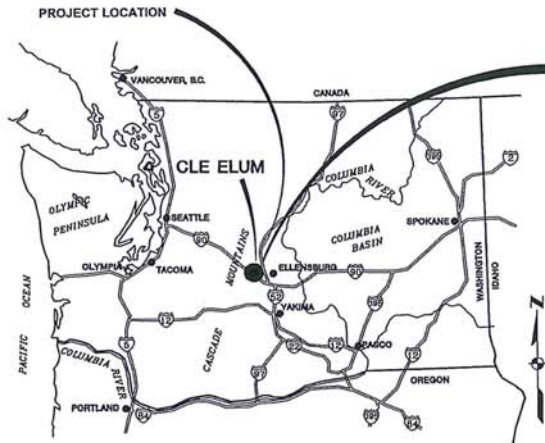


CONSTRUCTION DRAWINGS PACIFICLEAN ENVIRONMENTAL

ELK HEIGHTS ORGANICS PROCESSING FACILITY



LOCATION MAP
SCALE: NOT TO SCALE



VICINITY MAP
SCALE: NOT TO SCALE

LIST OF DRAWINGS

- GENERAL**
- ◆ G001 - TITLE SHEET - LOCATION AND VICINITY MAP, DRAWING LIST
 - ◆ G002 - GENERAL NOTES, LEGEND, SYMBOLS, ABBREVIATIONS AND PIPE SCHEDULE
 - ◆ G003 - DESIGNATION SYSTEMS, ABBREVIATIONS, LEGENDS AND SYMBOLS
 - ◆ G004 - PROCESS SCHEMATIC AND DESIGN CRITERIA

- CIVIL**
- ◆ C001 - CIVIL DETAILS I
 - ◆ C002 - CIVIL DETAILS II
 - ◆ C003 - CIVIL DETAILS III
 - ◆ C004 - CIVIL DETAILS IV
 - ◆ C005 - EROSION CONTROL DETAILS
 - ◆ C100 - EXISTING CONDITIONS, SURVEY CONTROL AND DEMOLITION PLAN
 - ◆ C101 - OVERALL SITE PLAN AND EROSION CONTROL PLAN
 - ◆ C102 - SITE GRADING AND PAVING PLAN
 - ◆ C103 - SITE DRAINAGE PLAN
 - ◆ C104 - THORP PRAIRIE ROAD PLAN & PROFILE
 - ◆ C105 - DRIVEWAY ACCESS PLAN & PROFILE
 - ◆ C106 - FACILITY ROAD WEST PLAN & PROFILE
 - ◆ C107 - FACILITY ROAD EAST PLAN & PROFILE
 - ◆ C108 - SITE GRADING SECTIONS A & B
 - ◆ C109 - SITE GRADING SECTIONS C & D
 - ◆ C110 - REUSE WATER PIPING PLAN I
 - ◆ C221 - GORE PHASE 1 HEAP PLAN AND PROFILE

- MECHANICAL**
- ◆ M001 - MECHANICAL LEGENDS AND SYMBOLS
 - ◆ M210 - TIPPING BUILDING - PLAN AND EQUIPMENT LAYOUT
 - ◆ M211 - TIPPING BUILDING - PLAN AND EQUIPMENT LAYOUT - NORTH
 - ◆ M212 - TIPPING BUILDING - PLAN AND EQUIPMENT LAYOUT - SOUTH
 - ◆ M213 - TIPPING BUILDING - SECTIONS AND DETAILS I
 - ◆ M214 - TIPPING BUILDING - SECTIONS AND DETAILS II
 - ◆ M215 - TIPPING BUILDING - HVAC AND PLUMBING SCHEMATICS AND PLANS
 - ◆ M821 - STORMWATER PUMPHOUSE PLAN AND SECTIONS

- STRUCTURAL**
- ◆ S001 - STRUCTURAL NOTES, SPECIAL INSPECTION AND TESTING SCHEDULE
 - ◆ S002 - STRUCTURAL SECTIONS AND DETAILS
 - ◆ S003 - STRUCTURAL CONCRETE STANDARD DETAILS II
 - ◆ S211 - TIPPING BUILDING FOUNDATION PLAN
 - ◆ S212 - TIPPING BUILDING FOUNDATION SECTIONS AND DETAILS
 - ◆ S213 - ELECTRICAL ROOM FOUNDATION PLAN, SECTIONS AND DETAILS
 - ◆ S214 - SITE RETAINING WALL PLAN
 - ◆ S215 - RETENTION PONDS RETAINING WALL PLAN

- ELECTRICAL**
- ◆ E001 - ELECTRICAL ABBREVIATIONS AND SYMBOLS
 - ◆ E002 - ELECTRICAL SITE PLAN I
 - ◆ E003 - ELECTRICAL SINGLE LINE DIAGRAM 1
 - ◆ E004 - ELECTRICAL SINGLE LINE DIAGRAM 2
 - ◆ E101 - ELECTRICAL DETAILS 1
 - ◆ E211 - TIPPING BUILDING PLAN - POWER AND SIGNAL PLAN
 - ◆ E821 - STORMWATER PUMPHOUSE POWER, LIGHTING, AND SIGNAL PLANS

- PROCESS AND INSTRUMENTATION**
- ◆ I001 - P&ID - SYMBOLS AND ABBREVIATIONS
 - ◆ I002 - INSTRUMENTATION AND CONTROL PANEL DETAILS
 - ◆ I211 - P&ID - TIPPING BUILDING
 - ◆ I221 - P&ID - LEACHATE COLLECTION AND PUMP STATION
 - ◆ I821 - P&ID - STORMWATER COLLECTION AND PUMP STATION

◆ DENOTES DRAWING INCLUDED IN THIS SUBMITTAL

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			DRAWN JH			JOB NO. ---
NO.	REVISION	DATE	CHECKED PLM	SHEET G001	DATE OCT 2012	OF G001

PIPING SCHEDULE												
ABBREV	SYSTEM	SIZE	SERVICE	FLOW	MATERIAL	PIPE TYPE	LINING	VALVE SYSTEM	TEST PRESSURE	TEST MEDIUM	ALLOWABLE LEAKAGE	TEST DURATION
IRR (BIO)	IRRIGATION DISCHARGE	ALL	ALL	P	PVC	V-1	-	B	150	W	NONE	4 HRS
IRR (YD)	IRRIGATION YARD DEBRIS	ALL	ALL	P	PVC	V-1	-	B	150	W	NONE	4 HRS
LDR (BIO)	LEACHATE DRAIN RETURN - BIOGASOLIDS	ALL	ALL	G	PVC	V-6	-	B	15	W	NONE	1 HR
LDR (YD)	LEACHATE DRAIN RETURN - YARD DEBRIS	ALL	ALL	G	PVC	V-5	-	B	15	W	NONE	1 HR
PW	POTABLE WATER	4"	B/E	P	CUP	T-1	-	E	150	W	NONE	4 HRS
PW	POTABLE WATER	2 1/2"	B	P	DIPB	N-1	CM	A	150	W	EQUATION A	4 HRS
SW	STORM WATER	ALL	BC	G	PVC	V-5	-	B			SEE SPECIFICATION 15050	

PIPING SCHEDULE LEGEND:

SIZE NOMINAL PIPE DIAMETER (Ø) IN INCHES	MATERIAL FOR REFERENCE ONLY, SEE SPECIFICATION 15050 FOR DETAILED PIPE MATERIALS	PIPE TYPE AND VALVE SYSTEM SEE SPECIFICATION SECTION 15050 UNLESS OTHERWISE NOTED
SERVICE	ANS ACRYLONITRILE BUTADIENE STYRENE	TEST MEDIUM
B BURIED	B540 BLACK STEEL SCH 40	A AIR
C CONCRETE ENCASED	CUP COPPER	W WATER
E EXPOSED	DIPB DUCTILE IRON BELL AND SPIGOT	FO FUEL OIL
S SUBMERGED	DIPF GALVANNEED STEEL	
FLOW	GS HDPE HIGH DENSITY POLYETHYLENE	ALLOWABLE LEAKAGE
G GRAVITY	PECP POLYETHYLENE GAS PIPE	TEST DURATION SHALL BE 4 HRS, SEE SPECIFICATION SECTION 15050
P PRESSURE	PPOL POLYPROPYLENE	NOTE:
LINING	PVC POLYVINYL CHLORIDE	
CE CERAMIC EPOXY	RCP REINFORCED CONCRETE PIPE	
CM CEMENT MOTOR	SSP STAINLESS STEEL PIPE	

GENERAL NOTES

1. TOPOGRAPHIC SURVEY HORIZONTAL DATUM: ASSUMED VERTICAL DATUM.
2. BURIED PIPELINES SHALL BE LAID SMOOTH WITH A UNIFORM SLOPE TO AVOID THE CREATION OF HIGH POINTS. PROVIDE MINIMUM COVER OF 3 FEET OVER BURIED PIPELINES UNLESS OTHERWISE INDICATED. SECTIONS OF PIPELINES MAY NEED TO BE LAID DEEPER TO SATISFY THE VERTICAL SEPARATION REQUIREMENT OF 18 INCHES WHEN CROSSING UNDER EXISTING WATER LINES.
3. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS OF UTILITY'S NOTIFICATION CENTER IN ADVANCE OF PERFORMING EXCAVATION WORK BY CALLING 811, SEE SPECIFICATIONS FOR FURTHER DETAIL.
4. SHUTDOWN OF ANY UTILITIES SHALL ONLY BE PERFORMED BY THE OWNER OF THE UTILITY. PROVIDE ADVANCED NOTICE PRIOR TO SHUT DOWN PER SPECIFICATION SECTION 9105.
5. THE TYPES, SIZES, LOCATIONS AND DEPTH OF EXISTING PIPELINES SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY AND ARE APPROXIMATE ONLY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL SUCH INFORMATION ABOUT UNDERGROUND UTILITIES AND THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF SAID INFORMATION PER THE SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE EXISTING UTILITIES, WHETHER SHOWN OR NOT SHOWN ON THE DRAWINGS, AND TO FIELD VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES. THIS SHALL BE DONE PRIOR TO THE START OF CONSTRUCTION.
6. ALL WORK NOT ADDRESSED BY THE PLANS AND SPECIFICATIONS SHALL BE COMPLETED PER APWA STANDARDS.
7. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CITY STANDARDS.
8. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE FROM DAMAGE. ALL IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE EXPEDITIOUSLY REPAIRED OR RECONSTRUCTED AT THE CONTRACTOR'S EXPENSE WITHOUT ADDITIONAL COMPENSATION.
9. PRIOR TO SUBMITTAL OF PIPE SHOP DRAWINGS THE CONTRACTOR SHALL VERIFY THE INVERT ELEVATION, ALIGNMENT, OUTSIDE DIAMETER, LOCATION, AND MATERIAL OF ALL EXISTING PIPELINES TO WHICH NEW PIPELINES WILL BE CONNECTED.
10. ALL TRENCH EXCAVATIONS 5 FEET OR MORE IN DEPTH SHALL BE SHORED OR OTHERWISE PROTECTED IN ACCORDANCE WITH STATE AND FEDERAL OSHA REQUIREMENTS, AND THE FIELD ENGINEER.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LANE AND GRADE OF ALL PIPING WITHIN THE PROJECT SITE AND ALL LAYOUT.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING RECORD DRAWINGS FOR ALL WORK THROUGHOUT THE COURSE OF CONSTRUCTION. SUCH DRAWINGS SHALL RECORD THE LOCATION AND GRADE OF ALL UNDERGROUND IMPROVEMENTS CONSTRUCTED AND SHALL BE DELIVERED TO THE OWNER PRIOR TO, AND IN CONSIDERATION OF THE OWNER'S ACCEPTANCE OF WORK.
13. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL SURPLUS EXCAVATION MATERIAL AND DEBRIS PROMPTLY FROM THE SITE AND SHALL MAINTAIN THE SITE IN A NEAT AND ORDERLY CONDITION. CONTRACTOR SHALL OBTAIN ALL NECESSARY FILL AND GRADING PERMITS.
14. THE CONTRACTOR SHALL ADJUST ALL GRADE RINGS AND VALVE BOXES TO FINISHED GRADE UNLESS OTHERWISE SHOWN OR DIRECTED.
15. CONTRACTOR SHALL PROVIDE TEMPORARY FENCING TO PROTECT THE PROJECT SITE. TEMPORARY FENCING SHALL BE MAINTAINED 24-HOURS A DAY SEVEN DAYS A WEEK.
16. PROPERTY AND RIGHT-OF-WAY LINES ARE SHOWN AS AN AID TO DESIGN ONLY. THEY DO NOT IMPLY LEGAL OWNERSHIP BOUNDARIES AND THERE IS NO GUARANTEE EXPRESSED OR IMPLIED WITH RESPECT TO ACCURACY.

GENERAL PIPING NOTES

1. INFORMATION PROVIDED ON THIS SHEET ARE MINIMUM REQUIREMENTS. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. SIZE OF FITTINGS SHALL CORRESPOND TO ADJACENT STRAIGHT RUN OF PIPE, UNLESS OTHERWISE INDICATED. TYPE OF JOINT AND FITTING MATERIAL SHALL BE THE SAME AS SHOWN FOR ADJACENT STRAIGHT RUN OF PIPE, EXCEPT C900 PVC WHICH SHALL USE DUCTILE IRON FITTINGS.
2. PIPE SUPPORTS FOR PIPES 4" DIAMETER ARE NOT SHOWN FOR CLARITY AND SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH SPECIFICATION SECTION 15050 1.08.
4. APPROPRIATE STANDARD WALL PIPE DETAIL SHALL BE USED WHEREVER PIPING PASSES THROUGH A WALL.
5. ALL FLEXIBLE CONNECTORS OR FLANGED COUPLING ADAPTERS SHALL BE PROVIDED WITH THRUST RESTRAINT DEVICE, UNLESS OTHERWISE NOTED. THRUST RESTRAINTS SHALL BE ADEQUATE FOR TEST PRESSURES SPECIFIED. SEE SECTION 15050 FOR RESTRAINING SYSTEM BASED ON PIPE TYPE.
6. ALL NEW PIPING WITHIN THE PLANT SHALL BE INSTALLED WITH RESTRAINED JOINTS.
7. PIPE AND VALVE SYMBOLS USED IN THIS DRAWING SET ARE SHOWN ON M001. ALL OF THE ITEMS SHOWN ARE NOT NECESSARILY USED IN THE PROJECT.
8. NUMBER AND LOCATION OF UNIONS SHOWN ON DRAWINGS ARE ONLY APPROXIMATE. PROVIDE ALL UNIONS NECESSARY TO FACILITATE CONVENIENT REMOVAL OF VALVES AND MECHANICAL EQUIPMENT.
8. PRIOR TO SUBMITTING PIPING DRAWINGS FOR ANY NEW PIPE THAT IS TO CONNECT TO AN EXISTING PIPE OR STRUCTURE, THE CONTRACTOR SHALL EXPOSE THE EXISTING PIPE OR STRUCTURE TO VERIFY ITS EXACT LOCATION, SIZE, MATERIALS, AND INVERT ELEVATIONS.
10. ALL EXPOSED PIPING IS TO BE PAINTED AND LABELED UNLESS NOTED OTHERWISE. LABELING SHALL INCLUDE FLOW DIRECTION ARROW AND PIPE USE. PIPE COLOR TO BE COORDINATED WITH OWNER.
11. ALL PIPING UNDER STRUCTURES SHALL BE CONCRETE ENCASED UNLESS NOTED OTHERWISE.
12. FOR ALL ABANDONED PIPES, FILL END OF PIPE WITH CONCRETE PLUG PER DETAIL 15003.
13. EXTEND ALL FUTURE PIPING STUB-OUT CONNECTIONS AT LEAST 18-INCHES FROM WALL OF STRUCTURE AND PROVIDE BLIND FLANGE.
14. INSTALL FLANGE COUPLING ADAPTERS AT ALL METERS.
15. PROVIDE A DIFFERENTIAL SETTLEMENT JOINT ON ALL PIPES ENTERING OR LEAVING A STRUCTURE IN ACCORDANCE WITH TYPICAL DETAIL PER M005.
16. WATERLINE CROSSINGS TO COMPLY WITH OAR (OREGON ADMINISTRATIVE RULES) 532.

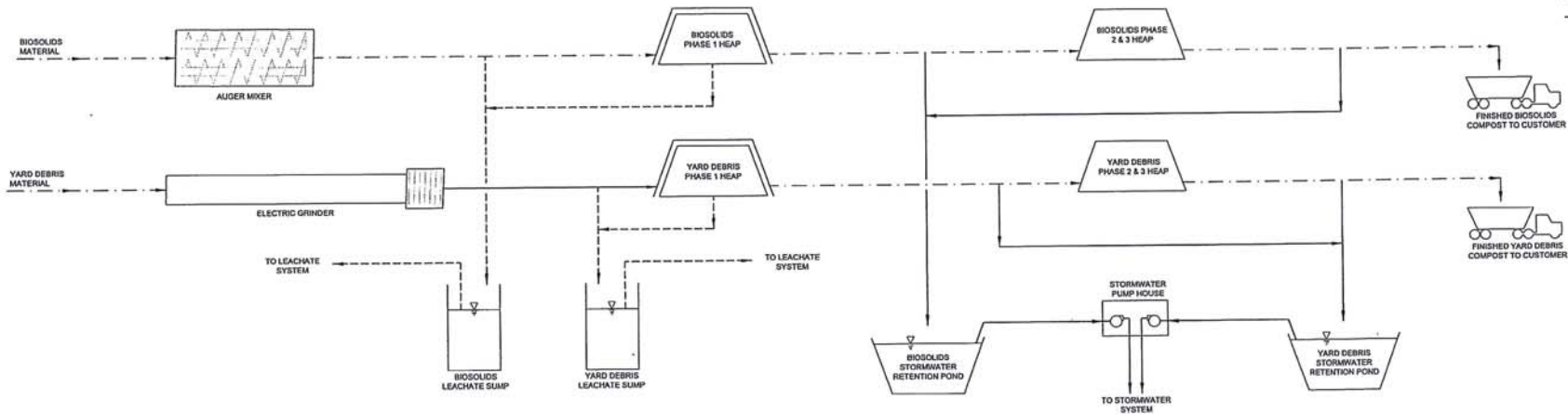
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	NO.	REVISION							

PROCESS SCHEMATIC

PIPE LEGEND:
 - - - - MATERIAL STREAM
 - - - - LEACHATE STREAM
 ——— SITE STORMWATER STREAM



DESIGN CRITERIA

ITEM DESCRIPTION	VALUE
COMPOST HEAPS	
YARD DEBRIS HEAPS	
NUMBER	18
PHASE 1	20
PHASE 2	38
TOTAL	28 FT
WIDTH	165 FT
LENGTH	80,000 TONS/YR
PROCESSING CAPACITY	150,000 TONS/YR
BIOSOLIDS HEAPS	
NUMBER	18
PHASE 1	20
PHASE 2	38
TOTAL	28 FT
WIDTH	165 FT
LENGTH	80,000 TONS/YR
PROCESSING CAPACITY	150,000 TONS/YR
COMPOST BLOWERS	
NUMBER, TOTAL	32
PHASE 1	40
PHASE 2	1025 SCFM
CAPACITY, EACH	2 HP
HORSEPOWER, EACH	
LEACHATE SYSTEM	
TANKS	
NUMBER	4
SIZE, EACH	10,000 GAL
PUMPS	
NUMBER	2
FLOW CAPACITY	5 GPM
HEAD	30 FT

DESIGN CRITERIA continued

ITEM DESCRIPTION	VALUE
MOBILE COVER WINDER	
NUMBER	4
CAPACITY	49 FT/MIN
HORSEPOWER, EACH	68 HP
TROMMEL MATERIAL SCREENER	
NUMBER	1
CAPACITY	250 TONS/HR
HORSEPOWER, EACH	175 HP
TIPPING BUILDING	
LENGTH	180 FT
WIDTH	120 FT
HEIGHT 1	50 FT
HEIGHT 2	30 FT
VOLUME	744,200 CU FT
FRAME MATERIAL	DALVANIZED STEEL
BUILDING MATERIAL	15 oz PE FABRIC
ODOR CONTROL BIOFILTER	
NUMBER	4
LENGTH, EACH	35.5 FT
WIDTH, EACH	84.0 FT
BIOFILTER BLOWER	
NUMBER	4
CAPACITY, EACH	12,400 SCFM
DISCHARGE PRESSURE, EACH	4.7 IN H ₂ O
HORSEPOWER, EACH	40 HP
TRAILER TIPPER	
NUMBER	2
MAX TRAILER SIZE	51 FOOTER
HORSEPOWER, EACH	75 HP
ELECTRIC GRINDER	
NUMBER	1
CAPACITY	130 TONS/HR
HORSEPOWER, EACH	1550 HP

DESIGN CRITERIA continued

ITEM DESCRIPTION	VALUE
DIESEL GRINDER	
NUMBER	2
CAPACITY	130 TONS/HR
HORSEPOWER, EACH	1050 HP
ELECTRIC AUGER MIXER	
NUMBER	2
CAPACITY	130 TONS/HR
HORSEPOWER, EACH	75 HP
BELT CONVEYOR	
BELT #1	
NUMBER	2
LENGTH	202 FT
WIDTH	48 IN
SPEED	380 FT/MIN
CAPACITY	130 TONS/HR
HORSEPOWER, EACH	20 HP
BUCKET ELEVATOR	
NUMBER	2
HEIGHT	27 FT
WIDTH	48 IN
SPEED	288 FT/MIN
CAPACITY	130 TONS/HR
HORSEPOWER, EACH	10
3-WAY CHUTE	
NUMBER	2
AIR ACTUATORS, EACH	3
CHUTE SIZE	25"x20"
STORMWATER RETENTION PONDS - FIRST CONSTRUCTION PHASE	
NUMBER	2
CAPACITY	4.12 MG
MAX WATER DEPTH	7.50 FT
FREE BOARD	1.5 FT
SIDE SLOPE	3:1
LINER TYPE	CLAY
LINER THICKNESS	XXX

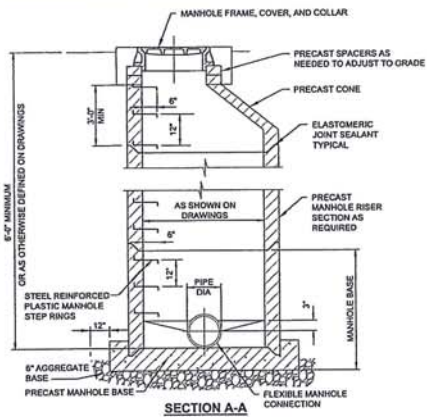
DESIGN CRITERIA continued

ITEM DESCRIPTION	VALUE
IRRIGATION SYSTEM	
IRRIGATION AREA 1 SIZE	7.45 ACRES
IRRIGATION AREA 2 SIZE	1.83 ACRES
DEMAND FLOW	50 GPM
DEMAND PRESSURE	50 PSI
NUMBER OF RISERS	2
IRRIGATION AREA 1	2
IRRIGATION AREA 2	1
BIOSOLIDS STORMWATER PUMP PACKAGE	
NUMBER	2
PUMP DESIGN POINT	50 GPM
PUMP RANGE	7.5 HP
HORSEPOWER, EACH	80 PSI
SYSTEM PRESSURE CONTROL	TIMER
YARD DEBRIS STORMWATER PUMP PACKAGE	
NUMBER	2
PUMP DESIGN POINT	200 GPM
PUMP RANGE	75-200 GPM
HORSEPOWER, EACH	10 HP
SYSTEM PRESSURE CONTROL	70 PSI
	VFD

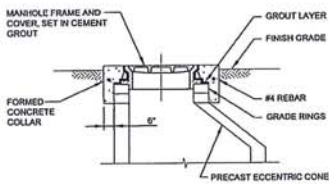
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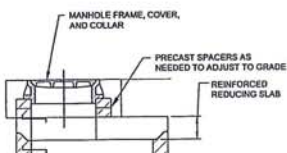
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	DRAWN J.L.H.			JOB NO. ---
	CHECKED P.L.V.M.			DATE OCT 2012
	SCALES 0" = 1" 0" = 25mm IF THIS BAR IS NOT DIMENSIONED, SHOW ASSET SCALAR ACCORDINGLY.			SHEET NO. OF G004



MANHOLE BASE AND RISER SCHEDULE UNLESS OTHERWISE NOTED ON PLANS	
SEWER DIAMETER, INCHES	MINIMUM MANHOLE BASE AND RISER DIAMETER, INCHES
21 OR LESS	48
24 TO 36	60
42	72



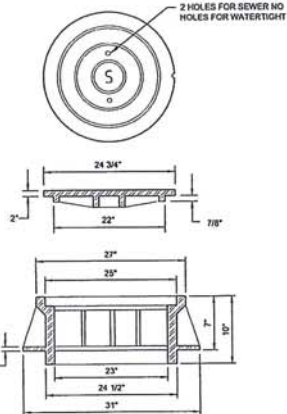
MANHOLE COLLAR



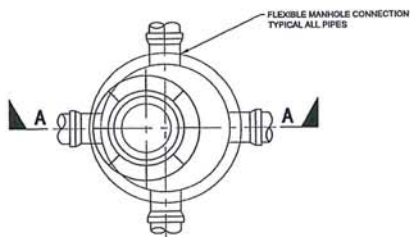
FLAT TOP MANHOLE DETAIL

NOTE:
FLEXIBLE MH CONNECTION TO BE FLEX BOOT BY KOR-N-SEAL OR APPROVED EQUAL.

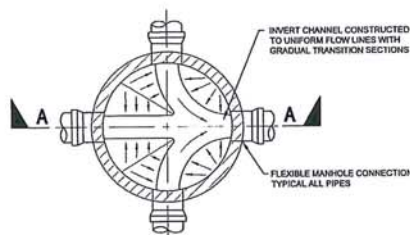
STANDARD MANHOLE DETAIL 1
NOT TO SCALE



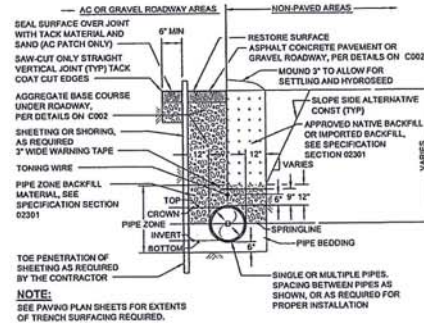
FRAME AND COVER



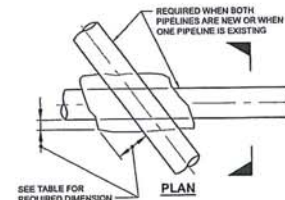
MANHOLE TOP PLAN



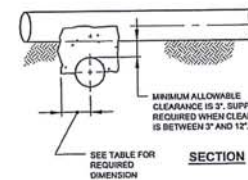
MANHOLE INVERT PLAN



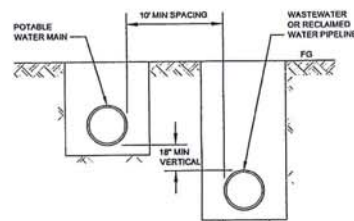
TYPICAL TRENCH DETAIL 2
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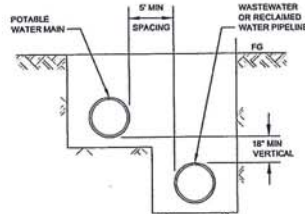
PIPELINE SIZE	TYPICAL DIMENSION
SMALLER THAN 2'-10"	3'
2'-10" TO 12"	6'
LARGER THAN 12"	12'



CONC SUPPORT FOR PIPE CROSSING DETAIL 3
NOT TO SCALE



OPTION A - SEPARATE TRENCH (PREFERRED)



OPTION B - COMMON TRENCH

- NOTES:
- DISTANCE FOR HORIZONTAL AND VERTICAL CLEARANCE MEASURED FROM NEAREST EDGE
 - OPTION A IS PREFERRED. SEPARATE TRENCHES REQUIRED
 - OPTION B UNUSUAL CONDITIONS INSTALLATION SHALL BE USED ONLY AS APPROVED BY OWNER OR ENGINEER.

PARALLEL POTABLE WATER (PW) SPACING DETAIL 4
NOT TO SCALE

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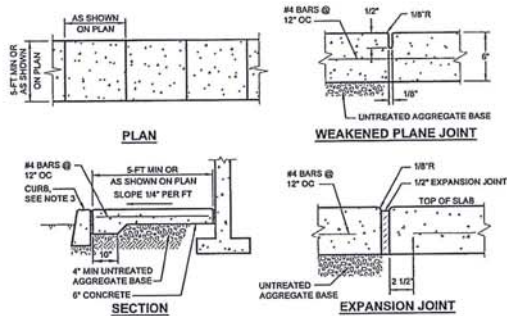
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NO.	REVISION	DATE	BY				
				JH	GAS	PLM	

DESIGNED	JH
DRAWN	GAS
CHECKED	PLM

PACIFICLEAN ENVIRONMENTAL
OLE ELUM, WASHINGTON
**ELK HEIGHTS
ORGANICS PROCESSING FACILITY**
Kennedy/Jenks Consultants
200 SW MARKET ST., SUITE 500, PORTLAND, OR 97201

CIVIL DETAILS I

FILE NAME	121010000001.DWG
JOB NO.	
DATE	OCT 2012
SHEET	OF
C001	

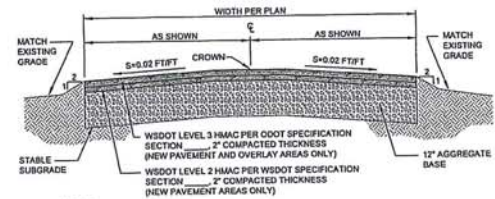


- NOTES:**
1. ALL CONCRETE SIDEWALKS SHALL HAVE 1/2" EXPANSION JOINTS EVERY 30' AND SHALL HAVE WEAKENED PLANE JOINTS EVERY 5'.
 2. ALL SIDEWALKS TO BE 6" THICKNESS WITH #4 REINFORCING BARS AT 12" OC BOTH WAYS.
 3. CURB PER S/C002, FINISH SURFACING BEYOND CURB TO BE AS SHOWN ON CIVIL PLANS.

6-INCH CONCRETE SIDEWALK DETAIL 1
NOT TO SCALE C002

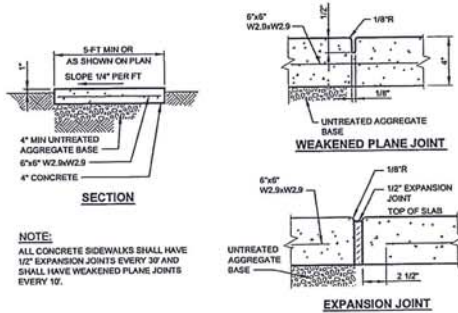


CONCRETE ENCASEMENT DETAIL 2
NOT TO SCALE C002



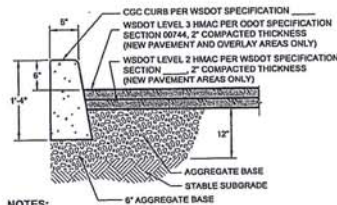
- NOTES:**
1. THE 2% CROWN SHOWN APPLIES TO STANDARD ROAD SECTIONS ONLY. OTHER SURFACED AREAS SHALL BE GRADED AS SHOWN.
 2. REFER TO SPECIFICATION SECTIONS 02301 & 02705 FOR AGGREGATE BASE REQUIREMENTS.
 3. OVER EXCAVATE AND STABILIZE SOFT AREAS AS NECESSARY. STABILIZE WITH WOVEN GEOTEXTILE FABRIC AND AGGREGATE BASE. SEE SPECIFICATION 02301 FOR SOFT ZONE DEFINITION AND REQUIREMENTS.

AC PAVING SECTION WITHOUT CURB 3
NOT TO SCALE C002



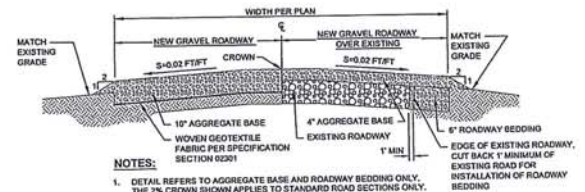
NOTE:
ALL CONCRETE SIDEWALKS SHALL HAVE 1/2" EXPANSION JOINTS EVERY 30' AND SHALL HAVE WEAKENED PLANE JOINTS EVERY 5'.

4-INCH CONCRETE SIDEWALK DETAIL 4
NOT TO SCALE C002



- NOTES:**
1. CONSTRUCT 2" LIFT WSDOT LEVEL 2 HMAAC OVER EXISTING UNPAVED AREAS AFTER COMPLETION OF BUILDING FOUNDATIONS. MATCH ELEVATION OF EXISTING AC PAVEMENT WHERE REQUIRED.
 2. CONSTRUCT 2" LIFT WSDOT LEVEL 2 HMAAC OVER NEW AND EXISTING PAVED AREAS.
 3. EXCAVATE AND STABILIZE SOFT SUBGRADE AREAS AS REQUIRED. STABILIZED WITH WOVEN GEOTEXTILE FABRIC AND AGGREGATE BASE.
 4. WHERE CONNECTING TO EXISTING AC PAVEMENT, SANCUT AND REMOVE 12" OF EXISTING PAVEMENT. SAND AND SEAL SEAM AFTER PAVING.
 5. SANCUT AND REMOVE DETERIORATED AREAS OF EXISTING AC PRIOR TO FINAL PAVING AS DETERMINED BY ENGINEER.
 6. CURB TO BE "STANDARD CURB" OR "STANDARD CURB AND GUTTER" PER WSDOT STANDARD DRAWING _____.
 7. MIN 6" AGGREGATE BASE UNDER CURBS

CURB AND AC PAVING DETAIL 5
NOT TO SCALE C002



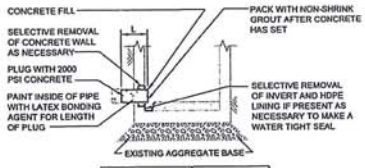
- NOTES:**
1. DETAIL REFERS TO AGGREGATE BASE AND ROADWAY BEDDING ONLY. THE 2% CROWN SHOWN APPLIES TO STANDARD ROAD SECTIONS ONLY. OTHER SURFACED AREAS SHALL BE GRADED AS SHOWN.
 2. REFER TO SPECIFICATION SECTIONS 02301 & 02705 FOR AGGREGATE BASE REQUIREMENTS.
 3. OVER EXCAVATE AND STABILIZE SOFT AREAS AS NECESSARY. STABILIZE WITH WOVEN GEOTEXTILE FABRIC AND AGGREGATE BASE. SEE SPECIFICATION 02301 FOR SOFT ZONE DEFINITION AND REQUIREMENTS.
 4. TOP 4" OF AGGREGATE BASE TO BE INSTALLED AFTER SUBSTANTIAL COMPLETION OF PROJECT.

TYPICAL GRAVEL ROADWAY SECTION 6
NOT TO SCALE C002

50% SUBMITTAL

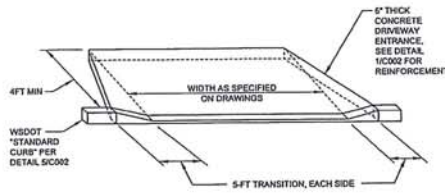
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USE OF DOCUMENTS THIS DOCUMENT, INCLUDING THE INCORPORATED DESIGNS, IS AN INSTRUMENT OF SERVICE FOR THIS PROJECT AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF KENNEDY/JENKS CONSULTANTS, P.C.	NO.	REVISION	DATE	BY
SCALES 0" = 1" 0 = 25mm IF THIS BAR IS NOT DIMENSIONED, SHOW AS APPROPRIATE.				
DESIGNED	PACIFIC CLEAN ENVIRONMENTAL OLE ELUM, WASHINGTON			
DRAWN	ELK HEIGHTS ORGANICS PROCESSING FACILITY			
CHECKED	Kennedy/Jenks Consultants 200 SW MARKET ST., SUITE 500, PORTLAND, OR 97201			
	CIVIL DETAILS II			
FILE NAME: 129100090002.DWG JOB NO.: DATE: OCT 2012 SHEET: 1 OF 1 C002				

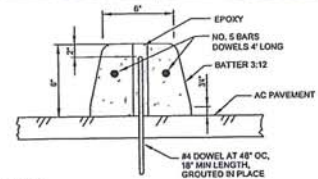


PIPE SIZE	FILL LENGTH (L)
DIAMETER = 8"	48"
DIAMETER <= 8"	FULL LENGTH

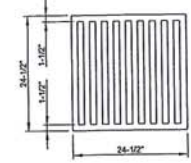
TYPICAL PLUG DETAIL (1)
NOT TO SCALE



DRIVEWAY ENTRANCE DETAIL (2)
NOT TO SCALE

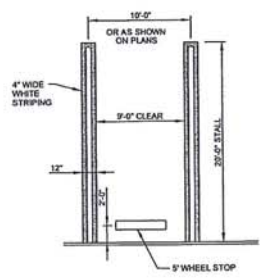


PRECAST WHEEL STOP (TYP) (3)
NOT TO SCALE

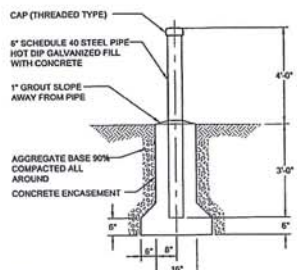


GRATE DETAIL
(CAST IRON OR CAST STEEL)

- NOTES:**
1. ALL CASTINGS SHALL CONFORM TO ASTM A 48/A480 M 150 FOR GRAY IRON CASTINGS, CLASS 30, OR (AS SHOWN IN 1000 CLASS 70) FOR CAST STEEL.
 2. ROUNDS, FILLETS, TAPERS AND OTHER MINOR MODIFICATIONS TO THE DIMENSIONS SHOWN FOR CASTINGS MAY BE MADE TO CONFORM TO COMMON SHOP PRACTICES.
 3. GRATES AND FRAMES MAY BE OF CAST OR WELDED CONSTRUCTION. AT THE CONTRACTOR'S OPTION STEEL OF WELDED GRATE & FRAME SHALL BE ASTM A-7 OR ASTM A-373.

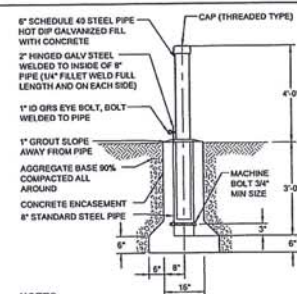


PARKING STALL (TYP) (5)
NOT TO SCALE



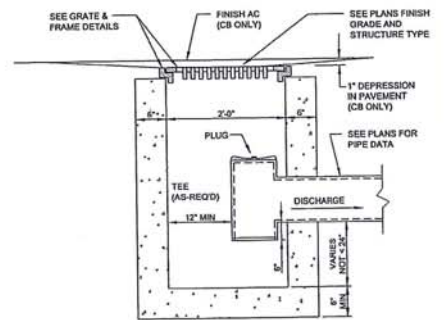
BOLLARD DETAIL (6)
NOT TO SCALE

- NOTES:**
1. STEEL PIPE SHALL BE SEAMLESS, CONFORMING TO ASTM A53, GRADE A.
 2. HOT DIP GALVANIZED PIPE IN ACCORDANCE WITH ASTM A525, G-90 COMMERCIAL.
 3. GUARD POSTS SHALL BE LOCATED A MIN OF 4.5' AND MAX OF 5.5' FROM IDENTIFIED FACILITY OR AS NOTED ON THE DRAWING.
 4. POSTS TO BE PAINTED FEDERAL SAFETY YELLOW.

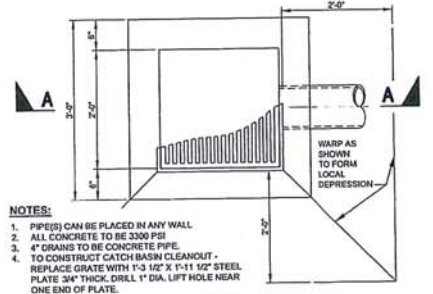


REMOVABLE BOLLARD DETAIL (7)
NOT TO SCALE

- NOTES:**
1. STEEL PIPE SHALL BE SEAMLESS, CONFORMING TO ASTM A53, GRADE A.
 2. HOT DIP GALVANIZED PIPE IN ACCORDANCE WITH ASTM A525, G-90 COMMERCIAL.
 3. GUARD POSTS SHALL BE LOCATED A MIN OF 4.5' AND MAX OF 5.5' FROM IDENTIFIED FACILITY.
 4. POSTS TO BE PAINTED FEDERAL SAFETY YELLOW.



SECTION A-A



CATCH BASIN (TYP) (4)
NOT TO SCALE

- NOTES:**
1. PIPE(S) CAN BE PLACED IN ANY WALL.
 2. ALL CONCRETE TO BE 3000 PSI.
 3. 4" GRANS TO BE CONCRETE PIPE.
 4. TO CONSTRUCT CATCH BASIN CLEANOUT - REPLACE GRATE WITH 1-3/16" X 1-1/2" X 1-1/2" STEEL PLATE 3/4" THICK, DRILL 1" DIA. LIFT HOLE NEAR ONE END OF PLATE.

PLAN

50% SUBMITTAL

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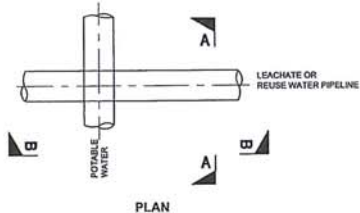
NO.	REVISION	DATE	BY

DESIGNED	JLH
DRAWN	DAS
CHECKED	PLM

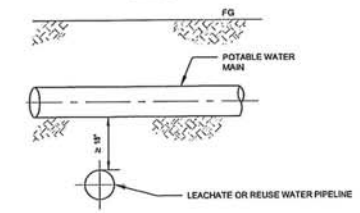
PACIFIC CLEAN ENVIRONMENTAL
CLE ELUM, WASHINGTON
**ELK HEIGHTS
ORGANICS PROCESSING FACILITY**
Kennedy/Jenks Consultants
200 SW MARKET ST., SUITE 500, PORTLAND, OR 97201

CIVIL DETAILS III

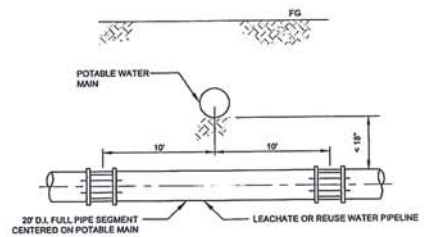
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JOB NO.	
DATE	OCT 2012
SHEET	C003



PLAN



SECTION A-A \geq 18" VERTICAL SEPARATION



SECTION B-B $<$ 18" VERTICAL SEPARATION

NOTES:

1. WATERLINE CROSSINGS TO COMPLY WITH OAR 233.
2. PROVIDE CONCRETE ENCASEMENT, IF VERTICAL SPACING REQUIRES, PER DETAIL 20C002.
3. POTABLE WATER MAIN SHALL NOT BE INSTALLED BELOW LEACHATE OR REUSE WATER PIPELINE
4. SECTION A-A IS PREFERRED
5. SECTION B-B INSTALLATION SHALL BE APPROVED BY OWNER OR ENGINEER.

PERPENDICULAR PW CROSSING DETAIL 1
 NOT TO SCALE C004

50% SUBMITTAL

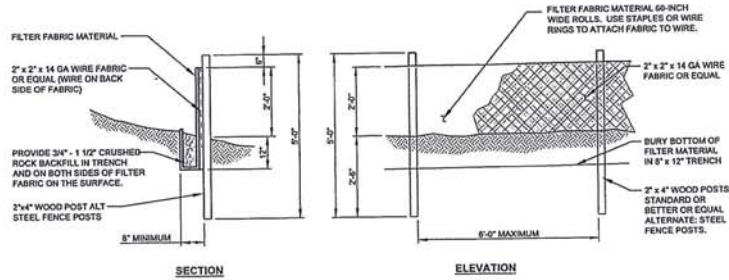
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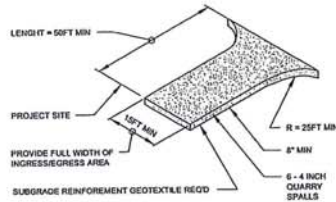
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EROSION/SEDIMENTATION CONTROL (ESC) NOTES:

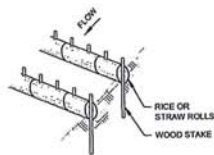
1. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
2. THE BOUNDARIES OF THE CLEARING LIMITS SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
3. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT LAUGH WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS.
4. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED (E.G., ADDITIONAL BUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS.
5. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
6. ANY AREA STRIPPED OF VEGETATION, INCLUDING ROADWAY EMBANKMENTS, WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 15 DAYS, SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, NETTING, EROSION BLANKETS, ETC.)
7. ANY AREA NEEDING ESC MEASURE, NOT REQUIRING IMMEDIATE ATTENTION, SHALL BE ADDRESSED WITHIN FIFTEEN (15) DAYS.
8. THE ESC FACILITIES IN INACTIVE AREAS SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A STORM EVENT.
9. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING.
10. STABILIZED CONSTRUCTION ENTRANCES AND VEHICLE WASH PADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
11. REFER TO SPECIFICATION SECTION 82370 FOR HYDROSEED MIX.
12. ALL EROSION CONTROL REQUIREMENTS TO BE IN ACCORDANCE WITH APPROVED WAPDES CONSTRUCTION STORMWATER PERMIT. CONTRACTOR TO CONSULT WITH ENGINEER PRIOR TO INSTALLING EROSION CONTROL FACILITIES.



FILTER FABRIC FENCE DETAIL 1
NOT TO SCALE



STABILIZED CONSTRUCTION ENTRANCE DETAIL 2
NOT TO SCALE



NOTE:
STRAW ROLLS WRAPPED IN TUBULAR PLASTIC NETTING.
PLACE IN SHALLOW TRENCHES AND STAKED ALONG THE
CONTOUR OF DISTURBED SLOPES.

STRAW ROLLS (WATTLES) 3
NOT TO SCALE

CONSTRUCTION NOTES:

CONSTRUCTION:

1. FILTER FABRIC FENCE: CONSTRUCT AND MAINTAIN FILTER FABRIC FENCE IN AREAS AS SHOWN ON DRAWINGS BY SYMBOLS NOTED IN LEGEND. SEE DETAIL 1C005 AND FILTER FABRIC STANDARD NOTES BELOW.
2. CLEARING AND GRADING: LIMIT CLEARING AND GRADING TO LIMITS SHOWN ON DRAWINGS. DO NOT INFRINGE ON ADJACENT PROPERTY.
3. COVER: IF AN AREA IS CLEARED, BUT NOT PERMANENTLY STABILIZED OR WILL NOT BE AN ACTIVE CONSTRUCTION AREA FOR MORE THAN 15 DAYS, TEMPORARILY STABILIZE CLEARED AREA BY COVERING WITH MULCH OR PLASTIC.
4. ENTRANCE: CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE. SEE DETAIL 2C005.
6. SWALE TO BE CONSTRUCTED AND PLANTED IN FIRST 30 DAYS OF CONSTRUCTION.

POST CONSTRUCTION:

1. STABILIZE: PERMANENTLY STABILIZE EXPOSED AREAS BY HYDROSEEDING.
2. REMOVE TEMPORARY FACILITIES: REMOVE ALL TEMPORARY EROSION/SEDIMENTATION FACILITIES INCLUDING STABILIZED ENTRANCE AND ROADWAY MATERIAL, CATCH BASIN FILTERS, AND FILTER FABRIC FENCE.
3. SILT AND DEBRIS: CLEAN AND REMOVE ALL SILT AND DEBRIS FROM ALL AREAS INCLUDING CATCH BASINS, PIPES, MANHOLES AND VALVE VAULTS.
4. OPERATION: ENSURE THAT STORM DRAINAGE COLLECTION AND CONTAINMENT FACILITIES ARE OPERATING AS INTENDED.

FILTER FABRIC STANDARD NOTES:

1. FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 8-INCH OVERLAP, AND BOTH ENDS SECURELY FASTENED TO THE POST PER SECTION 02370.
2. THE FILTER FABRIC FENCE SHALL BE INSTALLED TO FOLLOW THE GROUND SURFACE CONTOURS (WHERE FEASIBLE). THE FENCE POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 30 INCHES).
3. A TRENCH SHALL BE EXCAVATED, ROUGHLY 8 INCHES WIDE AND 12 INCHES DEEP, UPSLOPE AND ADJACENT TO THE WOOD POST, TO ALLOW THE FILTER FABRIC TO BE BURIED.
4. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1-INCH LONG, THE WIRES, OR 1/8" RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 4 INCHES AND SHALL NOT EXTEND MORE THAN 24 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
5. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND A 36 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 24 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
6. WHEN EXTRA-STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE PROVISIONS OF FILTER FABRIC STANDARD NOTES APPLYING.
7. THE TRENCH SHALL BE BACKFILLED WITH 3/4" - 1 1/2" WASHED CRUSHED ROCK BACKFILL.
8. FILTER FABRIC FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED AND/OR RESTORED TO NATIVE CONDITION.
9. FILTER FABRIC FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

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<p>USE OF DOCUMENTS</p> <p>THIS DOCUMENT, INCLUDING THE INCORPORATED DESIGNS, IS AN INSTRUMENT OF SERVICE FOR THIS PROJECT AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF THE ENGINEER'S CONSULTANTS & ASSOCIATES, INC.</p>	<p>SCALES</p> <p>IF THIS BAR IS NOT DIMENSIONED EXACTLY, ADJUST SCALES ACCORDINGLY.</p>				<p>DESIGNED JLH</p>	<p>PACIFIC CLEAN ENVIRONMENTAL CLE ELUM, WASHINGTON</p> <p>ELK HEIGHTS ORGANICS PROCESSING FACILITY</p> <p>Kennedy/Jenks Consultants 200 SW MARKET ST., SUITE 500, PORTLAND, OR 97201</p>	<p>EROSION CONTROL DETAILS</p>	<p>FILE NAME 129100800C005.DWG</p>
	<p>NO.</p>	<p>REVISION</p>	<p>DATE</p>	<p>BY</p>	<p>DRAWN GAS</p>			<p>DATE OCT 2012</p>

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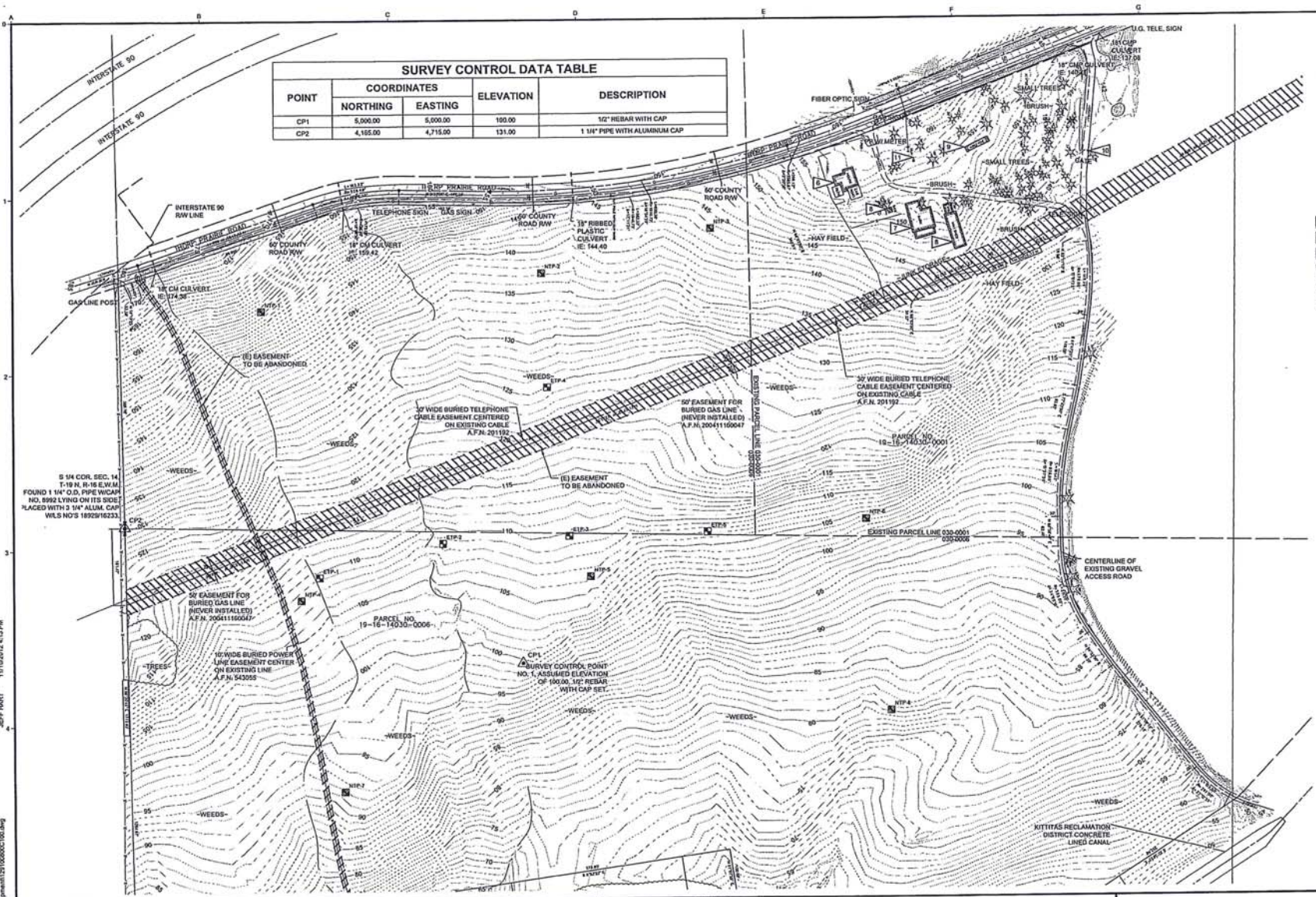
SURVEY CONTROL DATA TABLE				
POINT	COORDINATES		ELEVATION	DESCRIPTION
	NORTHING	EASTING		
CP1	5,000.00	5,000.00	100.00	1/2" REBAR WITH CAP
CP2	4,185.00	4,715.00	131.00	1 1/4" PIPE WITH ALUMINUM CAP

- NOTES:**
- PROTECT EXISTING UNDERGROUND PIPING UNLESS INDICATED OTHERWISE.
 - FILL AND COMPACT DISTURBED AREAS WHERE FEATURES HAVE BEEN DEMOLISHED. BACKFILL WITH NATIVE MATERIAL OR IMPORTED FILL CONFORMING WITH THE SPECIFICATIONS. RESTORE SURFACES AS SPECIFIED.
 - ALL DEMOLITION MATERIAL SHALL BE DISPOSED OF OFFSITE IN ACCORDANCE WITH SPECIFICATION 91140 (UNLESS DIRECTED OTHERWISE BY OWNER).
 - REMOVE AND SALVAGE ALL HANDRAILS AND MISC. EQUIPMENT FROM WITHIN THE SHADED DEMOLITION BOUNDARY.
 - REFER TO SPEC SECTION 91617 FOR SUGGESTED CONSTRUCTION SEQUENCING PRIOR TO ANY DEMOLITION.
- 1 DEMOLISH EXISTING HOUSE
 - 2 DEMOLISH EXISTING BARN
 - 3 DEMOLISH EXISTING SHED
 - 4 DEMOLISH EXISTING MOBILE HOME
 - 5 DEMOLISH EXISTING GATE
 - 6 RESIDENTIAL WELL - 6" CASING

- LEGEND:**
- ETP-1 EXISTING TEST PIT
 - NTP-4 NEW TEST PIT
 - CP1 SURVEY CONTROL POINT

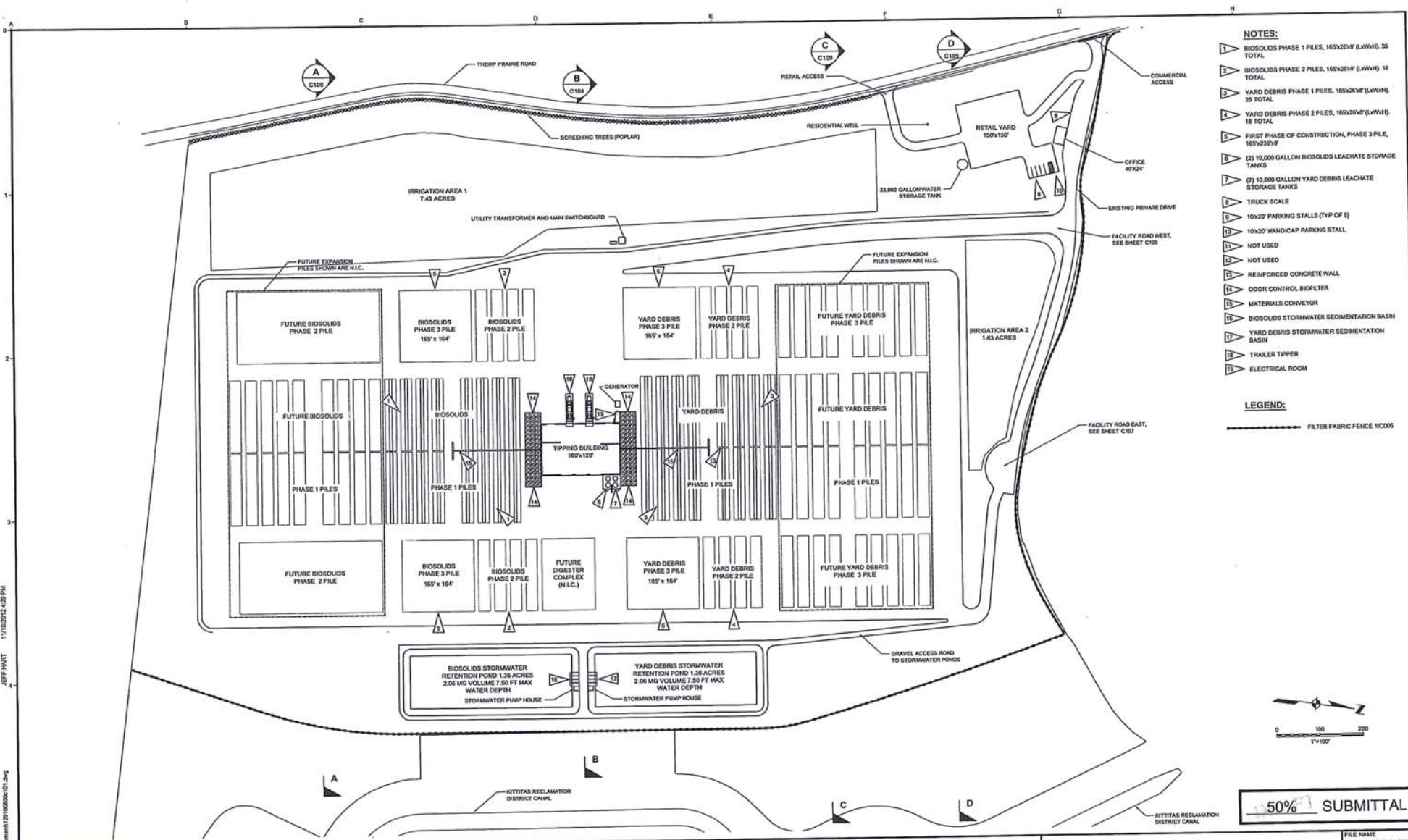
- SURVEY NOTES:**
- HORIZONTAL CONTROL: ASSUMED - XXX
 - VERTICAL DATUM: NAVD XXX

50% SUBMITTAL



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- NOTES:**
- 1 BIOSOLIDS PHASE 1 PILES, 165'x26'x4' (L.W.H.), 35 TOTAL
 - 2 BIOSOLIDS PHASE 2 PILES, 165'x26'x4' (L.W.H.), 18 TOTAL
 - 3 YARD DEBRIS PHASE 1 PILES, 165'x26'x4' (L.W.H.), 35 TOTAL
 - 4 YARD DEBRIS PHASE 2 PILES, 165'x26'x4' (L.W.H.), 18 TOTAL
 - 5 FIRST PHASE OF CONSTRUCTION, PHASE 3 PILE, 165'x236'x4'
 - 6 (2) 10,000 GALLON BIOSOLIDS LEACHATE STORAGE TANKS
 - 7 (2) 10,000 GALLON YARD DEBRIS LEACHATE STORAGE TANKS
 - 8 TRUCK SCALE
 - 9 10'x20' PARKING STALLS (TYP OF 8)
 - 10 10'x20' HANDICAP PARKING STALL
 - 11 NOT USED
 - 12 NOT USED
 - 13 REINFORCED CONCRETE WALL
 - 14 ODOR CONTROL BIOFILTER
 - 15 MATERIALS CONVEYOR
 - 16 BIOSOLIDS STORMWATER SEDIMENTATION BASIN
 - 17 YARD DEBRIS STORMWATER SEDIMENTATION BASIN
 - 18 TRAILER TIPPER
 - 19 ELECTRICAL ROOM

LEGEND:

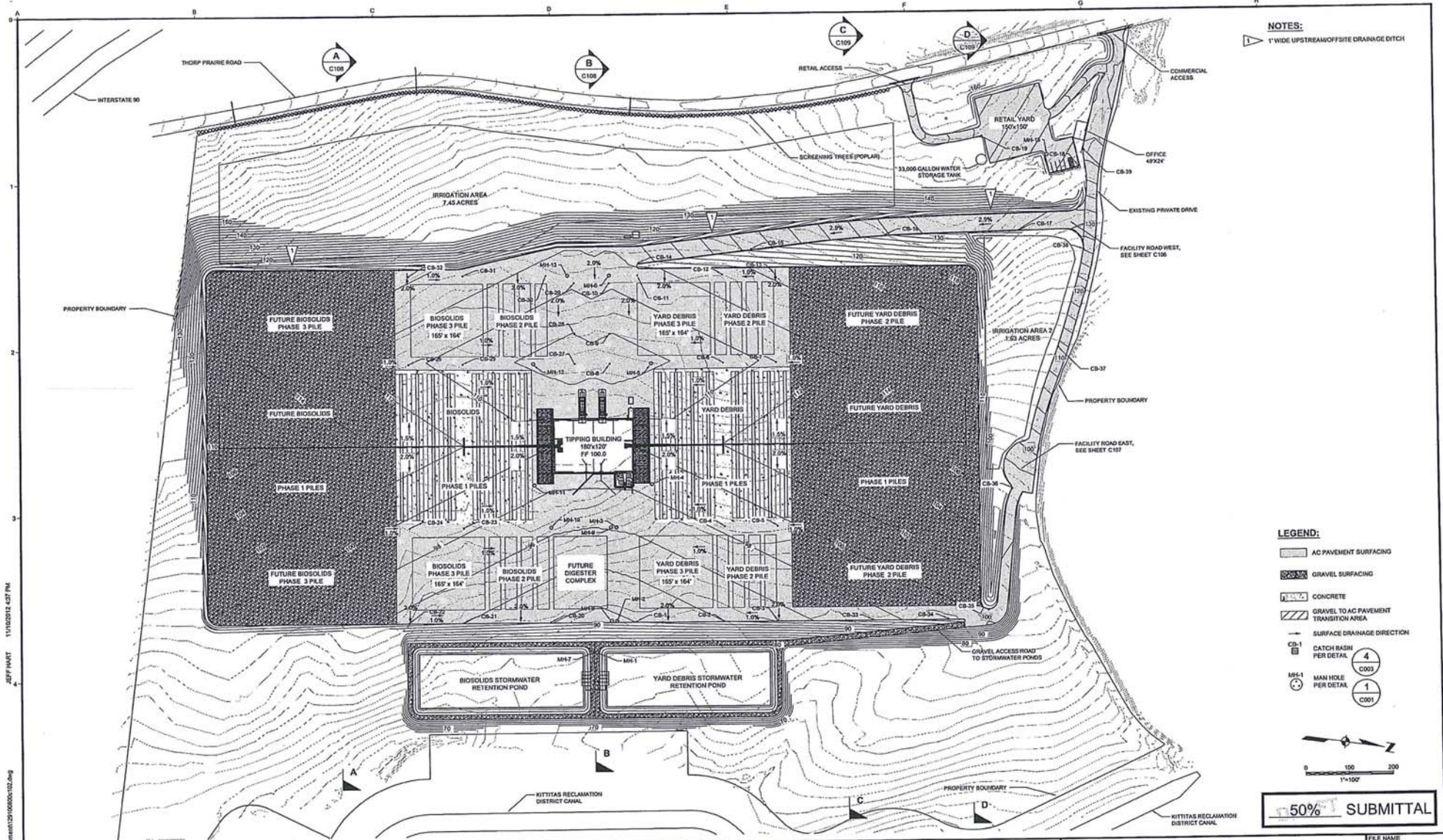
--- FILTER FABRIC FENCE VCC05



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	<p>DRAWN: SELGAS</p>			<p>CHECKED: PLVM</p>				
	<p>SCALES:</p> <p>0" = 1'</p> <p>0" = 25mm</p> <p>IF THIS BAR IS NOT DIMENSIONED CORRECTLY, ADJUST SCALES ACCORDINGLY.</p>							
	NO.	REVISION		DATE	BY			

11/02/2012 4:29 PM
 JEFF HART
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NOTES:
 ▽ 1" WIDE UPSTREAM/OFFSITE DRAINAGE DITCH

- LEGEND:**
- AC PAVEMENT SURFACING
 - GRAVEL SURFACING
 - CONCRETE
 - GRAVEL TO AC PAVEMENT TRANSITION AREA
 - SURFACE DRAINAGE DIRECTION
 - CATCH BASIN PER DETAIL 4 C003
 - MAN HOLE PER DETAIL 1 C001

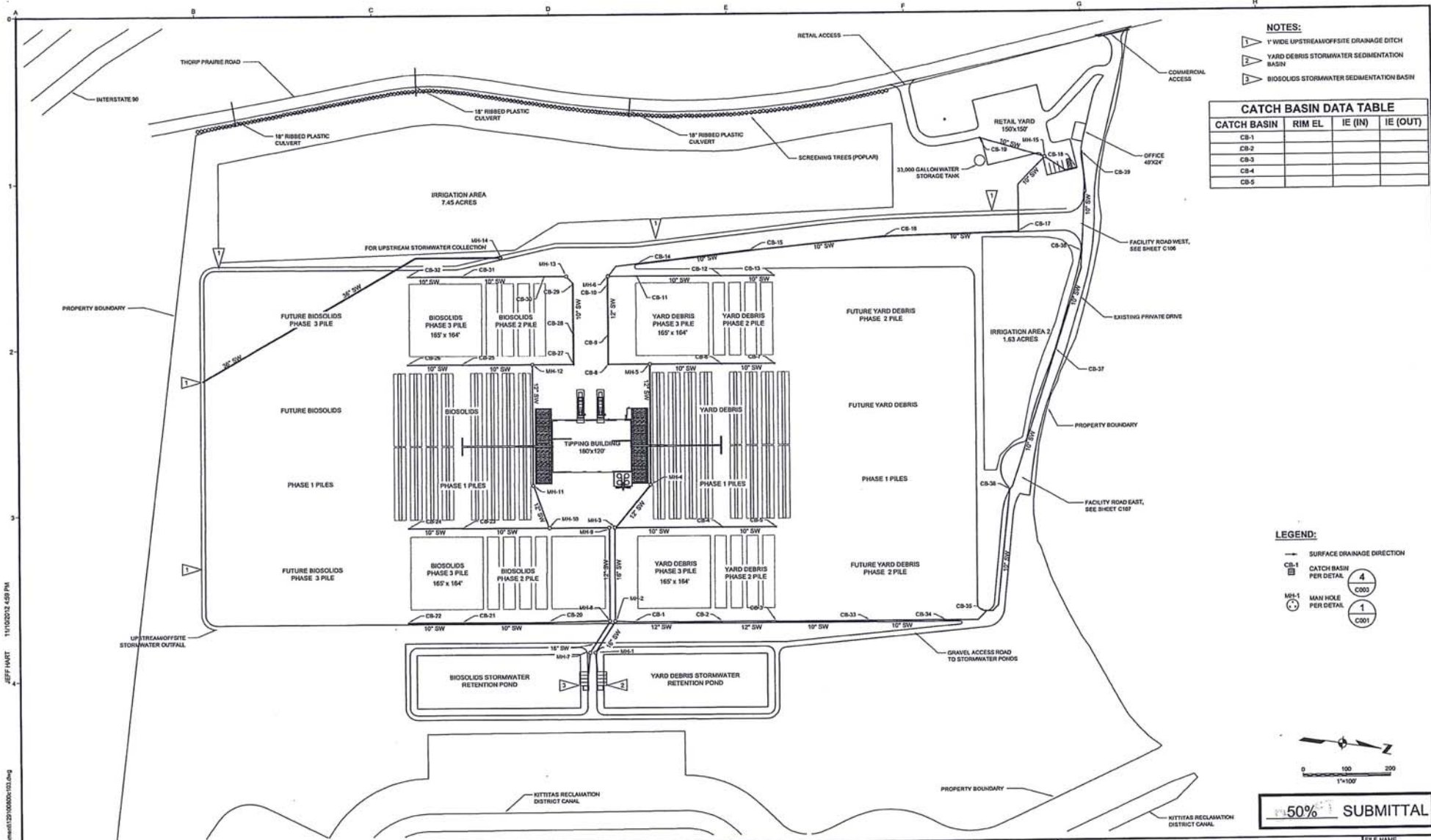


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NO.	REVISION	DATE	BY											

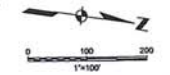


- NOTES:**
- ▽ 1' WIDE UPSTREAM/OFFSITE DRAINAGE DITCH
 - ▢ YARD DEBRIS STORMWATER SEDIMENTATION BASIN
 - ▢ BIOSOLIDS STORMWATER SEDIMENTATION BASIN

CATCH BASIN DATA TABLE

CATCH BASIN	RIM EL.	IE (IN)	IE (OUT)
CB-1			
CB-2			
CB-3			
CB-4			
CB-5			

- LEGEND:**
- SURFACE DRAINAGE DIRECTION
 - ▢ CB-1 CATCH BASIN PER DETAIL 4 C003
 - MH-1 MAN HOLE PER DETAIL 1 C001

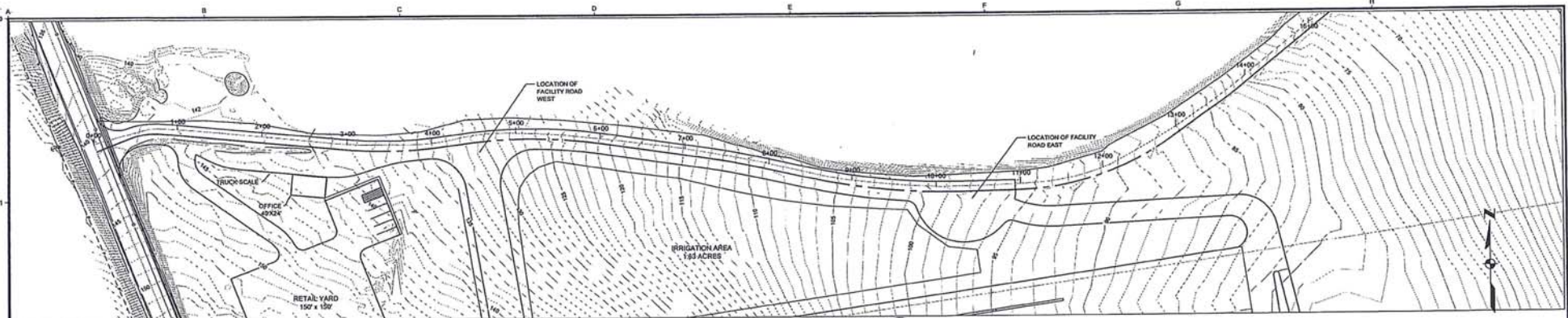


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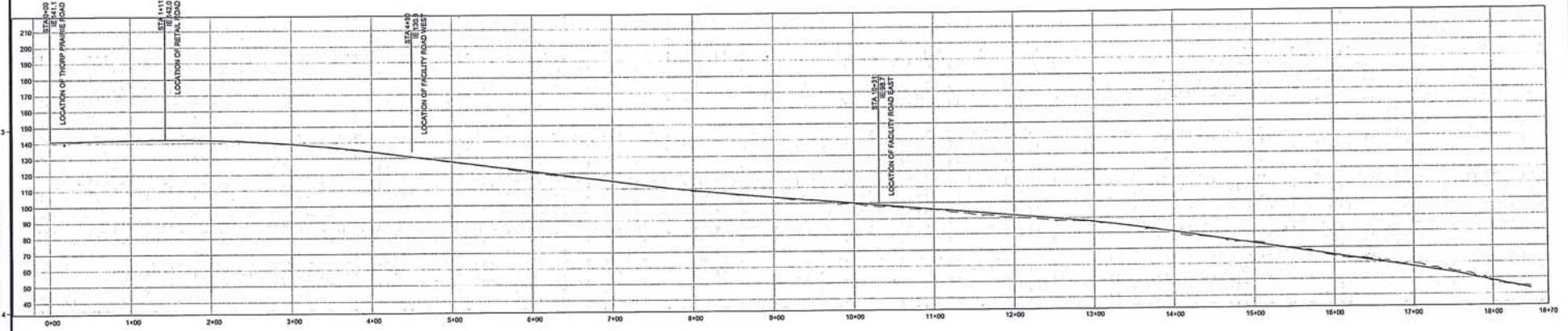
JEFF HART 11/10/2012 4:58 PM

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NO.	REVISION	DATE	BY																			



PLAN VIEW 1
C105



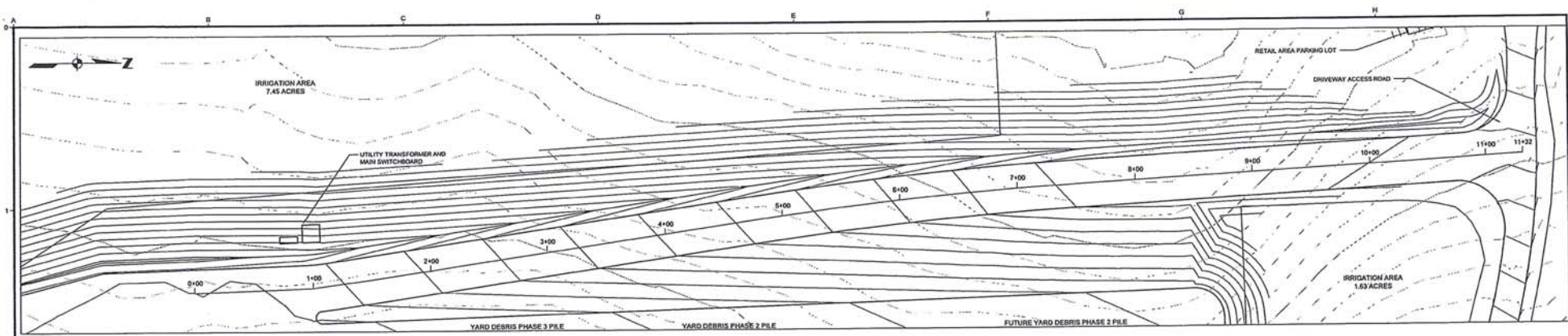
DRIVEWAY ACCESS ROAD 1
C105

50% SUBMITTAL

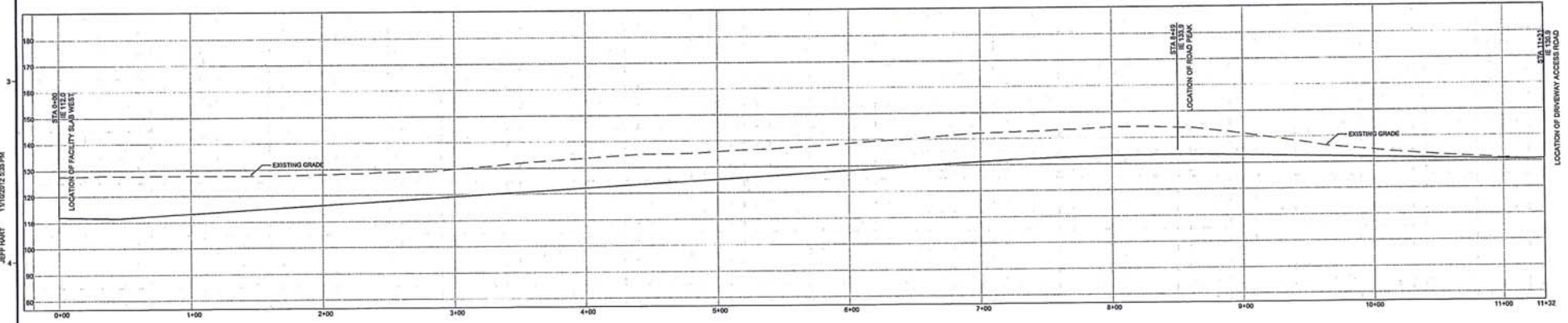
JEFF HART 11/10/2012 5:00 PM

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		NO.	REVISION	DATE	BY										
DRAWN BIS	JOB NO. —														
					CHECKED PLVM		DATE OCT 2012								
							SHEET C105 OF								



PLAN VIEW 1
C106



FACILITY ROAD WEST 1
C106

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NO.	REVISION	DATE	BY

SCALES
1" = 20m
IF THIS BAR IS NOT DIMENSIONED SHOWN, ADJUST SCALES ACCORDINGLY.

DESIGNED BY
DRAWN BY
CHECKED BY

DESIGNED TJA
DRAWN TJA
CHECKED PLVM

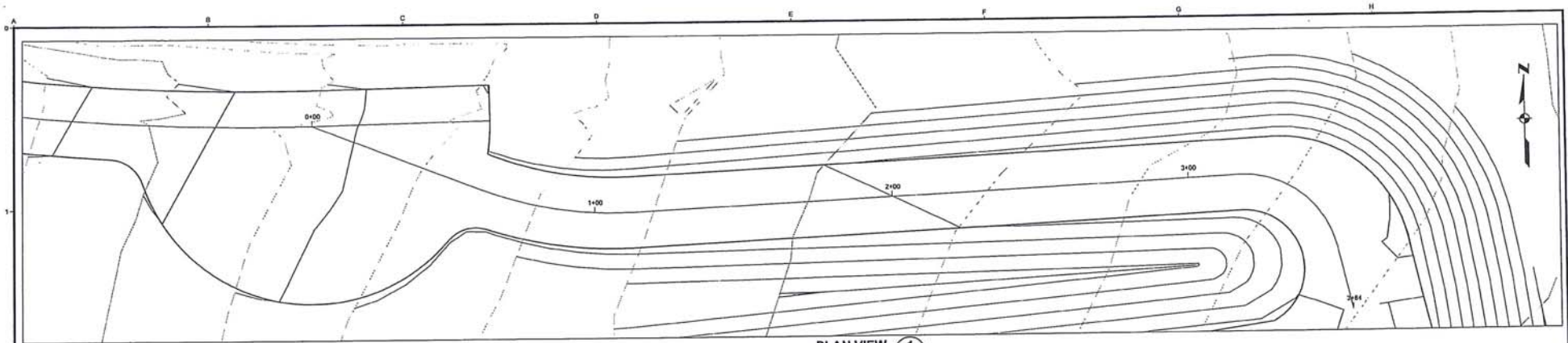
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**ELK HEIGHTS
ORGANICS PROCESSING FACILITY**
Kennedy/Jenks Consultants
200 SW MARKET ST., SUITE 500, PORTLAND, OR 97201

FACILITY ROAD WEST PLAN & PROFILE

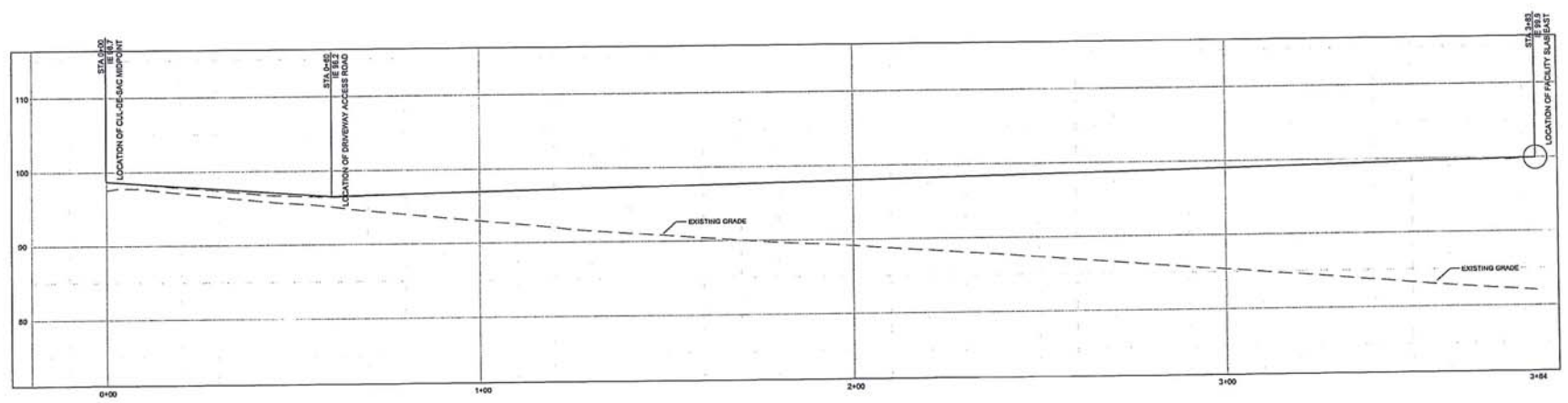
FILE NAME
FILE NAME
JOB NO.
DATE OCT 2012
SHEET OF
C106

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PLAN VIEW 1
C107



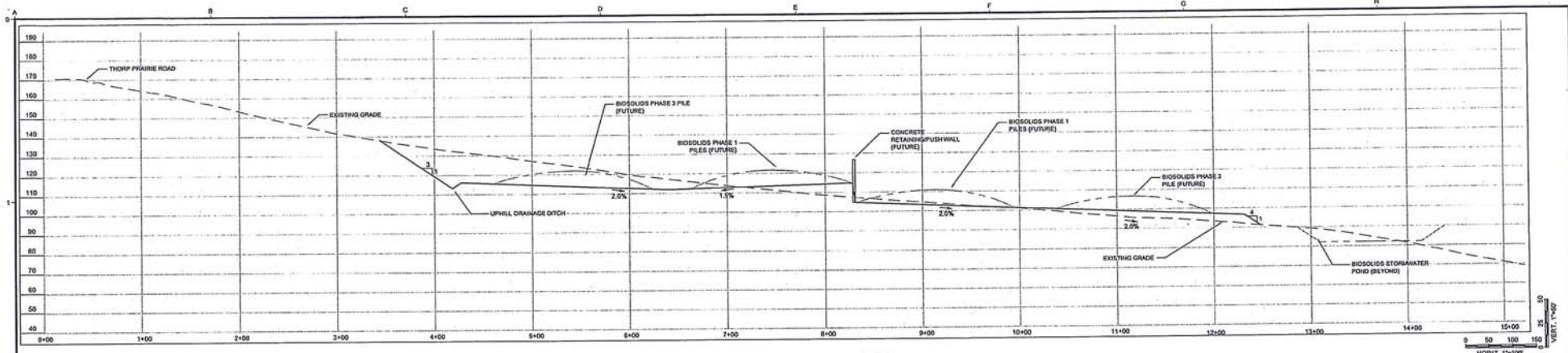
FACILITY ROAD EAST 1
C107

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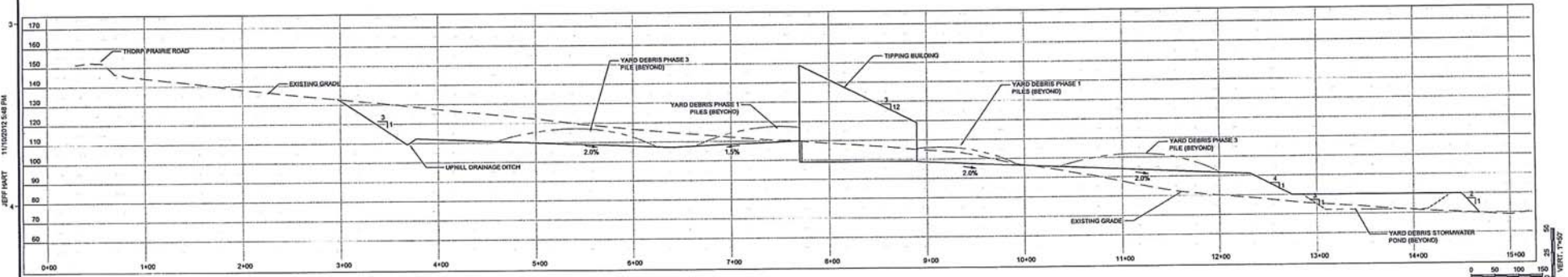
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		NO.	REVISION	DATE	BY																					
DRAWN SEL	CHECKED PLVM	JOB NO. ---																								
						DATE OCT 2012																				
						SHEET OF C107																				



SITE SECTION A
C109



SITE SECTION B
C109

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NO.	REVISION	DATE	BY

SCALES
 0" = 1'
 0" = 15m
 IF THIS BAR IS NOT DIVISION SHOWN, ADJUST SCALES ACCORDINGLY.

DESIGNED
TJA

DRAWN
SEL

CHECKED
PLVM

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 200 SW MARKET ST., SUITE 505, PORTLAND, OR 97201

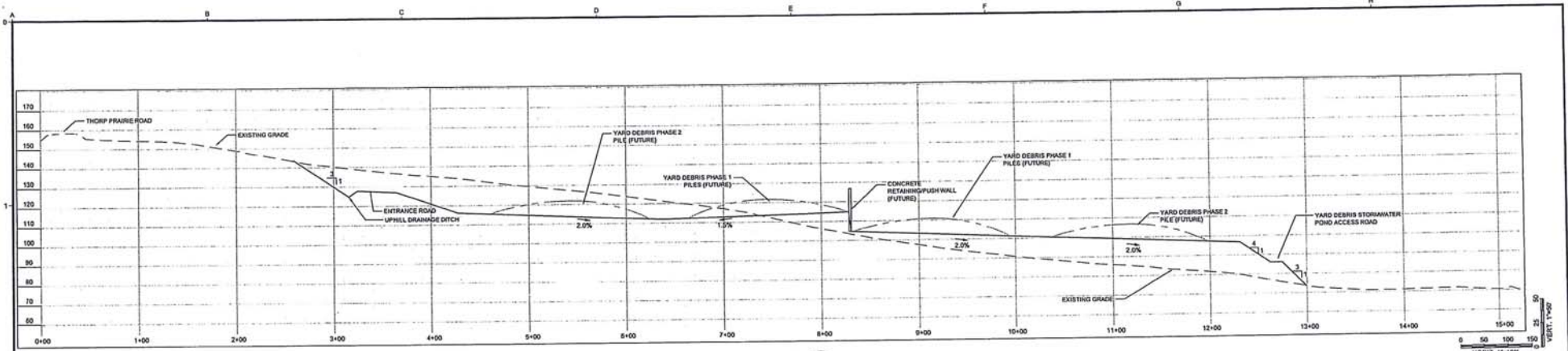
SITE GRADING SECTIONS A & B

FILE NAME
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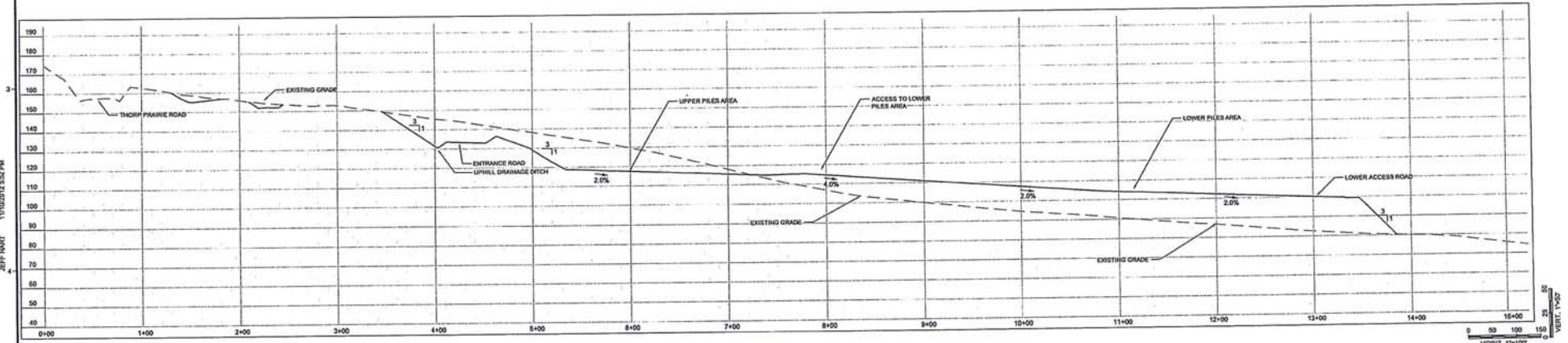
JOB NO.
—

DATE
OCT 2012

SHEET
OF
C108



SITE SECTION C
C109



SITE SECTION D
C109

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NO.	REVISION	DATE	BY

SCALES
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 0 = 25mm
 IF THIS BAR IS NOT DRAWN TO SCALE, ADJUST SCALES ACCORDINGLY.

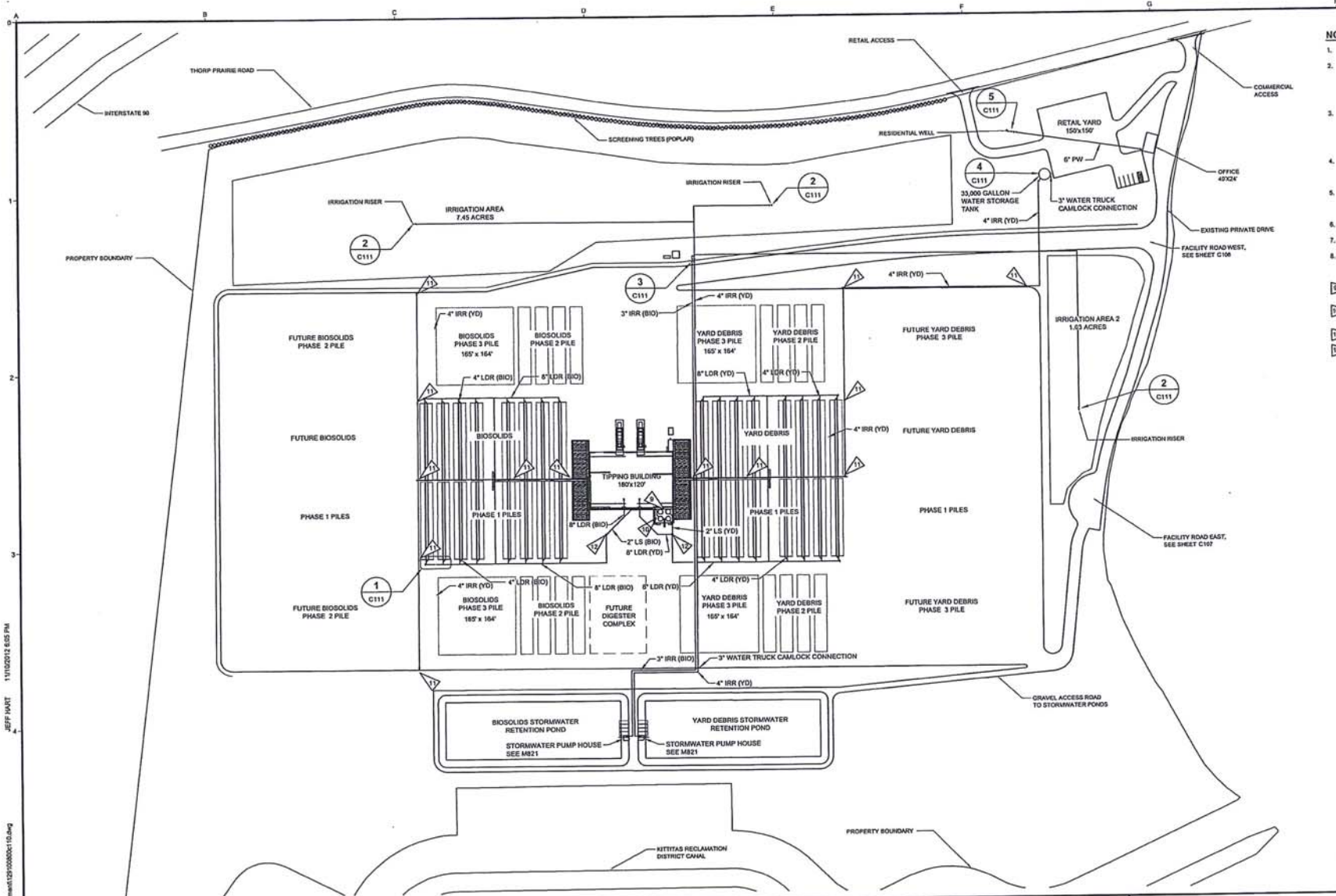
DATE: 10/10/2012

DESIGNED: TJA
 DRAWN: SEL
 CHECKED: PLVM

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 CLE ELUM, WASHINGTON
ELK HEIGHTS ORGANICS PROCESSING FACILITY
 Kennedy/Jenks Consultants
 200 SW MARKET ST., SUITE 500, PORTLAND, OR 97201

SITE GRADING SECTIONS C & D

FILE NAME: 1291000002\09.dwg
 JOB NO.:
 DATE: OCT 2012
 SHEET: 09
C109



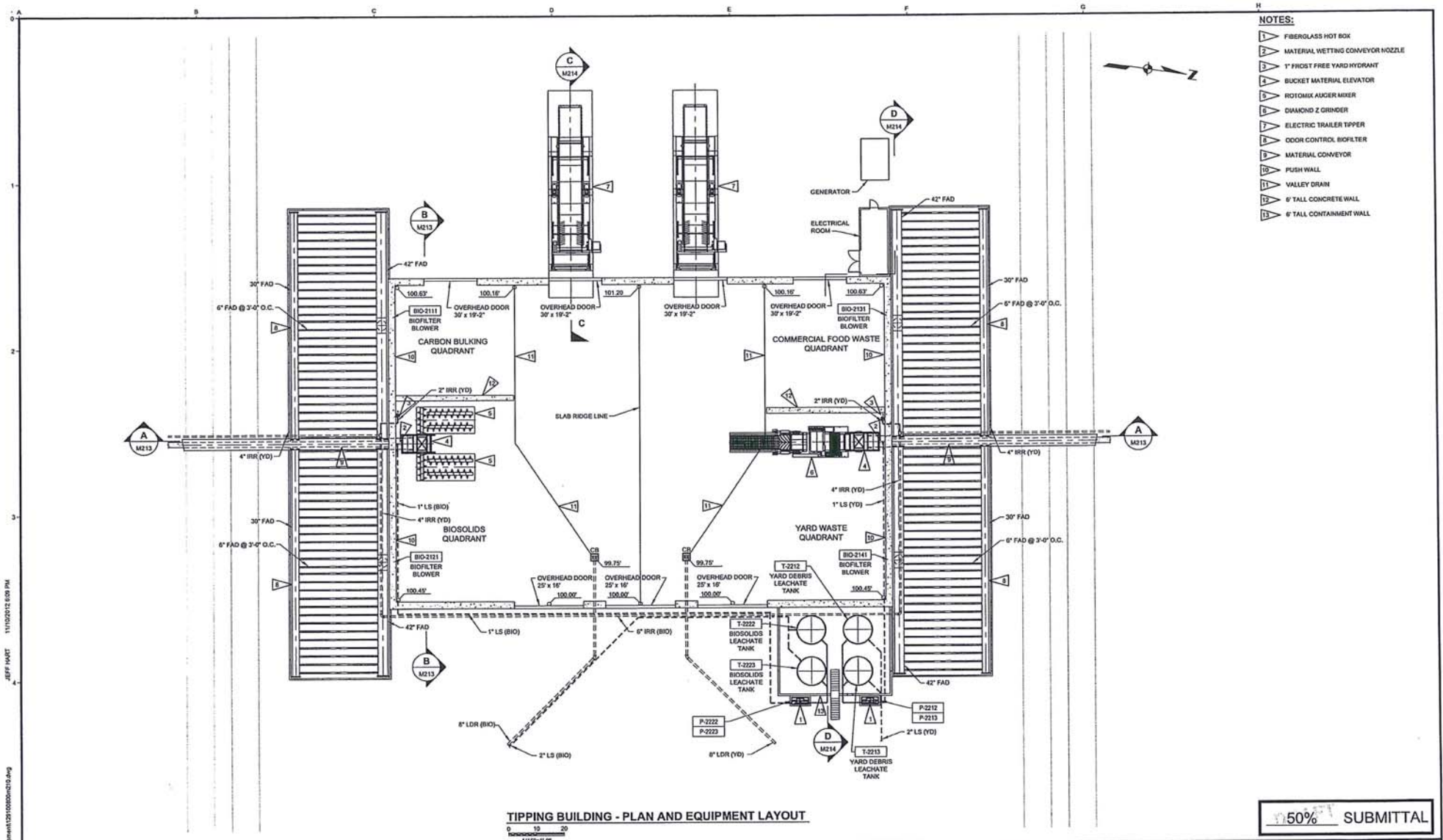
- NOTES:**
- SEE SURVEY NOTES ON SHEET C100.
 - UNLESS OTHERWISE NOTED ALL PIPING SHALL HAVE A MIN DEPTH OF COVER (FROM CROWN TO GRADE) OF 3 FEET. ALL GRAVITY PIPING SHALL BE SLOPED TO DRAIN. SLOPE UNIFORMLY BETWEEN INVERT ELEVATIONS SHOWN.
 - MINIMUM ALLOWABLE CLEARANCE BETWEEN PIPES AT CROSSINGS SHALL BE 3 INCHES. WHERE CLEARANCE IS BETWEEN 3 INCHES AND 12 INCHES, PROVIDE CONCRETE SUPPORT PER DETAIL 31001.
 - SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION ON LOCATION OF ELECTRICAL CONDUITS.
 - ALL POTABLE WATER PIPING SHALL BE ROUTED OVER THE TOP OF OTHER PIPING, SEE C001 & C004 FOR DETAILS.
 - REFER TO SHEET M006 FOR CLEANOUT DETAILS.
 - REFER TO TYPICAL PIPE TRENCH DETAIL 31001.
 - REFER TO SHEETS C221, C222, AND C223 FOR MANHOLE INFORMATION UNLESS NOTED OTHERWISE ON THIS SHEET.
- (2) 10,000 GALLON YARD DEBRIS LEACHATE STORAGE TANKS, SEE M006.
 (10) 2, 10,000 GALLON BIOSOLIDS LEACHATE STORAGE TANK, SEE M006.
 (11) 1" FROST FREE YARD HYDRANT.
 (12) LEACHATE SUMP PUMP.



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		NO.	REVISION	DATE	BY																					
DRAWN GAS	CHECKED PLVM	JOB NO. ---																								
						DATE OCT 2012	SHEET C110 OF																			



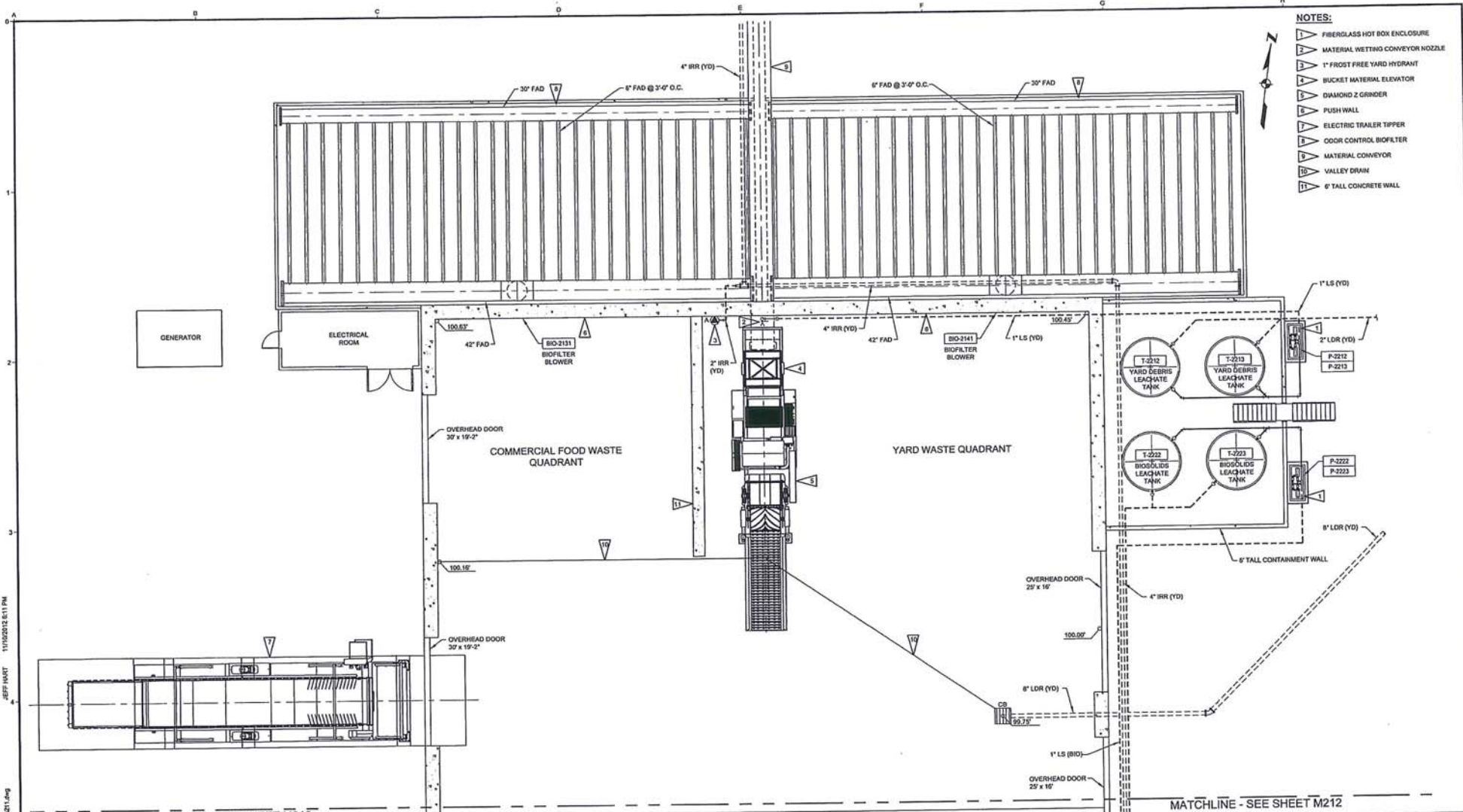
- NOTES:**
- 1 FIBERGLASS HOT BOX
 - 2 MATERIAL WETTING CONVEYOR NOZZLE
 - 3 1\"/>

TIPPING BUILDING - PLAN AND EQUIPMENT LAYOUT

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					<p>JOB NO. —</p> <p>DATE OCT 2012</p> <p>SHEET OF M210</p>

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 11/10/2012 2:58 PM
 JEFF HART



- NOTES:**
- ▽ FIBERGLASS HOT BOX ENCLOSURE
 - ▽ MATERIAL WETTING CONVEYOR NOZZLE
 - ▽ 1" FROST FREE YARD HYDRANT
 - ▽ BUCKET MATERIAL ELEVATOR
 - ▽ DIAMOND Z GRINDER
 - ▽ PUSH WALL
 - ▽ ELECTRIC TRAILER TIPPER
 - ▽ DOOR CONTROL BIOFILTER
 - ▽ MATERIAL CONVEYOR
 - ▽ VALLEY DRAIN
 - ▽ 6" TALL CONCRETE WALL

TIPPING BUILDING - PLAN AND EQUIPMENT LAYOUT - NORTH

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NO.	REVISION	DATE	BY

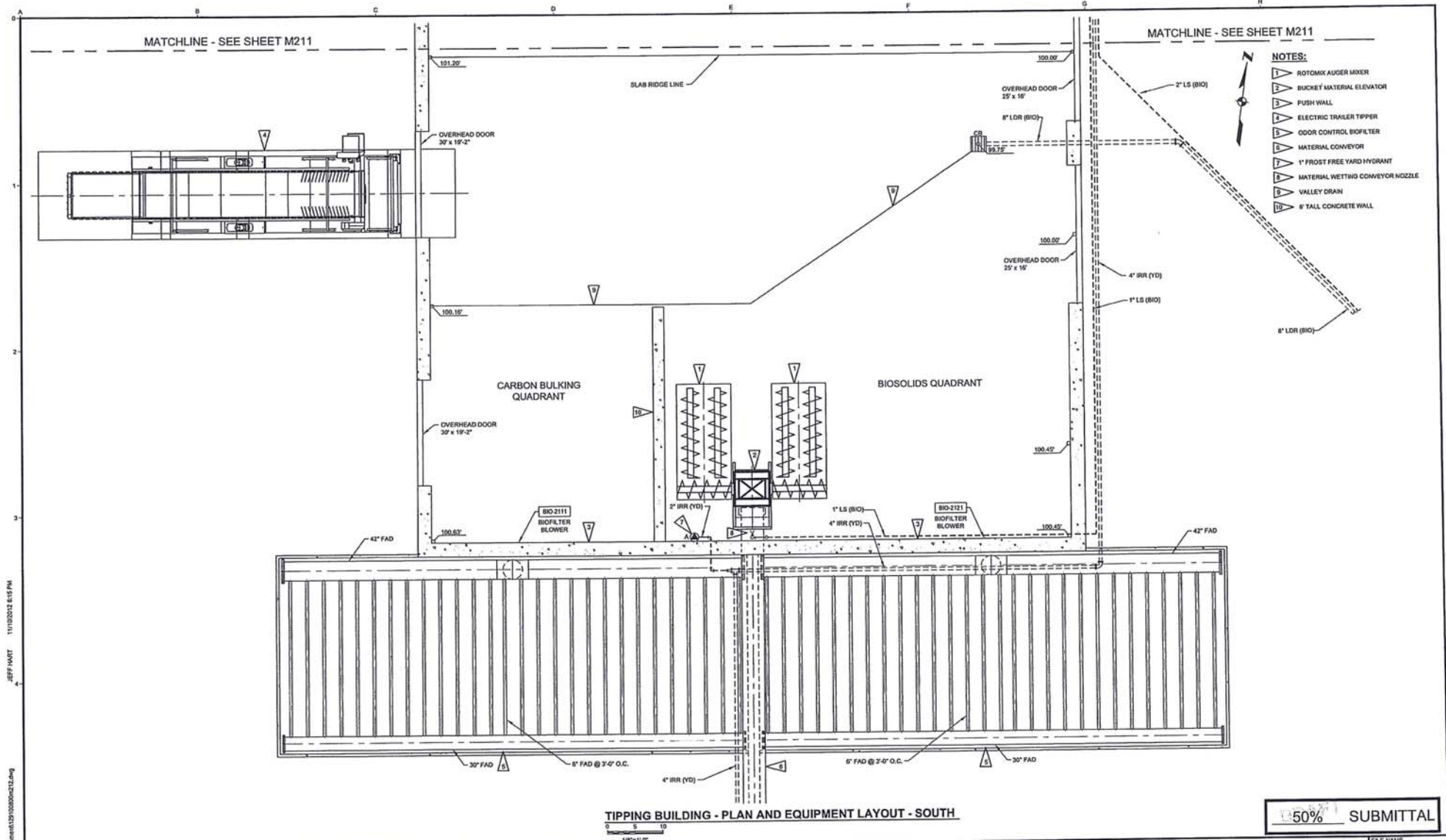
SCALES
 0 5 10
 1" = 10'-0"
 IF THIS BAR IS NOT DIMENSIONED CORRECTLY, ADJUST SCALES ACCORDINGLY.

DESIGNED: JUH
 DRAWN: GAS
 CHECKED: PLVA

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**ELK HEIGHTS
 ORGANICS PROCESSING FACILITY**
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 200 SW MARKET ST., SUITE 500, PORTLAND, OR 97201

TIPPING BUILDING - PLAN AND EQUIPMENT LAYOUT - NORTH

FILE NAME: 129100006M211.DWG
 JOB NO.:
 DATE: OCT 2012
 SHEET: M211 OF



- NOTES:**
- ▽ ROTOMIX AUGER MIXER
 - ▽ BUCKET MATERIAL ELEVATOR
 - ▽ PUSH WALL
 - ▽ ELECTRIC TRAILER TIPPER
 - ▽ ODOR CONTROL BIOFILTER
 - ▽ MATERIAL CONVEYOR
 - ▽ 1" FROST FREE YARD HYDRANT
 - ▽ MATERIAL WETTING CONVEYOR NOZZLE
 - ▽ VALLEY DRAIN
 - ▽ 8" TALL CONCRETE WALL

TIPPING BUILDING - PLAN AND EQUIPMENT LAYOUT - SOUTH

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NO.	REVISION	DATE	BY

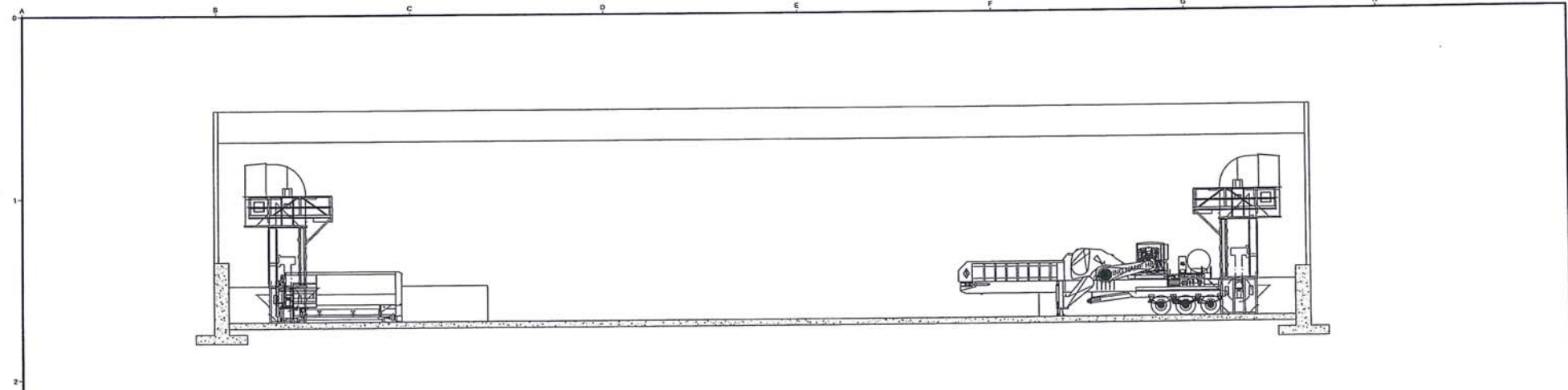
SCALES
 0" = 1'
 0" = 25mm
 IF THIS BAR IS NOT DIMENSIONED SHOW, ADAPT SCALES ACCORDINGLY.

DESIGNED: JH
 DRAWN: GAS
 CHECKED: PLVM

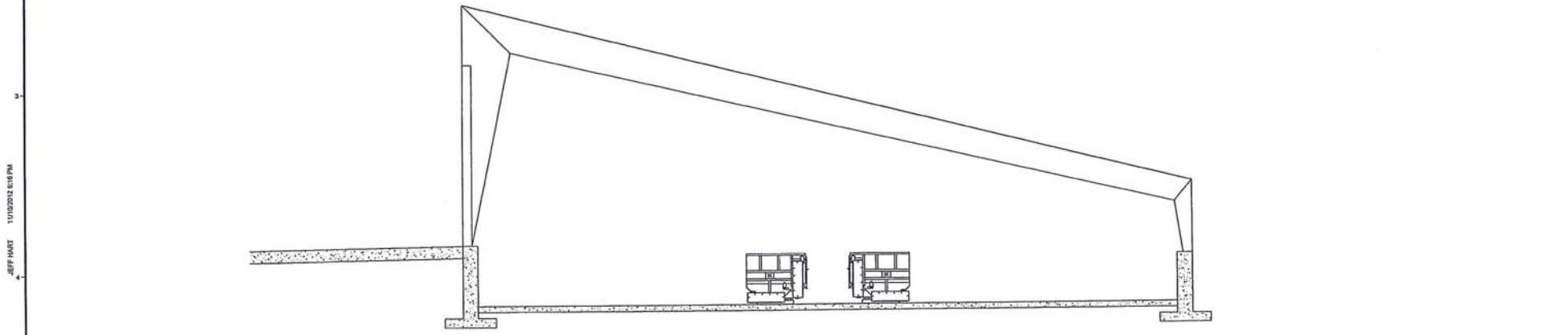
PACIFIC CLEAN ENVIRONMENTAL
 CLE ELUM, WASHINGTON
ELK HEIGHTS ORGANICS PROCESSING FACILITY
 Kennedy/Jenks Consultants
 205 SW MARKET ST., SUITE 500, PORTLAND, OR 97201

TIPPING BUILDING - PLAN AND EQUIPMENT LAYOUT - SOUTH

FILE NAME: 121100000212.DWG
 JOB NO.:
 DATE: OCT 2012
 SHEET OF: **M212**



SECTION A
 0 5 10
 1/8"=1'-0"



SECTION B
 0 5 10
 1/8"=1'-0"

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139100500M213.dwg

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NO.	REVISION	DATE	BY

SCALES
 0 1"
 0 5 10 25mm
 IF THIS BAR SHOWS DIMENSIONS IN MM, ADJUST SCALES ACCORDINGLY.

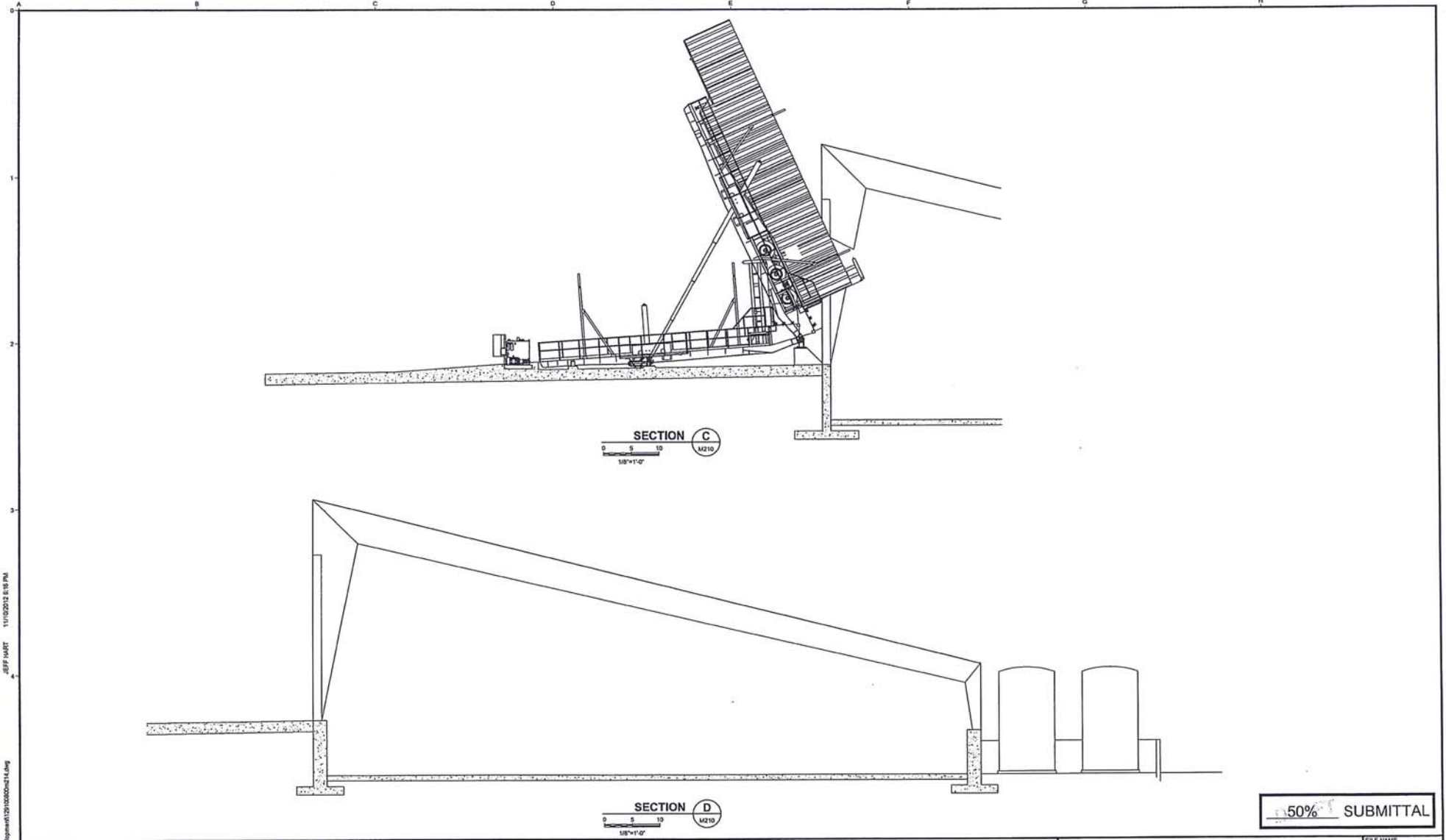
PROFESSIONAL

DESIGNED	JLH
DRAWN	GAS
CHECKED	PLVM

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 CLE ELUM, WASHINGTON
**ELK HEIGHTS
 ORGANICS PROCESSING FACILITY**
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 200 SW MARKET ST., SUITE 500, PORTLAND, OR 97201

TIPPING BUILDING - SECTIONS AND DETAILS I

FILE NAME	139100500M213.DWG
JOB NO.	---
DATE	OCT 2012
SHEET	OF
M213	



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NO.	REVISION	DATE	BY

SCALES
 0 5 10
 1" = 10'-0"

DESIGNED
 JLM
 DRAWN
 GAS
 CHECKED
 PLVM

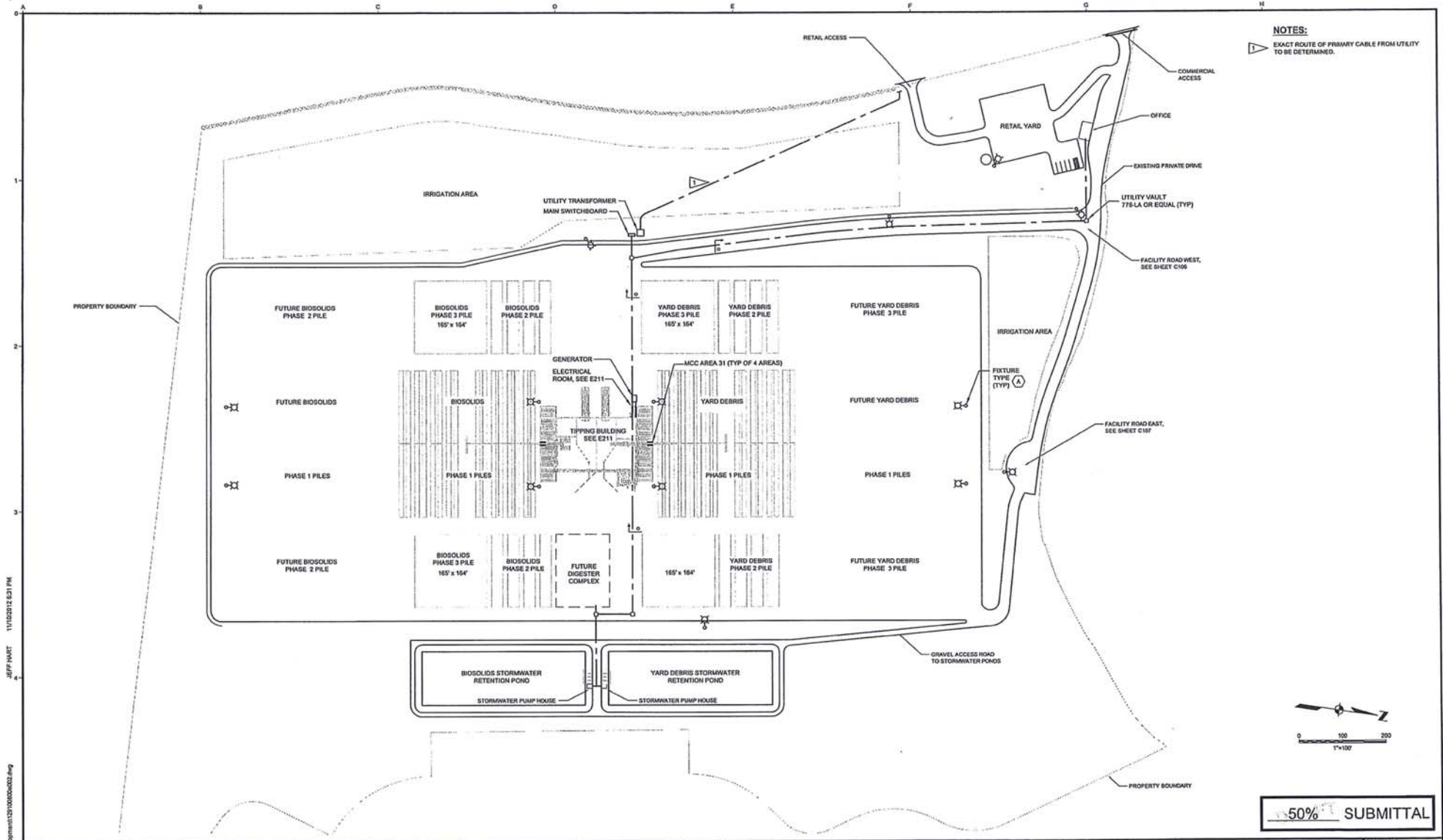
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**ELK HEIGHTS
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 200 SW MARKET ST., SUITE 500, PORTLAND, OR 97201

TIPPING BUILDING - SECTIONS AND DETAIL II

FILE NAME
 129-108809M214.DWG
 JOB NO.
 —
 DATE
 OCT 2012
 SHEET
 OF
M214

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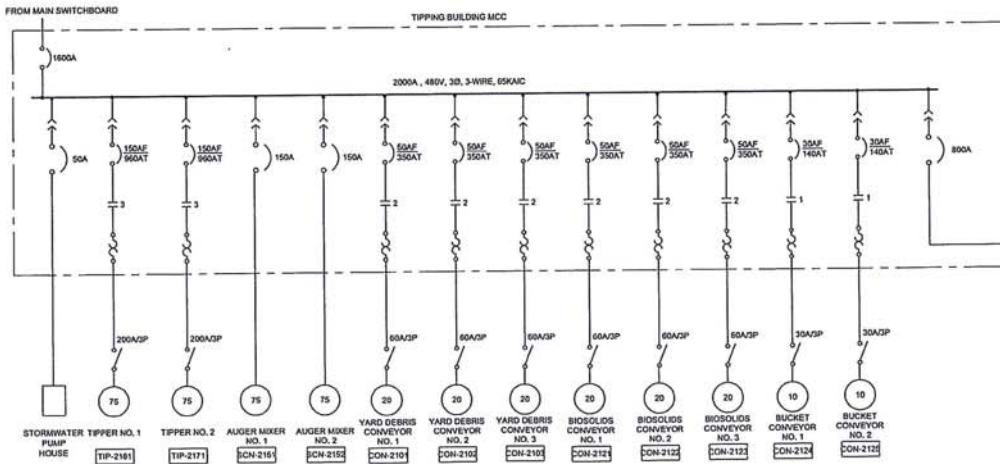
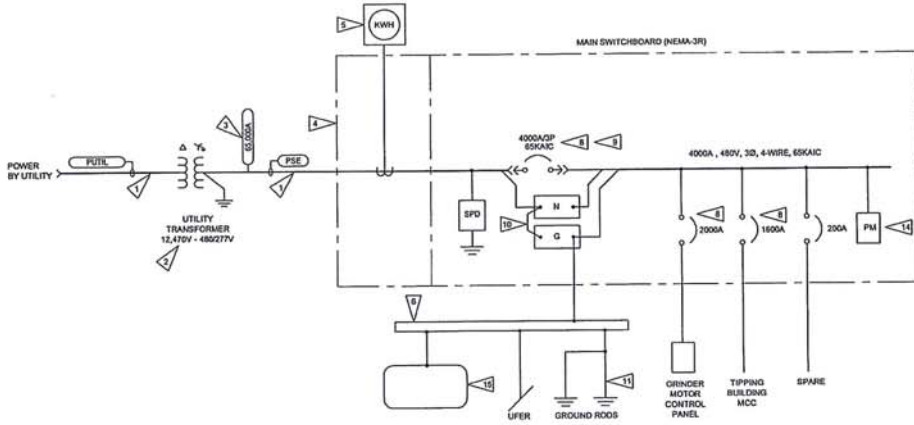
NOTES:
 1 EXACT ROUTE OF PRIMARY CABLE FROM UTILITY TO BE DETERMINED.



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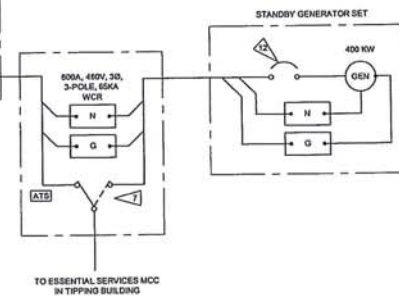


LOAD SUMMARY - MAIN SWITCHBOARD				
EQUIPMENT NUMBER	DESCRIPTION	CONNECTED LOAD HP / AMPERES	DEMAND FACTOR	TOTAL AMPERES
	GRINDER PACKAGE	2000.0	1.0	2000
	TIPPING BUILDING	1195.3	1.0	1195
	25% OF LARGEST MOTOR	180.0	1.0	180
TOTALS:				3375

LOAD SUMMARY - MCC AREA 31				
EQUIPMENT NUMBER	DESCRIPTION	CONNECTED LOAD HP / AMPERES	DEMAND FACTOR	TOTAL AMPERES
BLO-3101	BLOWERS	2.0	3.4	18.0
TRANSFORMER	CONTROLS		1.5	1.0
TOTALS:				63

LOAD SUMMARY - TIPPING BUILDING				
EQUIPMENT NUMBER	DESCRIPTION	CONNECTED LOAD HP / AMPERES	DEMAND FACTOR	TOTAL AMPERES
CON-2101	YARD CONVEYORS	20.0	34.0	3.0
CON-2121	BIO SOLIDS CONVEYORS	20.0	34.0	3.0
CON-2161	AUGER MIXER	75.0	90.0	2.0
CON-2124	BUCKET CONVEYOR	15.0	14.0	2.0
TIP-2101	TIPPER	75.0	90.0	2.0
PUMP HOUSE	STORMWATER PUMPS	30.0	1.0	30
ESSENTIAL SERVICES MCC	ESSENTIAL SERVICES MCC	549.3	1.0	549
TOTALS:				1195

LOAD SUMMARY - ESSENTIAL SERVICES				
EQUIPMENT NUMBER	DESCRIPTION	CONNECTED LOAD HP / AMPERES	DEMAND FACTOR	TOTAL AMPERES
MCC AREA 31		63.7	1.0	63
MCC AREA 32		62.7	1.0	63
MCC AREA 41		62.7	1.0	63
MCC AREA 42		62.7	1.0	63
BLO-2141	EXHAUST FAN NORTH	40.0	50.0	2.0
BLO-2142	EXHAUST FAN SOUTH	40.0	50.0	2.0
P-2210	YARD DEBRIS PUMP	1.5	3.0	1.0
P-2220	BIO SOLIDS PUMP	1.5	3.0	1.0
TRANSFORMER	OFFICE BUILDING	54.1	0.8	43
TOTALS:				449



NOTES:

- PRIMARY POWER CABLE INSTALLED AND CONNECTED BY UTILITY. PRIMARY POWER CONDUIT PROVIDED AND INSTALLED BY CONTRACTOR PER UTILITY REQUIREMENTS.
- PAD-MOUNTED TRANSFORMER BY UTILITY. TRANSFORMER PAD PROVIDED AND INSTALLED BY CONTRACTOR, OLDCASTLE #598-1752, OR EQUAL.
- AVAILABLE FAULT CURRENT (BUS SYMMETRICAL) BASED ON TYPICAL PAD-MOUNTED TRANSFORMER.
- FULL SECTION PER UTILITY REQUIREMENTS. CT 'S, METER AND METER WRING BY UTILITY.
- METER BASE PROVIDED BY CONTRACTOR.
- SYSTEM GROUND BUS SHALL BE COPPER 2"x1/4"x1/2" MINIMUM. CONNECT GROUND ELECTRODE CONDUCTORS TO GROUND BUS BY EXOTHERMIC WELDING, LISTED PRESSURE CONNECTORS, OR LISTED CLAMPS.
- AUTOMATIC TRANSFER SWITCH WITHIN NEMA-1 GASKETED ENCLOSURE.
- PROVIDE MAIN DISCONNECT AND FEEDER CIRCUIT BREAKERS WITH GROUND FAULT PROTECTION (GFP). COORDINATE MAIN DISCONNECT OFF SETTINGS WITH FEEDER CIRCUIT BREAKER GFP SETTINGS TO ENSURE THAT THE MAIN DISCONNECT CIRCUIT BREAKER WILL EVENT OF A GROUND FAULT ON THE LOAD SIDE OF ANY FEEDER CIRCUIT BREAKER.
- SERVICE ENTRANCE DISCONNECT WITHIN NEMA-3R SWITCHBOARD.
- MAIN BONDING JUMPER. ENSURE THAT THE SYSTEM NEUTRAL IS GROUNDING ONLY AT THE SERVICE ENTRANCE DISCONNECT. ENSURE THAT THE SYSTEM IS NOT GROUNDING AT THE AUTOMATIC TRANSFER SWITCH OR THE GENERATOR.
- GROUND RODS SHALL BE PLACED AT LEAST 16 FEET APART.
- GENERATOR BREAKER SHALL BE PROVIDED BY THE GENERATOR MANUFACTURER AND SHALL BE CAPABLE OF INTERRUPTING THE MAXIMUM FAULT CURRENT THAT THE GENERATOR IS CAPABLE OF PRODUCING.
- FOR EQUIPMENT MARKED (FUTURE), PROVIDE SPACE IN THE SWITCHBOARD FOR INSTALLED DEVICES.
- PROVIDE POWER MONITOR AND ALL ASSOCIATED METERING COMPONENTS, PFS, CTS, ETC.
- GROUND RING SHALL BE BURIED AT LEAST 36" BELOW GRADE AND SHALL BE RUN AROUND THE PERIMETER OF THE BUILDING. BOND THE GROUND RING TO THE GROUND RODS.

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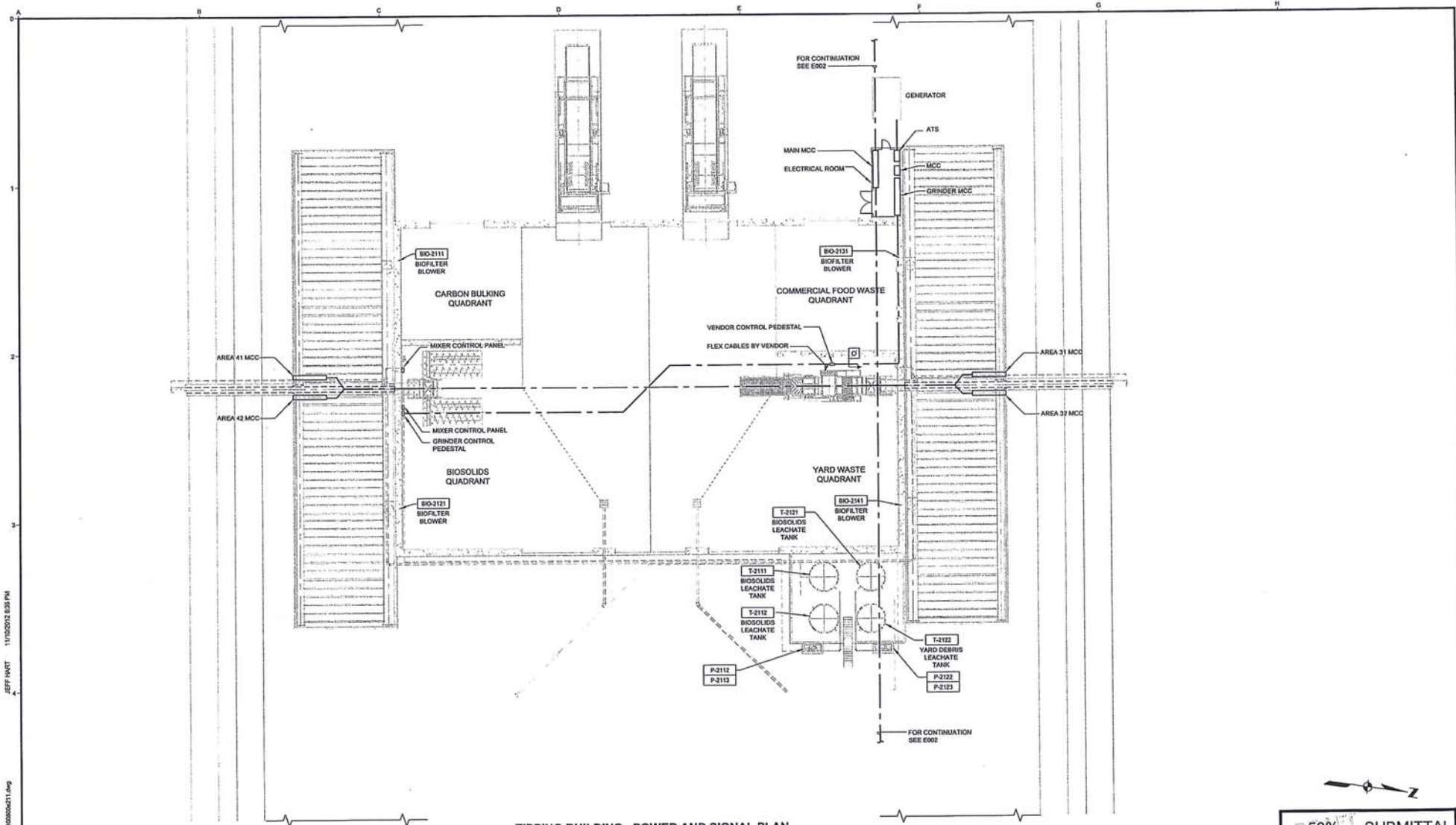
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PACIFIC CLEAN ENVIRONMENTAL
CLE ELUM, WASHINGTON
**ELK HEIGHTS
ORGANICS PROCESSING FACILITY**

Kennedy/Jenks Consultants
200 SW MARKET ST., SUITE 500, PORTLAND, OR 97201

ELECTRICAL SINGLE LINE DIAGRAM 1

FILE NAME: 129100900000000000000000.DWG
JOB NO.:
DATE: OCT 2012
SHEET: **E003** OF



TIPPING BUILDING - POWER AND SIGNAL PLAN
 0 10 20
 1/16" = 1'-0"

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TIPPING BUILDING PLAN - POWER AND SIGNAL PLAN

FILE NAME	129100900E211.DWG
JOB NO.	—
DATE	JUNE 2012
SHEET OF	E211

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INSTRUMENT SYMBOL IDENTIFIERS

J-1: IDENTIFICATION LETTERS (SEE TABLE BELOW) J-4: FUNCTION BLOCK (SEE TABLE BELOW)
 J-2: LOOP NUMBER J-5: PANEL NUMBER
 J-3: VENDOR DESIGNATOR (NOTE 3) J-6: HANDSWITCH DESIGNATOR (SEE BELOW)

FIRST LETTER		SUCCEEDING LETTERS			
MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER	
A ANALYSIS		ALARM			
B BURNER COMBUSTION		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE	
C USER'S CHOICE			CONTROL	CLOSED	
D DENSITY	DIFFERENTIAL	DAMPER			
E VOLTAGE		SENSOR (PRIMARY ELEMENT)			
F FLOW RATE	RATIO (FRACTION)				
G USER'S CHOICE		GLASS, VIEWING DEVICE			
H HAND					HIGH
I CURRENT (ELECTRICAL)		INDICATE			
J POWER	SCAN				
K TIME, TIME SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION		
L LEVEL		LIGHT			LOW
M MOISTURE	MOMENTARY				MIDDLE, INTERMEDIATE
N USER'S CHOICE		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE	
O USER'S CHOICE		ORIFICE, RESTRICTION		OPEN	
P PRESSURE, VACUUM		POINT (TEST) CONNECTION			
Q QUANTITY	INTEGRATE, TOTALIZE				
R RADIATION		RECORD			
S SPEED, FREQUENCY	SAFETY	SWITCH			
T TEMPERATURE			TRANSMIT		
U MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION	
V VIBRATION, MECHANICAL ANALYSIS			VALVE, DAMPER, OR LOUVER		
W WEIGHT, FORCE		WELL			
X UNCLASSIFIED	X AXIS	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	
Y EVENT, STATE, PRESENCE	Y AXIS		RELAY, COMPUTE, CONVERT		
Z POSITION, DIMENSION	Z AXIS		DRIVER, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT		

GENERAL INSTRUMENT OR FUNCTION SYMBOLS	FIELD MOUNTED	PRIMARY LOCATION ACCESSIBLE TO OPERATOR	AUXILIARY LOCATION ACCESSIBLE TO OPERATOR	NORMALLY INACCESSIBLE OR BEHIND THE PANEL
DISCRETE INSTRUMENTS				
SHARED DISPLAY, SHARED CONTROL				
COMPUTER FUNCTION				
PROGRAMMABLE LOGIC CONTROL				

J-4 FUNCTION BLOCK DESIGNATORS

	SUMMING		ROOT EXTRACTION
	DIFFERENCE		SQUARE ROOT
	INTEGRAL		EXPONENTIAL
	DERIVATIVE		HIGH SELECTING
	MULTIPLYING		LOW SELECTING
	DIVIDING		BIAS
	CONVERT:		NONLINEAR OR UNSPECIFIED FUNCTION
E - VOLTAGE	H - HYDRAULIC		
I - CURRENT	O - ELECTROMAGNETIC, SONIC		
P - PNEUMATIC	R - RESISTANCE (ELECT)		
A - ANALOG	D - DIGITAL		
B - BINARY			

J-6 HANDSWITCH DESIGNATORS

HDA	HAND-OFF-AUTO	LR	LOCAL-REMOTE
HR	HAND-OFF-REMOTE	OC	OPEN-CLOSE
F-R	FORWARD-REVERSE	OCA	OPEN-CLOSE-AUTO
1-0	ON-OFF	AM	AUTO-MANUAL

INSTRUMENT SERVICES

AS - INSTRUMENT AIR SUPPLY (NOTE 4)
 ES - 120 VAC ELECTRICAL SERVICE (DIFFERENT VOLTAGES ARE SPECIFICALLY NOTED)

PLC INPUT/OUTPUT (NOTE 5)

	DISCRETE INPUT		ANALOG INPUT
	DISCRETE OUTPUT		ANALOG OUTPUT

FLOW PRIMARY ELEMENTS

	ORIFICE PLATE
	SINGLE PORT PITOT TUBE OR PITOT-VENTURI TUBE
	VENTURI TUBE
	AVERAGING PITOT TUBE
	FLUME
	WEIR
	TURBINE OR PROPELLER-TYPE PRIMARY ELEMENT
	THERMAL MASS FLOWMETER
	POSITIVE DISPLACEMENT TYPE FLOW TOTALIZING INDICATOR
	VORTEX SENSOR
	RELAY, COMPUTE, CONVERT
	FLOW NOZZLE
	MAGNETIC FLOWMETER
	SONIC FLOWMETER
	ROTAMETER
	ROTAMETER WITH INTEGRAL VALVE

LINES

	MAIN PROCESS
	SECONDARY PROCESS
	REFERENCES LEAVING SHEET
	LINE CONTINUATION TO DRAWING REFERENCE
	REFERENCES ENTERING SHEET
	FROM DRAWING REFERENCE
	LINE CONTINUATION
	2" BW
	PIPE SYSTEM
	PIPE SIZE IN INCHES
	ELECTRICAL SIGNAL
	SOFTWARE OR DATALINK
	PNEUMATIC
	HYDRAULIC
	CAPILLARY TUBE
	ELECTROMAGNETIC OR SONIC (SHUDD)
	MECHANICAL
	CONNECTED
	ELECTRICAL
	NOT CONNECTED

VALVES

	GATE VALVE		GAUGE OR ROOT VALVE
	GLOBE VALVE		
	PLUG VALVE		
	CHECK VALVE		
	PINCH VALVE		
	DIAPHRAGM VALVE		
	BUTTERFLY VALVE		
	BALL VALVE		
	NEEDLE VALVE		
	PLUG (COCK)		
	PRESSURE REDUCING REGULATING VALVE, SELF-CONTAINED		
	BACK PRESSURE REGULATING VALVE, SELF-CONTAINED		
	PRESSURE REDUCING REGULATOR WITH EXTERNAL PRESSURE TAP		
	3-WAY VALVE		
	4-WAY VALVE		
	ANGLE VALVE		
	PRESSURE RELIEF VALVE		
	* FC = FAIL CLOSED LC = LOCKED CLOSED		
	FO = FAIL OPEN LO = LOCKED OPEN		
	CLOSED DURING NORMAL OPERATION		
	SHADING INDICATES PORT TO BE CLOSED DURING NORMAL OPERATION, DOT INDICATES PORT TO BE CLOSED DURING ALTERNATE OPERATION.		

VALVE OPERATORS

	DIAPHRAGM		CYLINDER OPERATOR
	DIAPHRAGM PRESSURE BALANCED		SOLENOID
	MOTOR		SOLENOID VALVE

TYPICAL CONNECTION

	IN-LINE DEVICE
	DIRECT CONNECTION TO PROCESS
	TEMPERATURE ELEMENT WITH WELL
	RADIATION OR SONIC SENSING
	FILLED SYSTEM, DIAPHRAGM SEAL CONNECTION

MISCELLANEOUS

	FLANGE		DRIVE UNIT
	UNION		GATE - NORMALLY CLOSED
	Y STRAINER		GATE - NORMALLY OPEN
	FLOW STRAIGHTENING VANE		SAMPLER
	TEE		FLEXIBLE PIPE CONNECTOR
	DIAPHRAGM VALVE		
	SCREWED CAP		
	WELDED CAP		
	BLIND FLANGE		
	REDUCER		
	HOSE BIBB CONNECTION		
	EXPANSION JOINT		
	FLEXIBLE COUPLING		
	FLANGED COUPLING ADAPTER		
	SLUICE GATE OR SLIDE GATE		
	DRAIN		
	DIAPHRAGM SEAL		
	ANNULAR SEAL		
	ADJUSTABLE FREQUENCY DRIVE		
	RUPTURE DISK, PRESSURE		
	RUPTURE DISK, VACUUM		
	PURGE		
	THERMOMETER WELL		
	CALIBRATION CYLINDER		
	PULSATION DAMPER		
	AIR RELIEF VALVE		
	AIR RELEASE		
	LEVEL PROBE		
	CHEMICAL DIFFUSER		
	STATIC MIXER		
	EDUCTOR/INJECTOR		
	INTERLOCK, NUMBER IS THE CROSS REFERENCE TO A SPECIFIC ELEMENTARY DIAGRAM OR TO A SPECIFIC CONTROL STRATEGY DESCRIBED IN THE SPECS		
	* AV - AIR VALVE T - TRAP		
	F - FILTER PH - FIRE HYDRANT		
	VR - VACUUM RELIEF		
	WATER LINE		
	GRAVITY FLOW		
	ULTRASONIC LEVEL ELEMENT		

EQUIPMENT

	MIXER
	VERTICAL TURBINE PUMP
	SUBMERSIBLE PUMP
	PUMP BLOWER
	PUMP
	METERING PUMP
	PUMP PROGRESSIVE CAVITY
	ROTARY PUMP
	PERISTALTIC PUMP
	SURFACE AERATOR
	UV LAMP ASSEMBLY
	INTAKE FILTER

- NOTES:**
- THIS IS A GENERALIZED LEGEND SHEET.
 - SEE ALSO ISA 95.1, 95.3 AND 97.3.
 - INSTRUMENTS MARKED WITH AN ASTERISK ARE FURNISHED WITH THE EQUIPMENT.
 - REFER TO ISA 97.7 FOR INSTRUMENT AIR QUALITY STANDARDS.
 - * DESIGNATES CONTROL PANEL TERMINATION. (PLC PANEL OR BUNDLE TO RACK) SEE SCADA BLOCK DIAGRAM FOR CONTROL PANEL NUMBERS.

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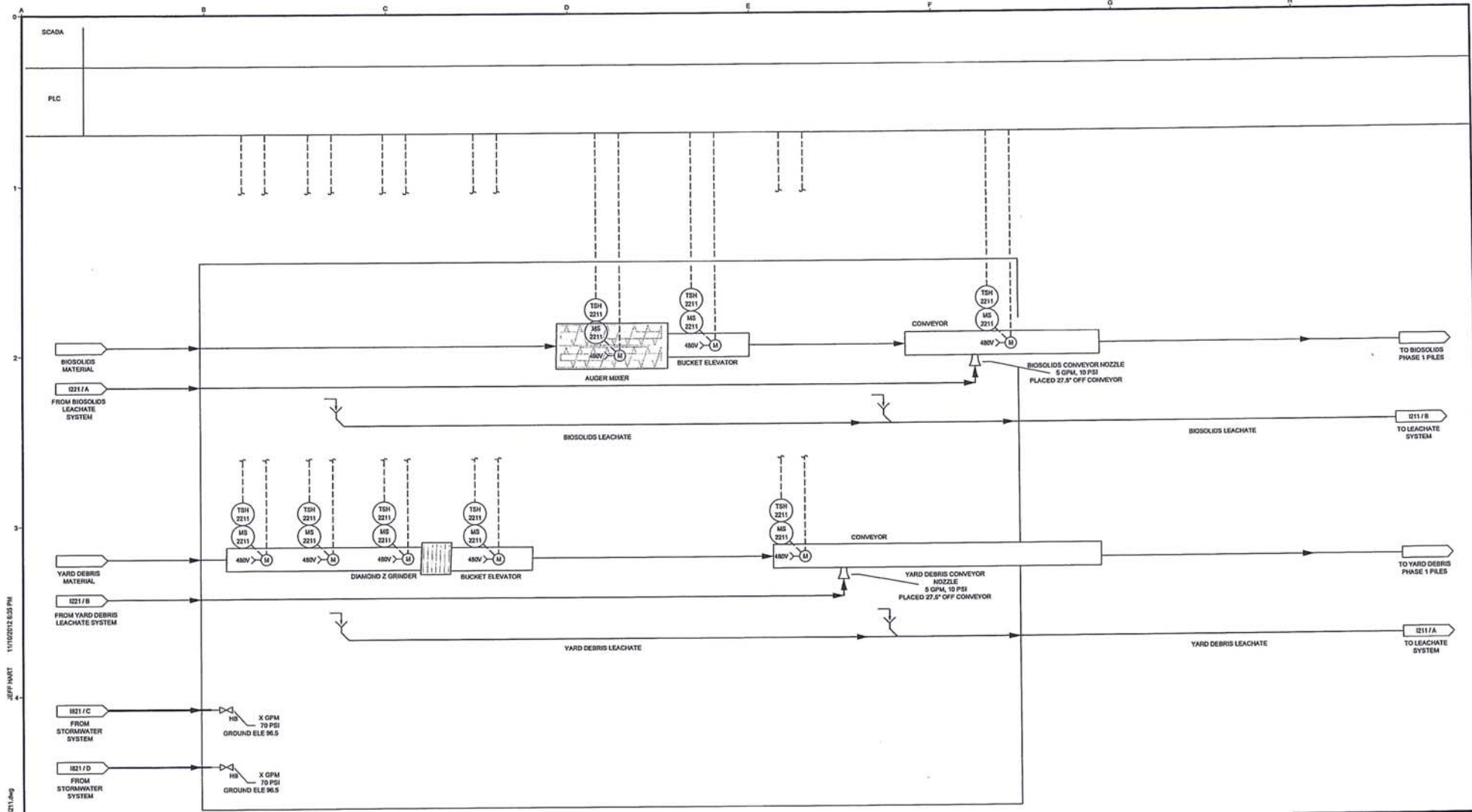
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P&ID - SYMBOLS AND ABBREVIATIONS

FILE NAME	1291008001.001.DWG
JOB NO.	
DATE	OCT 2012
SHEET OF	1001

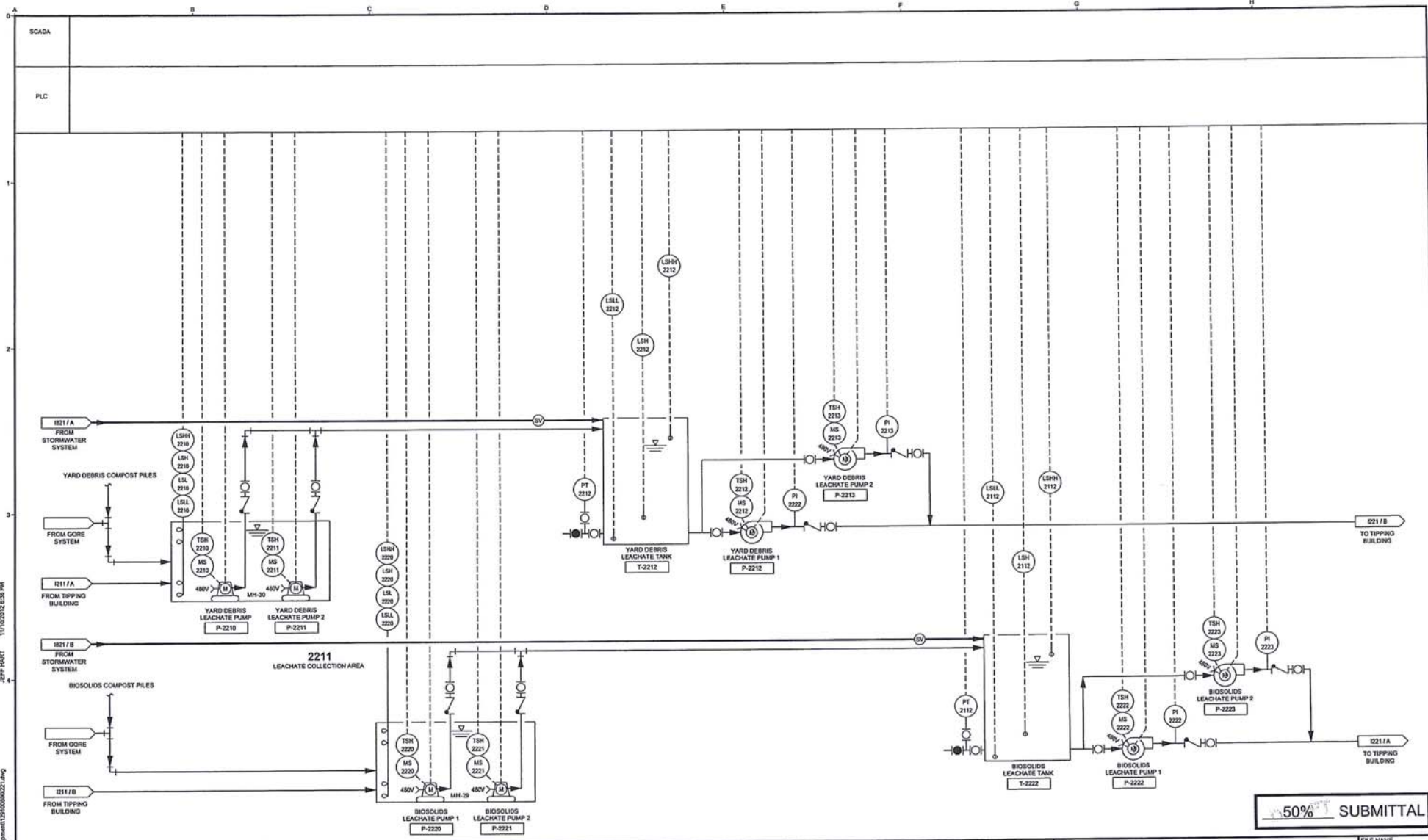


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TIPPING BUILDING

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JOB NO. -																										
DATE OCT 2012						SHEET OF 1211																				



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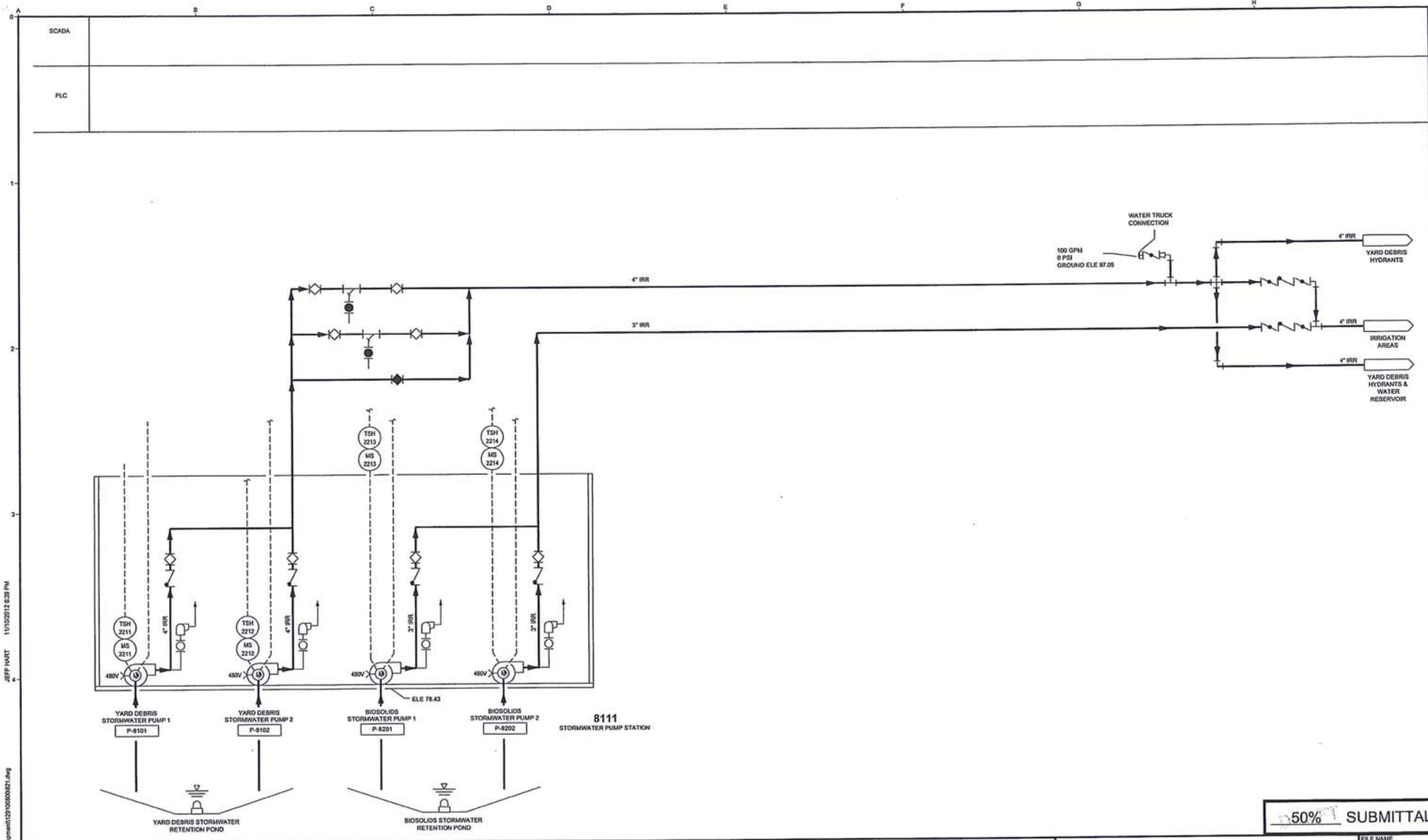
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P&ID - LEACHATE COLLECTION AND PUMP STATION

FILE NAME: 1291005001221.DWG
 JOB NO.:
 DATE: OCT 2012
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P&ID - STORMWATER COLLECTION AND PUMP STATION

FILE NAME	1291006001821.DWG
JOB NO.	---
DATE	JUNE 2012
SHEET	CF
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