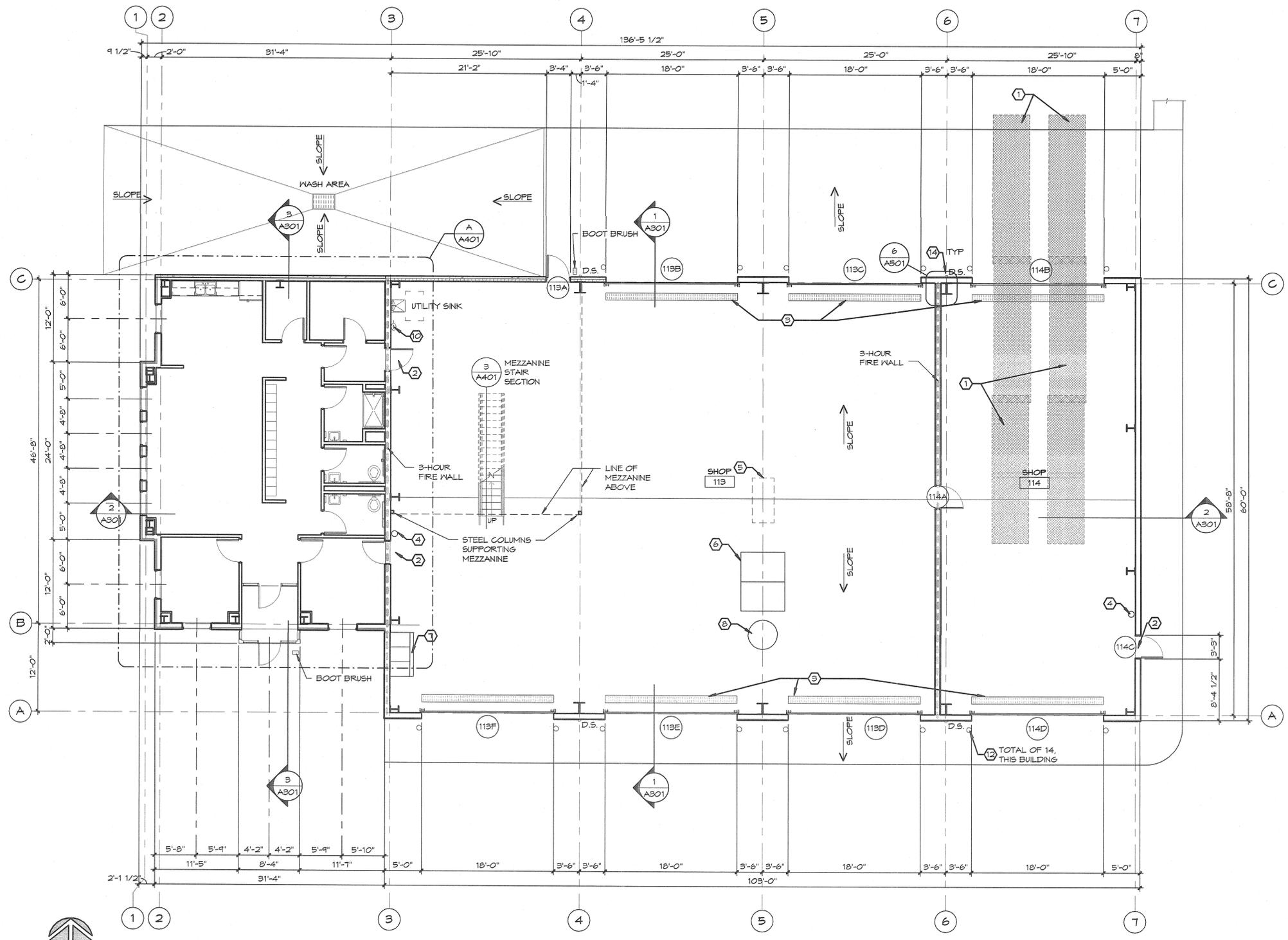
SHOP BUILDING FLOOR PLAN

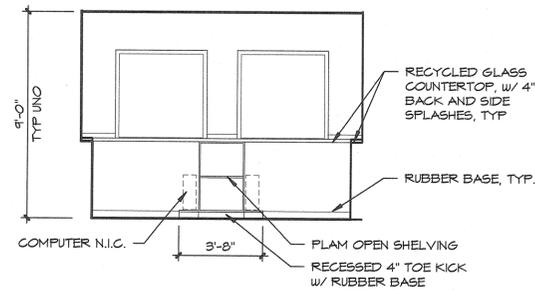
GRANT COUNTY LANDFILL COMPLEX
 EPHRATA, WASHINGTON
 GRANT COUNTY PUBLIC WORKS DEPARTMENT

6829 REGISTERED ARCHITECT
 WILLIAM ARTHUR FROENKE
 STATE OF WASHINGTON

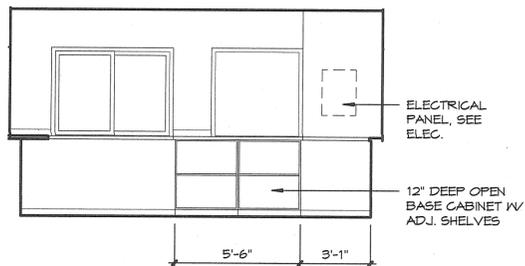
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 DATE: 5/16/11
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A101

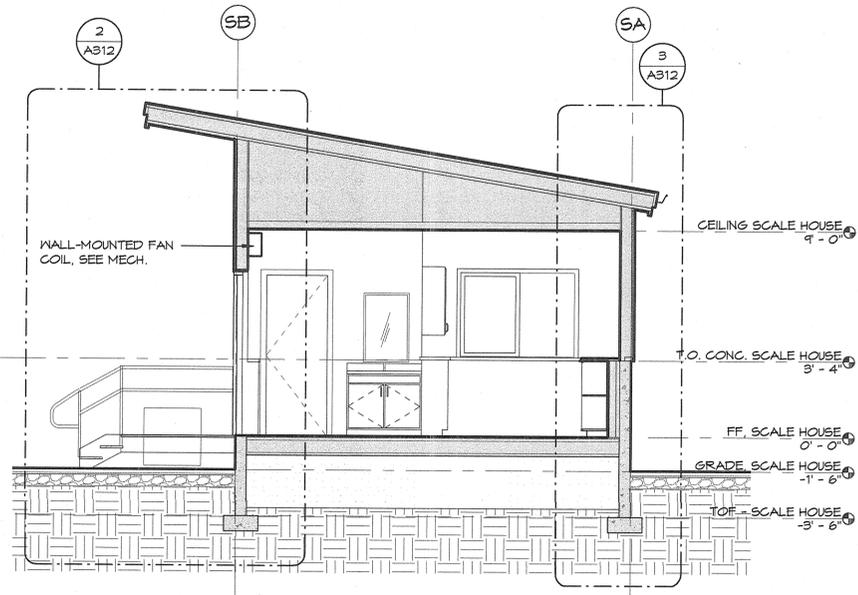




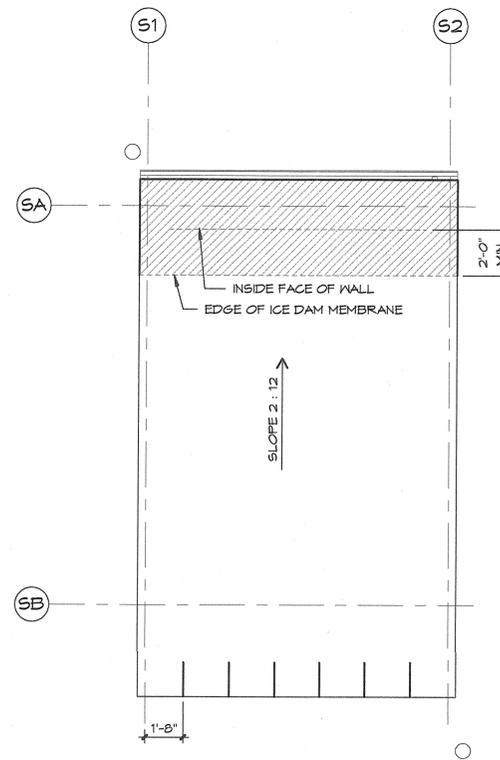
7 SOUTH
1/4" = 1'-0"



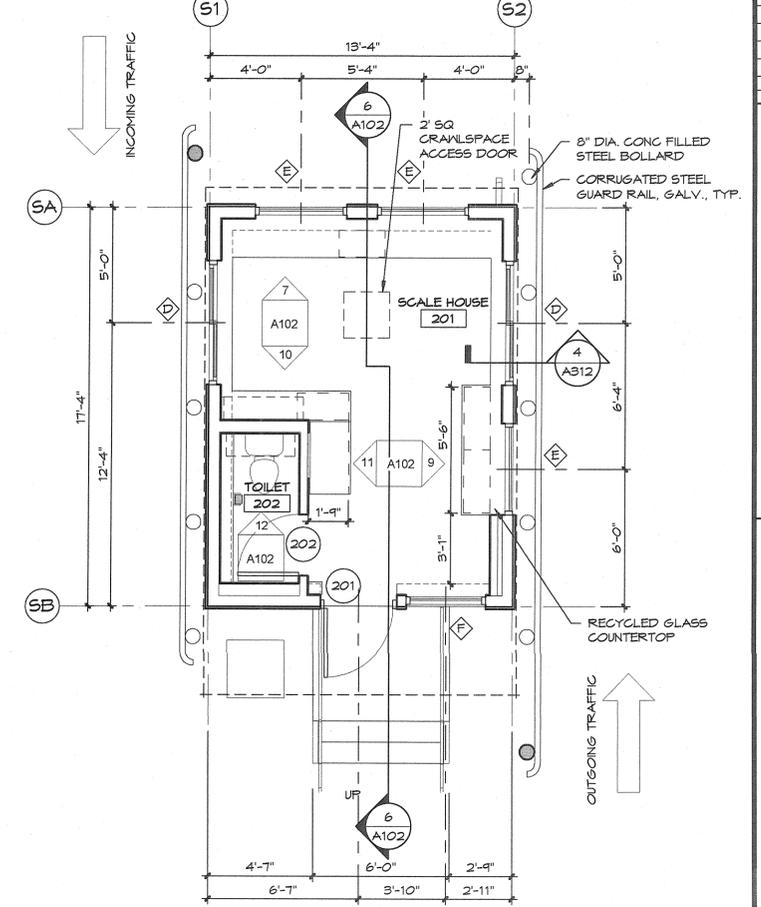
9 WEST
1/4" = 1'-0"



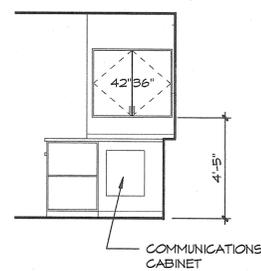
6 SECTION - SCALE HOUSE
1/4" = 1'-0"



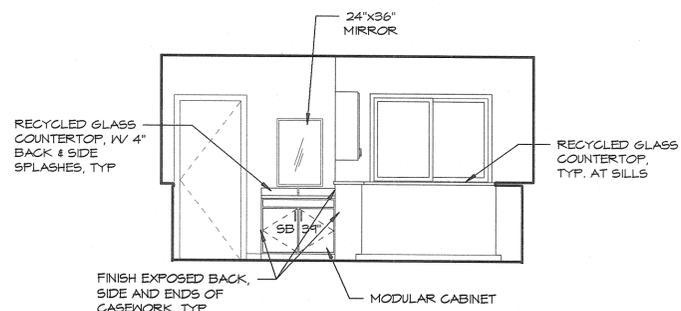
8 ROOF PLAN - SCALE HOUSE
1/4" = 1'-0"



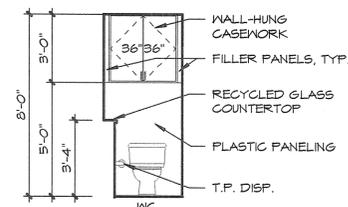
1 FLOOR PLAN - SCALE HOUSE
1/4" = 1'-0"



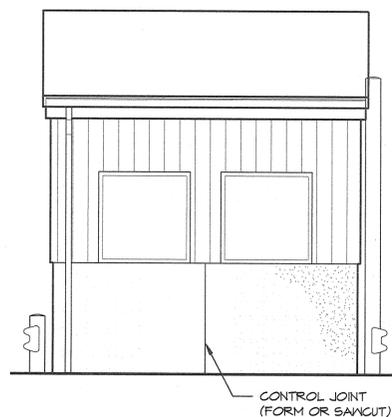
10 NORTH
1/4" = 1'-0"



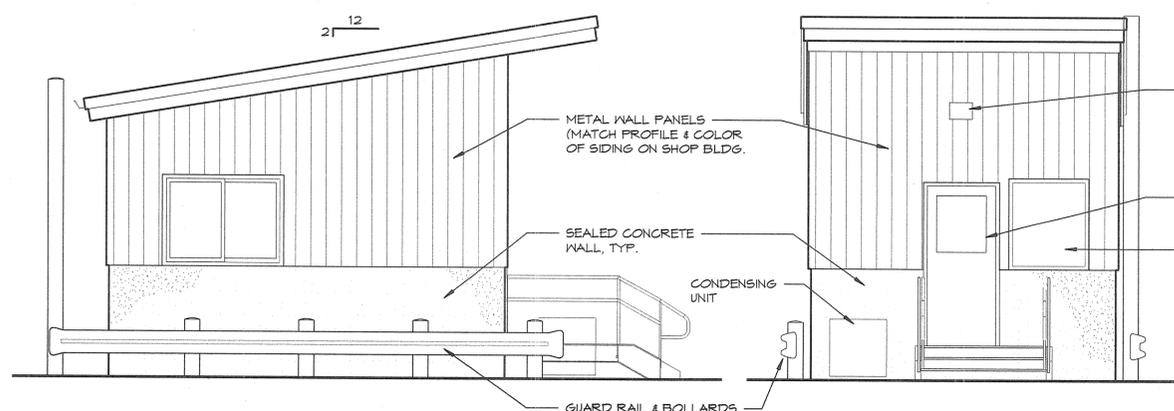
11 EAST
1/4" = 1'-0"



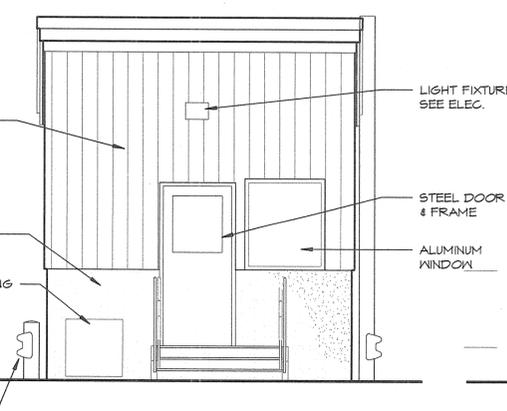
12 TOILET
1/4" = 1'-0"



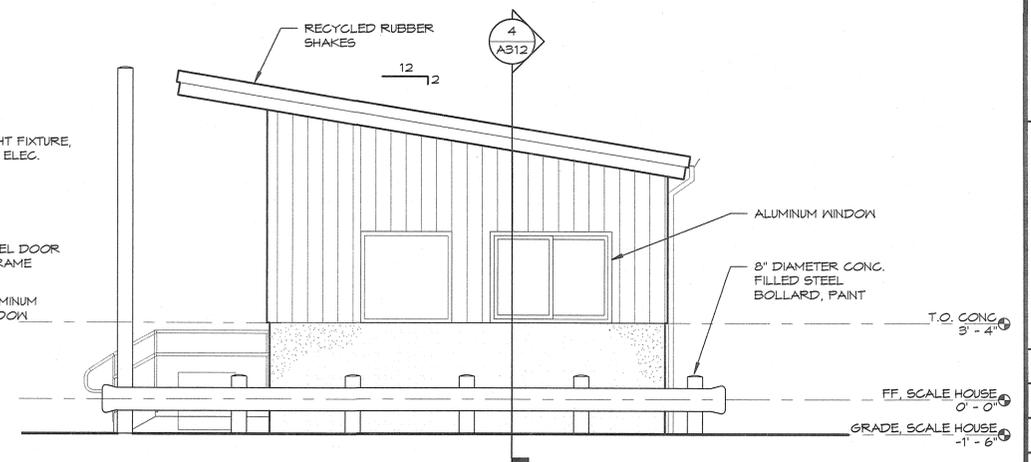
5 SCALEHOUSE - SOUTH
1/4" = 1'-0"



3 SCALE HOUSE - EAST
1/4" = 1'-0"



2 SCALE HOUSE - NORTH
1/4" = 1'-0"



4 SCALE HOUSE - WEST
1/4" = 1'-0"

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SCALE HOUSE PLANS, SECTIONS & ELEVATIONS

GRANT COUNTY LANDFILL COMPLEX
EPHRATA, WASHINGTON
GRANT COUNTY PUBLIC WORKS DEPARTMENT

SHEET TITLE

SEAL

6829 REGISTERED ARCHITECT
William Arthur Froenke
WILLIAM ARTHUR FROENKE
STATE OF WASHINGTON

PROJECT NO. 1009

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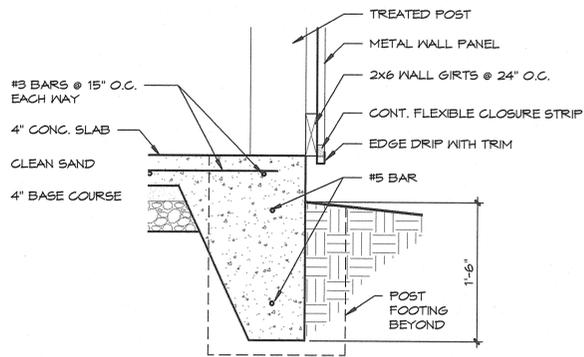
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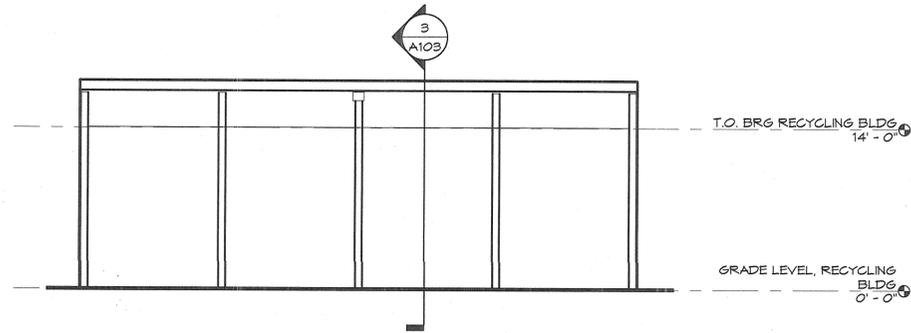
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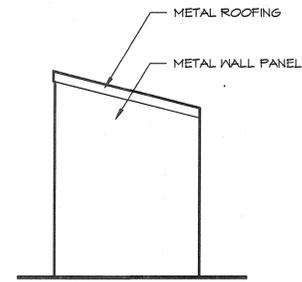
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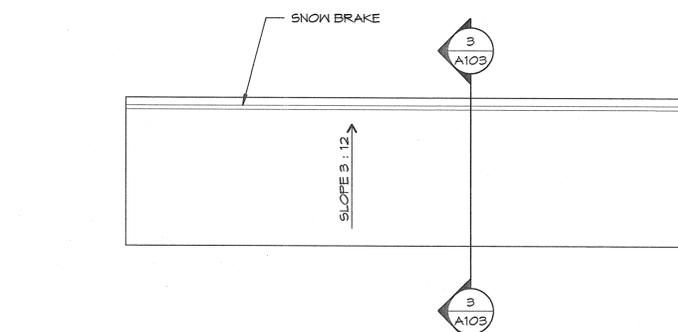
6 SLAB EDGE DETAIL
1" = 1'-0"



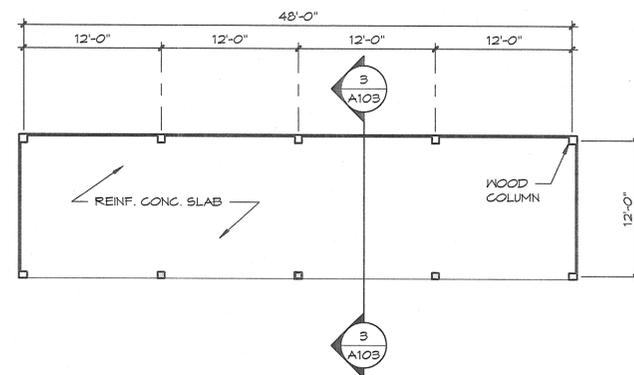
2 RECYCLING BLDG, WEST ELEVATION
1/8" = 1'-0"



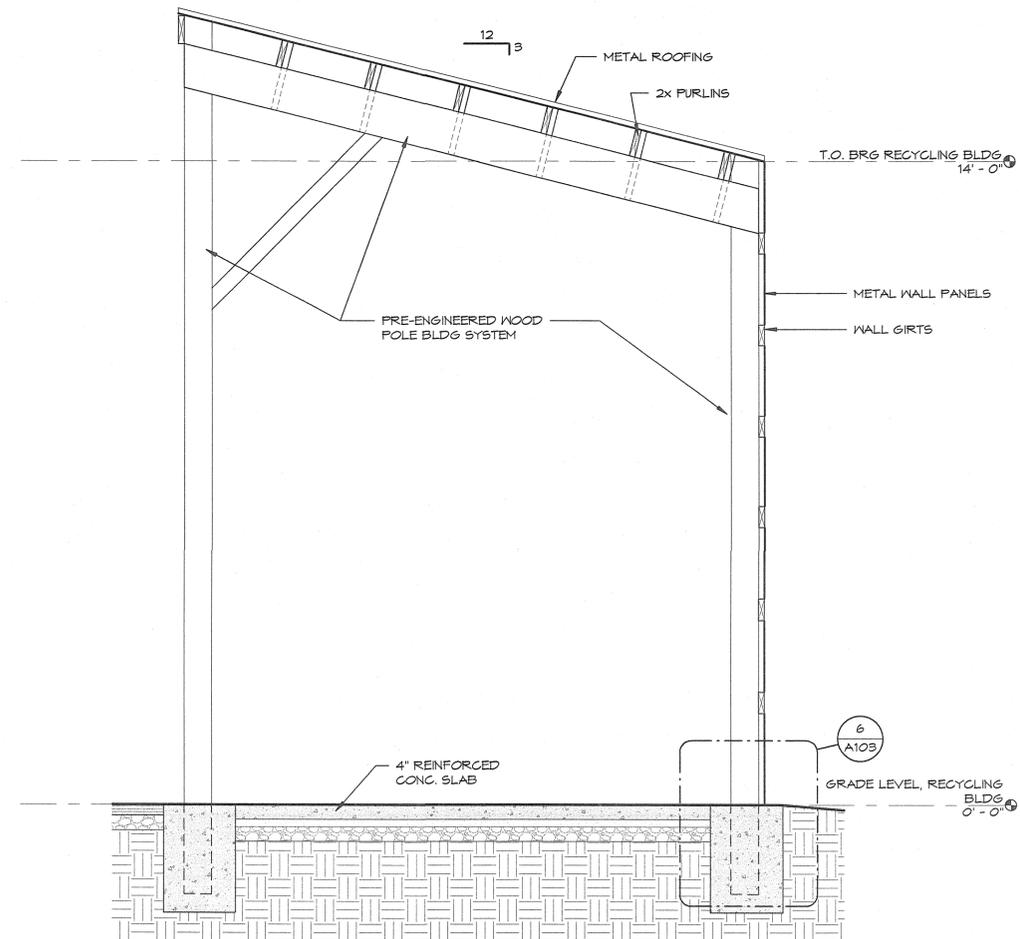
4 RECYCLING BLDG, SOUTH ELEVATION
1/8" = 1'-0"



5 ROOF PLAN - RECYCLING BLDG
1/8" = 1'-0"
PLAN NORTH



1 FLOOR PLAN - RECYCLING BUILDING
1/8" = 1'-0"
PLAN NORTH



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

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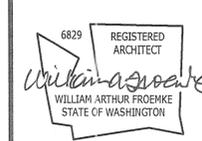
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SHEET TITLE
RECYCLING BUILDING PLANS, SECTIONS & ELEVATIONS

PROJECT TITLE
GRANT COUNTY LANDFILL COMPLEX

EPHRATA, WASHINGTON
GRANT COUNTY PUBLIC WORKS DEPARTMENT

SEAL



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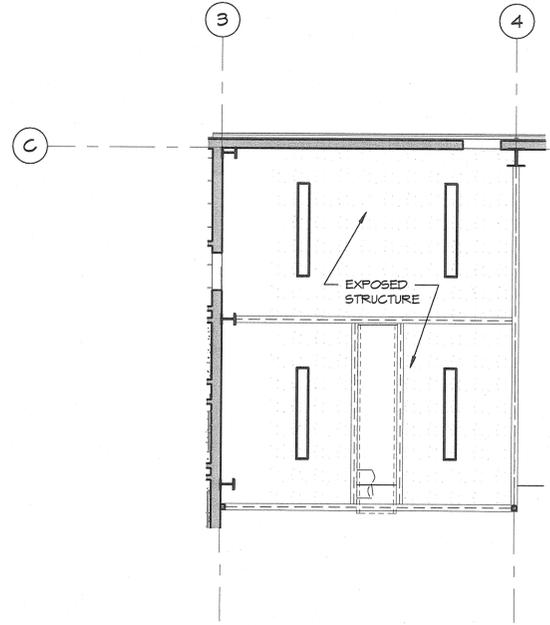
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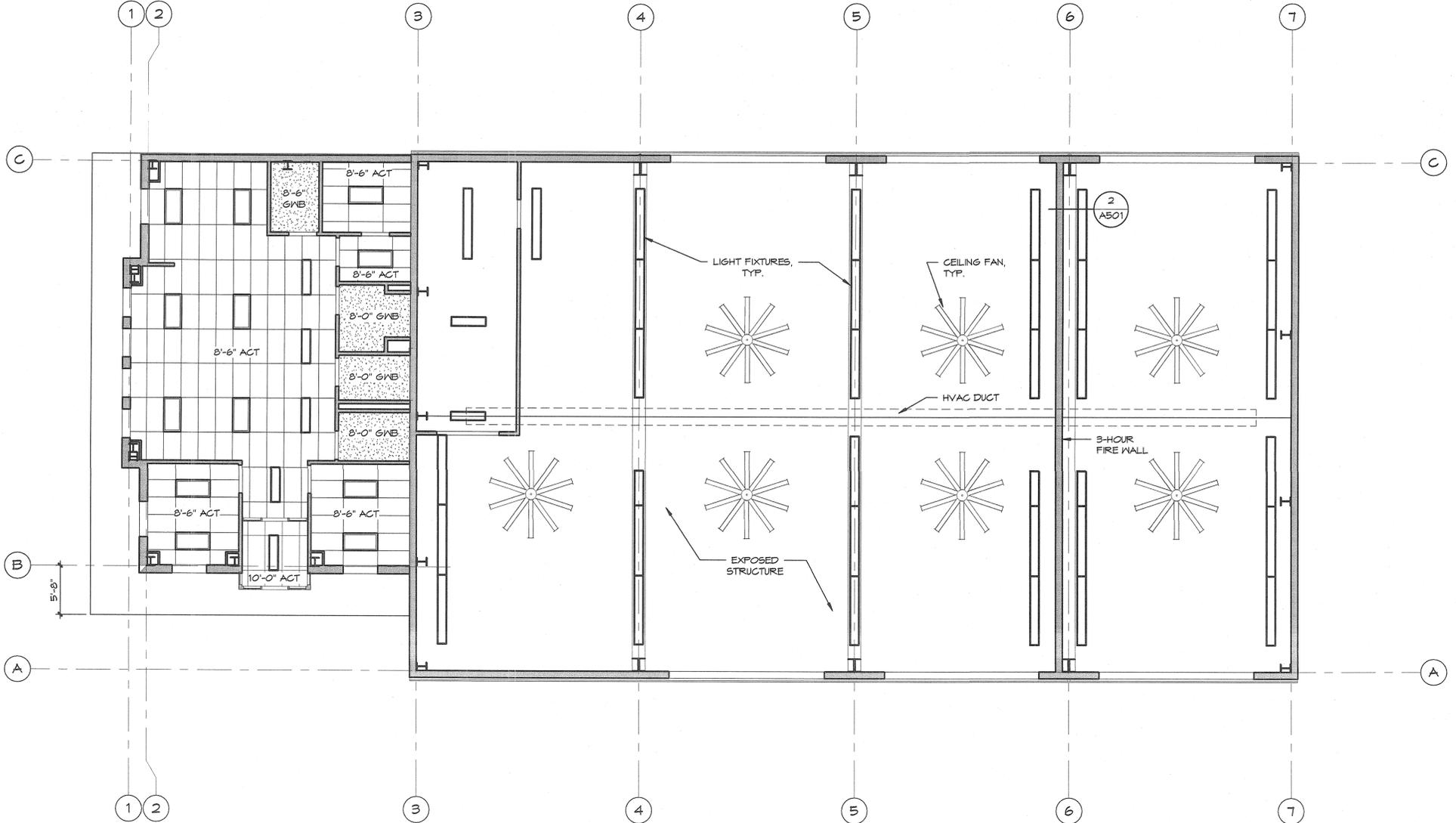
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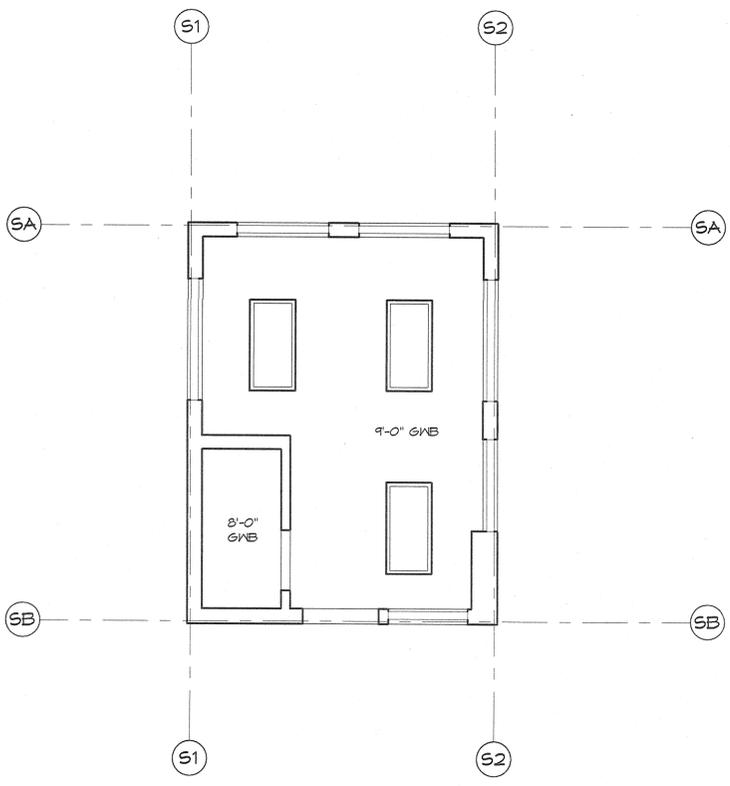
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3 REFLECTED CEILING PLAN, BELOW MEZZANINE
1/8" = 1'-0"



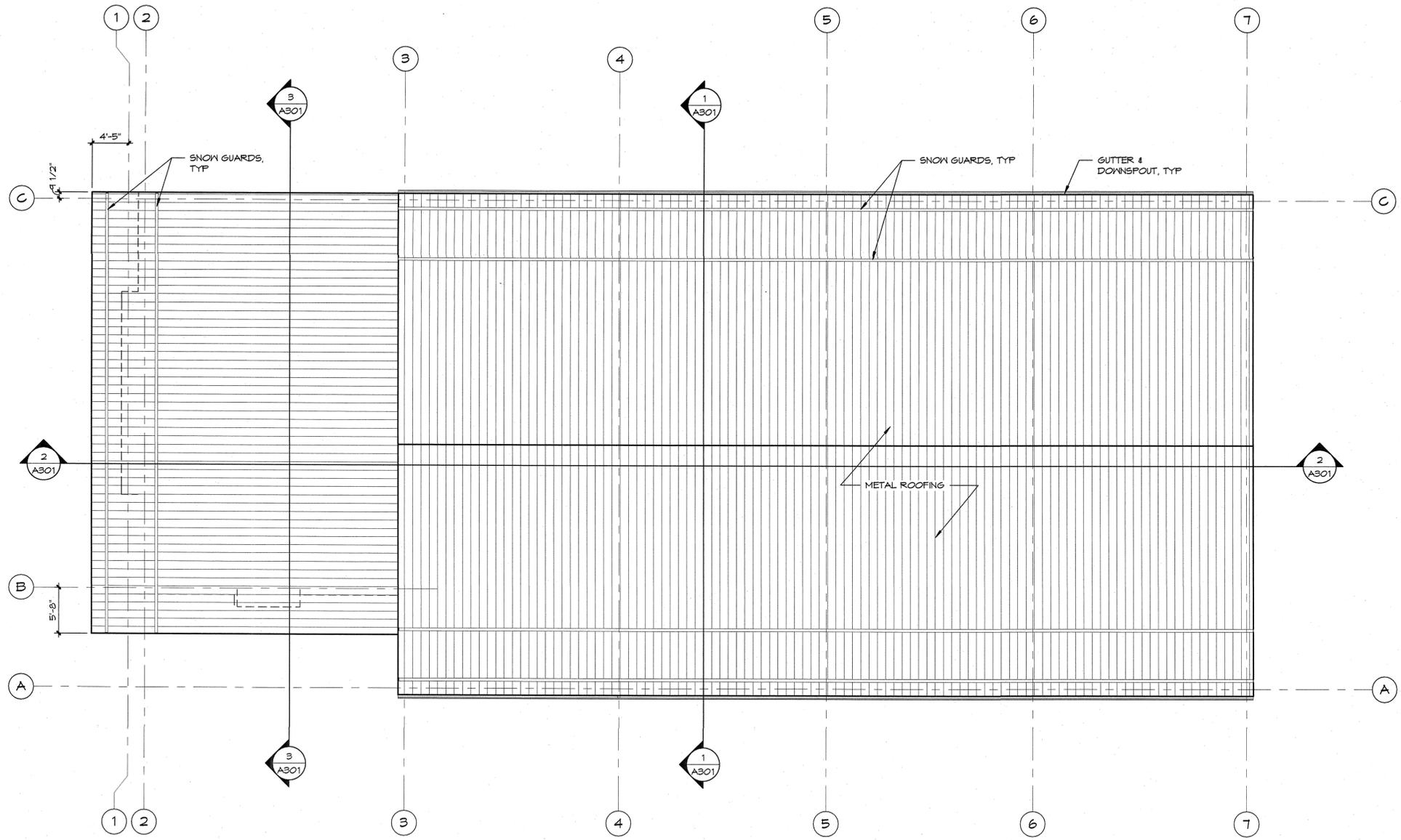
1 REFLECTED CEILING PLAN, SHOP
1/8" = 1'-0"



2 REFLECTED CEILING PLAN, SCALE HOUSE
1/4" = 1'-0"

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PROJECT TITLE	GRANT COUNTY LANDFILL COMPLEX EPHRATA, WASHINGTON GRANT COUNTY PUBLIC WORKS DEPARTMENT	
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PROJECT NO.	1009	
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1 ROOF PLAN - SHOP BUILDING
1/8" = 1'-0"

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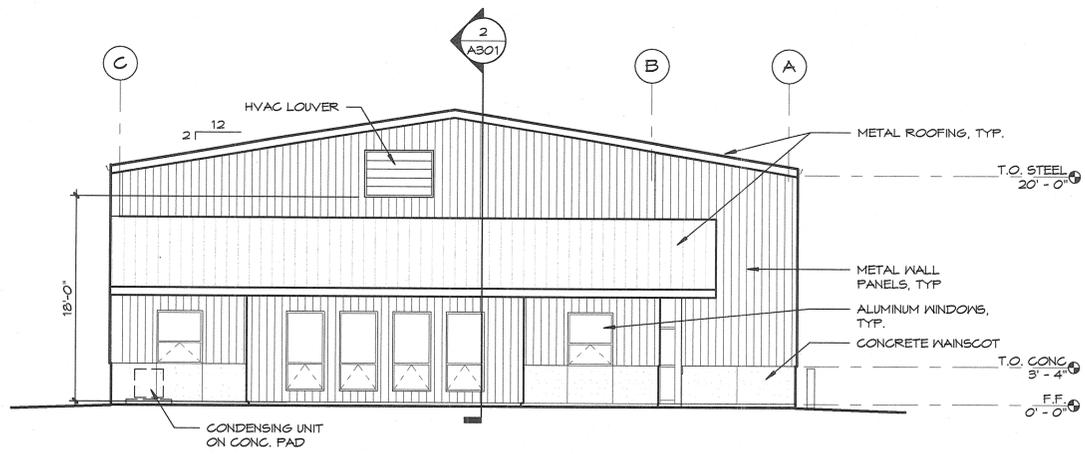
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PROJECT TITLE: GRANT COUNTY LANDFILL COMPLEX
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GRANT COUNTY PUBLIC WORKS DEPARTMENT

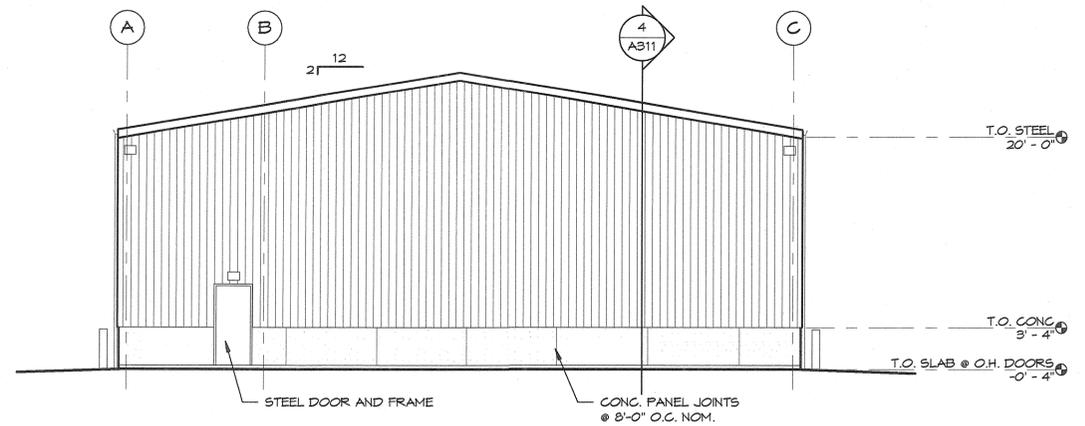
SEAL: 6829 REGISTERED ARCHITECT
William Arthur Froemke
WILLIAM ARTHUR FROEMKE
STATE OF WASHINGTON

PROJECT NO. 1009
DRAWN: RJJ/SEMB
CHECKED: WAF
DATE: 5/16/11

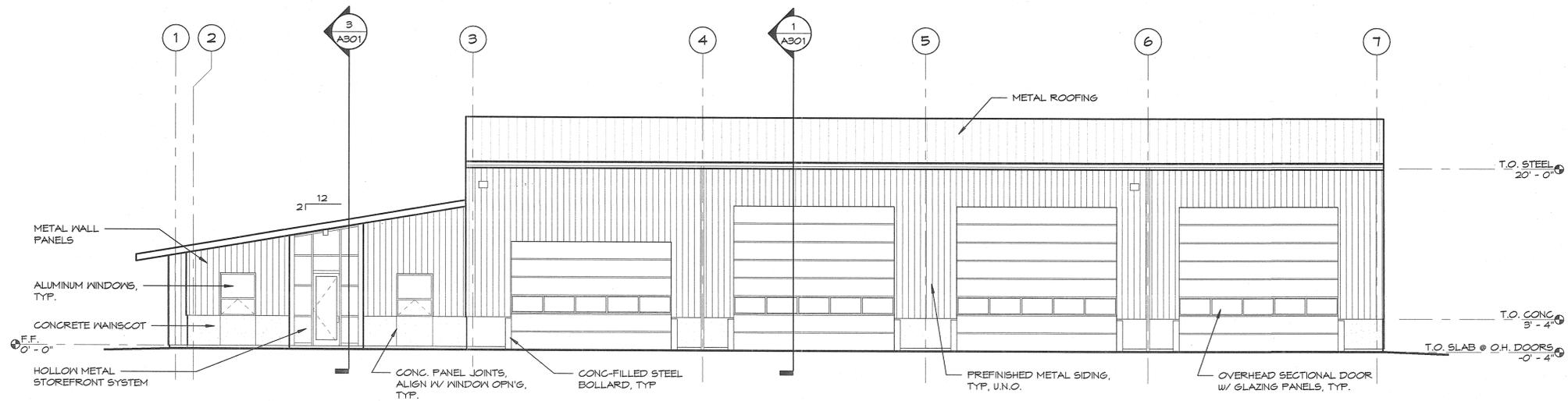
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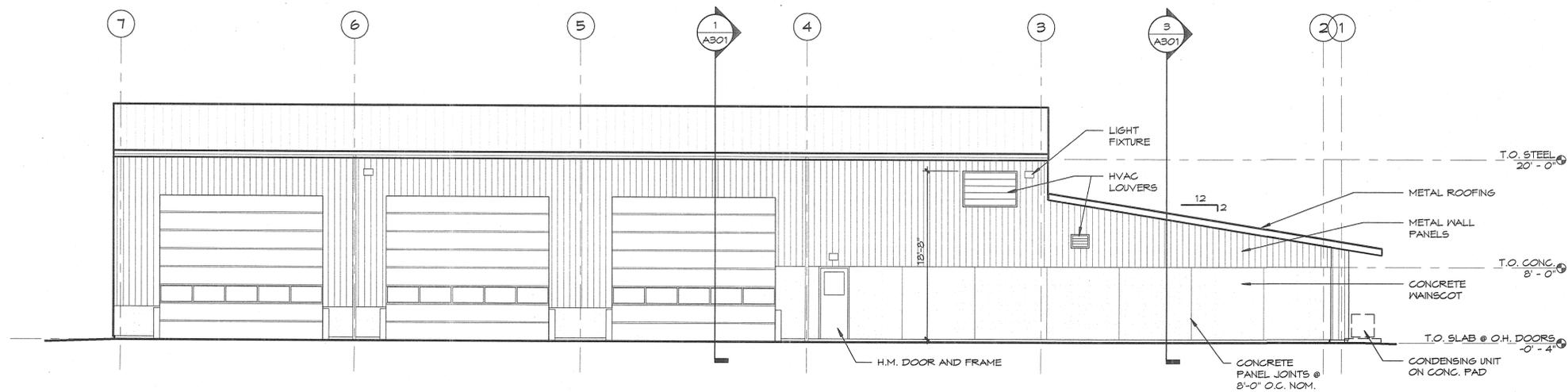
1 SHOP BLDG - WEST ELEVATION
1/8" = 1'-0"



3 SHOP BLDG - EAST ELEVATION
1/8" = 1'-0"



2 SHOP BLDG - SOUTH ELEVATION
1/8" = 1'-0"



4 SHOP BLDG - NORTH ELEVATION
1/8" = 1'-0"

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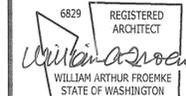


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SHOP BUILDING - EXTERIOR ELEVATIONS

PROJECT TITLE
GRANT COUNTY LANDFILL COMPLEX
EPHRAATA, WASHINGTON
GRANT COUNTY PUBLIC WORKS DEPARTMENT

SEAL



PROJECT NO. 1009

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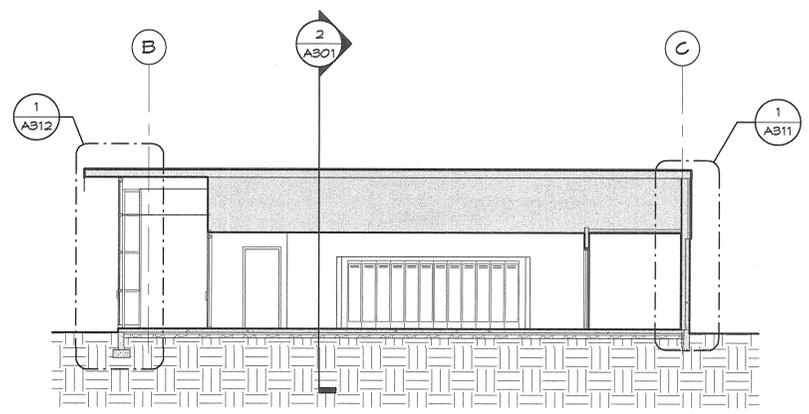
CHECKED: WAF

DATE: 5/16/11

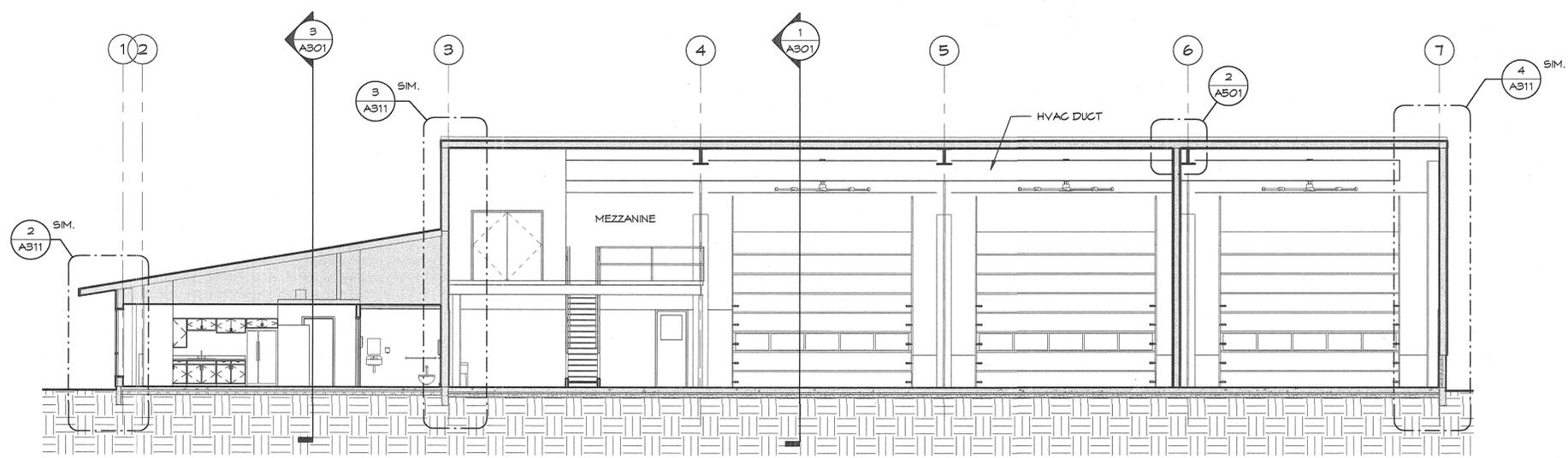
DRAWING NO.

A201

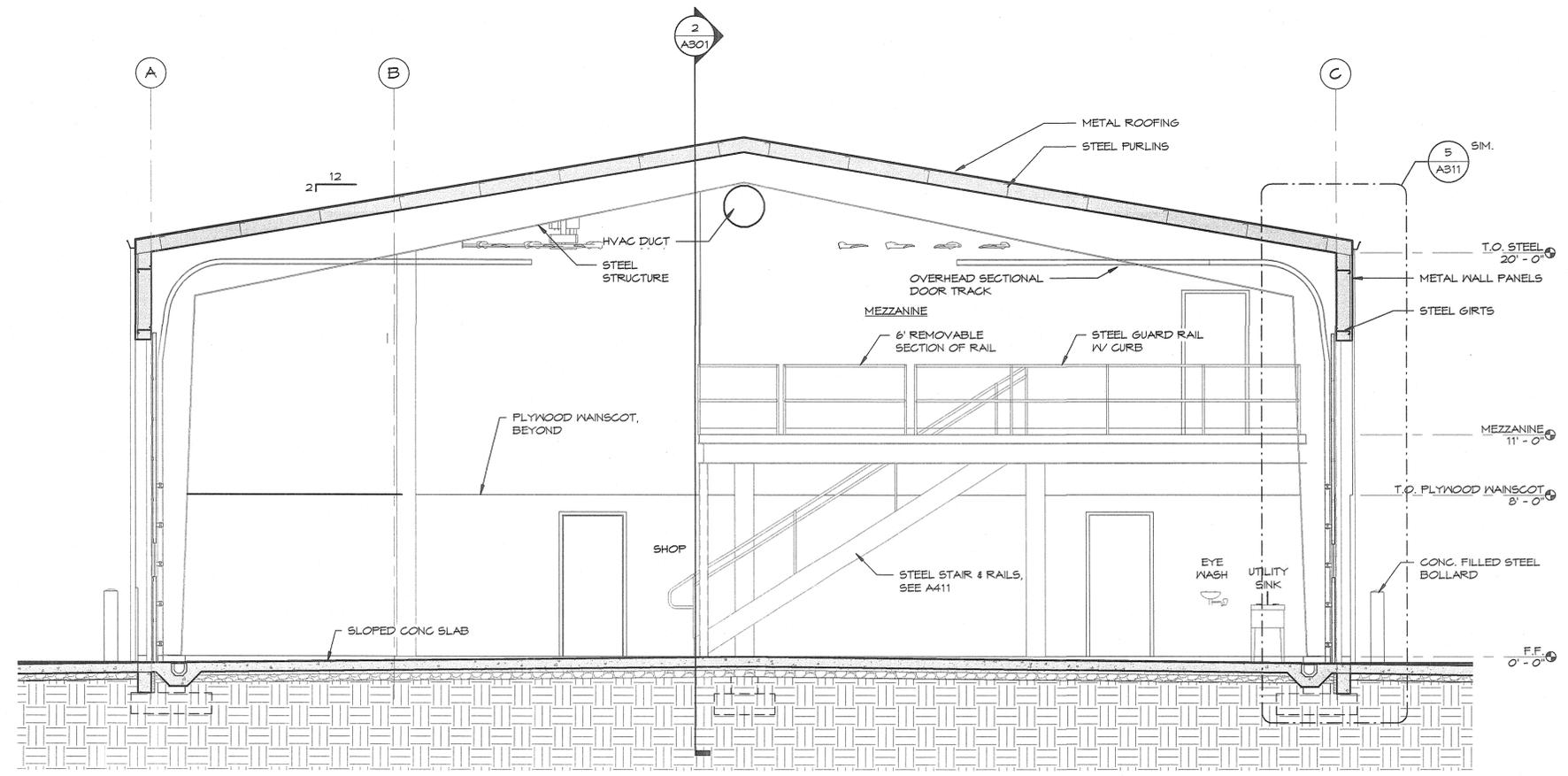
NO.	DATE	BY



3 SECTION - SHOP BUILDING..
1/8" = 1'-0"



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



1 SECTION - SHOP BUILDING.
1/4" = 1'-0"

6/1/2011 11:22:58 AM C:\REV\ITEM\1009\Grant County Landfill Complex.rvt

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SHOP BUILDING SECTIONS

PROJECT TITLE
GRANT COUNTY LANDFILL COMPLEX
EPHRATA, WASHINGTON
GRANT COUNTY PUBLIC WORKS DEPARTMENT

SHEET TITLE

SEAL

6829 REGISTERED ARCHITECT
William Arthur Froehke
WILLIAM ARTHUR FROEHKE
STATE OF WASHINGTON

PROJECT NO. 1009

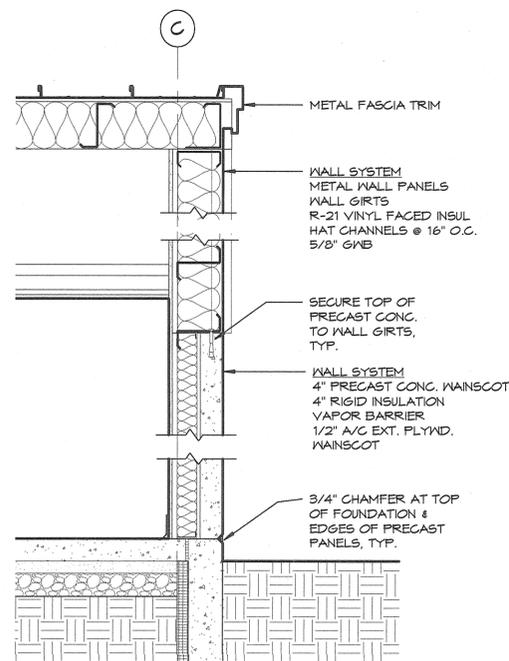
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CHECKED: WAF

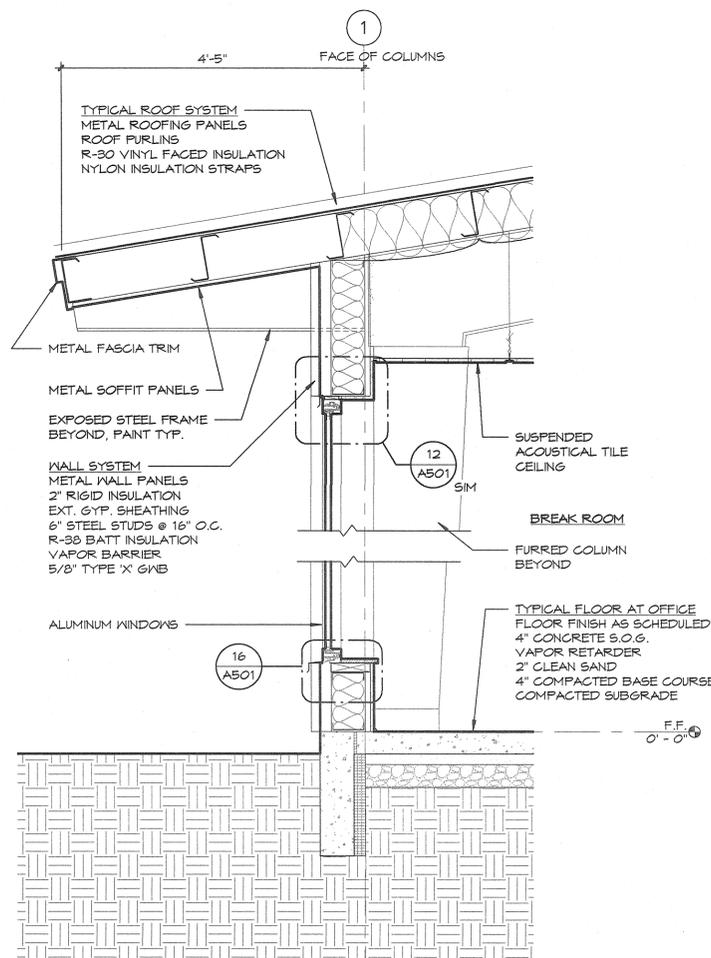
DATE: 5/16/11

DRAWING NO.

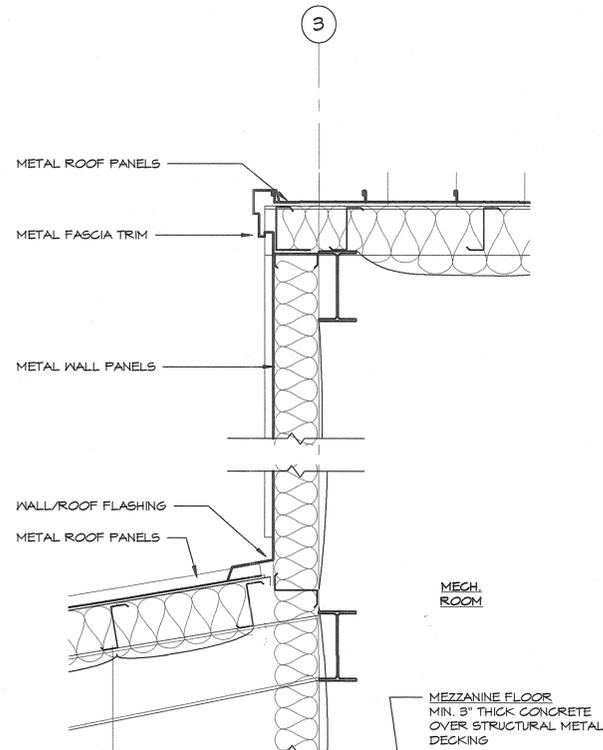
A301



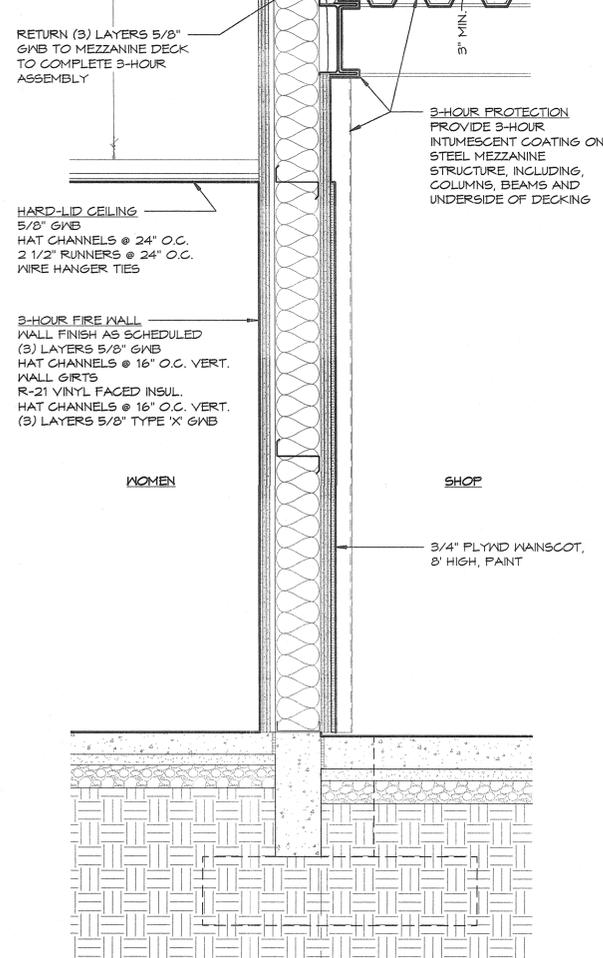
1 WALL SECTION A - SHOP BLDG
3/4" = 1'-0"



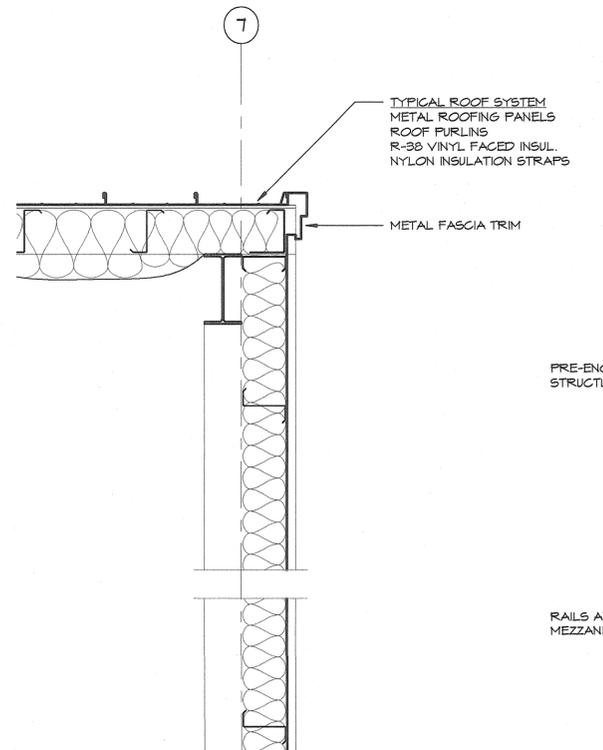
2 WALL SECTION B - SHOP BLDG
3/4" = 1'-0"



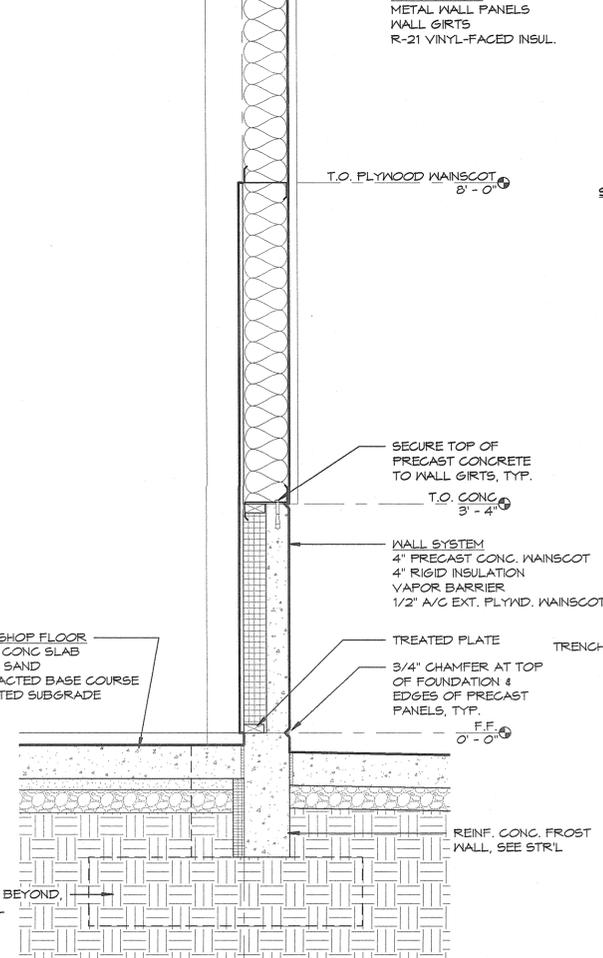
3 WALL SECTION C - SHOP BLDG
3/4" = 1'-0"



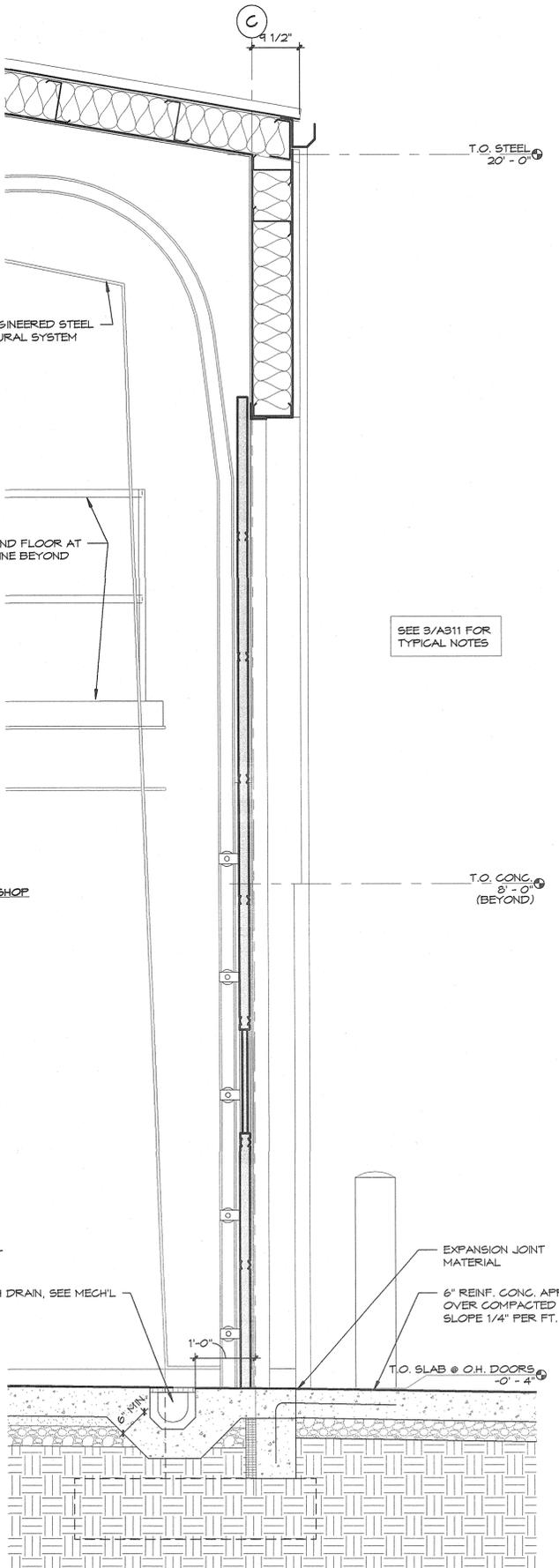
4 WALL SECTION D - SHOP BLDG
3/4" = 1'-0"



5 WALL SECTION E - SHOP BLDG
3/4" = 1'-0"



6 WALL SECTION F - SHOP BLDG
3/4" = 1'-0"

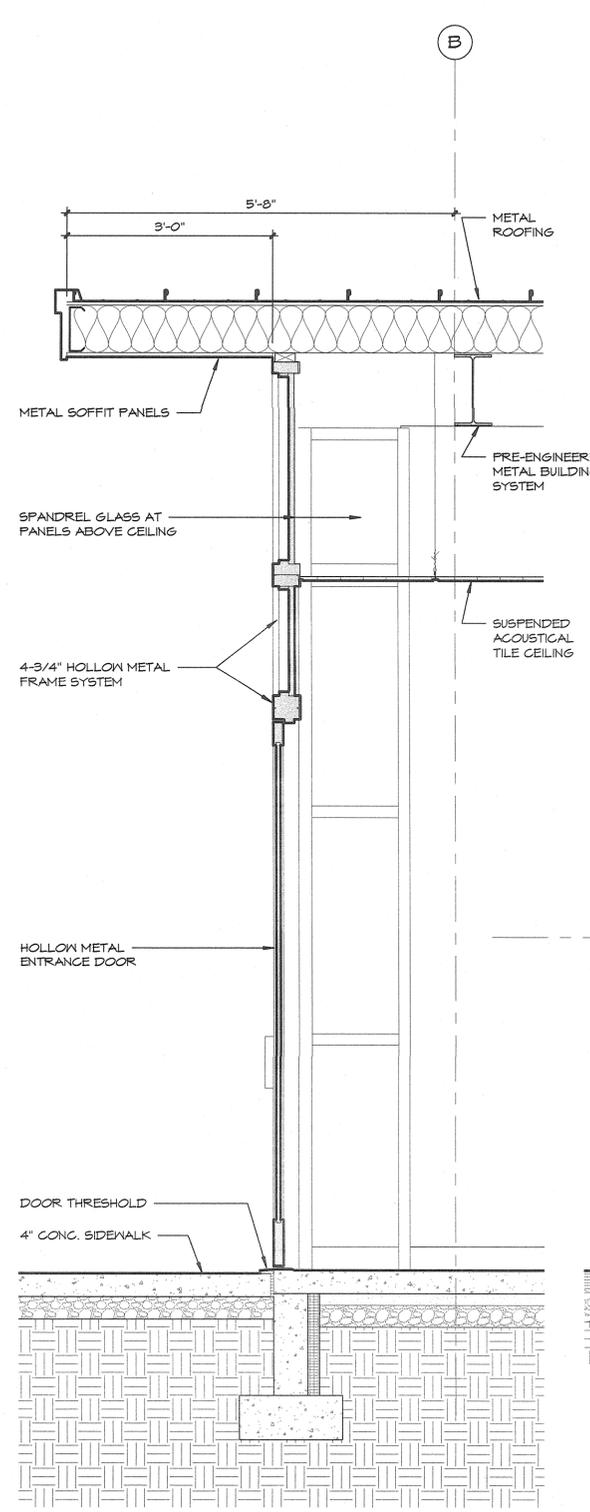


7 WALL SECTION G - SHOP BLDG
3/4" = 1'-0"

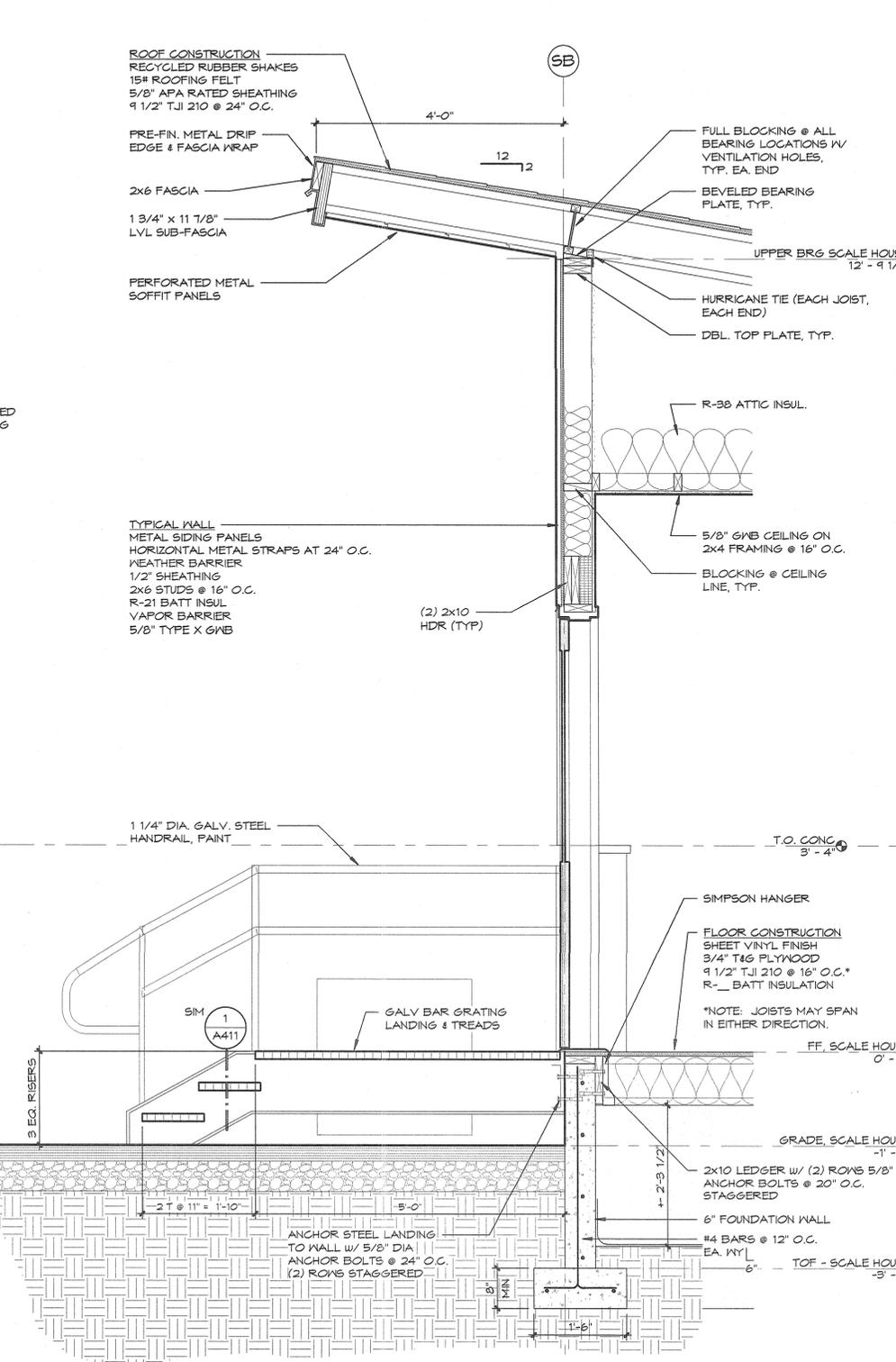
6/1/2011 11:29:02 AM C:\REVIT\BPR\1009 Grant County Landfill Complex.rvt

NO.	DATE	BY
REVISIONS		
ZECK BUTLER ARCHITECTS PS		
401 W. Riverside, Suite 800, Spokane, WA 99201 Phone: 509.325.8226 Fax: 509.325.7477 www.zackbutler.com		
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WALL SECTIONS GRANT COUNTY LANDFILL COMPLEX EPHRATA, WASHINGTON GRANT COUNTY PUBLIC WORKS DEPARTMENT		
SHEET TITLE		
PROJECT TITLE		
SEAL		
6829 REGISTERED ARCHITECT WILLIAM ARTHUR FROENKE STATE OF WASHINGTON		
PROJECT NO. 1009		
DRAWN: RSV/SEMB		
CHECKED: WAF		
DATE: 5/16/11		
DRAWING NO.		
A311		

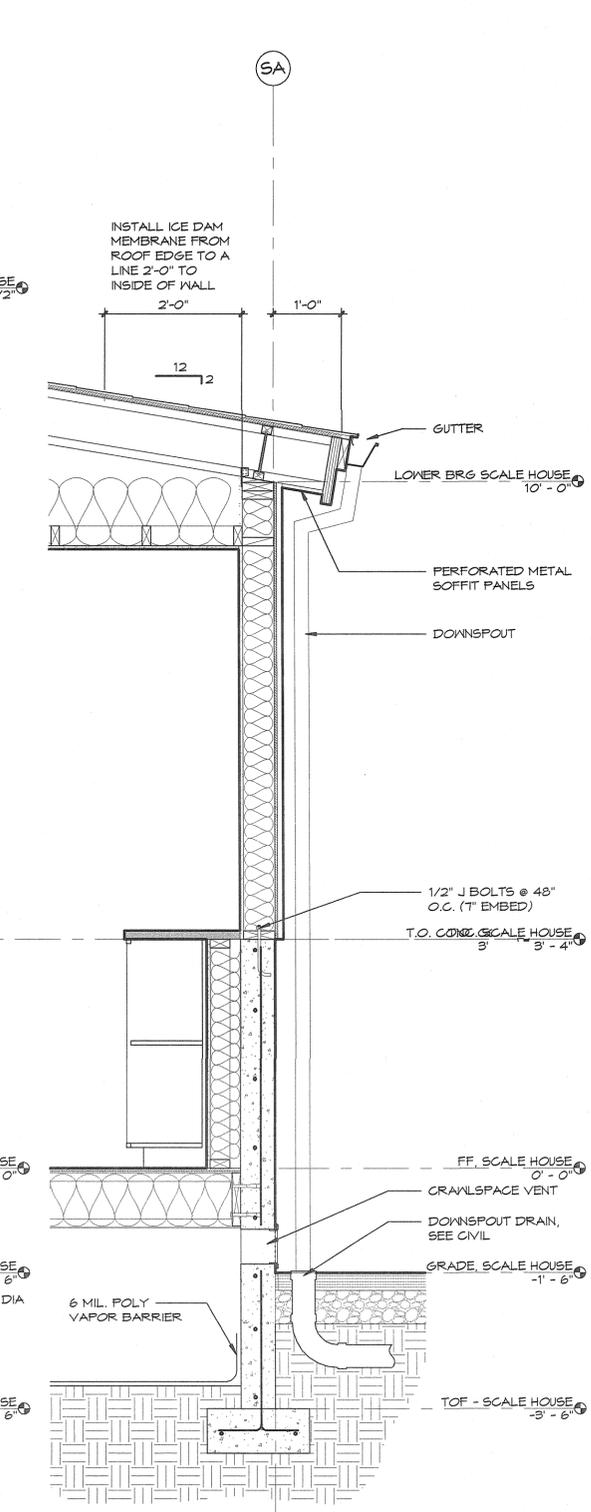
NO.	DATE	BY



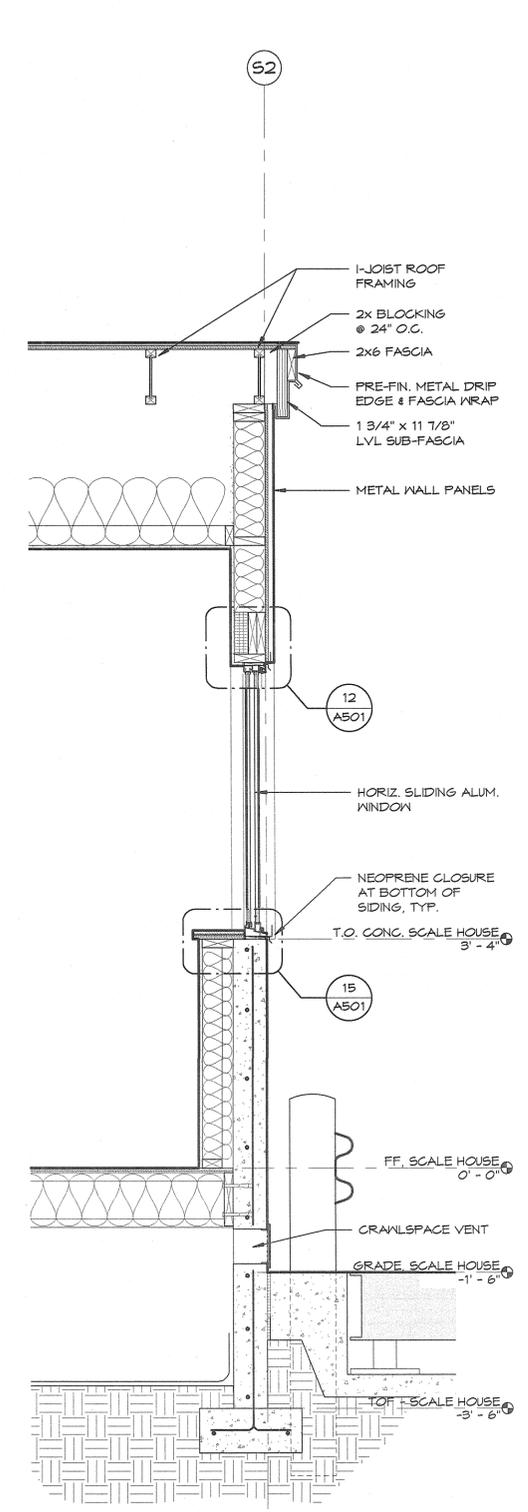
1 WALL SECTION F - SHOP BLDG
3/4" = 1'-0"



2 WALL SECTION G - SCALE HOUSE
3/4" = 1'-0"



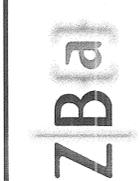
3 WALL SECTION H - SCALE HOUSE
3/4" = 1'-0"



4 WALL SECTION J - SCALE HS
3/4" = 1'-0"

6/1/2011 11:25:04 AM C:\REVIT\BMP\1004 Grant County Landfill Complex.rvt

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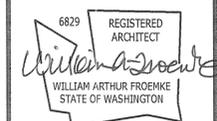


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WALL SECTIONS

GRANT COUNTY LANDFILL COMPLEX
EPHRAATA, WASHINGTON
GRANT COUNTY PUBLIC WORKS DEPARTMENT

SHEET TITLE

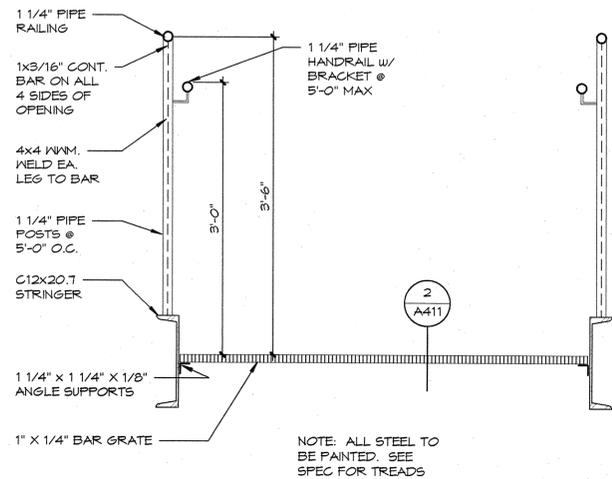


PROJECT NO. 1004
DRAWN: RSV/SEMB
CHECKED: WAF
DATE: 5/16/11
DRAWING NO.

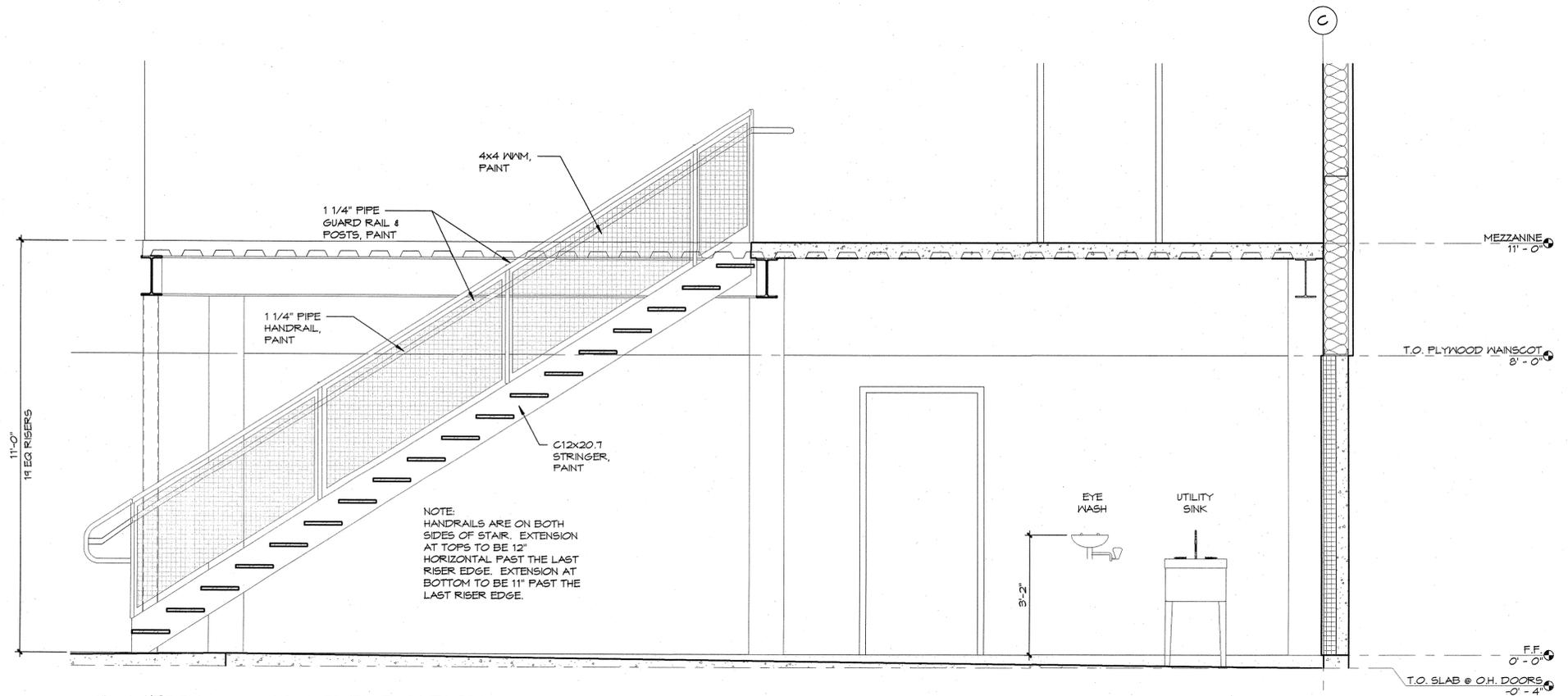
A312

6/1/2011 11:25:04 AM C:\REVIT\B\F\1009\Grant County Landfill Complex.rvt

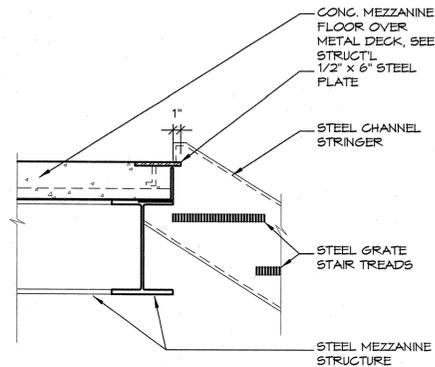
1 STEEL STAIR DETAIL
1" = 1'-0"



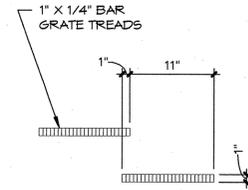
3 MEZZANINE STAIR ELEVATION
1/2" = 1'-0"



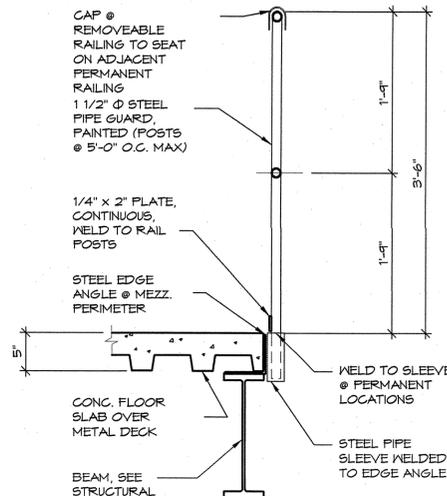
8 TOP OF STAIR
SCALE: 1"=1'-0" 1009-ST002



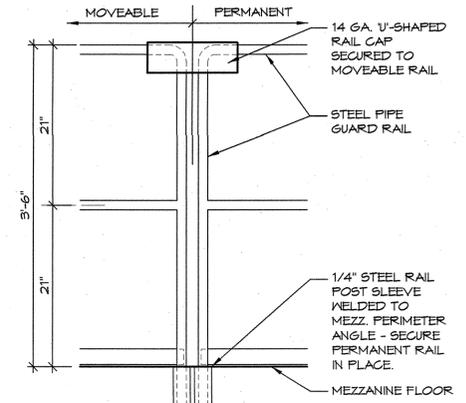
2 TREAD DETAIL
1" = 1'-0"



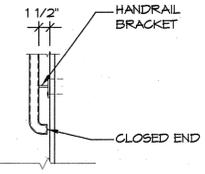
6 MEZZANINE GUARDRAIL
SCALE: 1"=1'-0" 1009-ST004



7 MEZZANINE GUARD RAIL
SCALE: 1"=1'-0" 1009-ST005



5 TYPICAL HANDRAIL TERMINATION AT ALL WALL CONDITIONS HANDRAIL
SCALE: 1"=1'-0" 1009-ST003



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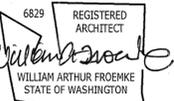
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STAIR SECTIONS AND DETAILS

SHEET TITLE

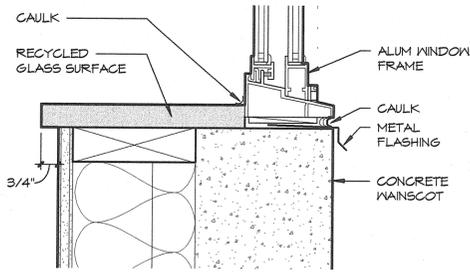
PROJECT TITLE
GRANT COUNTY LANDFILL COMPLEX
EPHRATA, WASHINGTON
GRANT COUNTY PUBLIC WORKS DEPARTMENT

SEAL

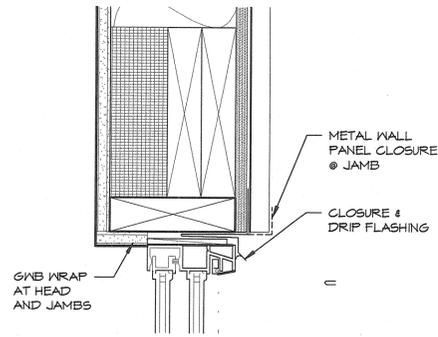


PROJECT NO. 1009
DRAWN: RJJ/SEMB
CHECKED: WAF
DATE: 5/16/11
DRAWING NO.

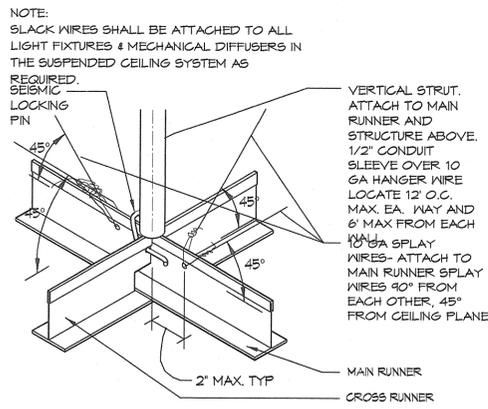
A411



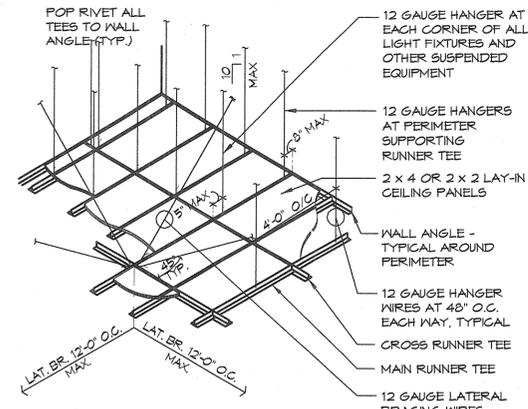
15 SILL @ CONC. WAINSCOT
3" = 1'-0"



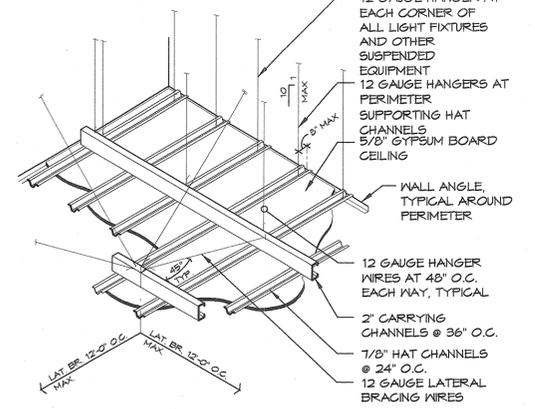
12 WINDOW HEAD
3" = 1'-0"



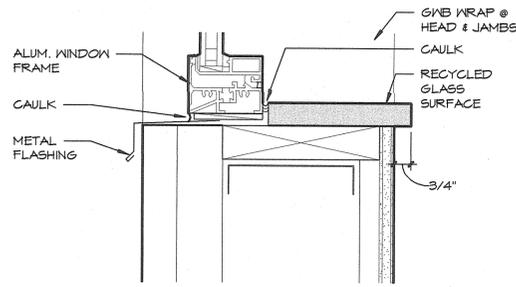
9 SEISMIC BRACING DETAIL
SCALE: 1/2"=1'-0" 1009-CL003



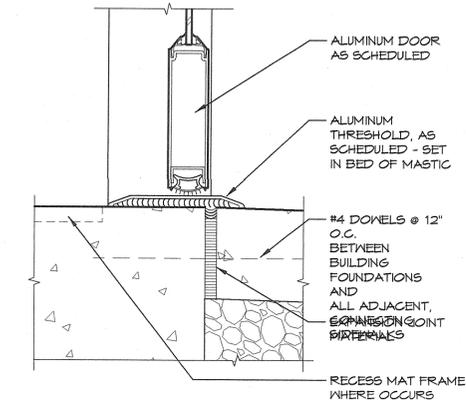
5 SUSP. ACOUSTICAL PANEL CLG
SCALE: NTS 1009-CL002



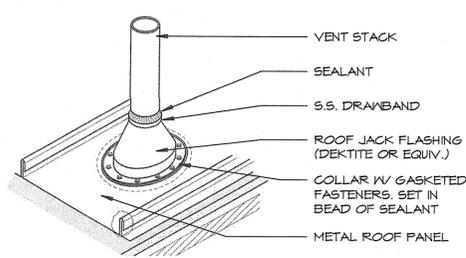
1 SUSP. GYPSUM BOARD CEILING
SCALE: NOT TO SCALE 1009-CL001



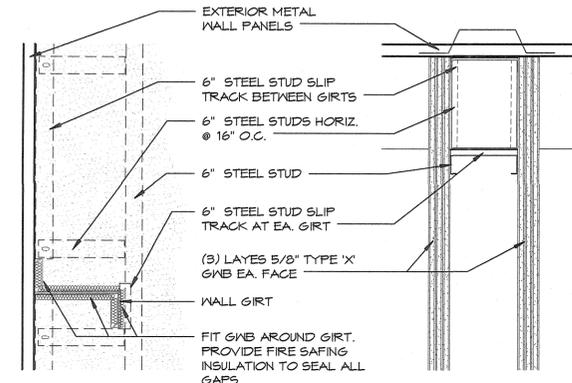
16 SILL @ METAL PANEL
3" = 1'-0"



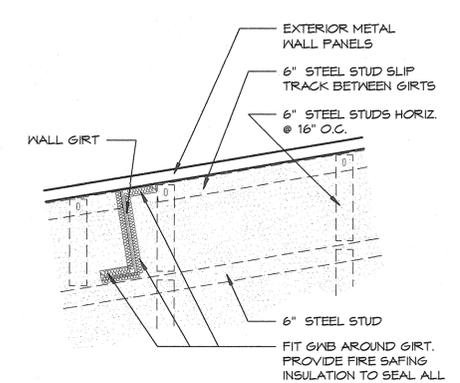
13 THRESHOLD @ EXT. DOOR
SCALE: 3/8"=1'-0" 1009-DR003



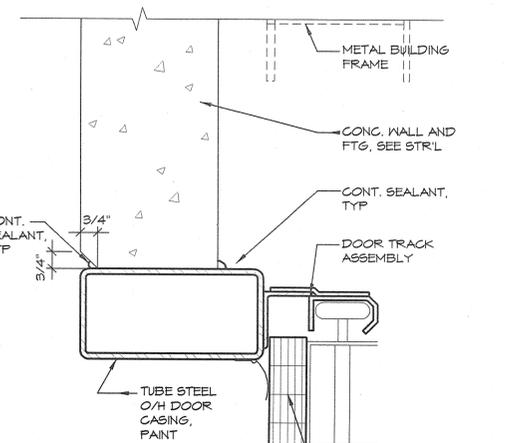
10 ROOF VENT FLASHING
3" = 1'-0"



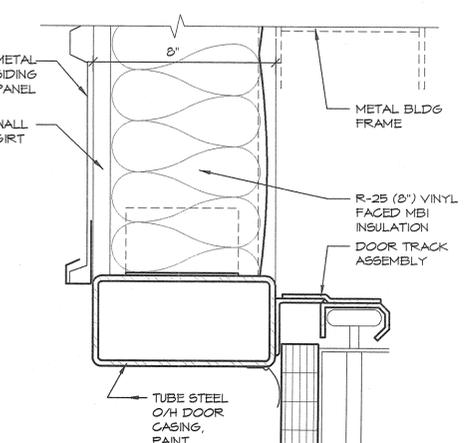
6 3-HR. WALL AT EXT. WALL
1 1/2" = 1'-0"



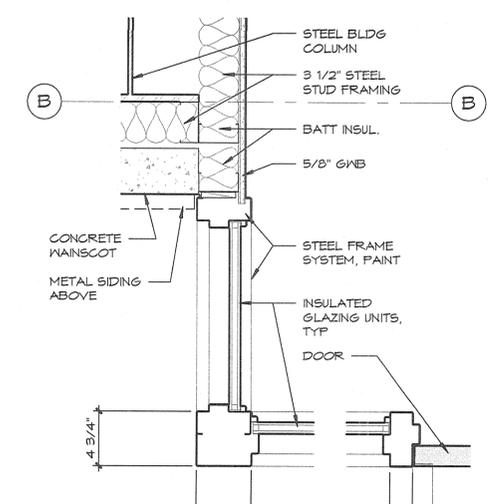
2 3-HR. WALL AT ROOF
1 1/2" = 1'-0"



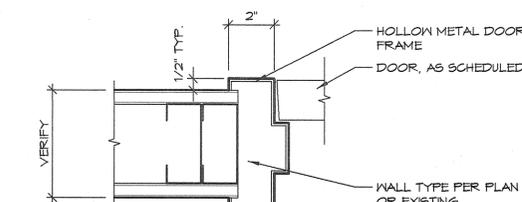
17 O.H. DOOR JAMB AT CONC. WALL
SCALE: 3/8"=1'-0" 1009-DR006



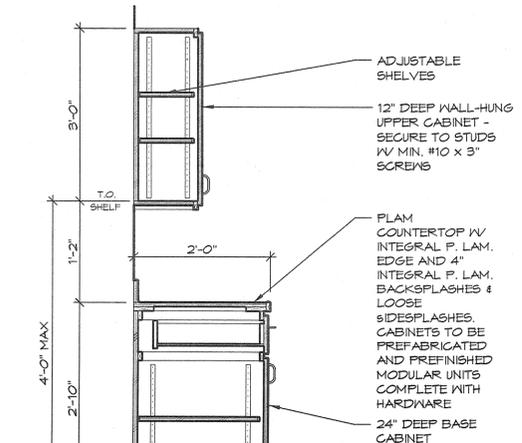
14 O.H. DOOR JAMB AT STUD WALL
SCALE: 3/8"=1'-0" (HEAD SIM) 1009-DR005



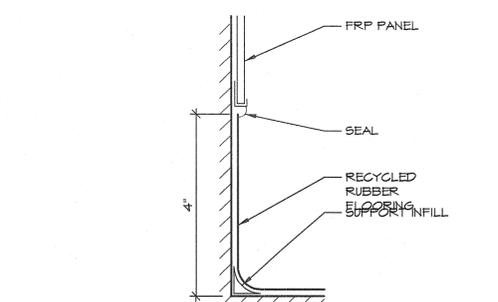
11 STEEL STOREFRONT FRMG
1 1/2" = 1'-0"



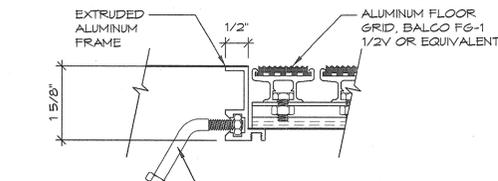
7 INTERIOR H.M. DOOR JAMB
SCALE: 3/8"=1'-0" (HEAD SIMILAR) 1009-DR001



8 TYPICAL WALL & BASE CABINET
SCALE: 3/4"=1'-0" 1009-CW001



3 COVED BASE
SCALE: 6"=1'-0" 1009-FI002



4 RECESSED ALUM FLOOR GRID
SCALE: 6"=1'-0" 1009-FR017

6/1/2011 11:23:17 AM C:\REV\ITTE\F10048 Grant County Landfill Complex.rvt

NO.	DATE	BY
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ZB&A		
ZECK BUTLER ARCHITECTS P.S.		
PROJECT TITLE GRANT COUNTY LANDFILL COMPLEX		
EPHRATA, WASHINGTON		
GRANT COUNTY PUBLIC WORKS DEPARTMENT		
SHEET TITLE DETAILS		
6829 REGISTERED ARCHITECT <i>William A. Froenke</i> WILLIAM ARTHUR FROENKE STATE OF WASHINGTON		
PROJECT NO. 1009		
DRAWN: RJJ/SMB		
CHECKED: WAF		
DATE: 5/16/11		
DRAWING NO.		
A501		

ROOM FINISH SCHEDULE														
NO.	NAME	FLR FIN	BASE MATL	NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL		CEILING		NOTES
				MATL	FIN	MATL	FIN	MATL	FIN	MATL	FIN	MATL	FIN	
101	VEST.	WOC	RB	GWB	PT	GWB	PT	GWB	PT	GWB	PT	GWB	PT	
102	OFFICE	RRF	RB	GWB	PT	GWB	PT	GWB	PT	GWB	PT	GWB	PT	
103	BREAK ROOM	RRF	RB	GWB	PT	GWB	PT	GWB	PT	GWB	PT	GWB	PT	
104	KITCHEN	SV	RB	GWB	PT	GWB	PT	GWB	PT	GWB	PT	GWB	PT	
105	STOR.	CONC SEAL		GWB	PT	GWB	PT	GWB	PT	GWB	PT	GWB	PT	
106	MECH.	CONC SEAL		GWB	PT	GWB	PT	GWB	PT	GWB	PT	GWB	PT	
107	VEST.	RRF	RB	GWB	PT	GWB	PT	GWB	PT	GWB	PT	GWB	PT	
108	LOCKERS	RRF	RB	GWB	PT	GWB	PT	GWB	PT	GWB	PT	GWB	PT	
109	SHOWER	SV	RB	FRP	FF	FRP	FF	FRP	FF	FRP	FF	FRP	FF	
110	MEN	SV	RB	FRP	FF	FRP	FF	FRP	FF	FRP	FF	FRP	FF	
111	WOMEN	SV	RB	FRP	FF	FRP	FF	FRP	FF	FRP	FF	FRP	FF	
112	OFFICE	RRF	RB	GWB	PT	GWB	PT	GWB	PT	GWB	PT	GWB	PT	
113	SHOP	CONC SEAL												
114	SHOP													
201	SCALE HOUSE	RRF	RB	GWB	PT	GWB	PT	GWB	PT	GWB	PT	GWB	PT	
202	TOILET	SV	RB	FRP	FF	FRP	FF	FRP	FF	FRP	FF	FRP	FF	
301	RECYCLING													
302	PAINTS													
M101	MEZZANINE													

NOTE: ALL EXPOSED STEEL TO BE SHOP PRIMED & FIELD PAINTED.

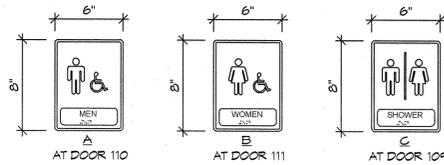
NOTES:

1. MOUNT EACH SIGN ON WALL ADJACENT TO THE DOOR INDICATED. CENTER OF SIGN SHALL BE 60" ABOVE THE FLOOR AND THE EDGE SHALL BE 2" FROM THE FRAME ON THE LATCH SIDE OF THE DOOR, UNLESS SHOWN OTHERWISE.

2. PROVIDE 1/32" RAISED GRAPHIC AND CHARACTERS FOR SIGNS INDICATED. COMPLY WITH WAC 51-40.

3. BRAILLE CHARACTERS REPRESENTED IN THIS DETAIL ARE FOR ILLUSTRATION PURPOSES ONLY AND DO NOT ACCURATELY DEPICT THE SIGNS TEXT. BRAILLE CHARACTERS SHALL BE INDICATED CORRECTLY ON SUBMITTED SHOP DRAWINGS TO CORRESPOND WITH MESSAGE ON SIGN.

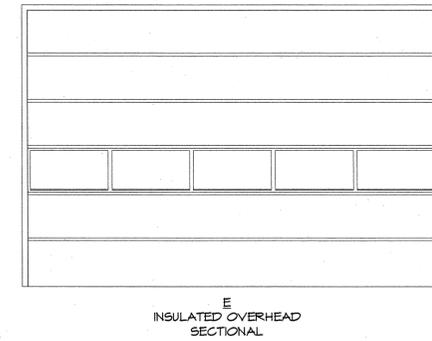
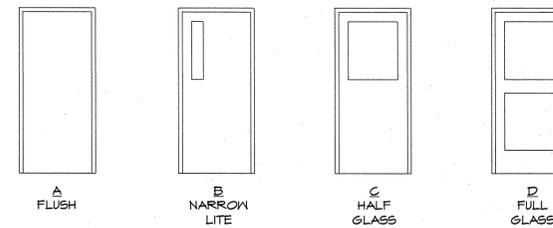
4. REFER TO SPECIFICATION SECTION 10431, "SIGNS" FOR ADDITIONAL INFORMATION.



1 TYPICAL PICTOGRAPHS
SCALE: NTS

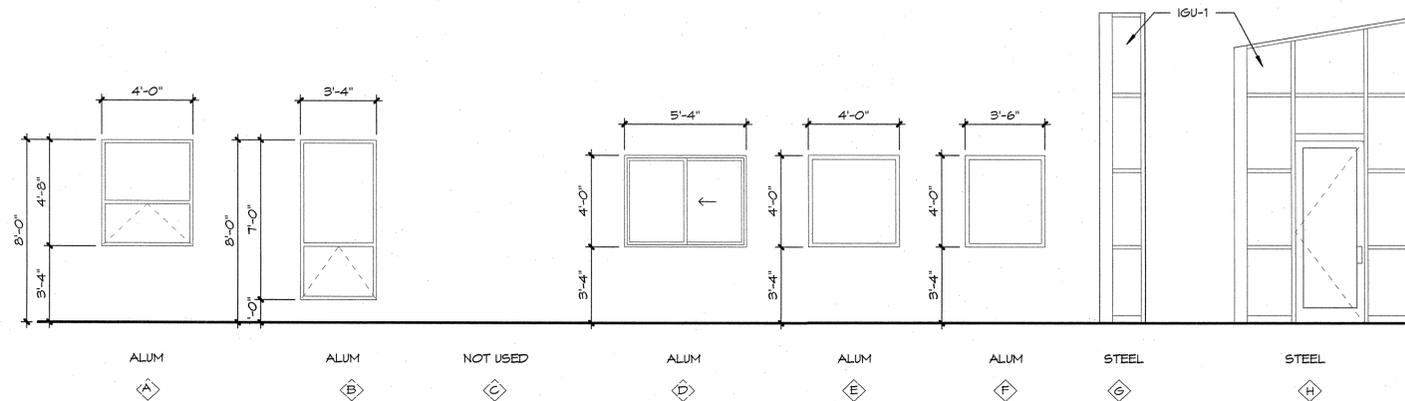
1009-F1004

DOOR SCHEDULE																	
NO.	W	H	T	TYPE	DOOR			FRAME		DETAIL			HDW GRP	NOTES			
					MATL	FIN	GLAZING	MATL	FIN	HEAD	JAMB	THRESHOLD					
101A	3'-0"	8'-0"	0'-1 3/4"	D	HM	PNT	IGU-2	HM	PNT	-	-	10/A501 SIM	1				
101B	3'-0"	8'-0"	0'-1 3/4"	D	HM	PNT	TEMP	HM	PNT	6/A501	6/A501	-	2				
102	3'-0"	7'-0"	0'-1 3/4"	A	SC WD	STN	NONE	HM	PNT	6/A501	6/A501	-	3				
105	3'-0"	7'-0"	0'-1 3/4"	A	SC WD	STN	NONE	HM	PNT	6/A501	6/A501	-	5				
106	3'-0"	7'-0"	0'-1 3/4"	A	SC WD	STN	NONE	HM	PNT	6/A501	6/A501	-	5				
107A	3'-0"	7'-0"	0'-1 3/4"	A	SC WD	STN	NONE	HM	PNT	6/A501	6/A501	-	2				
107B	3'-0"	7'-0"	0'-1 3/4"	A	HM	PNT	NONE	HM	PNT	-	-	10/A501	10	3-HR RATED ASSY			
104	3'-0"	7'-0"	0'-1 3/4"	A	SC WD	STN	NONE	HM	PNT	6/A501	6/A501	-	6	SIGN C			
110	3'-0"	7'-0"	0'-1 3/4"	A	SC WD	STN	NONE	HM	PNT	6/A501	6/A501	-	6	SIGN A			
111	3'-0"	7'-0"	0'-1 3/4"	A	SC WD	STN	NONE	HM	PNT	6/A501	6/A501	-	6	SIGN B			
112A	3'-0"	7'-0"	0'-1 3/4"	A	SC WD	STN	NONE	HM	PNT	6/A501	6/A501	-	3				
112B	3'-0"	7'-0"	0'-1 3/4"	A	HM	PNT	NONE	HM	PNT	-	-	10/A501	4	3-HR RATED ASSY			
113A	3'-0"	7'-10"	0'-1 3/4"	B	HM	PNT	IGU-2	HM	PNT	-	-	10/A501	7				
113B	18'-0"	16'-0"	0'-2"	E	STL	PNT	AS SPEC	STL	PNT	-	-	-	-				
113C	18'-0"	16'-0"	0'-2"	E	STL	PNT	AS SPEC	STL	PNT	-	-	-	-				
113D	18'-0"	16'-0"	0'-2"	E	STL	PNT	AS SPEC	STL	PNT	-	-	-	-				
113E	18'-0"	16'-0"	0'-2"	E	STL	PNT	AS SPEC	STL	PNT	-	-	-	-				
113F	18'-0"	12'-0"	0'-2"	E	STL	PNT	AS SPEC	STL	PNT	-	-	-	-				
114A	3'-0"	7'-0"	0'-1 3/4"	A	HM	PNT	NONE	HM	PNT	-	-	10/A501	10	3-HR RATED ASSY			
114B	18'-0"	16'-0"	0'-2"	E	STL	PNT	AS SPEC	STL	PNT	-	-	-	-				
114C	3'-0"	7'-0"	0'-1 3/4"	A	HM	PNT	NONE	HM	PNT	-	-	10/A501	7				
114D	18'-0"	16'-0"	0'-2"	E	STL	PNT	AS SPEC	STL	PNT	-	-	-	-				
201	3'-0"	7'-0"	0'-1 3/4"	C	HM	PNT	TEMP	HM	PNT	6/A501	6/A501	-	1				
202	2'-8"	7'-0"	0'-1 3/4"	A	SC WD	PNT	NONE	HM	PNT	6/A501	6/A501	-	6				
M102A	3'-0"	7'-0"	0'-1 3/4"	A	HM	PNT	NONE	HM	PNT	-	-	10/A501	8	3-HR RATED ASSY			
M102B	7'-0"	7'-0"	0'-1 3/4"	A*	HM	PNT	NONE	HM	PNT	6/A501	6/A501	-	9	*PAIR, 3-HR RATED ASSY			



DOOR TYPES

1/4" = 1'-0"



WINDOW TYPES

1/4" = 1'-0"

6/1/2011 11:23:18 AM C:\REVIT\TEMP\F1004 Grant County Landfill Complex.rvt

ZECK BUTLER ARCHITECTS PS



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SCHEDULES

PROJECT TITLE

GRANT COUNTY LANDFILL COMPLEX
EPHRATA, WASHINGTON
GRANT COUNTY PUBLIC WORKS DEPARTMENT

SEAL

6829 REGISTERED ARCHITECT
William Arthur Froehke
WILLIAM ARTHUR FROEHKE
STATE OF WASHINGTON

PROJECT NO. 1004

DRAWN: GEMB

CHECKED: MAF

DATE: 5/16/11

DRAWING NO.

A601

GENERAL NOTES

- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNOLOGIES, SEQUENCES AND PROCEDURES.
- THE CONTRACTOR IS RESPONSIBLE FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK THAT CONFORMS TO THE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) SAFETY AND HEALTH STANDARDS FOR THE CONSTRUCTION INDUSTRY.
- CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOF. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.
- WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.
- ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION. DO NOT PENETRATE ANY STRUCTURAL ELEMENTS (BEAMS, COLUMNS, WALLS, SLABS, STEEL DECK, ETC.) WITHOUT PRIOR WRITTEN APPROVAL OF STRUCTURAL ENGINEER THROUGH ARCHITECT.
- OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. THEY SHALL BE RESPONSIBLE FOR ALL CHANGES NECESSARY IF THEY CHOOSE AN OPTION AND THEY SHALL COORDINATE ALL DETAILS.
- NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.
- TYPICAL DETAILS ARE NOT CUT ON DRAWINGS, BUT APPLY UNLESS NOTED OTHERWISE.
- WHERE ANY DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.
- ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.
- CONTRACTOR SHALL COORDINATE ALL DIMENSIONS AND ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. DO NOT SCALE DRAWINGS, USE FIGURED DIMENSIONS ONLY.
- ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH RELATED WORK.
- VISITS TO THE JOBSITE BY THE ENGINEER TO OBSERVE CONSTRUCTION DO NOT IN ANY WAY MEAN THAT THEY ARE THE GUARANTORS OF THE CONTRACTORS WORK, NOR SUPERVISION, NOR SAFETY AT THE JOBSITE.
- REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS. REVIEW OF SUCH SHOP DRAWINGS BY THE ENGINEER SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR CORRECTNESS OF DIMENSIONS, FABRICATION DETAILS, SPACE REQUIREMENTS, AND ERRORS IN THE SHOP DRAWINGS, OR FOR DEVIATIONS FROM THE CONTRACT DRAWINGS OR SPECIFICATIONS UNLESS THE CONTRACTOR HAS SPECIFICALLY CALLED ATTENTION TO SUCH DEVIATIONS IN WRITING BY A LETTER ACCOMPANYING THE SHOP DRAWINGS AND THE ENGINEER APPROVES SUCH CHANGE OR DEVIATION IN WRITING.

DESIGN LOADS

- ROOF

LIVE LOAD	20 PSF
DEAD LOAD	20 PSF
WOOD TRUSS TOP CHORD	15 PSF
WOOD TRUSS BOTTOM CHORD	5 PSF
- FLOOR

LIVE LOAD	50 PSF
DEAD LOAD	61 PSF
CONCENTRATED FLOOR LIVE LOAD	2,000 LBS
- CORRIDORS AND STAIRS 100 PSF
- SNOW

EXPOSURE FACTOR	1.0
IMPORTANCE FACTOR	1.0
THERMAL FACTOR	1.0
ROOF SNOW LOAD	30 PSF
- WIND

BASIC WIND SPEED	85 MPH
EXPOSURE	C
IMPORTANCE FACTOR	1.0
COMPONENT AND CLADDING	21 PSF
- SEISMIC

USE GROUP	II
SITE CLASS	C
SEISMIC DESIGN CATEGORY	C
SPECTRAL RESPONSE COEFFICIENTS	
SHORT PERIOD S_{ps}	= 0.373g
1-SEC PERIOD S_{ps}	= 0.164g
- DEFLECTION CRITERIA

FLOOR DEFLECTION CRITERIA	L/360 FOR LL
FLOOR DEFLECTION CRITERIA	L/240 FOR TL
- SNOW LOADING

DESIGN BALANCED ROOF SNOW = 30 PSF, $I = 1.0$
 DESIGN UNBALANCED ROOF SNOW = 38 PSF ON ONE SIDE,
 AND 8 PSF ON OTHER SIDE. (LOADS ARE REVERSIBLE ABOUT THE RIDGE)
 DRIFTING AS REQUIRED PER CODE

CONCRETE

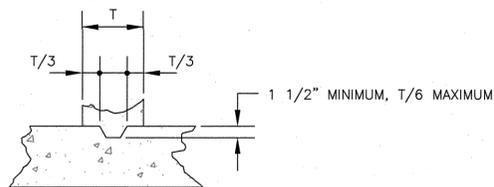
- CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE," AND ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE."
- ADDITION OF WATER TO THE BATCH FOR MATERIAL WITH INSUFFICIENT SLUMP WILL NOT BE PERMITTED, UNLESS THE SUPPLIER HAS SPECIFICALLY WITHHELD WATER FROM THE BATCH AT THE PLANT. IN SUCH CASE THE MIX DESIGN AND TRUCK TICKET MUST CLEARLY STATE THE MAXIMUM AMOUNT OF WATER THAT CAN BE ADDED TO THE BATCH ON SITE. IN NO CASE SHALL THE DESIGN WATER TO CEMENTITIOUS MATERIAL RATIO BE EXCEEDED.
- CONCRETE PROPERTIES:

CONCRETE USE UNLESS NOTE OTHERWISE, ALL CONCRETE SHALL BE	MINIMUM 28 DAY COMPRESSIVE STRENGTH	SLUMP AT PLACEMENT	WATER/CEMENTITIOUS RATIO
SLABS ON GRADE	4,000 PSI	4" +/- 1"	0.40
FOOTINGS	4,000 PSI	4" +/- 1"	0.45
MAT FOUNDATIONS	4,000 PSI	4" +/- 1"	0.45
WALLS	4,000 PSI	4" +/- 1"	0.45
- CONCRETE CONTAINING SUPERPLASTICIZING ADMIXTURE SHALL HAVE A SLUMP OF 4" +/- 1", TO BE FIELD VERIFIED, PRIOR TO ADDING ADMIXTURE, AND NOT EXCEEDING 8" AT PLACEMENT.
- MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THAT SLABS ON GRADE NEED BE VIBRATED ONLY AROUND UNDER-FLOOR DUCTS, SLAB EDGES, REINFORCING, KEYS, ETC.
- UNLESS APPROVED OTHERWISE IN WRITING BY THE ARCHITECT, ALL CONCRETE SLABS ON GRADE SHALL BE BOUND BY CONSTRUCTION JOINTS, KEYED OR SAW CUT, SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED 250 SQUARE FEET. KEYED CONSTRUCTION JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING. ALL OTHER JOINTS MAY BE SAW CUT. CAST CLOSURE POUR AROUND COLUMNS AFTER DEAD LOAD IS APPLIED.
- AT CONCRETE OVER STEEL DECK, ACTUAL CONCRETE VOLUMES MAY EXCEED THEORETICAL VOLUMES DUE TO CAMBER AND DEFLECTION. CONTRACTOR SHOULD MAKE ALLOWANCE FOR THIS IN THE BID. NO CLAIMS FOR ADDITIONAL CONCRETE VOLUMES WILL BE ALLOWED.
- IF CONCRETE IS PLACED BY THE PUMP METHOD, SUPPORTS SHALL BE PRODUCED FOR THE HOSE. THE HOSE SHALL NOT BE ALLOWED TO CONTACT THE REBAR OR TENDONS. THIS REQUIREMENT IS MANDATORY. DISCHARGE SHALL BE DIRECTED SO AS TO PREVENT DISPLACEMENT OF REBAR, TENDONS, OR ACCESSORIES.

CONCRETE REINFORCING

- ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
- REINFORCING SHALL BE CONTINUOUS AROUND ALL CORNERS UNLESS SHOWN OTHERWISE.
- THE FOLLOWING BAR SPLICE LAP LENGTHS SHALL BE USED AS A MINIMUM FOR ALL REINFORCING BARS UNLESS SHOWN OTHERWISE.

BAR SIZE	BAR SPLICE LAP LENGTH
NO. 4	2'-1"
NO. 5	2'-7"
NO. 6	3'-1"
- MAIN REINFORCEMENT CONCRETE COVER SHALL BE 1 1/2" WITH THE FOLLOWING EXCEPTIONS:
 - UNFORMED SURFACES EXPOSED TO EARTH - 3"
 - SLABS NOT EXPOSED TO EARTH OR WEATHER - 3/4"
- ALL HOOKS ON ALL BARS SHALL BE STANDARD 90 DEGREE HOOKS UNLESS SHOWN OTHERWISE.
- KEY DIMENSIONS SHALL BE AS SHOWN:



PRE-ENGINEERED BUILDINGS

- THE PEMB DESIGN SHALL INCLUDE ALL STRUCTURAL MEMBERS INCLUDING THE MEZZANINE BUT WITH THE EXCEPTION OF THE FOUNDATION. CALCULATIONS AND DRAWINGS MUST BE SUBMITTED TO THE ENGINEER OF RECORD TO UPDATE THE FOUNDATION DESIGN.
- BUILDING SHALL BE DESIGNED FOR ALL APPLICABLE LOADING CONDITIONS REQUIRED BY THE INTERNATIONAL BUILDING CODE.
- CONTRACTOR SHALL VERIFY THE GEOMETRIC SIZE OF ALL PILASTERS AND STEEL FRAME CONCRETE SUPPORTS ARE ADEQUATE TO ACCOMMODATE THE METAL BUILDING COLUMN BASE PLATES, WITH CONSIDERATION FOR MANUFACTURER REQUIRED CLEARANCES. ANY REQUIRED INCREASES IN SIZES OF FOUNDATION SHALL BE AT THE EXPENSE AND RESPONSIBILITIES OF THE CONTRACTOR. ANY CHANGES TO THE FOUNDATION SHALL BE APPROVED BY THE ENGINEER.
- CONTRACTOR TO COORDINATE ALL MECHANICAL UNITS AND PENETRATIONS THROUGH THE WALLS OF THE METAL BUILDING WITH ARCHITECTURAL AND MECHANICAL.
- BUILDING TO BE DESIGNED FOR A COLLATERAL ROOF DEAD LOAD OF 7 PSF.
- LIMIT MAIN FRAME VERTICAL DEFLECTIONS TO SPAN/240 FOR LIVE LOAD AND SPAN/180 FOR TOTAL LOAD. LIMIT PURLIN DEFLECTIONS TO SPAN/360 FOR LIVE LOAD AND SPAN/240 FOR TOTAL LOAD. LIMIT GIRT DEFLECTIONS TO SPAN/240 FOR WIND OR SEISMIC LOADS. LIMIT FRAME HORIZONTAL DEFLECTIONS TO H/200 FOR WIND AND H/180 FOR SEISMIC LOADING.

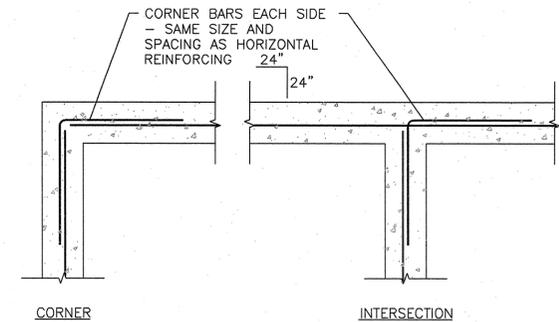
SPECIAL INSPECTION

SPECIAL INSPECTION AND TESTING SHALL BE PERFORMED BY THE OWNER IN ACCORDANCE WITH THE 2009 IBC CHAPTER 17.

CONTRACTOR SHALL PROVIDE A MINIMUM 24 HOUR NOTICE TO THE SPECIAL INSPECTOR PRIOR TO CONSTRUCTION WHICH WOULD RESTRICT INSPECTION OF THE ITEM.

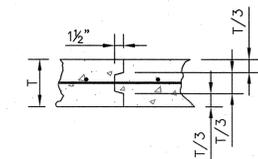
IN ADDITION TO THE REGULAR INSPECTIONS, THE FOLLOWING ITEMS WILL REQUIRE A SPECIAL INSPECTION IN ACCORDANCE WITH SECTION 1704 OF THE 2006 IBC.

REMARKS	ITEM
STRUCTURAL CONCRETE FOUNDATION	DURING CONCRETE PLACEMENT
REINFORCING BARS	PRIOR TO CONCRETE PLACEMENT
FOUNDATION SOILS	VERIFICATION OF SITE FOUNDATION SOILS PER SOILS REQUEST
STEEL ERECTION/CONNECTIONS/WELDING	AS REQUIRED PER IBC

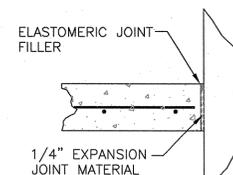


5G CORNER WALL REINFORCING

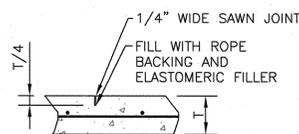
NTS TYPICAL



SLAB CONSTRUCTION JOINT



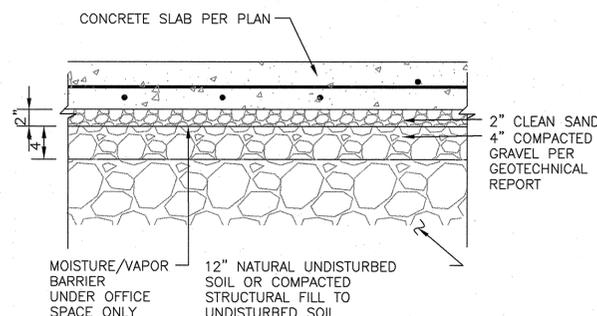
EXPANSION JOINT



SLAB CONTROL JOINT

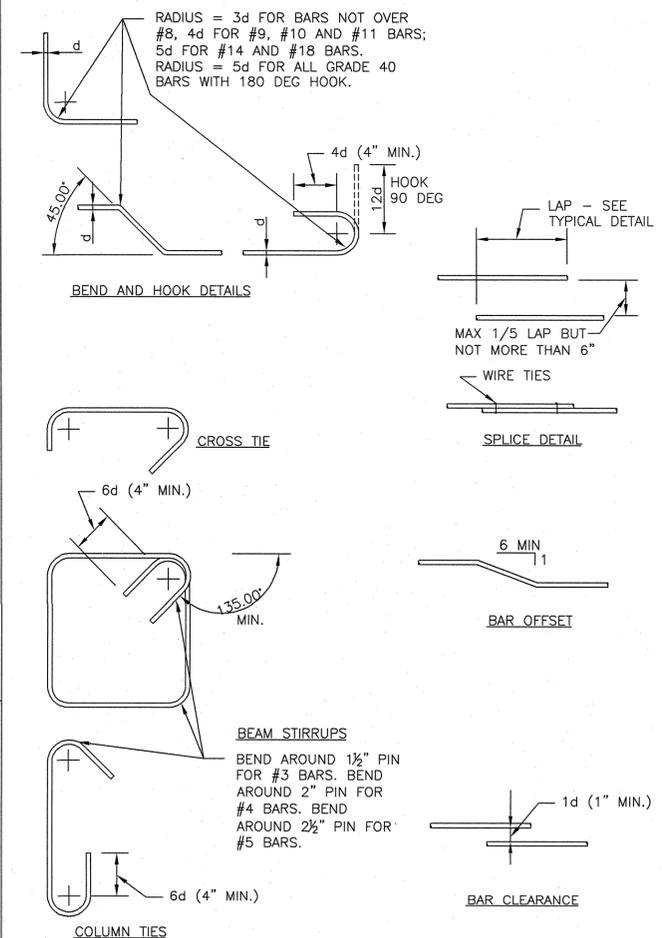
3E JOINT DETAILS

NTS TYPICAL



1E SLAB SECTION

NTS



2G REINFORCING DETAILS

NTS TYPICAL

SHEET INDEX

S100	STRUCTURAL NOTES AND DETAILS
S200	FOUNDATION PLAN
S300	CONSTRUCTION DETAILS

NO.	DATE	BY
REVISIONS		



THOMAS, DEAN & HOSKINS, INC.
 ENGINEERING CONSULTANTS
 GREAT FALLS-BOZEMAN-KALISPELL
 SPOKANE
 WASHINGTON
 IDAHO
 LEWISTON

ZECK BUTLER ARCHITECTS PS



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STRUCTURAL NOTES AND DETAILS

GRANT COUNTY LANDFILL COMPLEX
 EPHRATA, WASHINGTON
 GRANT COUNTY PUBLIC WORKS DEPARTMENT

SHEET TITLE

PROJECT TITLE

SEAL

DATE

DRAWN

CHECKED

DATE

DRAWING NO.

BID SET ONLY

NOT FOR CONSTRUCTION

PROJECT NO.

S10-014

DRAWN

TES

CHECKED

RRB

DATE

5-16-11

DRAWING NO.

S100

1A GENERAL STRUCTURAL NOTES

NTS

FOOTING (F) AND PEDESTAL (P) SCHEDULE

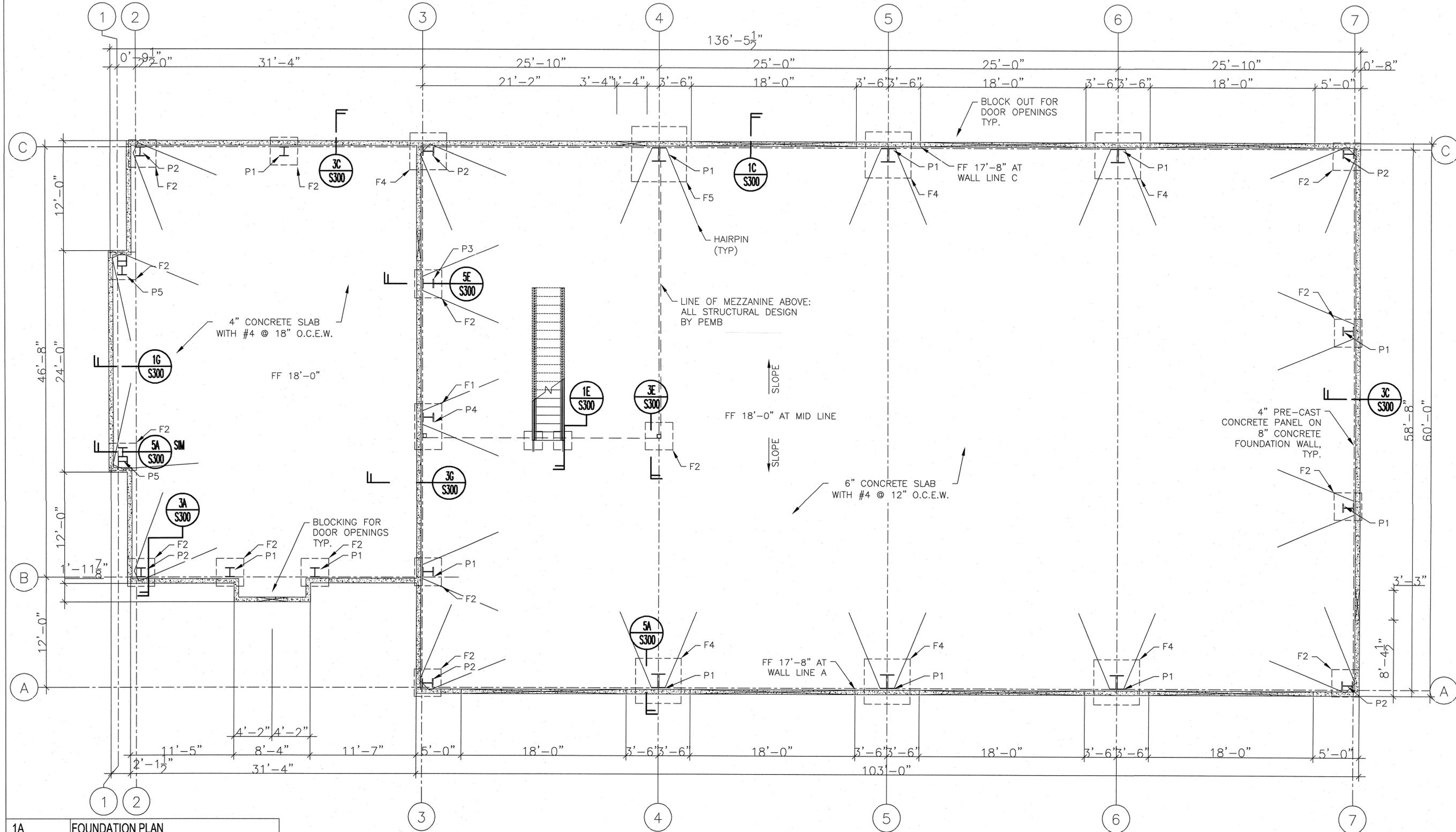
MARK	DIMENSION			NOTES	MARK	DIMENSION			REINFORCEMENT
	WIDTH (W)	LENGTH (L)	DEPTH (D)			WIDTH (W)	LENGTH (L)	DEPTH (D)	
P1	1'-6"	1'-6"	3'-0"	PER DETAIL 5C/S300	F1	3'-0"	5'-0"	1'-0"	#5 @ 12" O.C.E.W
P2	1'-6"	2'-4"	3'-0"	PER DETAIL 3A/S300	F2	3'-0"	3'-0"	1'-0"	(4) #5 BARS EA. WAY
P3	1'-6"	1'-6"	3'-0"	PER DETAIL 5C/S300	F3	4'-0"	4'-0"	1'-0"	(5) #5 BARS EA. WAY
P4	3'-0"	1'-6"	3'-0"	SIM TO DETAIL 5C/S300	F4	5'-0"	5'-0"	1'-0"	(6) #5 BARS EA. WAY
P5	2'-4"	2'-4"	3'-0"	PER DETAIL 5C/S300	F5	6'-0"	6'-0"	1'-0"	(7) #5 BARS EA. WAY

CONTRACTOR NOTE:

THIS FOUNDATION DESIGN IS FOR BIDDING PURPOSES ONLY AND NOT FOR CONSTRUCTION. CONTRACTOR TO SUBMIT STRUCTURAL CALCULATIONS AND BUILDING DESIGN FROM PEMB TO TD&H A MINIMUM OF THREE WEEKS BEFORE CONSTRUCTION IS TO BEGIN.

GENERAL NOTES

- FOR BUILDING DESIGN AND STRUCTURAL DRAWINGS SEE PEMB.
- ALL DIMENSIONS AND ELEVATIONS ARE FURNISHED BY THE PEMB VENDOR. RESOLVE ANY DISCREPANCY WITH THE VENDOR. NOTIFY TD&H, INC., THROUGH CONTRACTOR OF ANY VARIATION FROM DIMENSIONS AND CONDITIONS SHOWN BY THIS DRAWING. CONTRACTOR IS RESPONSIBLE FOR VERIFYING DIMENSIONS AND COLUMN LAYOUT AND AVOIDING CONFLICTS WITH UTILITIES, CONDUITS, PIPES, UNDERGROUND OBSTRUCTIONS, ETC.
- REFER TO CONCRETE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- ALL FOUNDATIONS SHALL BEAR ON NATIVE SOIL CAPABLE OF 3,500 PSF ALLOWABLE BEARING PRESSURE. OTHERWISE CONSULT A GEOTECHNICAL ENGINEER.



NO. DATE BY REVISIONS

TD&H

THOMAS, DEAN & HOSKINS, INC.
ENGINEERING CONSULTANTS
GREAT FALLS - BOZEMAN - KALISPELL
MONTANA WASHINGTON IDAHO

ZECK BUTLER ARCHITECTS PS

ZB|a

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FOUNDATION PLAN

GRANT COUNTY LANDFILL COMPLEX
EPHRATA, WASHINGTON
GRANT COUNTY PUBLIC WORKS DEPARTMENT



BID SET ONLY
NOT FOR CONSTRUCTION

PROJECT NO. S10-014

DRAWN: TES

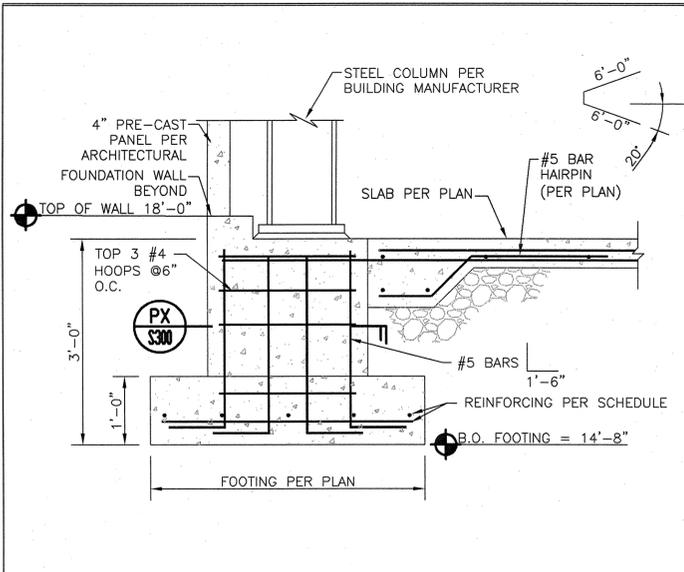
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DATE: 5-16-11

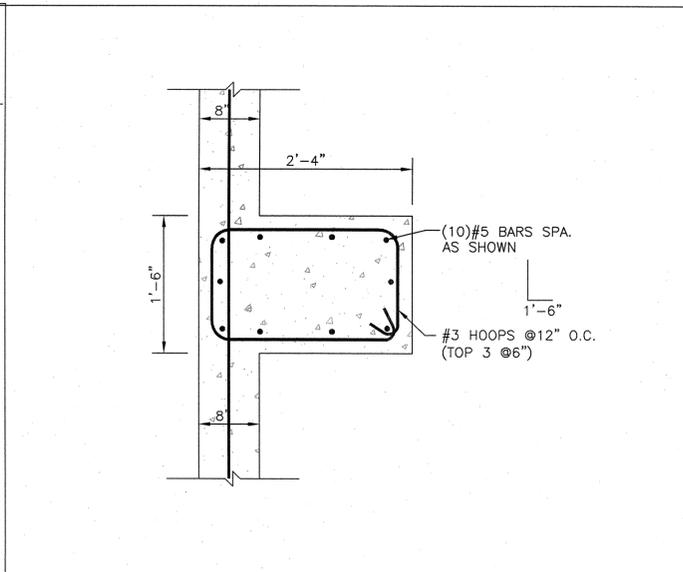
DRAWING NO.

S200

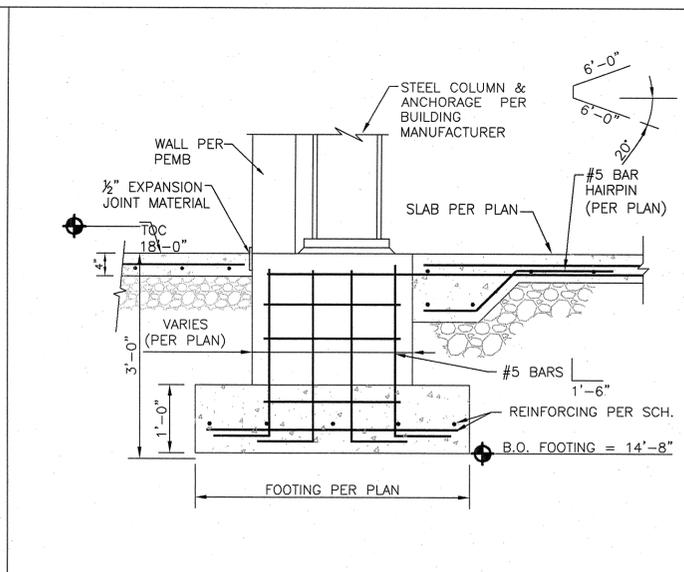
1A	FOUNDATION PLAN
3/16"=1'-0"	NOT FOR CONSTRUCTION



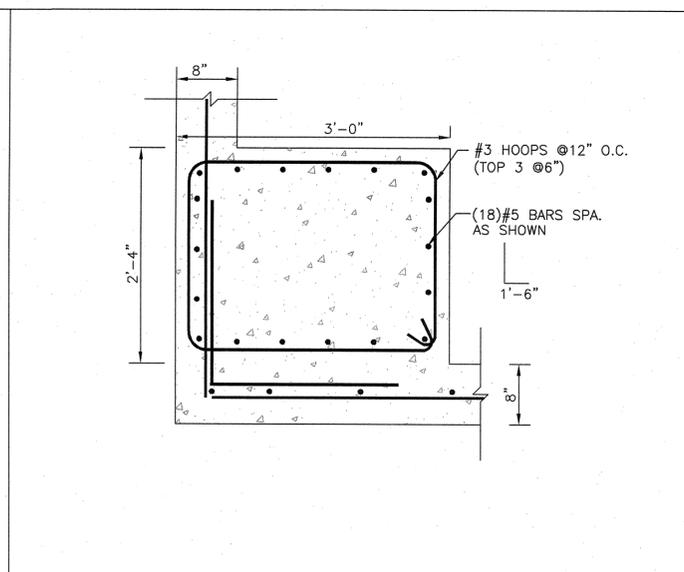
5A PEDESTAL SECTION
3/4"=1'-0"



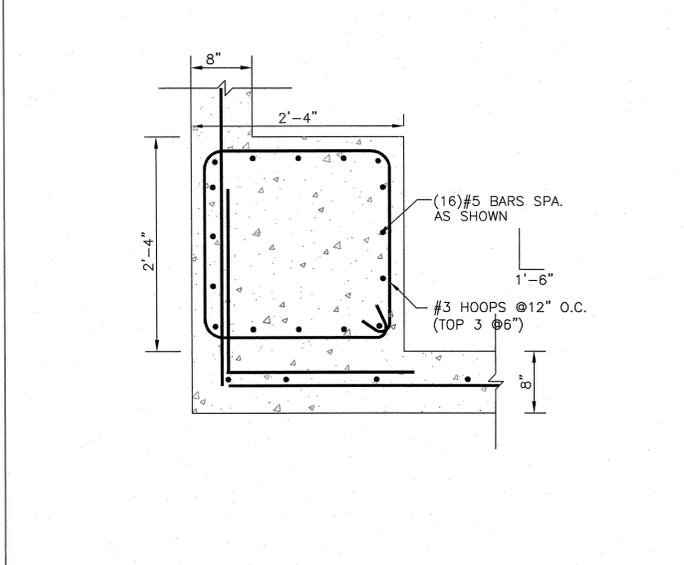
5C PEDESTAL PLAN
1"=1'-0"



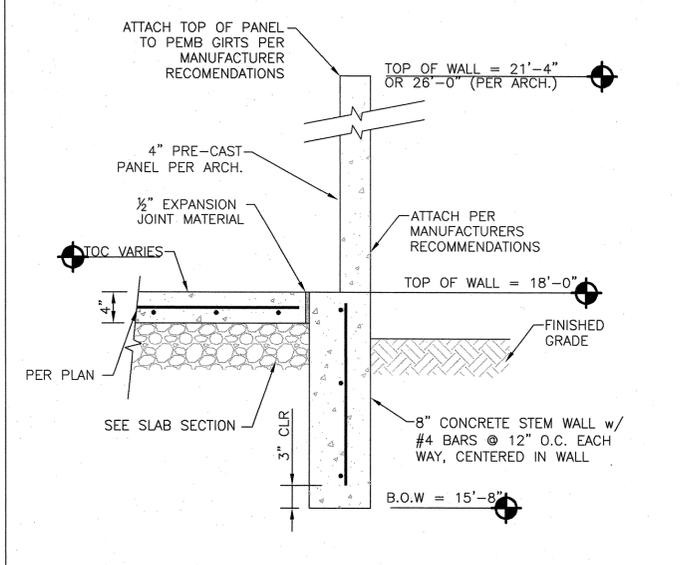
5E PEDESTAL SECTION
3/4"=1'-0"



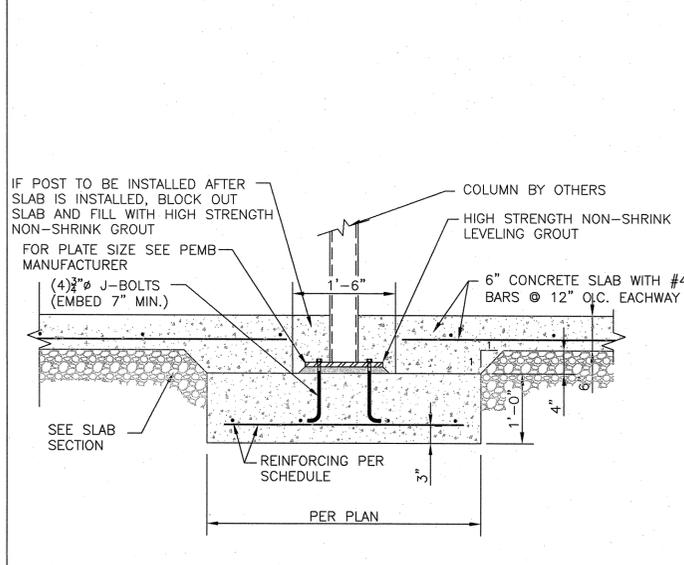
5G PEDESTAL PLAN
1"=1'-0"



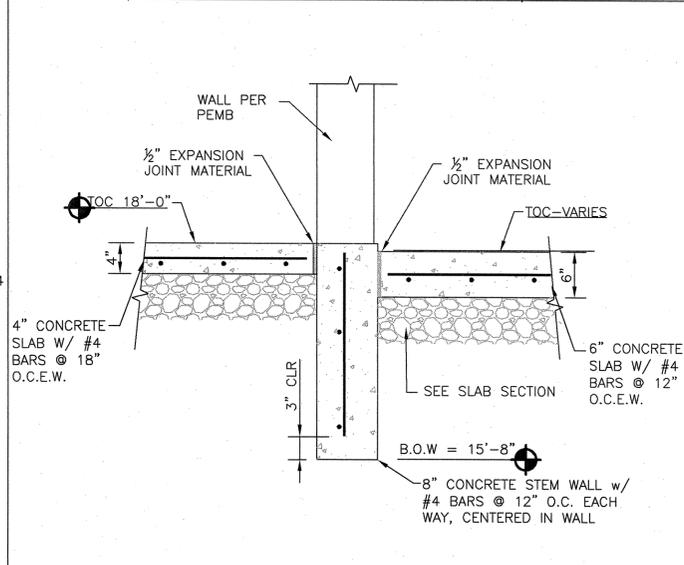
3A PEDESTAL PLAN
1"=1'-0"



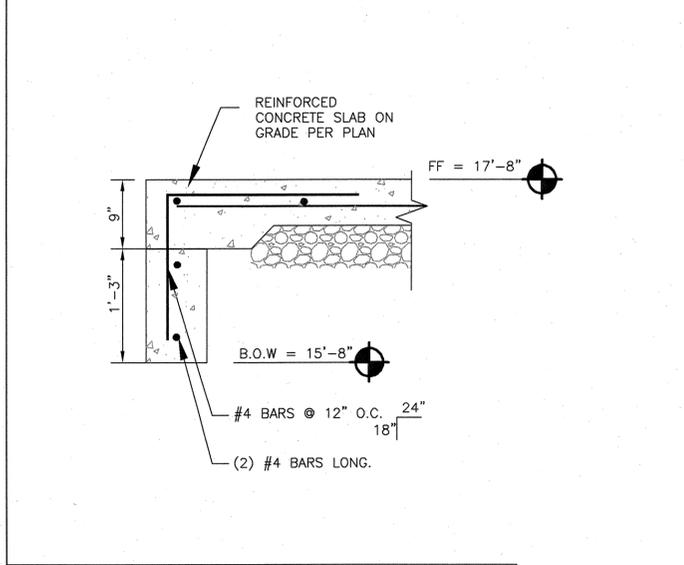
3C WALL AND FOOTING
3/4"=1'-0"



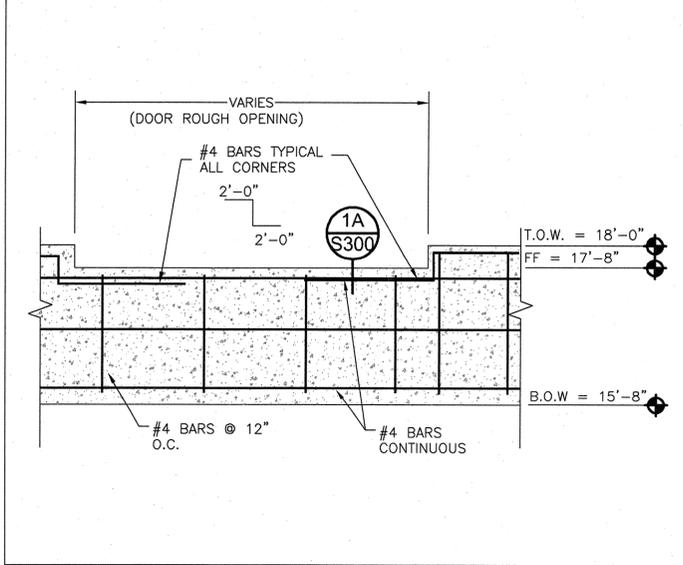
3E STEEL COLUMN AND FOOTING
3/4"=1'-0"



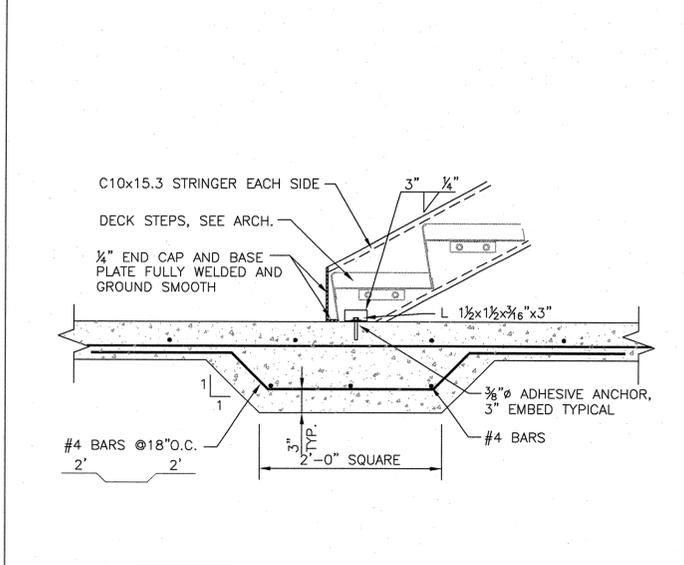
3G WALL FOOTING
3/4"=1'-0"



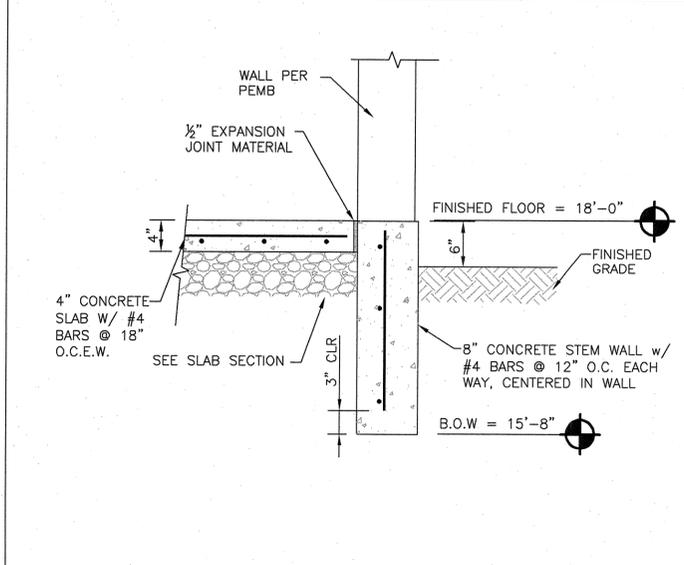
1A SLAB EDGE AT OPENING
1"=1'-0"



1C GRADE BEAM AT DOOR
3/4"=1'-0"



1E THICKENED SLAB AT STAIR LANDING
1"=1'-0"



1G WALL FOOTING
1"=1'-0"

NO.	DATE	BY
REVISIONS		
THOMAS, DEAN & HOSKINS, INC. ENGINEERING CONSULTANTS GREAT FALLS - BOZEMAN - KALISPELL SPOKANE MONTANA WASHINGTON IDAHO		
421 W. Riverside, Suite 600, Spokane, WA 99201 T: 509.465.8236 F: 509.747.0570 www.zb-builder.com		
CONSTRUCTION DETAILS GRANT COUNTY LANDFILL COMPLEX EPHRATA, WASHINGTON GRANT COUNTY PUBLIC WORKS DEPARTMENT		
BID SET ONLY NOT FOR CONSTRUCTION PROJECT NO. S10-014		
DRAWN: TES		
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S300		

ABBREVIATIONS	
ABOVE FINISHED FLOOR	AFF
ACCESS DOOR, ACCESS PANEL	AD, (AP)
AIR-HANDLING UNIT	AHU
CABINET UNIT HEATER	CUH
CAST IRON	CI
CEILING	CLG
CEILING DIFFUSER	CD
COOLING COIL	CC
CONCRETE	CONC
DOOR GRILLE	DG
ELEVATION	EL
EXHAUST, EXHAUST AIR	EXH, EA
EXHAUST GRILLE	EG
EXHAUST REGISTER	ER
EXISTING	EXIST OR (E)
EXPANSION TANK	ET
FAN COIL UNIT	FCU
HEATING COIL	HC
INVERT ELEVATION	IE
LOUVER	LVR
NEW	(N)
NOT IN CONTRACT	NIC
NORMALLY CLOSED	NC
NORMALLY OPEN	NO
NOT TO SCALE	NTS
ON CENTER	OC
OUTSIDE (OUTDOOR) AIR	OSA
POINT OF CONNECTION	POC
RELIEF, RELIEF AIR	RL, RLA
RELIEF GRILLE	RLG
RETURN, RETURN AIR	RET, RA
RETURN AIR FAN	RF
RETURN GRILLE	RG
RETURN REGISTER	RR
SIMILAR	SIM
SUPPLY, SUPPLY AIR	SUP, SA
SUPPLY AIR FAN	SF
SUPPLY GRILLE	SG
SUPPLY REGISTER	SR
THROUGH	THRU
THROUGH BEAM	TB
THROUGH JOIST	TJ
TOP OF FOOTING	TOF
TRANSFER GRILLE	TG
UNIT HEATER	UH
VARIABLE FREQUENCY (SPEED) DRIVE	VFD
VENT THROUGH ROOF	VTR

PLUMBING PIPING LEGEND	
DIRECTION OF FLOW	→
DIRECTION OF PIPE GRADE (DOWN)	↘
DOMESTIC COLD SOFT WATER	--- SW ---
DOMESTIC COLD WATER	CW
DOMESTIC HOT WATER	HW
DOMESTIC HOT WATER (140 DEG.F)	HW-140
DOMESTIC HW RECIRCULATION	HWR
DRAIN	D
GAS (7-11 IN. WC)	G
GAS (2 PSI)	G(2 PSI)
INDIRECT WASTE	IW
OVERFLOW STORM DRAINAGE (RAINWATER) - INTERIOR	ORWL
STORM DRAINAGE (RAINWATER) - INTERIOR	RWL
SANITARY WASTE (ABOVE GRADE)	SAN OR W
SANITARY WASTE (BELOW GRADE)	SAN OR W
TRAP PRIMER	TP
VENT	V

MECH. SYMBOLS LEGEND	
AIR SEPARATOR	AS
ALIGNMENT GUIDE	
AUTOMATIC AIR VENT	AAV
AUTOMATIC CONTROL VALVE (2-WAY)	ACV
AUTOMATIC CONTROL VALVE (3-WAY)	ACV
AUTOMATIC FLOW CONTROL VALVE	FCV
BACKFLOW PREVENTION ASSEMBLY	BFP
BALL VALVE	BV
BUTTERFLY VALVE	BFV
CALIBRATED BALANCING VALVE	CBV
CAPPED PIPE	
CHECK VALVE	CV
CLEANOUT	CO
CLEANOUT THROUGH FLOOR	COTF
CLEANOUT THROUGH WALL	COTW
CLEANOUT TO GRADE	COTG
CONCENTRIC REDUCER	
CONNECT TO EXISTING, POINT OF CONNECTION	POC
ECCENTRIC REDUCER	
ELBOW, TURNED DOWN	
ELBOW, TURNED UP	
EXPANSION JOINT	EJ
EXPANSION LOOP	
FLEXIBLE PIPING CONNECTOR	
FLOOR DRAIN	FD
FLOW METERING STATION	
FUNNEL FLOOR DRAIN	FFD
GATE VALVE	GV
HOSE BIBB	HB
INLINE PUMP	
MANUAL AIR VENT	MAV
OPEN HUB DRAIN	OHD
P-TRAP	
PLUG VALVE	PV
PLUMBING FIXTURE SYMBOLS	A OR AAA
PRESSURE DIFFERENTIAL SENSOR	PDS
PRESSURE GAUGE	
PRESSURE REDUCING VALVE	PRV
RELIEF VALVE	RV
ROOF DRAIN, OVERFLOW ROOF DRAIN	RD, ORD
TEE, OUTLET DOWN	
TEE, OUTLET UP	
THERMOMETER	
THERMOSTAT, DDC TEMPERATURE SENSOR	
THRUST BLOCK	TB
UNION	
WALL HYDRANT, NON-FREEZE WH	WH, NFWH
Y-STRAINER	

HVAC LEGEND	
DUCT SECTION, POSITIVE PRESSURE (SA)	
DUCT SECTION, NEGATIVE PRESSURE (RA/EA/RLA/OSA)	
DUCT SECTION, NEGATIVE PRESSURE (RLA)	
SUPPLY AIR FLOW	→
RETURN, RELIEF OR EXHAUST AIR FLOW	↔
INCLINE RISE IN DUCT	
INCLINE DROP IN DUCT	
FIRE/SMOKE DAMPER, FIRE DAMPER	F/SD, FD
FLEXIBLE DUCT CONNECTOR	
BACKDRAFT DAMPER	BD
MANUAL DAMPER	MD
OPPOSED BLADE DAMPER	OBD
PARALLEL BLADE DAMPER	PBD
DAMPER MOTOR, ACTUATOR	
INTERNAL DUCT LINER	
TURNING VANES	
DUCT SIZE (FIRST FIGURE IS SIDE SHOWN)	20x12
DUCT SILENCER (SOUND ATTENUATOR)	DS
ROUND FLEXIBLE DUCTWORK	OR
ACCESS DOORS, VERTICAL OR HORIZONTAL	AD 10x10
POINT OF CHANGE IN DUCT CONSTRUCTION (BY PRESSURE CLASSIFICATION)	
ROUND DUCTWORK	10"
DOUBLE-WALL ROUND DUCTWORK	10" DW
FLAT OVAL DUCTWORK	FO OR 20x12 FO
DOUBLE-WALL FLAT OVAL DUCTWORK	DWFO
TRANSITION (IN ROUND OR FLAT OVAL DUCT)	→
AIR OUTLET, SUPPLY DIFFUSER	CD 10x10 200(3), 8"
AIR INLET OR OUTLET, GRILLE OR REGISTER	RR 12x8 200(3), 8"
LOUVER	LVR 60x60
EQUIPMENT DESIGNATION (STYLE 1)	AHU 1
EQUIPMENT DESIGNATION (STYLE 2)	EF 2
GRAVITY ROOF VENTILATOR	A INTAKE THROAT SIZE B RELIEF THROAT SIZE

PLUMBING PUMP SCHEDULE										
EQ. NO.	TYPE	LOCATION	SERVICE	GPM	TDH (FT.)	RPM	HP	VOLT/PH	REMARKS	BASIS OF DESIGN MFR/MODEL
HWRP-1	CARTRIDGE CIRCULATOR	MECH. 106	DOM. HW	2	12	3250	1/25	115/1	BRONZE CONSTRUCTION	TACO 008

ELECTRIC HEATER SCHEDULE										
EQ. NO.	SERVING	KW	MBH	CFM	ELECTRICAL			TYPE	REMARKS	BASIS OF DESIGN MFR/MODEL
					VOLT	PHASE	AMPS			
EH-1	VESTIBULE	1.5	6.8	100	208	1	8.3	WALL	DISCONNECT, RECESSED FRAME, INTEGRAL THERMOSTAT	MARKEL H3052T2DWB
EH-2	SCALE HOUSE	1.5	6.8	100	208	1	8.3	WALL	DISCONNECT, RECESSED FRAME, INTEGRAL THERMOSTAT	MARKEL H3052T2DWB
EH-3	SCALE HOUSE RR	1.5	6.8	100	208	1	8.3	WALL	DISCONNECT, RECESSED FRAME, INTEGRAL THERMOSTAT	MARKEL H3052T2DWB

DIFFUSER, REGISTER & GRILLE SCHEDULE												
SYMBOL	S	R	E	T	TYPE	PANEL SIZE	NECK SIZE	MATERIAL	FINISH	DAMPER	REMARKS	BASIS OF DESIGN MFR/MODEL
2	X	.	.	.	CEILING DIFFUSER	NA	SEE PLANS	STEEL	WHITE	NO	SURFACE MOUNT, MODULAR CORE	TITUS MCD, BORDER TYPE 1
3	X	.	.	.	DRUM LOUVER	NA	SEE PLANS	STEEL	WHITE	NO	SURFACE MOUNT,	TITUS DL
4	X	.	.	.	VAV DIFFUSER	24x24	SEE PLANS	STEEL	WHITE	NO	ADJUSTABLE SET POINTS FOR HEATING AND COOLING, LAY-IN PANEL	ACUTHERM THERMA-FUSER TF
5		NA						
6	.	X	X	X	RET/EXH/TR GRILLE	24x24	22x22	STEEL	WHITE	NO	LAY-IN PANEL AND FRAME, 3/4" SPACING, 35° DEFLECTION	TITUS 350RL, BORDER TYPE 1
7	.	X	X	X	RET/EXH/TR GRILLE	24x12	22x10	STEEL	WHITE	NO	LAY-IN PANEL AND FRAME, 3/4" SPACING, 35° DEFLECTION	TITUS 350RL, BORDER TYPE 1
8	.	X	X	X	RET/EXH/TR GRILLE	NA	SEE PLANS	STEEL	WHITE	NO	SURFACE MOUNT, 3/4" SPACING, 35° DEFLECTION	TITUS 350RL, BORDER TYPE 1
9	X	.	.	.	SUPPLY GRILLE	NA	SEE PLANS	STEEL	WHITE	NO	SURFACE MOUNT, 3/4" SPACING, DOUBLE DEFLECTION	TITUS 300RL, BORDER TYPE 1

HVAC POWER VENTILATOR SCHEDULE													
EQ. NO.	SERVING	TYPE(1)	CFM	SP (INCH)	RPM	MOTOR			DRIVE(2)	SONES	CONTROL(3)	REMARKS	BASIS OF DESIGN MFR/MODEL
						HP	VOLT	PH					
EF-1	TOILET ROOMS	IN	300	0.50	1180	124W	115	1	D	2.4	1, 3	BACKDRAFT DAMPER, VIBRATION ISOLATION KIT	COOK GN-520
EF-2	KITCHEN	IN	200	0.50	973	85W	115	1	D	1.0	1, 2	BACKDRAFT DAMPER, VIBRATION ISOLATION KIT	COOK GN-520
EF-3	SCALE HOUSE	IN	60	0.25	807	41W	115	1	D	1.4	1, 2	BACKDRAFT DAMPER, CEILING GRILLE	COOK GN-142

GENERAL: FAN PERFORMANCES SELECTED FOR 1000 FT. ELEVATION. (3) CONTROL NOTES:
(1) TYPE:
IN - INLINE CABINET
(2) DRIVE:
D - DIRECT DRIVE
1. UNIT-MOUNTED SOLID STATE SPEED SWITCH (SSSC), FURNISHED BY DIV. 23, INSTALLED BY DIV. 26-ELECTRICAL
2. 30 MINUTE WALL SWITCH BY DIV. 26-ELECTRICAL
3. TO RUN DURING OCCUPIED PERIODS, TIME CLOCK BY DIV. 26-ELECTRICAL

DOMESTIC WATER HEATER SCHEDULE										
EQ. NO.	QTY.	SERVING	TYPE	WATTS INPUT	GPH @ TEMP. RISE	TANK CAP.	VOLT	PH	REMARKS	BASIS OF DESIGN MFR/MODEL
DWH-1	1	OFFICE AREA	ELECTRIC, STORAGE	(2) 4000	18 GPH 90°F	50	277	1	PROVIDE INSULATION PAD,	BRADFORD WHITE LD-50S3
DWH-2	1	SCALE HOUSE	ELECTRIC, INSTANT	4800	30 GPH 65°F	-	240	1	MOUNTED BELOW COUNTER TOP	CHRONOMITE SR20L/240

ELECTRIC BOILER SCHEDULE								
EQ. NO.	TYPE	LOCATION	MBH/KW	ELEMENTS/KW	VOLT/PH/AMPS	CONNECTIONS	REMARKS	BASIS OF DESIGN MFR./MODEL
BLR-1	HOT WATER, ELECTRIC	MECH M102	461/135	9/15	480/3/282	3" INLET/OUTLET	6" HOUSE KEEPING PAD,	LOCHINVAR BWX2-135C

PADDLE FAN SCHEDULE									
EQ. NO.	TYPE	LOCATION	CFM	RPM	DIA	VOLT/PH/AMPS	REMARKS	BASIS OF DESIGN MFR./MODEL	
PF-1	CEILING FAN	SHOP 113	73,215	101	120"	480/3/1.7	10 BLADE, MILL FINISH ALUMINUM, WALL KEY PAD	BIG ASS FANS / PFX10	
PF-2	CEILING FAN	SHOP 113	73,215	101	120"	480/3/1.7	10 BLADE, MILL FINISH ALUMINUM, WALL KEY PAD	BIG ASS FANS / PFX10	
PF-3	CEILING FAN	SHOP 113	73,215	101	120"	480/3/1.7	10 BLADE, MILL FINISH ALUMINUM, WALL KEY PAD	BIG ASS FANS / PFX10	
PF-4	CEILING FAN	SHOP 113	73,215	101	120"	480/3/1.7	10 BLADE, MILL FINISH ALUMINUM, WALL KEY PAD	BIG ASS FANS / PFX10	
PF-5	CEILING FAN	SHOP 113	73,215	101	120"	480/3/1.7	10 BLADE, MILL FINISH ALUMINUM, WALL KEY PAD	BIG ASS FANS / PFX10	
PF-6	CEILING FAN	SHOP 113	73,215	101	120"	480/3/1.7	10 BLADE, MILL FINISH ALUMINUM, WALL KEY PAD	BIG ASS FANS / PFX10	
PF-7	CEILING FAN	SHOP 113	73,215	101	120"	480/3/1.7	10 BLADE, MILL FINISH ALUMINUM, WALL KEY PAD	BIG ASS FANS / PFX10	

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MECHANICAL LEGENDS AND SCHEDULES

PROJECT TITLE
GRANT COUNTY LANDFILL COMPLEX
EPRHATA, WASHINGTON
GRANT COUNTY PUBLIC WORKS DEPARTMENT

SHEET TITLE

SEAL

D. W. SHAFER
SITE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER
17194
5-26-11

PROJECT NO. 1009

DRAWN: APT

CHECKED: DWS

DATE: 5/16/2011

DRAWING NO. M001

HVAC UNIT SCHEDULE														
EQ. NO.	CFM	E.S.P. IN IN.	MIN. OSA	TOTAL COOLING MBH	SENSIBLE COOLING MBH	ELECTRIC DATA						WEIGHT	REMARKS	MFR/MODEL
						ELECTRIC HTG		INDOOR FAN		UNIT				
						STAGE 2	MOTOR HP	DRIVE	VOLT/PH	MCA	MOCP			
HVAC-1	1200	0.5	300	25.2	25.2	4.33 KW	1/2	DIRECT	208/1	25	30	122 lbs.	FOR USE WITH R-410-A, CONDENSATE PUMP, 7 DAY PROGRAMMABLE THERMOSTAT WITH 3 STAGE HEATING, 2" FILTER RACK	CARRIER FV4B003

NOTES: 1. COOLING CONDITIONS: EAT 105°F, EWB 62°F, @ 1500 FT. ELEVATION.
2. HEAT PUMP HEATING CONDITIONS: 17" OAT, 65" EAT.

AIR-COOLED HEAT PUMP SCHEDULE																			
EQ. NO.	SERVING	LOCATION	EFFICIENCY	LOW STAGE COOLING (MBH)	HIGH STAGE COOLING (MBH)	AMBIENT DESIGN TEMP.	LOW STAGE HEATING (MBH)	HIGH STAGE HEATING (MBH)	AMBIENT DESIGN TEMP.	LOW STAGE AIR VOL. (CFM)	HIGH STAGE AIR VOL. (CFM)	COP (LOW)	COP (HIGH)	ELECTRICAL DATA				REMARKS	BASIS OF DESIGN MFR./MODEL
														VOLTS	PH	MCA (AMPS)	MOCP (AMPS)		
														HP-1	HVAC-1	SEE PLANS	17 SEER		

SPLIT-SYSTEM A/C SCHEDULE														
EQ. NO.	SERVING	FAN DATA				EFFICIENCY (SEER)	ELECTRICAL DATA (1)			REMARKS	BASIS OF DESIGN MFR./MODEL INDOOR UNIT / OUTDOOR UNIT			
		CFM-HIGH/LOW	FAN MOTOR HP	NOM. TONS	TC (MBH)		SC (MBH)	VOLT/PH	MCA			MOCP		
		SS-1	SCALE HOUSE	562/346	0.38		1.25	15.0	17.5			20	208/1	13

NOTE: COOLING CONDITIONS - 80°F DB/67°F ROOM DESIGN, 95°F AMB.
(1) INDOOR UNIT POWER FROM OUTDOOR UNIT, ELECTRICAL IS FOR THE SYSTEM

MODULAR AIR-HANDLING UNIT SCHEDULE																		
EQ. NO.	SERVING	TYPE	CFM	OSA CFM	HEATING (MBH)	GPM-H	RUNOUT SIZE (IN.)	WPD (FT.)	CONTROL VALVE	SF TSP (IN.)	SF TYPE/DRIVE	SF HP	VOLT/PH	SF RPM	APPROX. OP. WEIGHT (LBS.)	REMARKS	BASIS OF DESIGN MFR./MODEL	EQ. NO.

NOTES:
(1) AHU HEATING CONDITIONS: EWT 180°F, LWT 156°F, 30% PROPYLENE GLYCOL.
AHU-1 EAT 49°F DB/35°F WB, LAT 117°F DB/66°F WB.

EXPANSION TANK SCHEDULE									
EQUIP. NO.	QTY.	TYPE	SERVICE	LOCATION	TANK VOLUME	ACCEPTANCE VOLUME	INITIAL FILL PRESSURE	REMARKS	BASIS OF DESIGN MFR./MODEL
ET-H	1	DIAPHRAGM	HEATING SYSTEMS	MECH. M102	21.7	11.3 GAL.	21 PSIG	VERTICAL, ASME CONSTRUCTION, 16.25" DIAMETER, 29.5" HIGH	B&G D40V

HYDRONIC PUMP SCHEDULE														
EQUIP. NO.	TYPE	LOCATION	SERVICE	GPM	TDH (FT.)	RPM	IMPELLER DIAM. (IN.)	HP	VOLT/PHASE	REMARKS	VFD CONTROL	SUCTION DIFFUSER SIZE	PUMP DISCHARGE VALVE (TRI-DUTY)	BASIS OF DESIGN MFR./MODEL
HTP-1	END-SUCTION	MECH. M102	HEATING	42	25	1150	8.0	1.5	460/3	IN-LINE, INVERTER-READY MOTOR	YES	2" X 2"	2.5"	B&G 80 SERIES
HTP-2	END-SUCTION	MECH. M102	HEATING	42	25	1150	8.0	1.5	460/3	IN-LINE, INVERTER-READY MOTOR	YES	2" X 2"	2.5"	B&G 80 SERIES

HYDRONIC COIL SCHEDULE														
EQUIP. NO.	TYPE	SERVICE	CFM	HEATING (MBH)	FINS/IN	GPM	PD FLUID (IN. H2O)	ENTERING TEMP °F	LEAVING TEMP °F	REMARKS	BASIS OF DESIGN MFR./MODEL			
HWC-1	DUCT COIL	HVAC-1	1200	18.9	4	1.7	10.0	180	157	SINGLE PASS, DUCT MOUNTED HOT WATER COIL,	COLMAC COIL / CCL-15X16-1R-4F-WR			

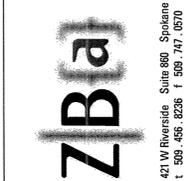
WALL LOUVER SCHEDULE (15850)									
SYMBOL	FRAME	DEPTH	DIMENSIONS	MATERIAL	FINISH	REMARKS	BASIS OF DESIGN MFR./MODEL		
A	CHANNEL	4"	SEE PLANS	ALUMINUM	MODIFIED FLUOROPOLYMER (50% KYNAR) COATING, COLOR SELECTION BY ARCHITECT	HIGH PERFORMANCE STATIONARY BLADE, WEATHER PROOF, DRAINABLE BLADE	RUSKIN / ELF 375DX		

NO.	DATE	BY
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REVISIONS

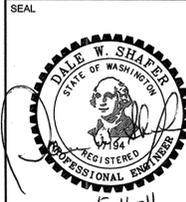


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MECHANICAL SCHEDULES

PROJECT TITLE
GRANT COUNTY LANDFILL COMPLEX
EPHRAATA, WASHINGTON
GRANT COUNTY PUBLIC WORKS DEPARTMENT

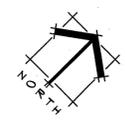
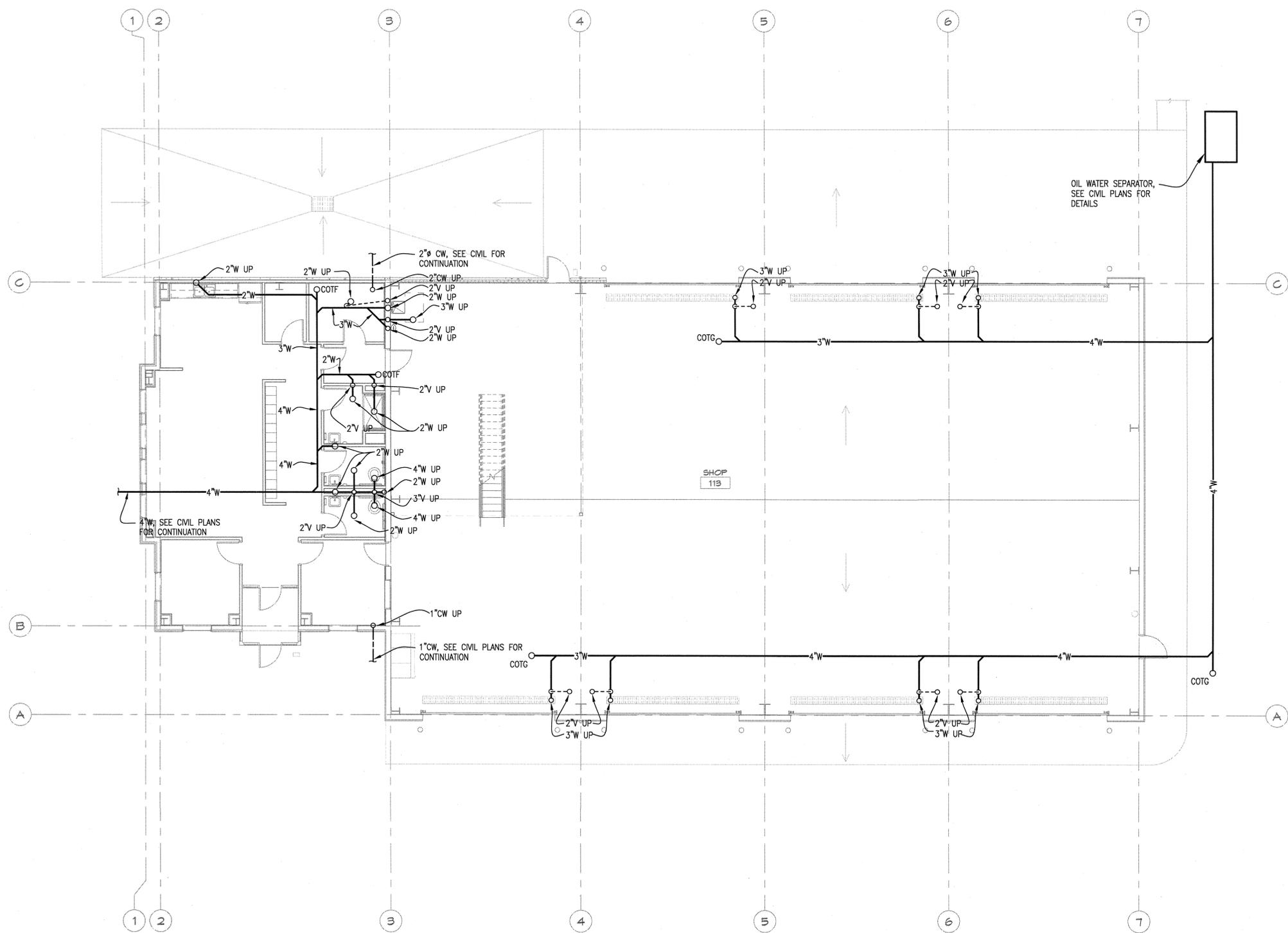


PROJECT NO. 1009
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DATE: 5/16/2011
DRAWING NO.

MO02

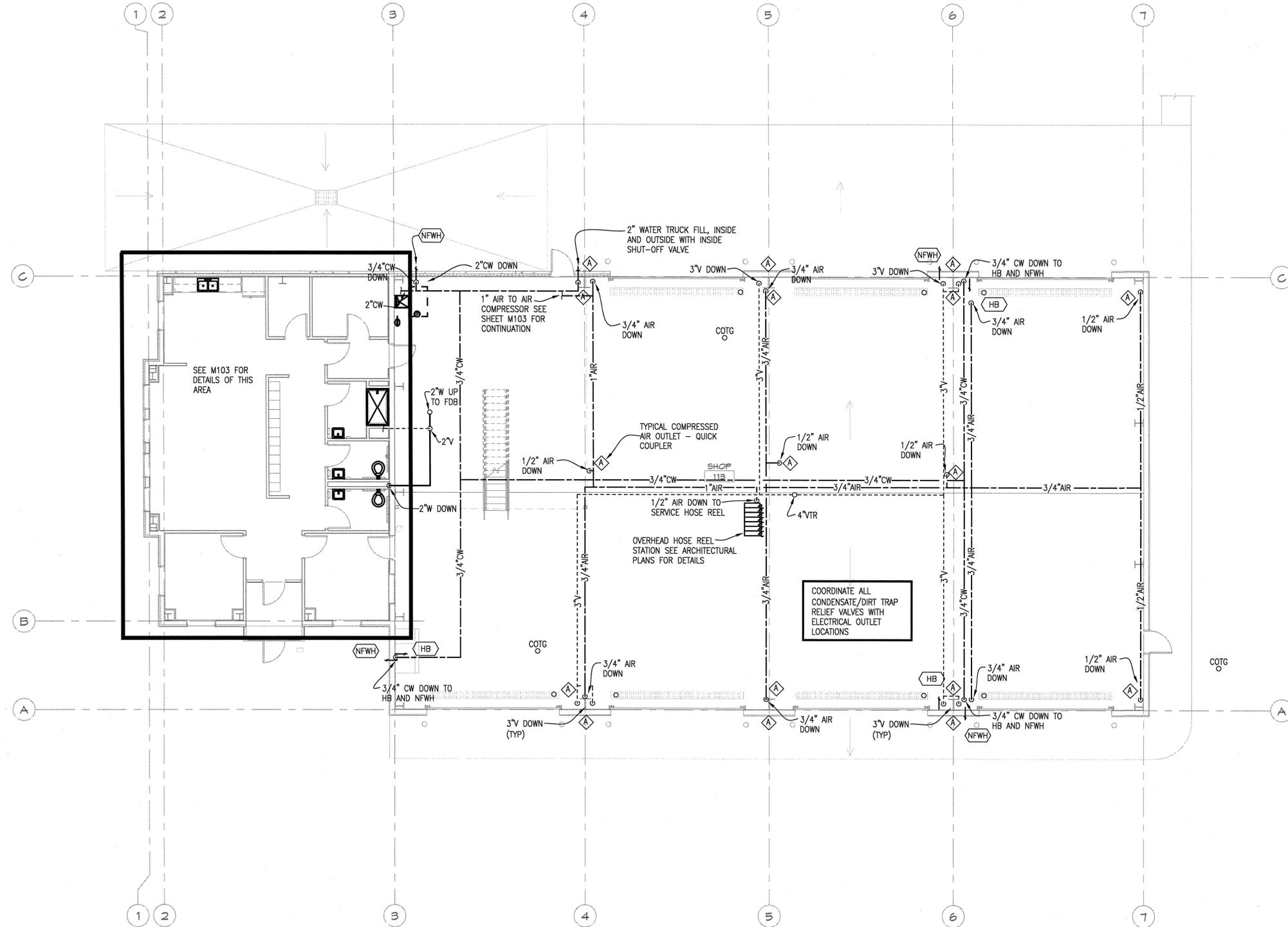
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P:\2010\Grant County Landfill Complex - Ephrata\2010-045\MM101 UNDERFLOOR PIPING.dwg, FULL SIZE PLOT, 5/16/2011 12:25:59 PM, davev



1 UNDER FLOOR PIPING PLAN - SHOP BUILDING
1/8" = 1'-0"

NO.	DATE	BY
REVISIONS		
 High Performance Design The Commission Building, West 28 Pacific Avenue, Suite 201, Spokane, Washington 99201 (509) 747-2799 Fax: (509) 747-2286 www.lseeng.com		
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 421 W Riverside, Suite 860, Spokane WA 99201 t 509.468.8236 f 509.747.6570 www.zeckbutler.com		
SHEET TITLE: SHOP BUILDING UNDER FLOOR PIPING PLAN PROJECT TITLE: GRANT COUNTY LANDFILL COMPLEX EPHRATA, WASHINGTON GRANT COUNTY PUBLIC WORKS DEPARTMENT		
PROJECT NO.	1009	
DRAWN:	APT	
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DATE:	5/16/2011	
DRAWING NO.	M101	



1 PLUMBING FLOOR PLAN - SHOP BUILDING
 1/8" = 1'-0"

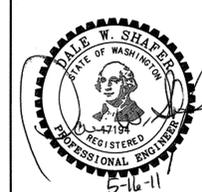
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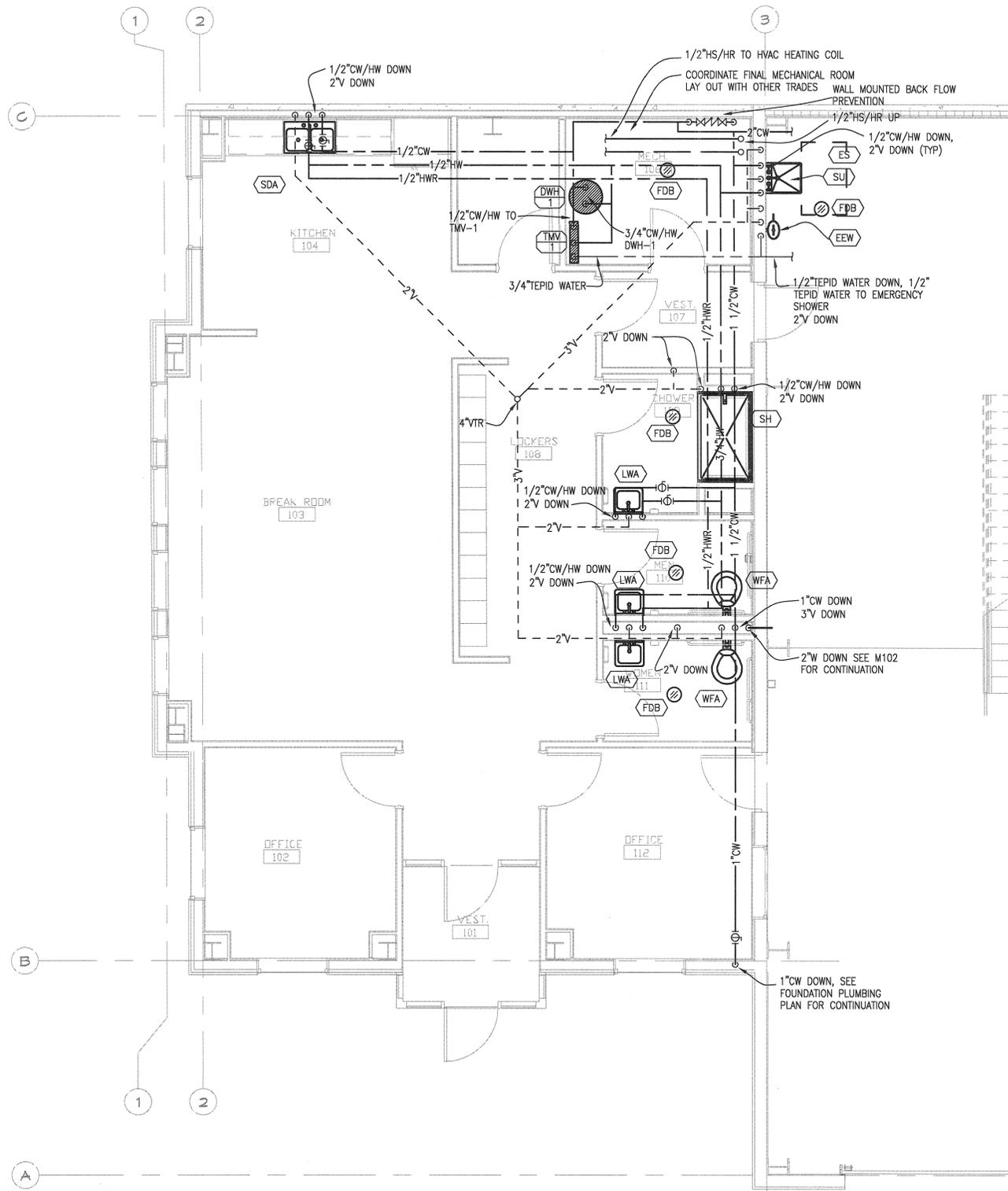
ZB|a|
 421 W Riverside, Suite 800, Spokane WA 99201
 509-747-3870
 www.zbbutler.com

SHEET TITLE: SHOP BUILDING PLUMBING FLOOR PLAN
 PROJECT TITLE: GRANT COUNTY LANDFILL COMPLEX
 EPHRAATA, WASHINGTON
 GRANT COUNTY PUBLIC WORKS DEPARTMENT

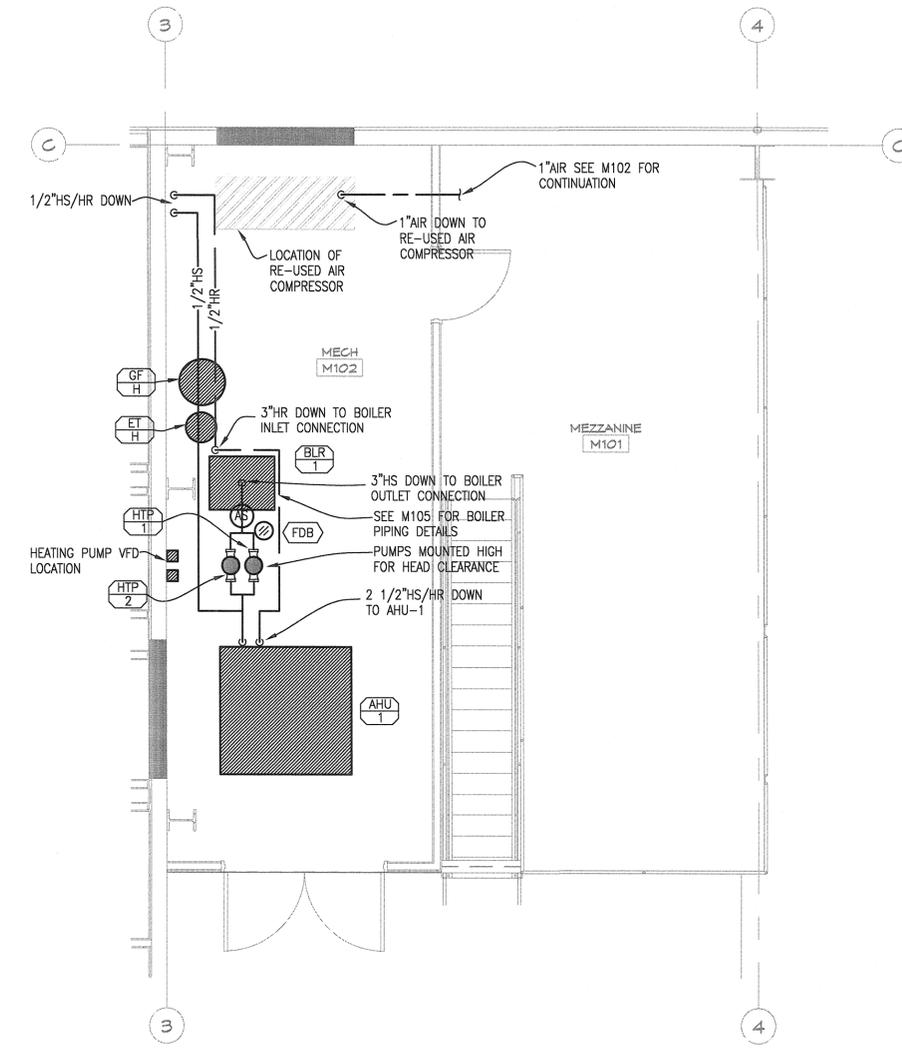


PROJECT NO. 1009
 DRAWN: APT
 CHECKED: DWS
 DATE: 5/16/2011
 DRAWING NO.

M102



1 ENLARGED PLUMBING PLAN - SHOP BUILDING
 1/4" = 1'-0"



2 MEZZANINE PLAN - SHOP BUILDING
 1/4" = 1'-0"

NO.	DATE	BY
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SHEET TITLE
 SHOP BUILDING ENLARGED PLUMBING PLANS
 PROJECT TITLE
GRANT COUNTY LANDFILL COMPLEX
 EPHRATA, WASHINGTON
 GRANT COUNTY PUBLIC WORKS DEPARTMENT

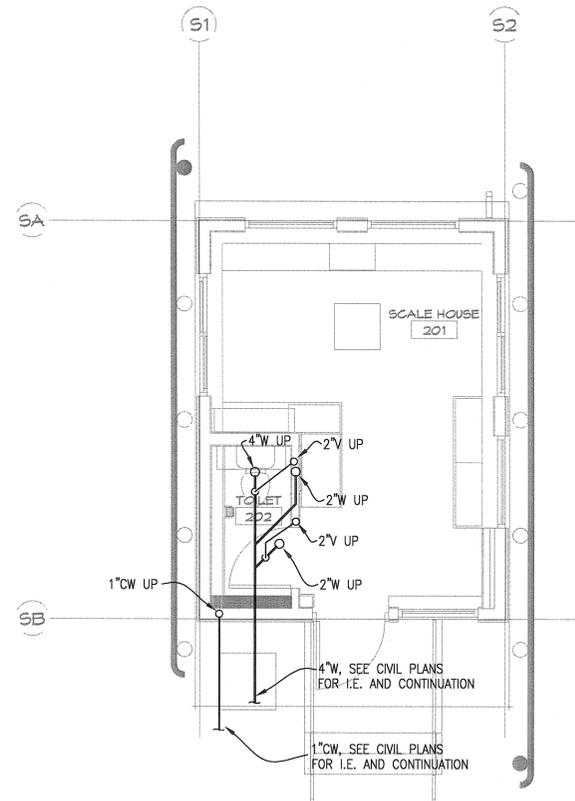


PROJECT NO. 1009
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 DATE: 5/16/2011
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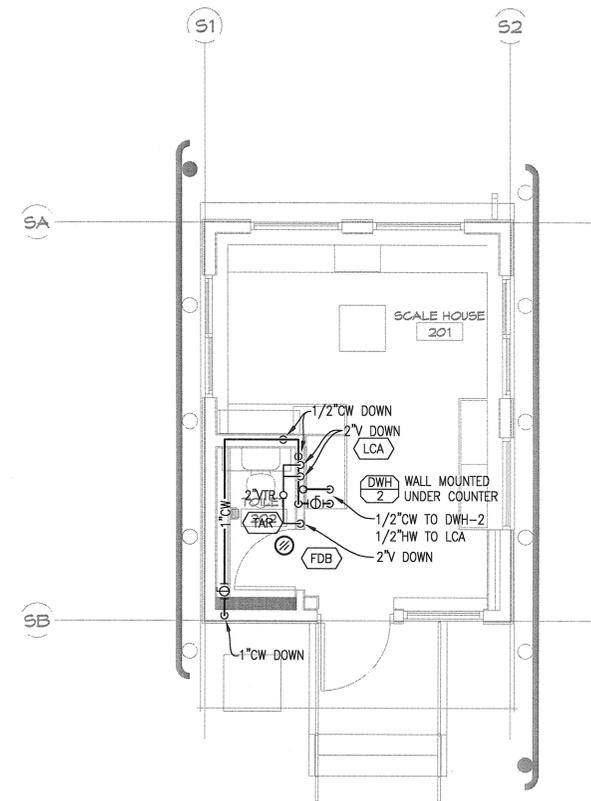
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P:\2010\Grant County Landfill Complex - Ephrata\2010-045m\1104 - SCALE HOUSE FOUNDATION AND PLUMBING PLAN.dwg, 5/16/2011 12:46:43 PM, davev



① FOUNDATION PLUMBING PLAN - SCALE HOUSE
1/4" = 1'-0"



① PLUMBING PLAN - SCALE HOUSE
1/4" = 1'-0"

NO.	DATE	BY
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SHEET TITLE
SCALE HOUSE - PLUMBING PLANS

PROJECT TITLE
GRANT COUNTY LANDFILL COMPLEX
EPHRATA, WASHINGTON
GRANT COUNTY PUBLIC WORKS DEPARTMENT

SEAL



PROJECT NO. 1009

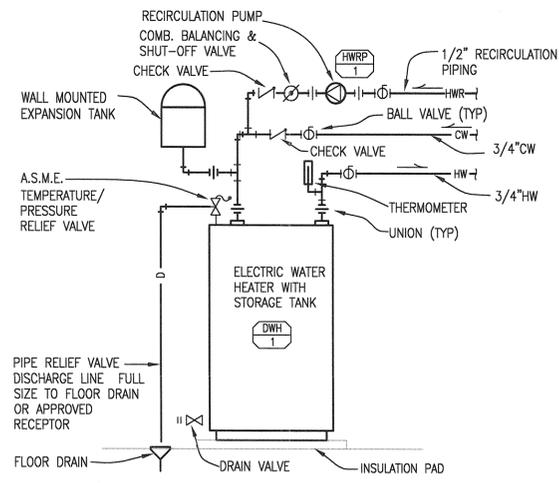
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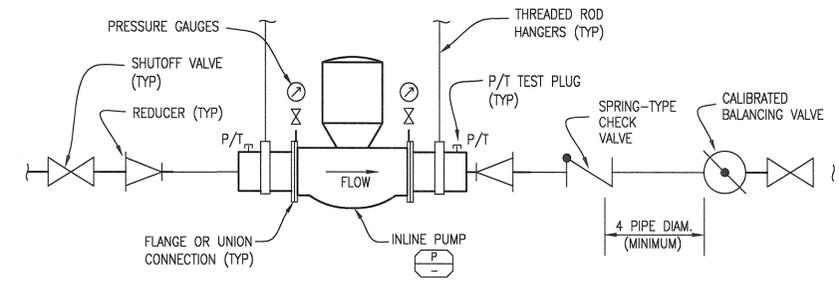
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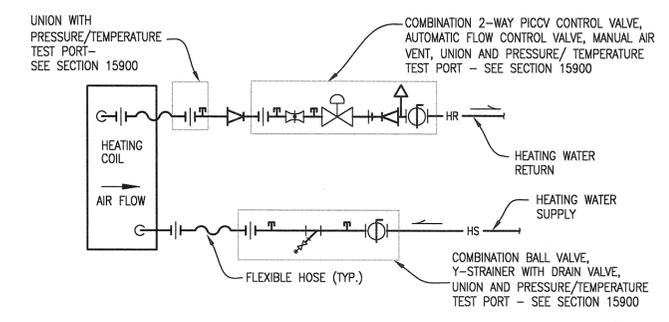
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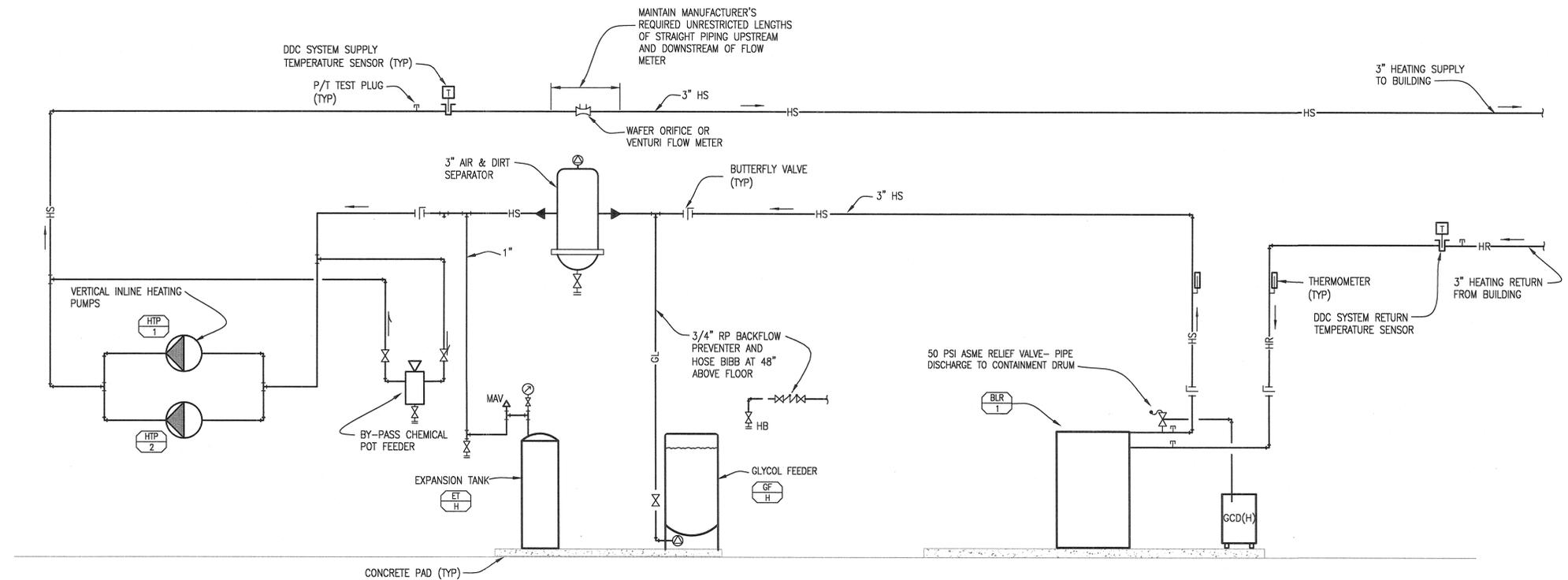
2 WATER HEATER DETAIL
NOT TO SCALE ELECTRIC W/ RECIRCULATION



1 INLINE HYDRONIC PUMP DETAIL
NOT TO SCALE



3 HEATING COIL PIPING DETAIL
NOT TO SCALE (FAN COIL, AIR HANDLING UNIT, UNIT HEATER CABINET UNIT HEATER)



4 HEATING SYSTEM PIPING DIAGRAM
NOT TO SCALE

NO.	DATE	BY
REVISIONS		

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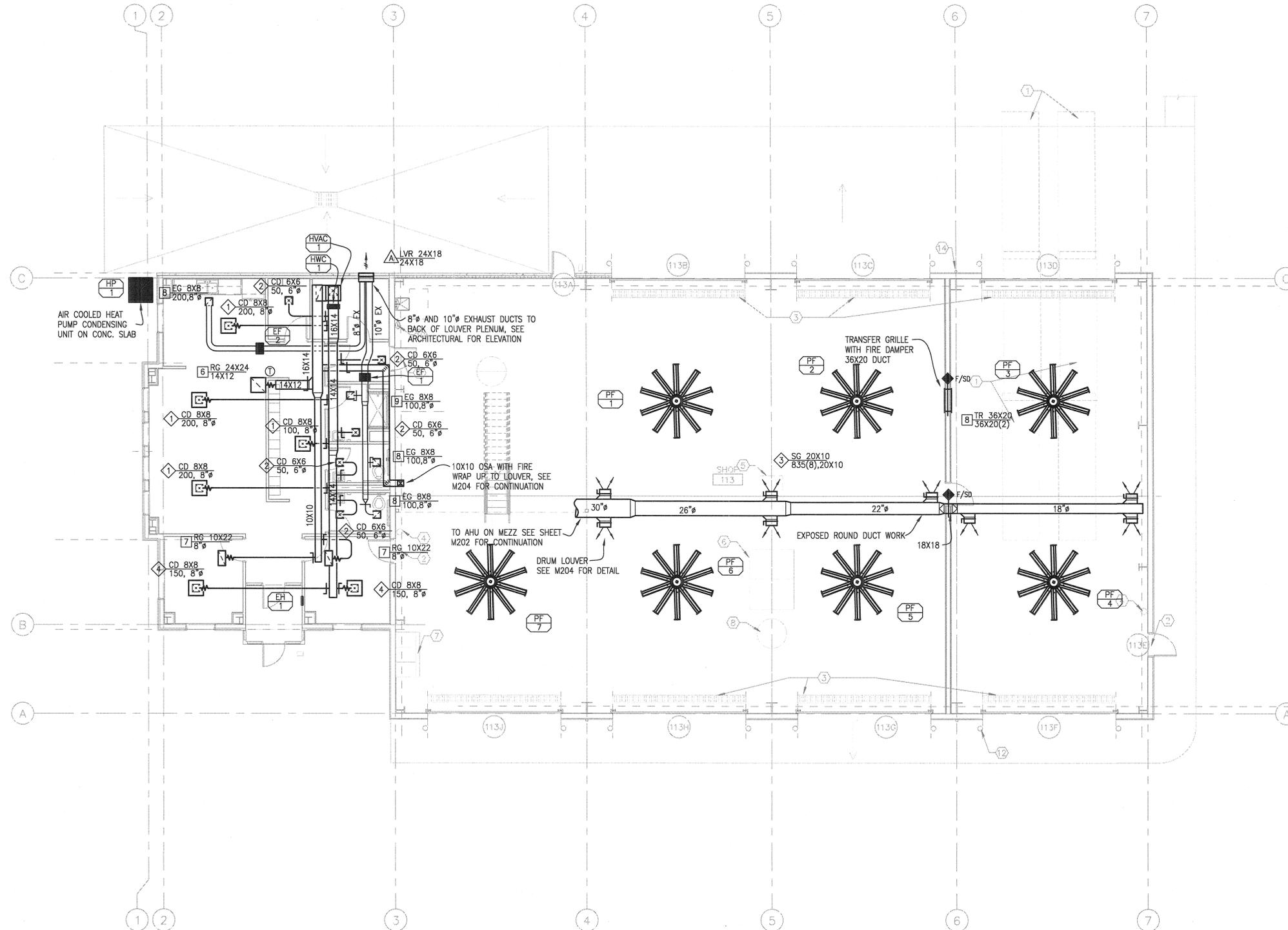
SHOP BUILDING - FLOOR PLAN

PROJECT TITLE
GRANT COUNTY LANDFILL COMPLEX
EPHRATA, WASHINGTON
GRANT COUNTY PUBLIC WORKS DEPARTMENT



PROJECT NO.	1009
DRAWN:	APT
CHECKED:	DMS
DATE:	5/16/2011
DRAWING NO.	

M105



1 HVAC FLOOR PLAN — SHOP BUILDING
 1/8" = 1'-0"

NO.	DATE	BY

REVISIONS

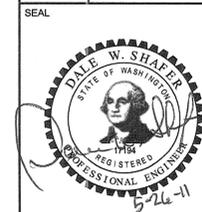
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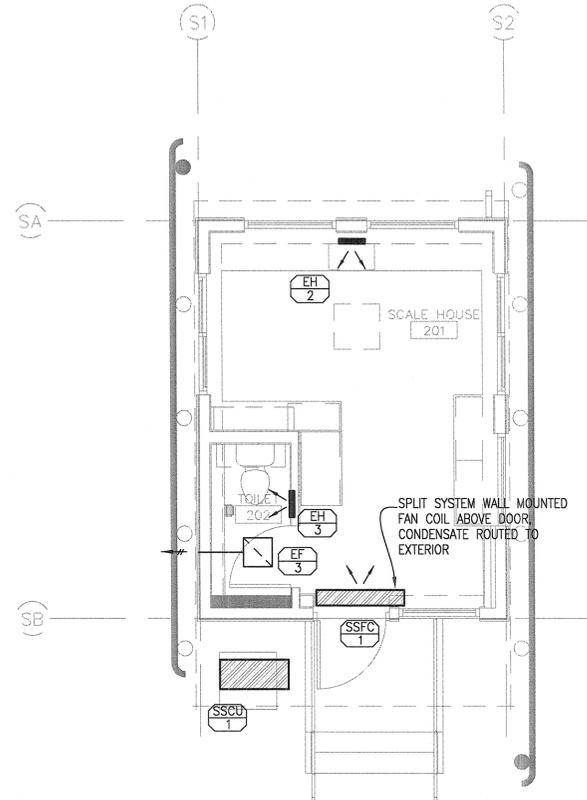
SHEET TITLE
 SHOP BUILDING
 HVAC FLOOR PLAN

PROJECT TITLE
 GRANT COUNTY LANDFILL COMPLEX
 EPHRATA, WASHINGTON
 GRANT COUNTY PUBLIC WORKS DEPARTMENT



PROJECT NO.	1009
DRAWN:	APT
CHECKED:	DWS
DATE:	5/16/2011
DRAWING NO.	M201

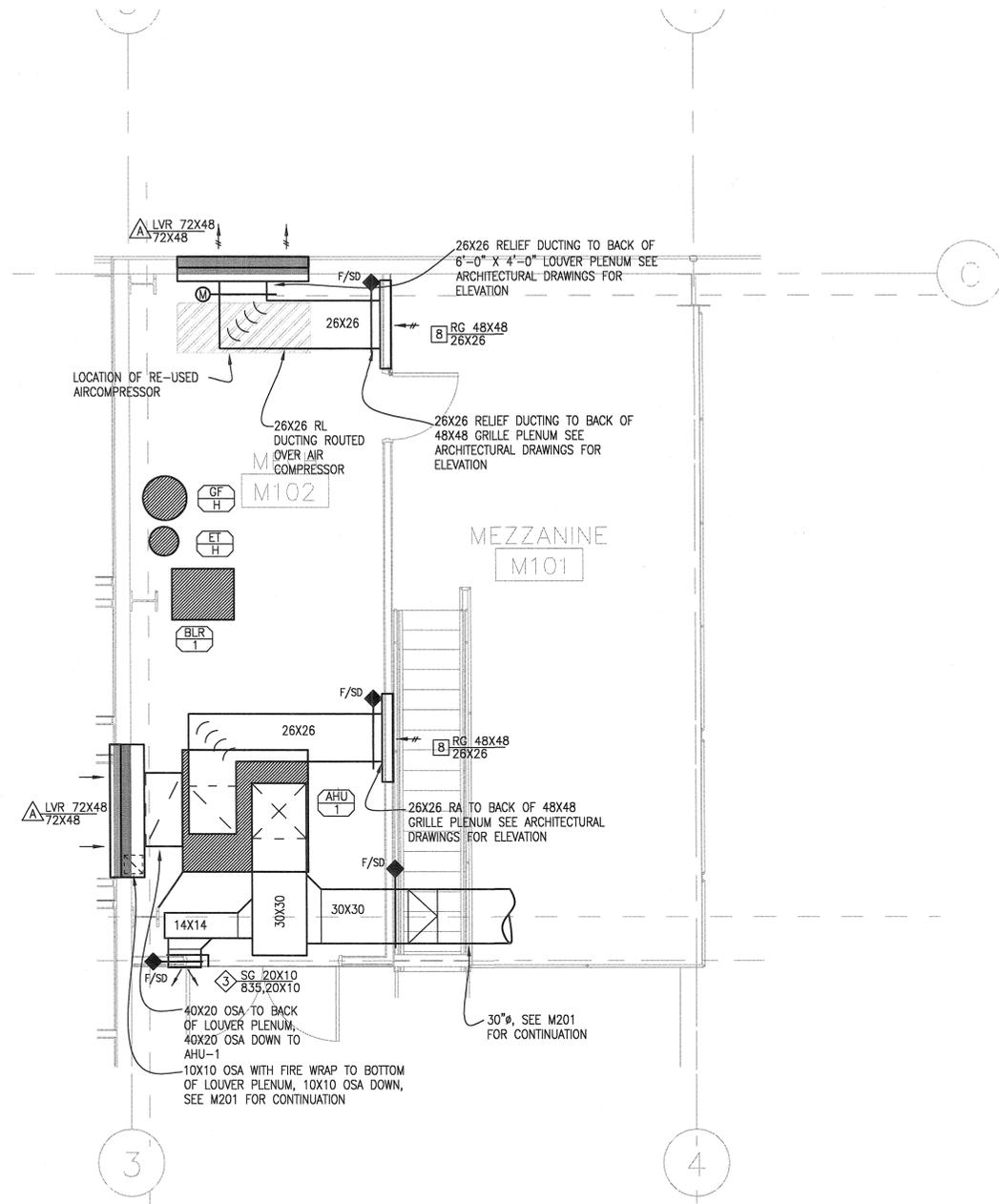
M201



① HVAC PLAN - SCALE HOUSE
1/4" = 1'-0"



② MEZZANINE PLAN - SHOP BUILDING
1/4" = 1'-0"



NO.	DATE	BY
REVISIONS		

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SHEET TITLE
SHOP BUILDING
ENLARGED HVAC PLANS
DETAILS

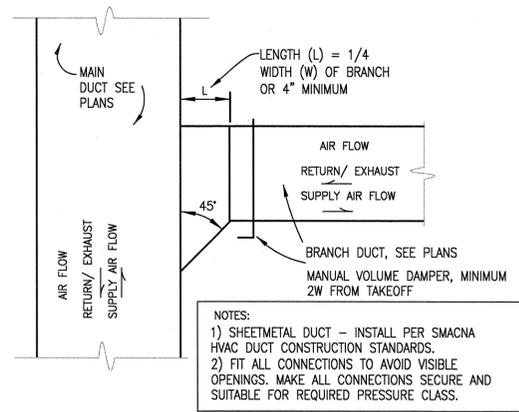
PROJECT TITLE
GRANT COUNTY LANDFILL COMPLEX
EPRHATA, WASHINGTON
GRANT COUNTY PUBLIC WORKS DEPARTMENT

SEAL

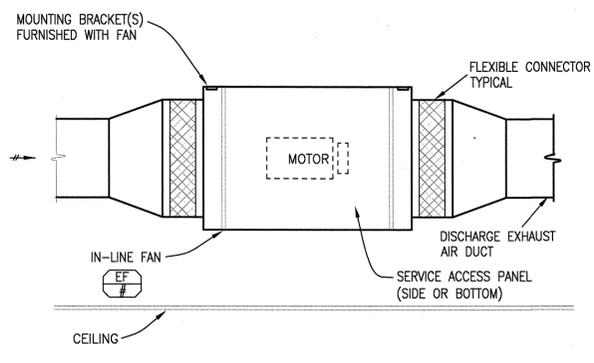


PROJECT NO.	1009
DRAWN:	APT
CHECKED:	DWS
DATE:	5/16/2011
DRAWING NO.	

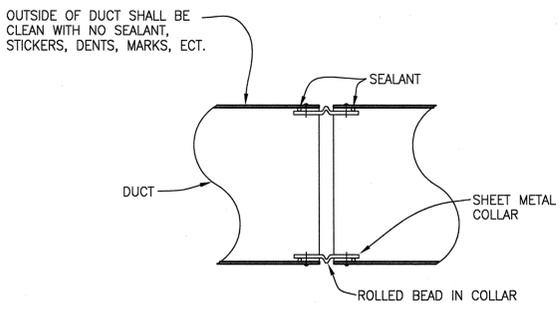
M202



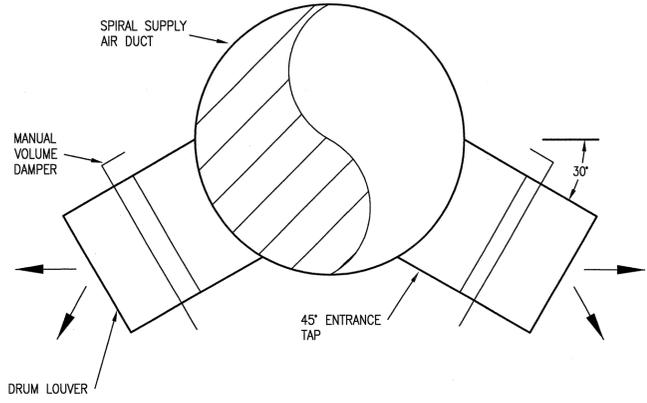
3 BRANCH DUCT DETAIL
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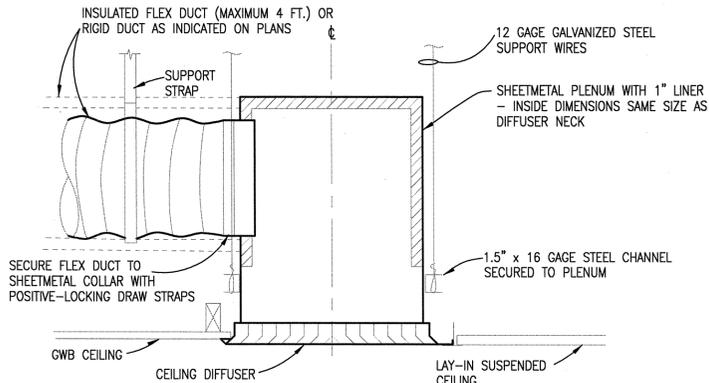
2 INLINE EXHAUST FAN DETAIL
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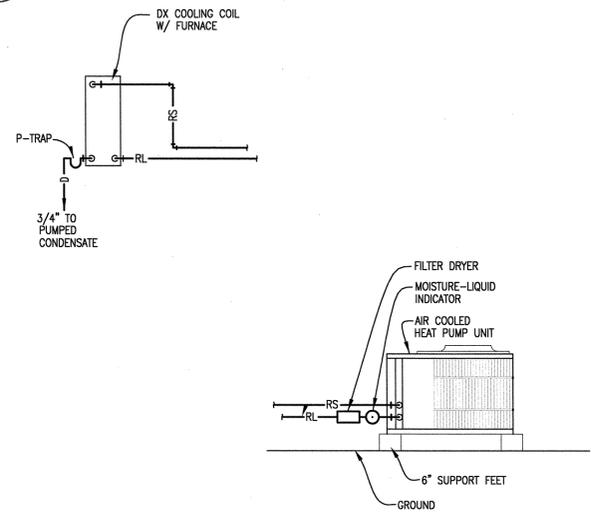
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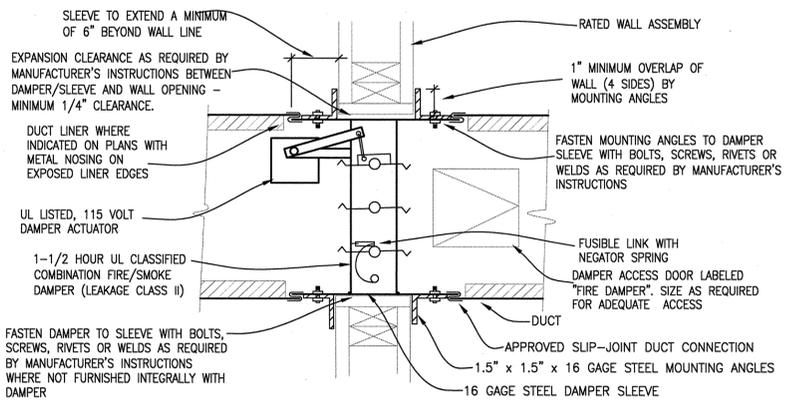
6 SIDEWALL DRUM LOUVER DETAIL
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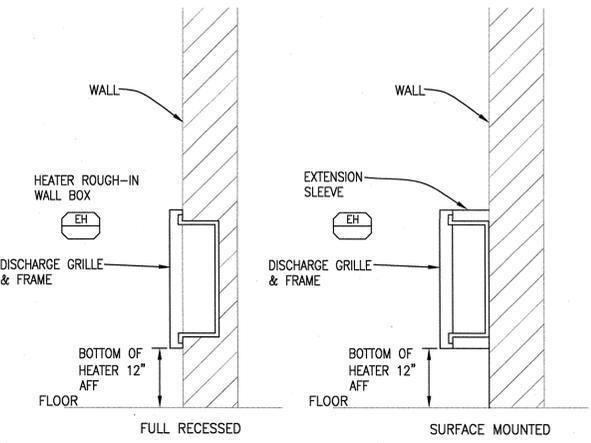
5 CEILING DIFFUSER DETAIL
NOT TO SCALE



4 REFRIGERANT PIPING DIAGRAM
NOT TO SCALE
700-09C.DWG



8 FIRE/SMOKE DAMPER DETAIL
NOT TO SCALE



7 ELECTRIC HEATER DETAILS
NOT TO SCALE
700-11A.DWG

NO.	DATE	BY
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REVISIONS

L&S Engineering
High Performance Design
The Commission Building, West 216 Pacific Avenue, Suite 211, Spokane, Washington 99201
(509) 747-2079 Fax: (509) 747-2966 www.lse.com

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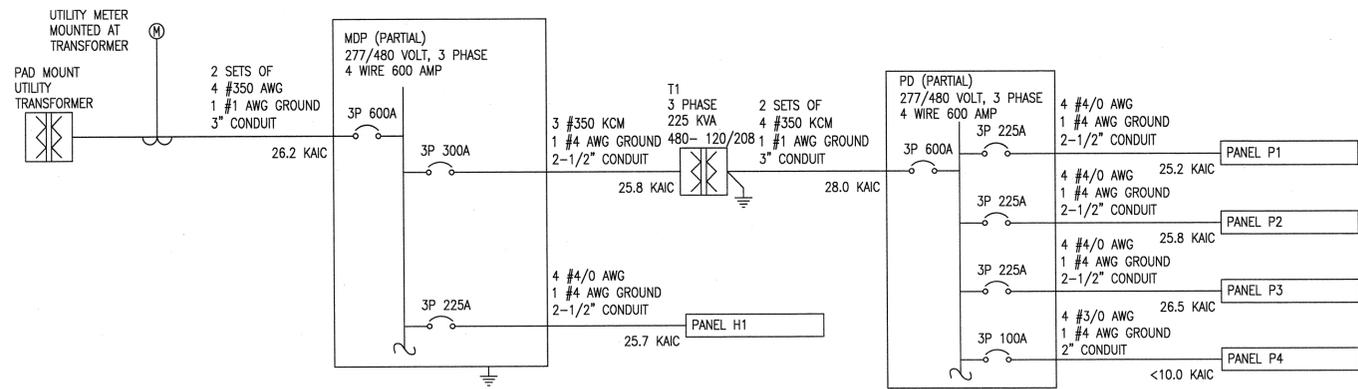
Z|B|A
421 W Riverside, Suite 880, Spokane WA 99201
t 509.456.8236 f 509.747.0670 www.zeckbutler.com

SHOP BUILDING - FLOOR PLAN
PROJECT TITLE
GRANT COUNTY LANDFILL COMPLEX
EPHRATA, WASHINGTON
GRANT COUNTY PUBLIC WORKS DEPARTMENT

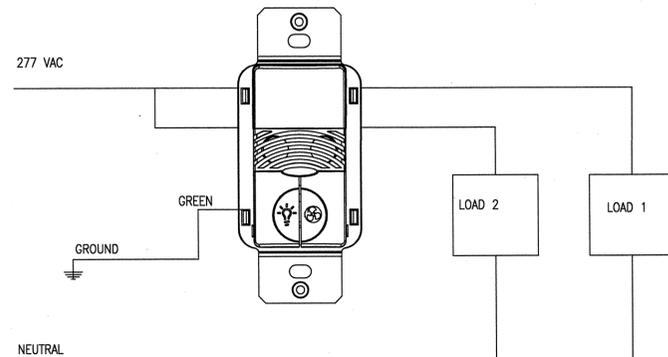
DALE W. SHAFER
STATE OF WASHINGTON
17194
REGISTERED PROFESSIONAL ENGINEER
5-24-11

PROJECT NO. 1009
DRAWN: APT
CHECKED: DWS
DATE: 5/16/2011

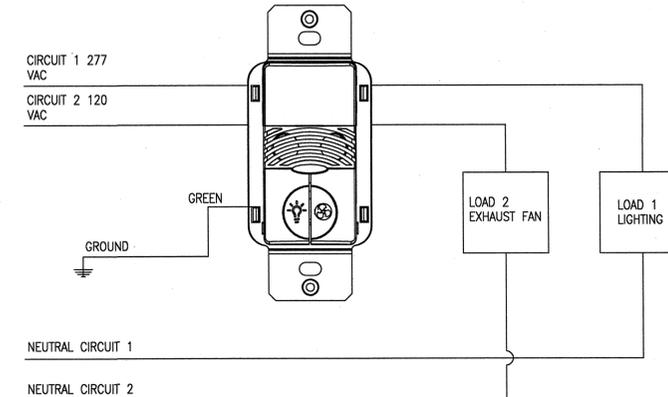
DRAWING NO. M203



ID	MFGR	CATALOG NUMBER	VOLTS	AMPS	WATTS	LAMPS	MOUNT	NOTES
E1	DUAL LITE	LX U C W E	277		3.5	LED	SURFACE ABOVE DOOR	
F1	COLUMBIA	KL8-254-ST-4EP-PAF	277	0.84	240	(4) F54T5HO	CHAIN HANG 19 FEET A.F.F	
F1E	COLUMBIA	KL8-254-ST-4EP-PAF-EL	277	0.84	240	(4) F54T5HO	CHAIN HANG 19 FEET A.F.F	
F2	COLUMBIA	WAL4-132-EU	120-277	0.31/0.13	36	(1) F32T8	WALL MOUNT ABOVE MIRROR	WALL MOUNT AT 7 FEET A.F.F. IN SCALE HOUSE
F3	PRESSCOLITE	CBX277VHPF-TL32	277	0.06	17	(1) CFQ13	RECESS CEILING IN SHOWER	
F4	COLUMBIA	4PS14-132G-FSA12.125-EU-SLL	120-277	0.31/0.13	36	(1) F32T8	RECESS CEILING GRID	
F4E	COLUMBIA	4PS14-132G-FSA12.125-EU-SLL-EL	120-277	0.31/0.13	36	(1) F32T8	RECESS CEILING GRID	SAME AS F4 WITH EM BALLAST
F5	COLUMBIA	4PS24-432G-FSA12.125-EU-SLL	120-277	1.0/0.42	101	(4) F32T8	RECESS CEILING GRID	WIRE FOR I/O SWITCHING
F6	COLUMBIA	4PS24-332G-FSA12.125-EU-SLL	120-277	0.76/0.33	93	(3) F32T8	RECESS CEILING GRID	SAME AS F5 WITH SINGLE BALLAST
F6E	COLUMBIA	4PS24-332G-FSA12.125-EU-SLL-EL	120-277	0.76/0.33	93	(3) F32T8	RECESS CEILING GRID	SAME AS F6 WITH EM BALLAST
F7	COLUMBIA	K4-154-EPU-PAF-CSR4	277	0.76/0.33	62	(1) F54T5HO	MOUNT TO ROOF STRUCTURE OR CEILING	
F8	COLUMBIA	4PS24-232G-FSA12.125-EU-SLL	120-277	0.54/0.24	65	(2) F32T8	RECESS CEILING GRID	
F8E	COLUMBIA	4PS24-232G-FSA12.125-EU-SLL-EL	120-277	0.54/0.24	65	(2) F32T8	RECESS CEILING GRID	
F9	COLUMBIA	KL4-254-ST-EP-PAF	277	0.4300	120	(2) F54T5HO	CHAIN HANG 19 FEET A.F.F.	
S1	KIM	1A/AR3/250PMH277/DB-P	277	1.10	291	(1) PSMH250	MOUNT ON KRS20-4120 POLE	MOUNT POLE ON 36 INCH TALL BASE
S2	KIM	1A/AR4/250PMH277/DB-P	277	1.10	291	(1) PSMH250	MOUNT ON KRS20-4120 POLE	MOUNT POLE ON 36 INCH TALL BASE
S3	KIM	WD18D3/250PMH277/DB-P	277	1.10	291	(1) PSMH250	WALL MOUNT 17 FEET A.F.F. U.O.N.	
S4	KIM	WD18D4/250PMH277/DB-P	277	1.10	291	(1) PSMH250	WALL MOUNT 19 FEET A.F.F. U.O.N.	
S5	KIM	SW3 42PL277 DB-P	277	0.17	46	(1) CFM42	WALL MOUNT ABOVE DOOR 8 FEET A.F.F.	REMOTE EMERGENCY BALLAST IN CONDITIONED SPACE



DUAL CIRCUIT OCCUPANCY SENSOR WIRING DIAGRAM FOR INBOARD/OUTBOARD SWITCHING OR TWO FIXTURES



DUAL CIRCUIT OCCUPANCY SENSOR WIRING DIAGRAM FOR LIGHTING AND EXHAUST FAN IN KITCHEN

PANELBOARD SCHEDULE												
MAIN BREAKER: 600 AMP MOUNTING: SURFACE BRACING: 27 KAIC			PANEL: MDP 277/480, 3P, 4W 600 AMP			TOTAL CALCULATED LOAD 362.78 KVA						
NO	DESCRIPTION	OCB	LOAD			LOAD			CIRCUIT	NO		
			TYPE	(VA)	(A)	PH	(A)	(VA)			TYPE	
1	PANEL PD	3P-300A		37330	134.7	A				3P-40A	TVSS	2
3	THROUGH TRANSFORMER T1			36828	132.9	B						4
5				38700	139.6	C						6
7	PANEL H1	3P-225A		22037	79.5	A					3P-225A SPACE	8
9				22633	81.7	B						10
11				23028	83.1	C						12
13	BLR-1	3P-200A	C	45000	162.4	A					3P-225A SPACE	14
15			C	45000	162.4	B						16
17			C	45000	162.4	C						18
19						A						20
21						B						22
23						C						24
25						A						26
27						B						28
29						C						30
31						A						32
33						B						34
35						C						36
37						A						38
39						B						40
41						C						42

LOAD: CONNECTED CALCULATED
(C)ontinuous: 198835 x 1.25 = 248544 VA
(R)ec (1st 10 kva): 10000 x 1.00 = 10000 VA
(R)ec (remainder): 16189 x 0.50 = 8094 VA
(N)on-continuous: 66092 x 1.00 = 66092 VA
(H)eating: 1993 x 1.00 = 1993 VA
(A)ir conditioning: x 1.00 = VA
(L)argest motor: 22447 x 1.25 = 28059 VA
TOTAL LOAD: 315557 VA 362783 VA 436 AMPS

PANELBOARD SCHEDULE												
MAIN BREAKER: MLO MOUNTING: SURFACE BRACING: 26 KAIC			PANEL: H1 277/480, 3P, 4W 225 AMP			TOTAL CALCULATED LOAD 83.48 KVA						
NO	DESCRIPTION	OCB	LOAD			LOAD			CIRCUIT	NO		
			TYPE	(VA)	(A)	PH	(A)	(VA)			TYPE	
1	LTG SHOP	1P-20A	C	3026	10.9	A	10.5	2910	C	3P-20A	SHOP CEILING FANS	2
3	LTG SHOP	1P-20A	C	3841	13.9	B	10.5	2910	C			4
5	LTG SHOP	1P-20A	C	1982	6.7	C	4.2	1164	C			6
7	LTG OFFICES	1P-20A	C	1219	4.4	A	4.2	1164	C	3P-20A	SHOP CEILING FANS	8
9	LTG EXTERIOR WALLPACKS	1P-20A	C	1970	7.1	B	4.2	1164	C			10
11	LTG RECYCLE BUILDING	1P-20A	C	898	3.2	C	4.2	1164	C			12
13	LTG SITE POLES	1P-20A	C	1524	5.5	A				1P-20A	SPARE	14
15	LIGHTING CONTROL PANEL	1P-20A	N	554	2.0	B				1P-20A	SPARE	16
17	WATER HEATER	1P-20A	N	4000	14.4	C				1P-20A	SPARE	18
19	HTP-1	3P-15A	C	831	3.0	A				1P-20A	SPARE	20
21			C	831	3.0	B				1P-20A	SPARE	22
23			C	831	3.0	C				1P-20A	SPARE	24
25	HTP-2	3P-15A	C	831	3.0	A				1P-20A	SPARE	26
27			C	831	3.0	B				1P-20A	SPARE	28
29			C	831	3.0	C				1P-20A	SPARE	30
31	AHU-1	3P-20A	C	3048	11.0	A				1P-20A	SPARE	32
33			C	3048	11.0	B				1P-20A	SPARE	34
35			C	3048	11.0	C				1P-20A	SPARE	36
37	AIR COMPRESSOR	3P-50A	L	7482	27.0	A				1P-20A	SPARE	38
39			L	7482	27.0	B				1P-20A	SPARE	40
41			L	7482	27.0	C				1P-20A	SPARE	42

CIRCUITS 1, 3, 5, 7, 9, 11, 13 TO BE WIRED THROUGH LIGHTING CONTROL PANEL

LOAD: CONNECTED CALCULATED
(C)ontinuous: 40696 x 1.25 = 50870 VA
(R)ec (1st 10 kva): x 1.00 = VA
(R)ec (remainder): x 0.50 = VA
(N)on-continuous: 4554 x 1.00 = 4554 VA
(H)eating: x 1.00 = VA
(A)ir conditioning: x 1.00 = VA
(L)argest motor: 22447 x 1.25 = 28059 VA
TOTAL LOAD: 67698 VA 83484 VA 100 AMPS

NO. DATE BY

REVISIONS

L&S Engineering
High Performance Design
The Commission Building, West 28 Pacific Avenue, Suite 211 Spokane, Washington 99201
509.747.2175 Fax: 509.747.2926 www.lands.com

ZBla

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427 W Riverside - Suite 800 - Spokane WA 99201
t. 509.465.8226 f. 509.747.1570
www.zeckbutler.com

LEGEND: ONE-LINE

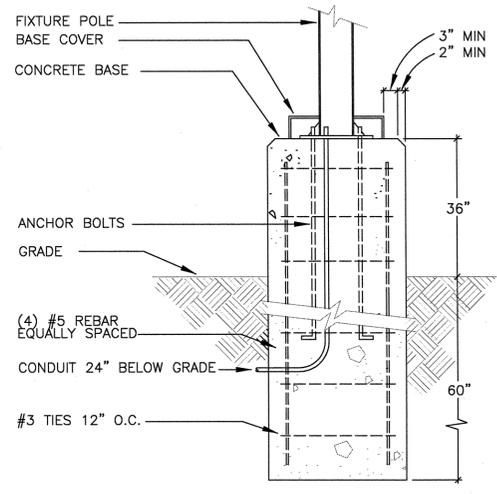
PROJECT TITLE
GRANT COUNTY LANDFILL COMPLEX
EPHRATA, WASHINGTON
GRANT COUNTY PUBLIC WORKS DEPARTMENT

SHEET TITLE
SEAL

WESLEY DAWN WELLS
REGISTERED PROFESSIONAL ENGINEER
32375
5-24-2011

PROJECT NO. 1009
DRAWN: L&S
CHECKED: JDM
DATE: 5/16/2011
DRAWING NO.

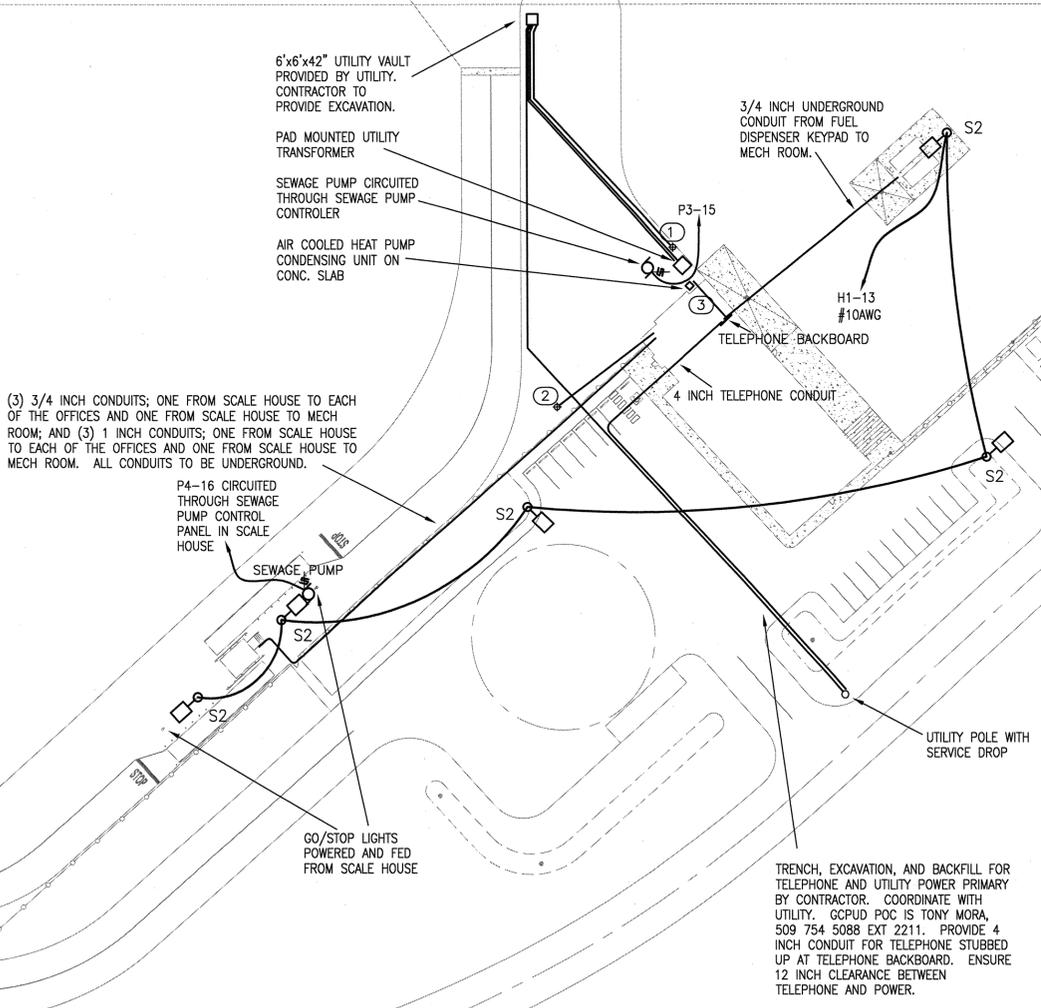
EOO1



1 POLE BASE DETAIL
NOT TO SCALE

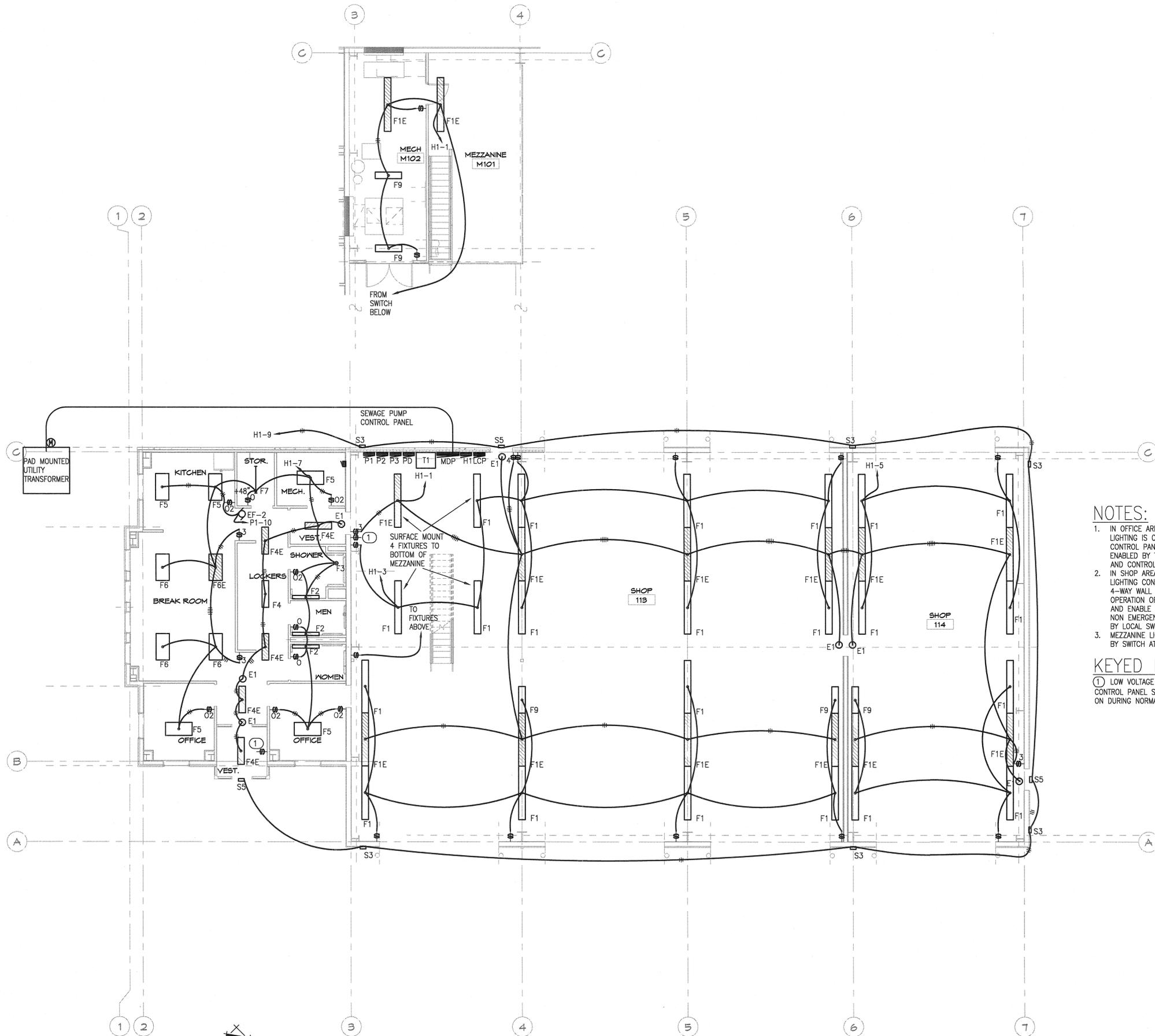
KEYED NOTES

- STUB OUT FOUR UNDERGROUND CONDUITS TO THIS LOCATION 25 FEET NORTHWEST OF THE BUILDING. PROVIDE ONE 2 INCH CONDUIT EACH FROM PANELS MD AND MDP. PROVIDE ONE 1 INCH CONDUIT EACH FROM PANELS H1 AND P3. ALSO PROVIDE TWO 3 INCH CONDUITS FROM THE TRANSFORMER VAULT TO THIS SAME LOCATION. ALL CONDUITS ARE TO HAVE PULL CORDS INSTALLED AND ENDS SEALED. PROVIDE METAL MARKER STAKE DRIVEN INTO GROUND FLUSH WITH SURFACE AT THIS LOCATION.
- STUB OUT 2 INCH CONDUIT FROM IRRIGATION CONTROLLER TO IRRIGATION VALVE BOX AT THIS LOCATION. CONFIRM CONDUIT SIZE AND VALVE BOX LOCATION WITH LANDSCAPE CONTRACTOR.
- STUB OUT 2 INCH CONDUIT FROM UTILITY VAULT TO BASE OF TELEPHONE BACKBOARD FOR FUTURE FIBER.



1 SITE PLAN - ELECTRICAL
1" = 50'-0"

P:\2010\Grant County Landfill Complex - Ephrata\2010-0450\E201 Floor plan Shop Building.dwg, E201.LTG, 5/24/2011 2:57:41 PM, davew



NOTES:

1. IN OFFICE AREA, VESTIBULES AND LOCKERS LIGHTING IS CONTROLLED BY LIGHTING CONTROL PANEL. ALL OTHER LIGHTING IS ENABLED BY THE LIGHTING CONTROL PANEL AND CONTROLLED BY LOCAL SWITCHES.
2. IN SHOP AREA LIGHTING IS ENABLED BY THE LIGHTING CONTROL PANEL. THE 3- AND 4-WAY WALL SWITCHES CONTROL NORMAL OPERATION OF THE EMERGENCY FIXTURES AND ENABLE THE OTHER FIXTURES. ALL NON-EMERGENCY FIXTURES ARE CONTROLLED BY LOCAL SWITCHES.
3. MEZZANINE LIGHT FIXTURES ARE CONTROLLED BY SWITCH AT BOTTOM OF STAIRS.

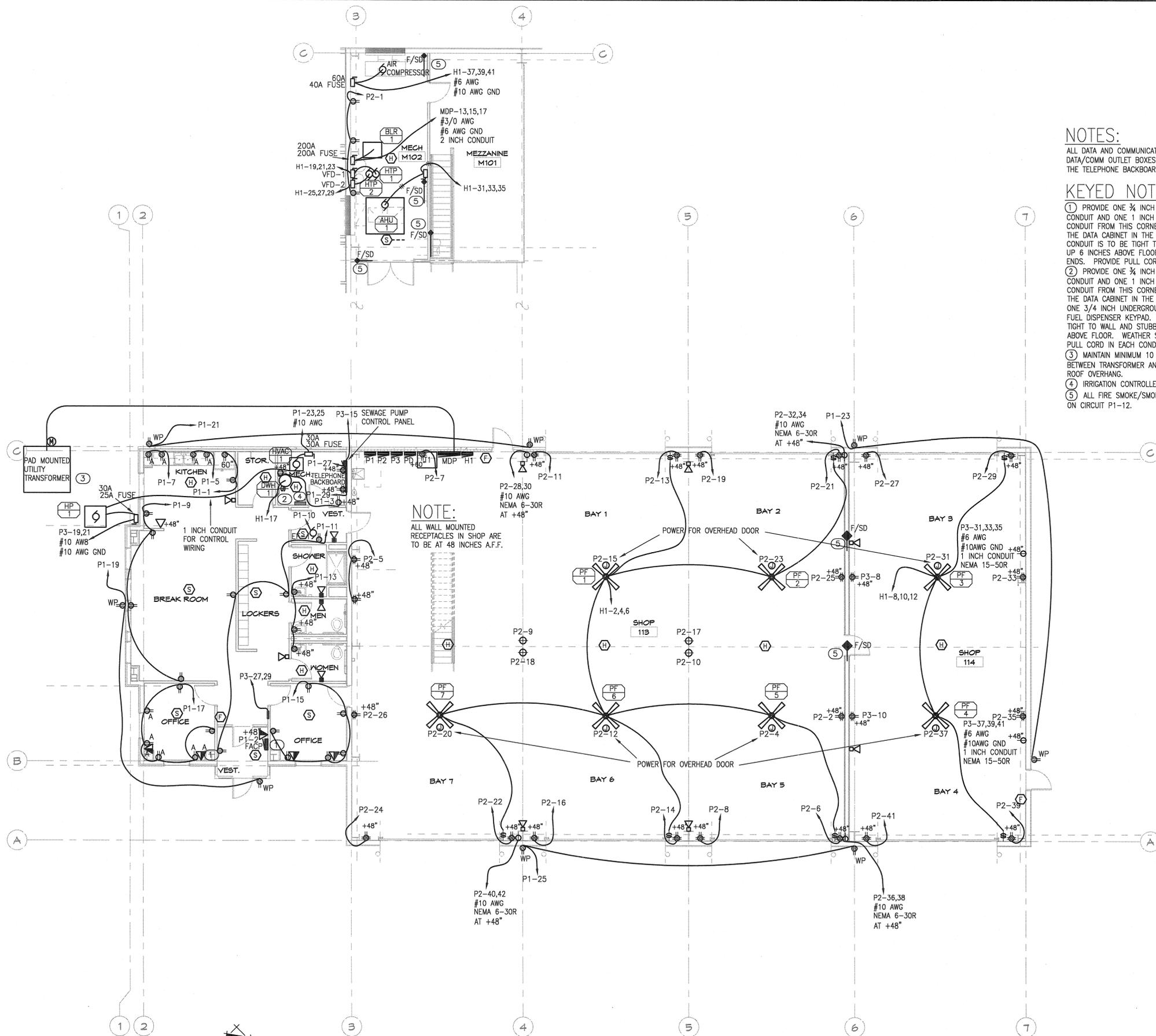
KEYED NOTES:

- ① LOW VOLTAGE SWITCH TO OVERRIDE LIGHTING CONTROL PANEL SETTINGS AND ENABLE LIGHTS ON DURING NORMAL SCHEDULED OFF PERIODS.

1 FLOOR PLAN - SHOP BUILDING - LIGHTING
1/8" = 1'-0"

NO.	DATE	BY
REVISIONS		
 The Commission Building, West 216 Pacific Avenue, Suite 211, Spokane, Washington 99201 (509) 747-2779 Fax (509) 747-2886 www.lseeng.com		
 ZECK BUTLER ARCHITECTS P.S. 421 W. Riverside, Suite 800, Spokane, WA 99201 t 509.456.8236 f 509.747.0570 www.zeckbutler.com		
SHEET TITLE: SHOP BUILDING - FLOOR PLAN LIGHTING PROJECT TITLE: GRANT COUNTY LANDFILL COMPLEX EPHRATA, WASHINGTON GRANT COUNTY PUBLIC WORKS DEPARTMENT		
 5-24-2011		
PROJECT NO.	1009	
DRAWN:	L&S	
CHECKED:	JDM	
DATE:	5/16/2011	
DRAWING NO.	E201	

Grant County Landfill Complex - Ephrata2010-0450/E201 Floor plan Shop Building.dwg, E202 PWR, 5/24/2011 2:55:56 PM, davev



1 FLOOR PLAN - SHOP BUILDING - POWER AND SYSTEMS
1/8" = 1'-0"

NOTES:
ALL DATA AND COMMUNICATIONS RACEWAY FROM DATA/COMM OUTLET BOXES IS TO TERMINATE AT THE TELEPHONE BACKBOARD IN THE MECH ROOM.

- KEYED NOTES:**
- ① PROVIDE ONE 3/4 INCH UNDERGROUND CONDUIT AND ONE 1 INCH UNDERGROUND CONDUIT FROM THIS CORNER OF THE ROOM TO THE DATA CABINET IN THE SCALE HOUSE. CONDUIT IS TO BE TIGHT TO WALL AND STUBBED UP 6 INCHES ABOVE FLOOR. WEATHER SEAL ENDS. PROVIDE PULL CORD IN EACH CONDUIT.
 - ② PROVIDE ONE 3/4 INCH UNDERGROUND CONDUIT AND ONE 1 INCH UNDERGROUND CONDUIT FROM THIS CORNER OF THE ROOM TO THE DATA CABINET IN THE SCALE HOUSE, AND ONE 3/4 INCH UNDERGROUND CONDUIT TO THE FUEL DISPENSER KEYPAD. CONDUIT IS TO BE TIGHT TO WALL AND STUBBED UP 6 INCHES ABOVE FLOOR. WEATHER SEAL ENDS. PROVIDE PULL CORD IN EACH CONDUIT.
 - ③ MAINTAIN MINIMUM 10 FEET CLEARANCE BETWEEN TRANSFORMER AND BUILDING WALL AND ROOF OVERHANG.
 - ④ IRRIGATION CONTROLLER
 - ⑤ ALL FIRE SMOKE/SMOKE DAMPERS TO BE ON CIRCUIT P1-12.

NO.	DATE	BY
REVISIONS		



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www.zbba.com

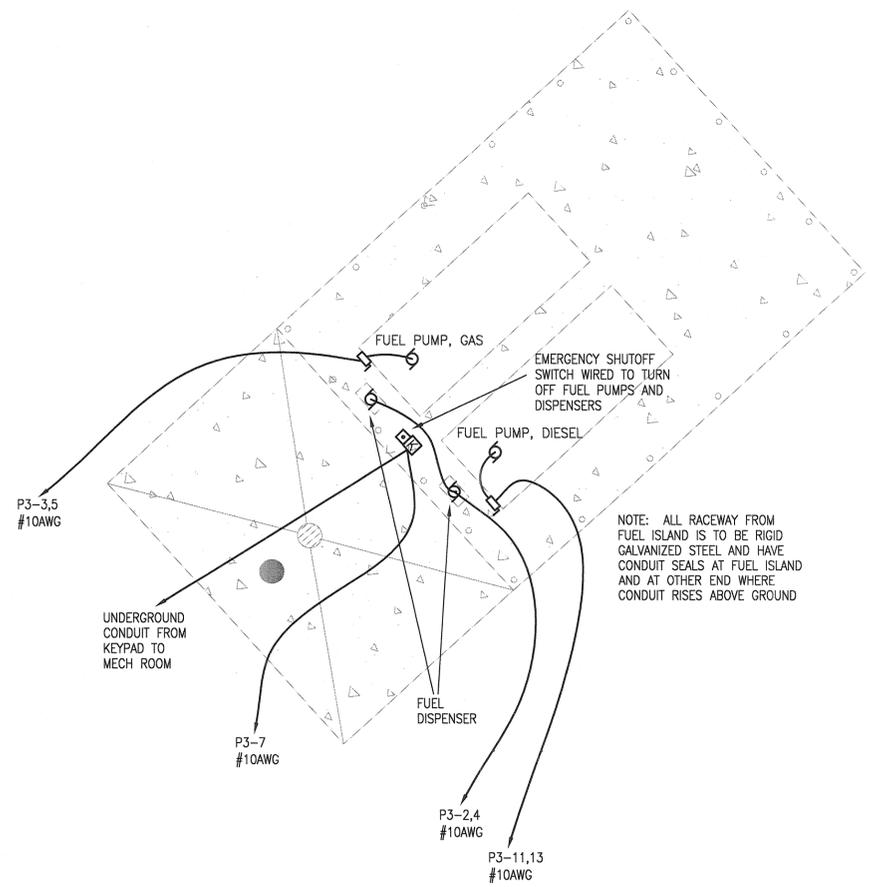
SHOP BUILDING - FLOOR PLAN
POWER AND SYSTEMS

PROJECT TITLE
GRANT COUNTY LANDFILL COMPLEX
EPHRATA, WASHINGTON
GRANT COUNTY PUBLIC WORKS DEPARTMENT

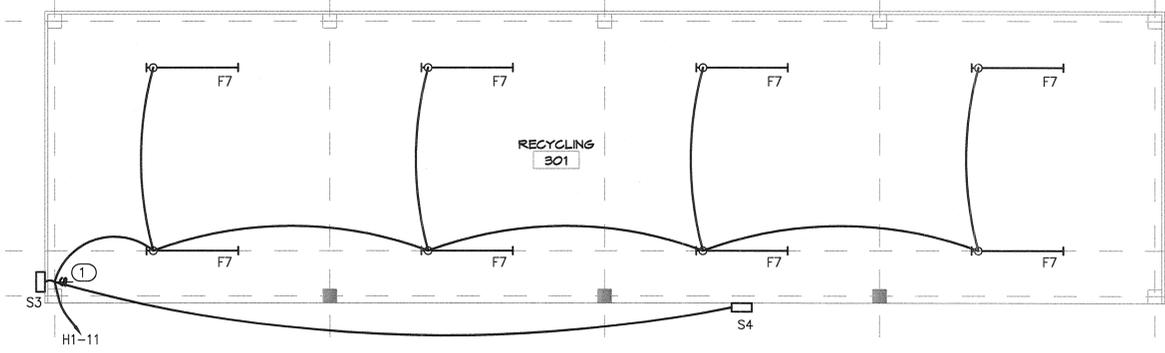


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DRAWN: LGS
CHECKED: ---
DATE: 5/16/2011
DRAWING NO.

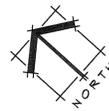
E202



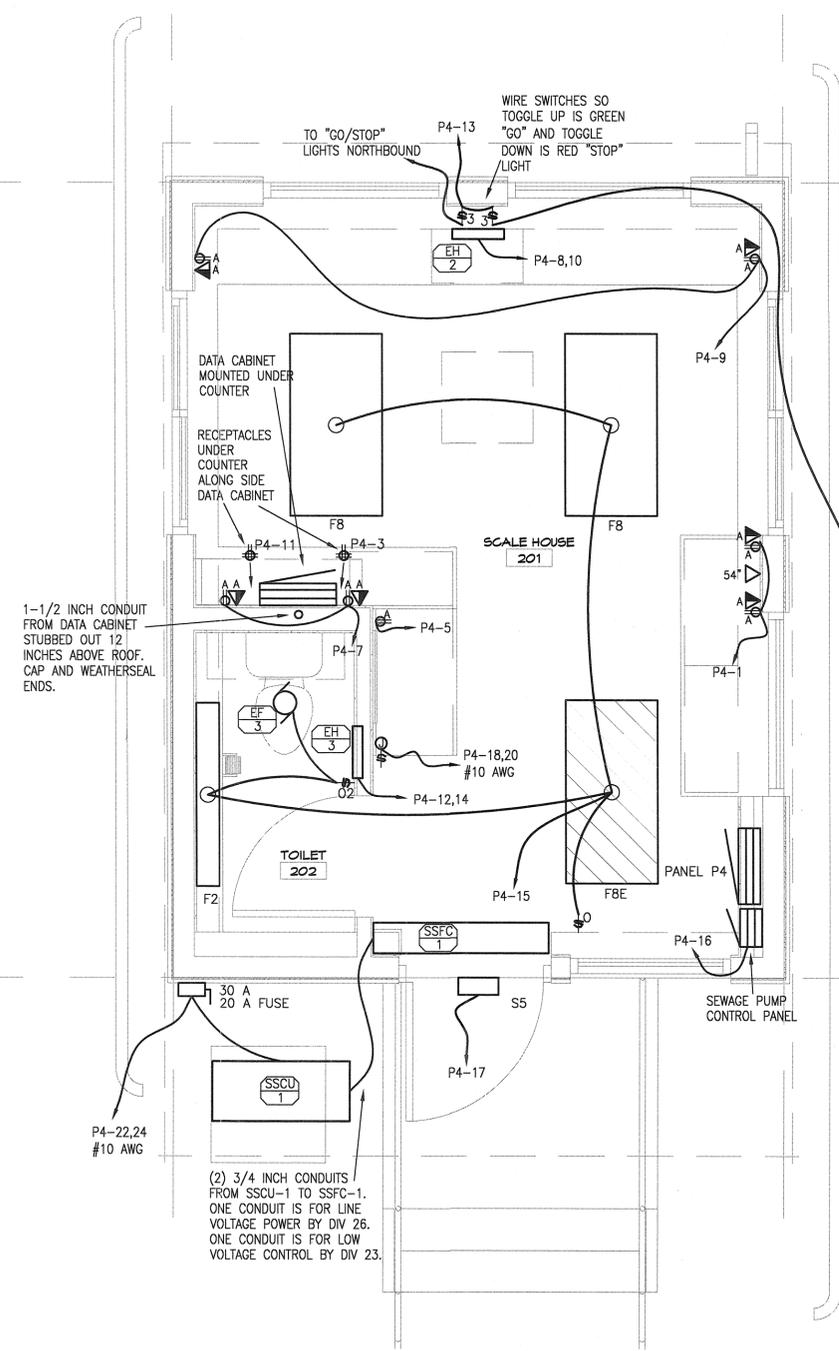
3 ELECTRICAL PLAN - REFUELING
1/8" = 1'-0"



KEYED NOTE:
① SWITCH TO BE WEATHERPROOF WITH HUBBELL HBL1795 PLATE AND HUBBELL HBL96061 LOCKING COVER, OR EQUAL. SWITCH SERVES AS BUILDING ELECTRICAL DISCONNECT.

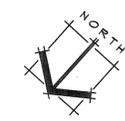


1 ELECTRICAL PLAN - RECYCLING CENTER
1/4" = 1'-0"



NOTES:

1. ALL COMMUNICATIONS AND DATA RACEWAY IS TO TERMINATE IN THE DATA CABINET.
2. FIXTURE F5 ON CIRCUIT P4-17 TO BE CONTROLLED BY PHOTOCELL. MOUNT PHOTOCELL ON ROOF, FACING NORTH AND SHIELDED FROM ARTIFICIAL LIGHT SOURCES.



2 ELECTRICAL PLAN - SCALE HOUSE
1/2" = 1'-0"

NO.	DATE	BY
REVISIONS		
The Commission Building, West 285 Pacific Avenue, Suite 211, Spokane, Washington 99201 (509) 747-2079 Fax: (509) 747-2985 www.lse.com		
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SHEET TITLE		
SHOP BUILDING - FLOOR PLAN		
PROJECT TITLE		
GRANT COUNTY LANDFILL COMPLEX		
EPHRATA, WASHINGTON		
GRANT COUNTY PUBLIC WORKS DEPARTMENT		
SEAL		
5-24-2011		
PROJECT NO.	1009	
DRAWN:	LRS	
CHECKED:	---	
DATE:	5/16/2011	
DRAWING NO.	E301	