

GENERAL NOTES

- A MINIMUM OF ONE "NO SMOKING" SIGN SHALL BE INSTALLED NEAR THE FUELING AREA
- TANKS SHALL HAVE A MINIMUM WALL THICKNESS OF 12 ga.
- AGRICULTURAL TANKS DO NOT HAVE TO BE VAULTED OR HAVE A FIRE SHIELD RATING
- IT IS RECOMMENDED THAT THE LANDOWNER CONTACT THEIR INSURANCE PROVIDER FOR ANY SPECIFIC REQUIREMENTS OF THEIR POLICY.
- IT IS THE LANDOWNERS RESPONSIBILITY TO INSURE TANKS WILL FIT INTO THE STRUCTURE

DESIGN ASSUMPTIONS

60 PSF

1.2

GROUND SNOW LOAD: EXPOSURE CATEGORY THERMAL FACTOR: IMPORTANCE FACTOR: SLOPE FACTOR: TERRAIN CATEGORY **ROOF EXPOSURE:**

1.2 8.0 0.9 "B" (WOODED TERRAIN, OR OBSTRUCTIONS)

BASIC WIND SPEED: 90 MPH **BUILDING TYPE:** OPEN

0.87 IMPORTANCE FACTOR: **EXPOSURE CATEGORY:** "C" (OPEN TERRAIN W/ SCATTERED OBSTRUCTIONS) GUST FACTOR:

EXPOSURE COEF., Kz: 0.90 TOPOGRAPHIC FACTOR, Kzt: 1.0 (NO ESCARPMENT, 2D RIDGE OR 3D HILL)

DIRECTIONALITY FACTOR, Kd. 0.85 ROOF DEAD LOAD: 5 PSF ROOF LIVE LOAD: 20 PSF MIN. REQUIRED SOIL BEARING: 2000 PSF

FASTENERS

FASTENERS BOLTS, LAGS

-COMMON NAILS

f_{bb}=45,000 PSI MIN. (ANSI/ASME B18.2.1)

ÁSTM A307 GRADE A OR SAE J429 GRADE 1

- RING SHANKED NAILS fun=115,000 PSI MIN. ASTM F1667-05

FOR ENGINEERED CONSTRUCTION

f, =90,000 PSI MIN. ASTM F1667-05

FOR ENGINEERED CONSTRUCTION

ALL NAILS SHALL BE HOT DIP GALVANIZED - MEETING ASTM A153-09 CLASS D ALL BOLTS, LAGS, NUTS & WASHERS - MEETING ASTM A153-09 CLASS C (OR ASTM F2329-05)

STRUCTURAL NOTES

- ALL CONNECTIONS SHALL BE AS SHOWN. IF SPLITTING OCCURS WITH NAILS THEN PREBORE HOLES UP TO 75% OF THE NAIL DIAMETER.
- ALL BOLT HOLES SHALL BE A MAXIMUM 16" LARGER THAN THE BOLT DIAMETER, ACCURATELY PLACED AND CUT CLEANLY WITH A SHARP BIT. STANDARD CUT WASHERS SHALL BE USED ON BOTH ENDS OF THE BOLT.
- ALL PRESSURE TREATED LUMBER SHALL BE TREATED WITH A MIN. OF 0.40 PCF OF CCA, 0.06 PCF OF CuN (COPPER NAPHTHENATE) OR 0.40 PCF OF ACQ, MEETING AWPA U1 STANDARD FOR USE CATEGORY UC4A. OTHER PRESERVATIVES MEETING THIS STANDARD ARE ALSO ACCEPTABLE.

1	2-3-12	INITIAL DESIGN	TKJ
2	4-19-12	SIGNS, NO SMOKING	TKJ
3	6-20-12	GENERAL NOTES	TKJ
NO.	DATE	DESCRIPTION	BY

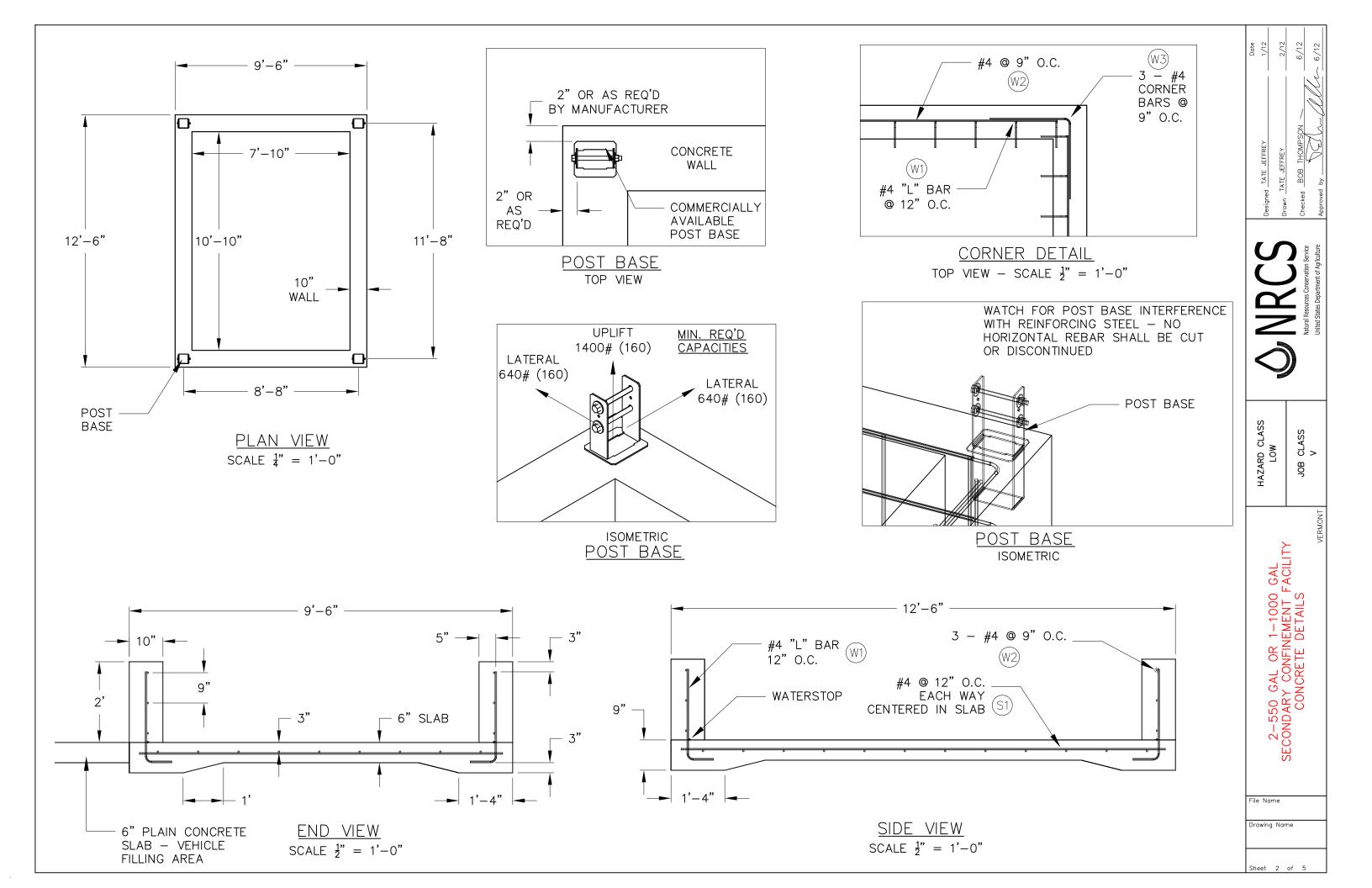
HAZARD CLASS LOW CLASS V

2-550 GAL OR 1-1000 GAL SECONDARY CONFINEMENT FACILITY COVER SHEET

File Name

Drawing Name

Sheet 1 of 5



CONCRETE WALL CONSTRUCTION NOTES

- 1. ALL FILL THAT SHALL HAVE CONCRETE PLACED ON IT SHALL BE CLASS II COMPACTION AS SPECIFIED IN CONSTRUCTION SPECIFICATION #11, "EARTHWORK".
- 2. ALL CONCRETE FORMWORK & REINFORCEMENT SHALL BE INSPECTED BY A REPRESENTATIVE OF THE NRCS PRIOR TO THE PLACEMENT OF CONCRETE.
- 3. ALL CONCRETE & REINFORCING SHALL BE INSTALLED ACCORDING TO NRCS CONSTRUCTION SPECIFICATION #31, "STRUCTURAL CONCRETE, NONSTRUCTURAL CONCRETE BASE SLABS & STEEL REINFORCEMENT".
- 4. ALL REINFORCING STEEL SHALL BE GRADE 60.
- 5. ALL REINFORCING SHALL BE IN PLACE PRIOR TO CONCRETE PLACEMENT. (NO PLUNKING)
- 6. ALL REINFORCING SHALL HAVE THE MINIMUM CLEAR COVER AS SHOWN ON THE DRAWINGS.
- 7. ALL CONCRETE SHALL BE AN NRCS APPROVED MIX, WITH 5 TO 7 PERCENT AIR CONTENT AND PLACED AT A SLUMP BETWEEN 3 TO 5 INCHES. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE 28 DAY STRENGTH OF 4000 PSI.
- 8. SUPER PLASTICIZERS, WATER REDUCING ADMIXTURES NON CHLORIDE ACCELERANTS ARE PERMISSIBLE. SEE CONSTRUCTION SPECIFICATION #31.
- 9. BENTONITE OR PVC TYPE WATERSTOP SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS. MINIMUM CONCRETE COVER OVER WATERSTOP SHALL BE 3" OR MANUFACTURER'S RECOMMENDED MINIMUM COVER, WHICHEVER IS GREATER.
- 10. CONCRETE FORM OIL SHALL BE APPLIED TO THE FORMS PRIOR TO ERECTION. FORM OIL SHALL NOT BE APPLIED TO THE FORMS ONCE REINFORCING IS IN PLACE. (NO FORM OIL ON REINFORCING)
- 11. NO CONCRETE SHALL BE PLACED WHEN THE MINIMUM DAILY ATMOSPHERIC TEMPERATURE IS LESS THAN 40 DEGREES FAHRENHEIT. UNLESS COLD WEATHER CONCRETING PRACTICES ARE FOLLOWED. CONCRETE SHALL BE PROTECTED FROM FREEZING FOR 7 DAYS.
- 12. CONCRETE SHALL NOT BE PLACED WHEN THE DAILY MAXIMUM TEMPERATURE IS EXPECTED TO BE GREATER THAN 90 DEGREES.
- 13. ALL CONCRETE SHALL BE PLACED WITHIN 90 MINUTES OF THE INTRODUCTION OF CEMENT TO THE MIXTURE, OTHERWISE A SET RETARDING ADMIXTURE SHALL BE USED.
- 14. CONCRETE FORMS SHALL BE REMOVED ONLY AFTER A MINIMUM OF 12 HOURS HAVE ELAPSED SINCE THE COMPLETION OF THE CONCRETE PLACEMENT.

 BACKFILLING OPERATIONS SHALL NOT COMMENCE UNTIL A MINIMUM OF 7 DAYS SINCE THE COMPLETION OF THE POUR.
- 15. CONCRETE SHALL BE CURED FOR A MINIMUM OF 7 DAYS BY THE USE OF A CURING COMPOUND, SATURATED COVER MATERIAL OR FREQUENT APPLICATION OF WATER.
- 16. TIEHOLES ON BOTH SIDES OF THE WALL SHALL BE PATCHED WITH A HYDRAULIC CEMENT.
- 17. ALL DISTURBED AREAS SHALL BE FERTILIZED, SEEDED, AND MULCHED ACCORDING TO VT NRCS CONSTRUCTION SPECIFICATION #52, "SEEDING".

DESIGN ASSUMPTIONS

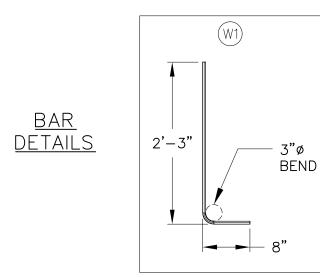
- 1. DESIGN BASED FINITE ELEMENT ANALYSIS
- 2. MINIMUM SOIL BEARING STRENGTH 2,000 PSF
- 3. MAX. BACKFILL IS 1', LOW PLASTIC CLAY OR SILT
- 4. EQUIVALENT FLUID PRESSURE = 75 PSF (FRAME TANK)
- 5. SURCHARGE OF 100 PSF INCLUDED
- 6. GRADE 60 STEEL FOR REBAR
- 7. 3000 PSI CONCRETE STRENGTH

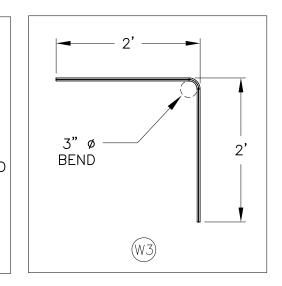
SPLICES NOT SHOWN IN DETAILS ARE NOT INCLUDED IN TOTAL LENGTH.

USE 18" SPLICE LENGTH FOR #4 BARS USE 22" SPLICE LENGTH FOR #5 BARS

STEEL SCHEDULE

LOCATION	BAR SIZE	SPACING	LENGTH FT-IN	QUANTITY	TOTAL LENGTH FT-IN
(S1)	#4	12"	_	_	117'
W1)	#4	12"	2'-10"	42	153'
W2)	#4	9"	VARIES	12	115'
(W3)	#4	9"	4'-3"	12	51'





ESTIMATED CONCRETE QUANTITIES

<u>ITEM</u>	QUANTITY	<u>UNIT</u>	CONSTRUCTION SPEC.
CONCRETE SLAB/FOOTING	2.9	C.Y.	31
CONCRETE CURB	2.5	C.Y.	31
CONCRETE FILLING AREA	3.4	C.Y.	31

Designed TATE JEFFREY 1/12

| Drawn TATE JEFFREY 2/12

| Checked BOB THOMPSON 6/12

| Annowed by | 6/12

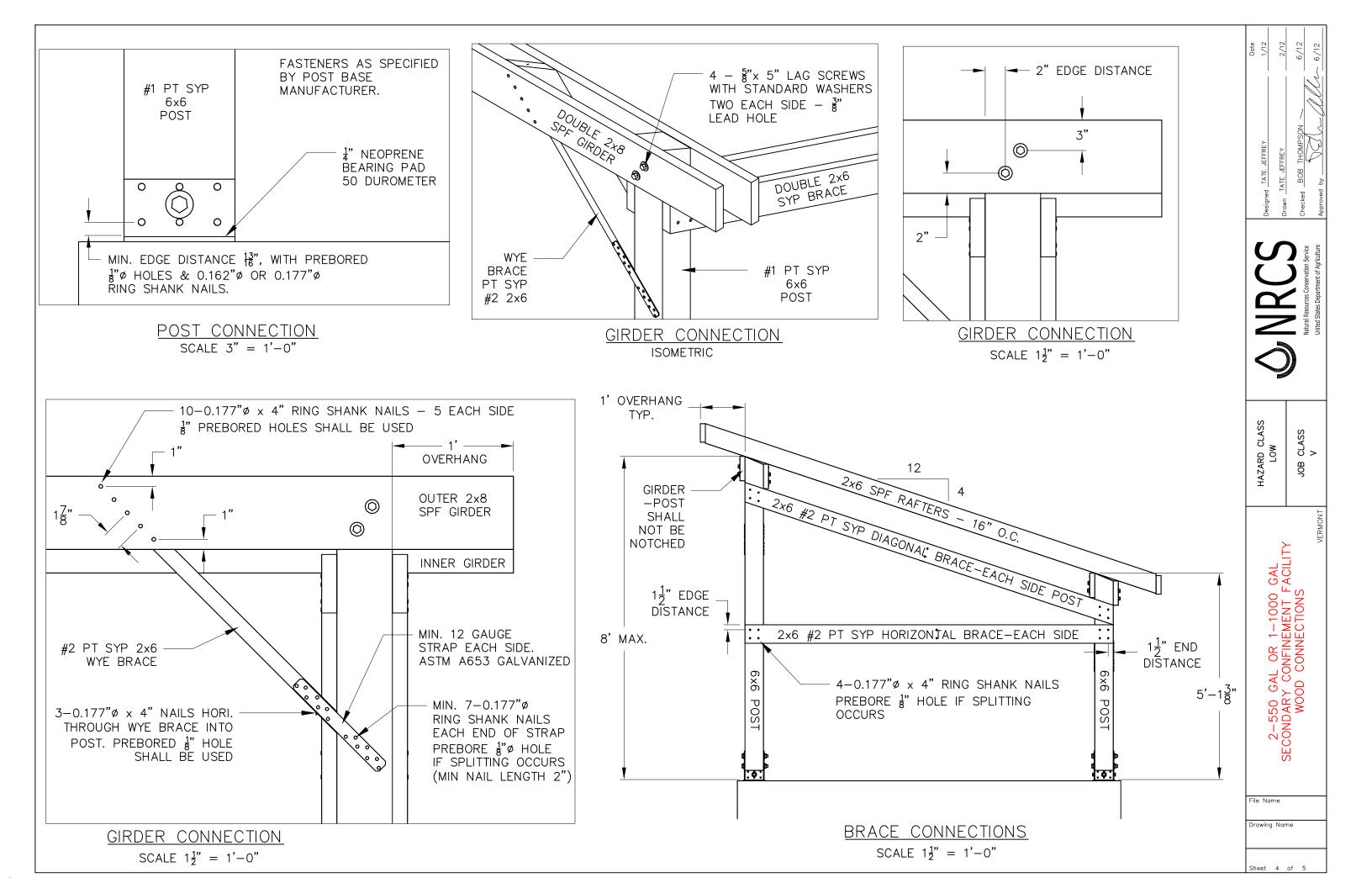
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United States Department of Agriculture

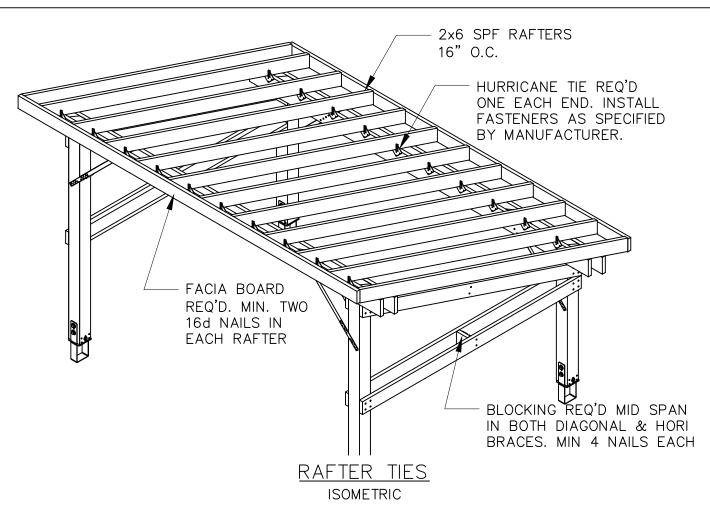
HAZARD CLASS LOW JOB CLASS

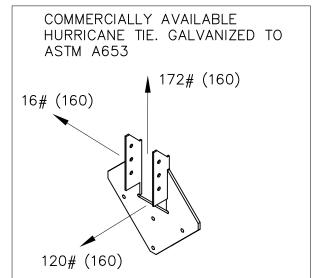
2—550 GAL OR 1—1000 GAL SECONDARY CONFINEMENT FACILITY CONCRETE DETAILS

File Name Drawing Name

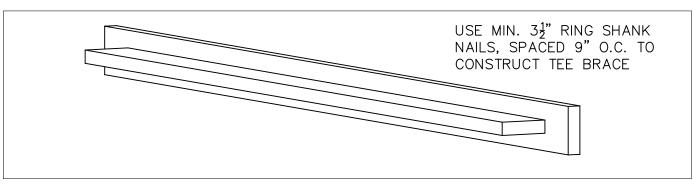
Shoot 3 of 5







RAFTER TIES MIN. CAPACITIES



OPTIONAL BRACE CONSTRUCTION BLOCKING NOT REQUIRED

MEMBER LIST

					TOTAL	
<u>DESCRIPTION</u>	<u>TREATMENT</u>	<u>MEMBER</u>	<u>LENGTH</u>	<u>QTY</u>	<u>LENGTH</u>	SPECIES AND GRADE
POSTS	PT	6x6	VARIES	4	318'	SOUTHERN YELLOW PINE (SYP) #1 OR BETTER
POST BASE	GALV	_	_	4	_	COMMERCIALLY AVAILABLE — GALVANIZED ASTM A653
BEARING PAD	_	_	_	4	4	NEOPRENE PAD, ¼" THICK, 50 DUROMETER
GIRDER	KD	2-2x8	14'	2	56'	SPRUCE PINE FIR (SPF) #1 OR BETTER
WYE BRACE	PT	2x6	3'	4	12'	SOUTHERN YELLOW PINE (SYP) #2 OR BETTER
WYE BRACE SINGLE STRA	P GALV.	_	_	8	_	12 ga. MIN. — GALVANIZED ASTM A653
HORIZONTAL BRACE	PT	2-2×6	$9'-1\frac{1}{2}"$	2	36'-6"	SOUTHERN YELLOW PINE (SYP) #2 OR BETTER
DIAGONAL BRACE	PT	2-2X6	9'-9 1 "	2	40'	SOUTHERN YELLOW PINE (SYP) #2 OR BETTER
ROOF RAFTERS	KD	2x6	11'-3 3 "	12	135'-9"'	SPRUCE PINE FIR (SPF) #1 OR BETTER
ROOFING	_	_		_	163 SF	_

SAN About Resources Conservation Service

HAZARD CLASS LOW CLASS V

File Name

Drawing Name