

LOCATION IN CALIFORNIA

CERTIFICATION

I CERTIFY THAT THIS PROJECT WAS DESIGNED BY ME OR UNDER MY DIRECTION IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES.



MICHAEL K. LYBARGER R.C.E. 56736

# RAM SPRINGS WATER SOURCE IMPROVEMENTS

## ALLEGHANY, CA. SIERRA COUNTY

REVISION	NO.

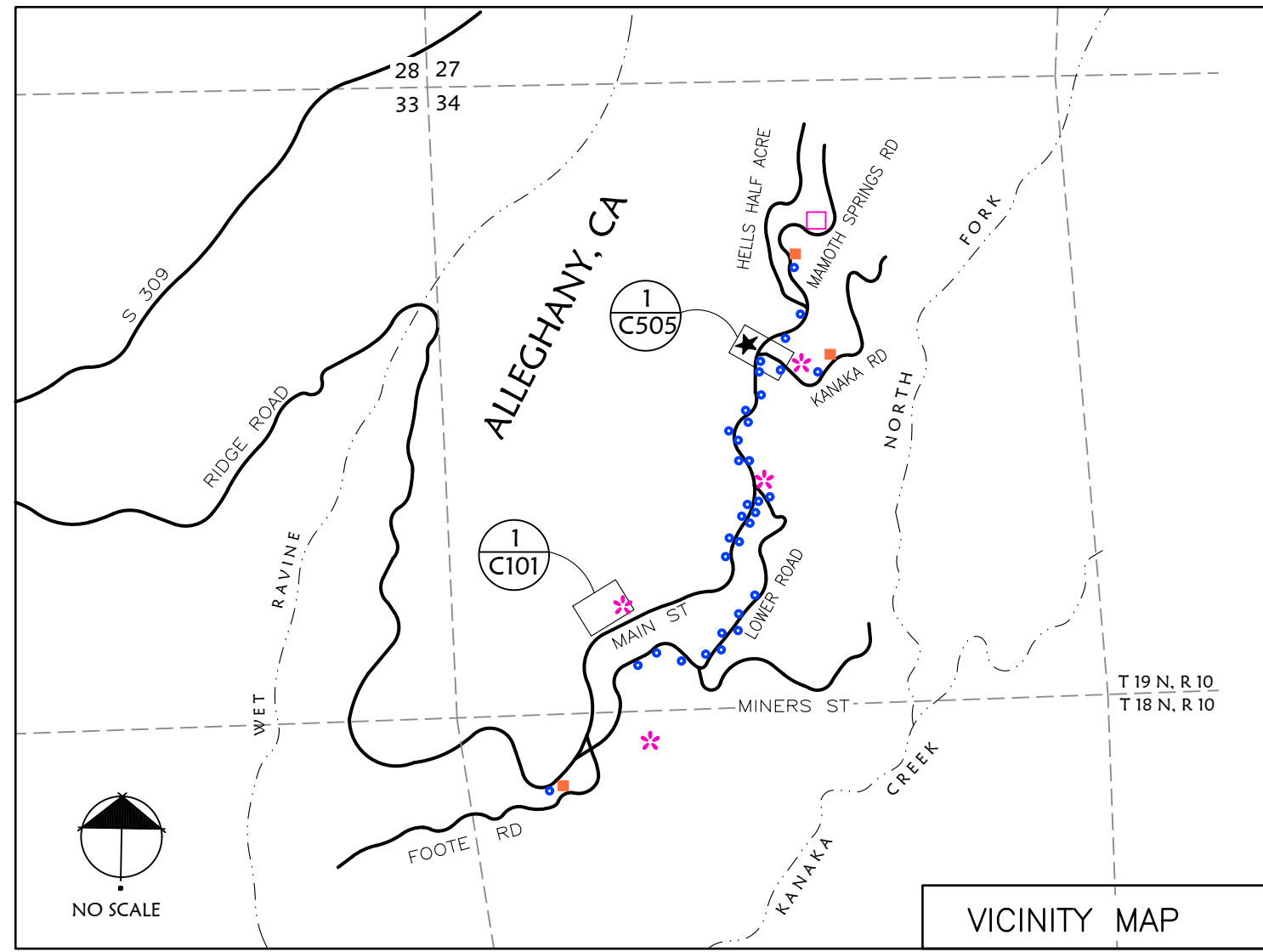
PLANS PREPARED BY:  
**ALTEC ENGINEERING**  
333 N. MAIN STREET  
ALTURAS, CA  
(530) 233-2453  
CIVIL ENGINEERING &  
LAND SURVEYING

PLANS PREPARED FOR:  
**ALLEGHANY COUNTY WATER DISTRICT**

**RAM SPRINGS WATER SOURCE IMPROVEMENTS**  
TITLE SHEET

DRAWN	ALTEC TECH1
CHECKED	
DATE	MAR. 20, 2020
SCALE	AS NOTED
JOB NO.	ALLEGHANY SPRINGS

SHEET  
**T101**  
1 OF 20



VICINITY MAP

- LEGEND:**
- ★ (N) GATE VALVE AND VALVE BOX. SEE SH. C505
  - REPLACE (E) WATER METER. (E) METER SETTER AND METER BOX TO REMAIN. (51 TOTAL) SEE SH. C504
  - ✱ (N) METER, SETTER AND BOX (3 TOTAL)
  - (N) SAMPLE TAP (3 PLACES)
  - (N) AVOIDANCE FENCING AT CUMBERLAND SPRING

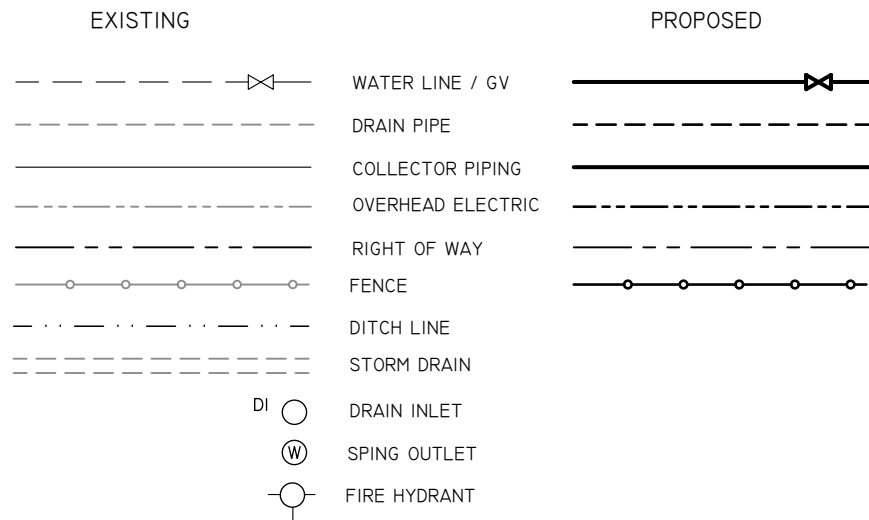
NOTE:  
LOCATIONS ARE REPRESENTATIVE ONLY AND WILL BE STAKED IN THE FIELD BY PROJECT ENGINEER.



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**PRELIMINARY**  
NOT FOR CONSTRUCTION

**LEGEND:**



**ABBREVIATIONS:**

AB ANCHOR BOLT	ELEV. ELEVATION	LG LENGTH/LONG	SECT SECTION
AC ASPHALTIC/CONCRETE	ELEC ELECTRICAL	LIM LIMIT	SHT SHEET
AFF ABOVE FINISHED FLOOR	ELEV. ELEVATION	LT LEFT	SIM SIMILAR
AGG AGGREGATE	EOL END OF LINE	M METER	SM SEWER MAIN
ARV AIR/VAC. RELEASE VALVE	EOP EDGE OF PAVEMENT	MM MILLIMETER	SPEC SPECIFICATION
ASSY ASSEMBLY	EQ EQUAL	MANUF MANUFACTURED	SQ SQUARE
	EW EACH WAY	MAX MAXIMUM	STA STATION POINT
BLDG BUILDING	EXIST EXISTING	MATL MATERIAL	STD STANDARD
BRG BEARING		MFR MANUFACTURER	STL STEEL
BV BUTTERFLY VALVE	FDN FOUNDATION	MH MANHOLE	TEL TELEPHONE
BOL BEGINNING OF LINE	FH FIRE HYDRANT	MIN MINIMUM	TNK TANK
	FIN FINISHED	MISC MISCELLANEOUS	TYP TYPICAL
CB CATCH BASIN	FLH FLUSH HYDRANT	N NORTH	UTL UTILITY
CI CAST IRON	FLR FLOOR	NAT'L ELECTRIC CODE	UBC UNIFORM BUILDING CODE
CL CENTER LINE	FND FOUND	NOT IN CONTRACT	
CL CLASS	FT FEET	NUMBER	
CLR CLEAR	FTG FOOTING	NTS NOT TO SCALE	VB VAPOR BARRIER
CM CUBIC METER			VERT VERTICAL
CMP CORRUGATED METAL PIPE	GA GAUGE	OC ON CENTER	
CO CLEAN OUT	GALV GALVANIZED	OH OVERHEAD	W WEST
CONC CONCRETE	GR GRADE	PE POLYETHYLENE	WI WIDE
CONT CONTINUOUS	GRD GROUND	PL PROPERTY LINE	WM WATER MAIN
CP CONTROL POINT	GV GATE VALVE	PP POWER POLE	WMT WATER METER
		PVC POLYVINYL CHLORIDE	W/ WITH
D DEEP	HD HOSE BIB	PVMT PAVEMENT	W/O WITHOUT
DET DETAIL	HORIZ HORIZONTAL		WSL WATER SERVICE LINE
DIA (Ø) DIAMETER	HT HEIGHT	R RADIUS	WWF WELDED WIRE FABRIC
DIM DIMENSION	HWY HIGHWAY	REIN REINFORCE	
DIP DUCTILE IRON PIPE		REQD REQUIRED	
DN DOWN	ID INSIDE DIAMETER	ROW RIGHT OF WAY	
DW DRIVEWAY	INSUL INSULATION	RT RIGHT	
	INT INTERIOR		
	INV INVERT		

**GENERAL NOTES:**

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION PLANS AND SPECIFICATIONS FOR THIS PROJECT, AND IN CONFORMANCE WITH THE REQUIREMENTS OF CONSTRUCTION FOR PROJECTS FUNDED BY THE U.S. ENVIRONMENTAL PROTECTION AGENCY.
- ALL CONSTRUCTION AND CONSTRUCTION EQUIPMENT SHALL BE RESTRICTED TO THE AREAS DESIGNATED BY THE PROJECT OWNER AND CONTRACTING OFFICER.
- ALL EXCESS EXCAVATION MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH FEDERAL AND STATE REGULATIONS AND AS DIRECTED BY THE PROJECT OWNER. NO PAYMENT WILL BE MADE FOR THIS WORK.
- WHILE A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND SHOW ON THE DRAWINGS ALL EXISTING STRUCTURES, UTILITIES AND FEATURES THAT MAY BE AFFECTED BY CONSTRUCTION ACTIVITIES OF THE PROJECT, IT IS POSSIBLE THAT SOME ITEMS MAY HAVE BEEN MISSED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE FEATURES THAT WILL BE AFFECTED BY THE CONSTRUCTION ACTIVITIES, AND BRING ANY DISCREPANCIES TO THE ATTENTION OF THE COR.
- THE CONTRACTOR SHALL TAKE WHATEVER ACTIONS NECESSARY TO COMPLY WITH ENVIRONMENTAL REQUIREMENTS OF THE U.S. ENVIRONMENTAL PROTECTION AGENCY, INCLUDING EROSION CONTROL AND STORM WATER RUNOFF MEASURES, AND AVOIDANCE OF WETLAND AREAS, AS REQUIRED BY LAW AND THE PLANS AND SPECIFICATIONS FOR THIS PROJECT.
- ALL TREE REMOVAL FOR TREES EXCEEDING 9 INCHES IN DIAMETER SHALL BE PERFORMED BY A CONTRACTOR WITH A CALIFORNIA D-49 TREE SERVICE CONTRACTORS LICENSE.

**PROJECT TASK LIST:**

(THIS LIST TO BE USED FOR A GUIDE THROUGH THE VARIOUS TASKS AND TO PROVIDE SOME ORDER AND CLARIFICATION. REFER ALSO TO THE BID SCHEDULE FOR THIS PROJECT, AND THE PLANS AND SPECIFICATIONS.)

- Environmental Pre-construction survey for nesting birds.
- Remove existing chain link fence.
- Remove existing fabric within fenced area.
- Remove trees. (± 9 large cedar, oak and pine). Remove all saplings and underbrush within designated area shown on Plans.
- Clear, scalp and grub all areas designated on Plans, including Wetland Establishment area, Ram Spring fenced area, Driveway and Storage Building area.
- Earthwork, Excavation, Rough and Finish Grading: Remove hillock in wetland area, re-slope within fenced collection area, excavate and re-slope area for Sample Lab/ Storage building.
- Install curtain drain trenches (4). Connect Spring outflow on west side of pump house to curtain drain serving the wetland area.
- Install valve boxes. Replace ball valves. Replace PVC collector pipes and manifold pipe. Install PVC unions at designated locations.
- Install Sampling Stations on Collector pipes (6).
- Install Low-head Flow Meter (1).
- Place new fabric inside fenced area to prevent blackberry and sweet pea growth. Place overlay of ¾" crushed rock throughout the entire Spring collection area on top of new laid fabric. Place 2nd layer of fabric. Cover with 12 inches native material backfill to prevent UV deterioration and for freeze protection.
- Reconfigure the pump house. New pumps. Install scada compatible flow meter. Chlorine, meter (scada compatible). Leave the mechanical meter. (Separate Specialty Contractor)
- Install vents in the existing pump house.
- Install new chain link fence.
- Install concrete pad (8ft x 8ft) and roof cover (12 ft x 12 ft) for the collector tank. Install 3-in Collector Tank overflow pipe. Install 2-in tank drain pipe. Connect together and outlet to existing 6-in drain pipe.
- Construct concrete gutter w/ steel grate at Storage Building driveway.
- Construct paved driveway to new Storage Building.
- Construct new 16' X 12' storage building/sample lab.
- Replace Propane Generator.
- Replace meters on all Residential Service Connections (52).
- Install (N) valve, Valve Box and meter on each of three spur lines off of main townsite water line.
- Install perimeter "avoidance" fencing at Cumberland Springs site.

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**WATER DISTRICT**

**RAM SPRINGS**  
**WATER SOURCE IMPROVEMENTS**  
**NOTES, LEGEND**

DRAWN ALTEC TECH1
CHECKED
DATE MAR. 20, 2020
SCALE AS NOTED
JOB NO. ALLEGHANY SPRINGS

SHEET <b>T102</b>
2 OF 20

REVISION	NO.

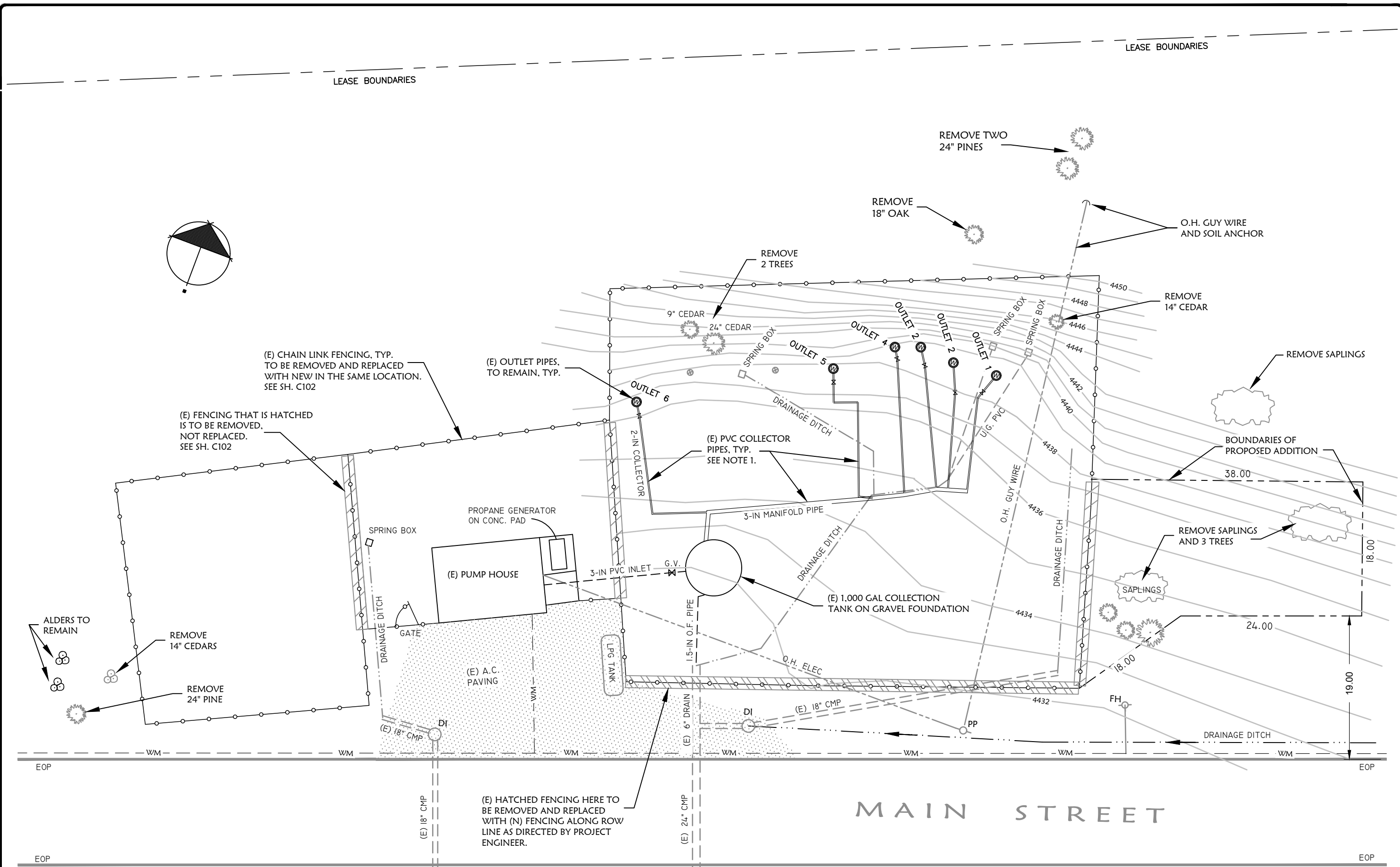
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PLANS PREPARED FOR:  
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**RAM SPRINGS WATER SOURCE IMPROVEMENTS OVERALL SITE PLAN**

DRAWN  
 ALTEC TECH1  
 CHECKED  
 DATE  
 MAR. 20, 2020  
 SCALE  
 AS NOTED  
 JGB NO.  
 ALLEGHANY SPRINGS

SHEET  
**C101**  
 3 OF 20



**NOTES:**  
 1. ALL ABOVE GROUND COLLECTOR, MANIFOLD, AND OVERFLOW PIPING AND APURTANANCES SHALL BE REMOVED AND DISPOSED OF AS PER SPECIFICATIONS.

1  
 C101

**OVERALL SITE PLAN, EXISTING CONDITIONS**

SCALE: 1" = 12'

**PRELIMINARY NOT FOR CONSTRUCTION**



REVISION	NO.

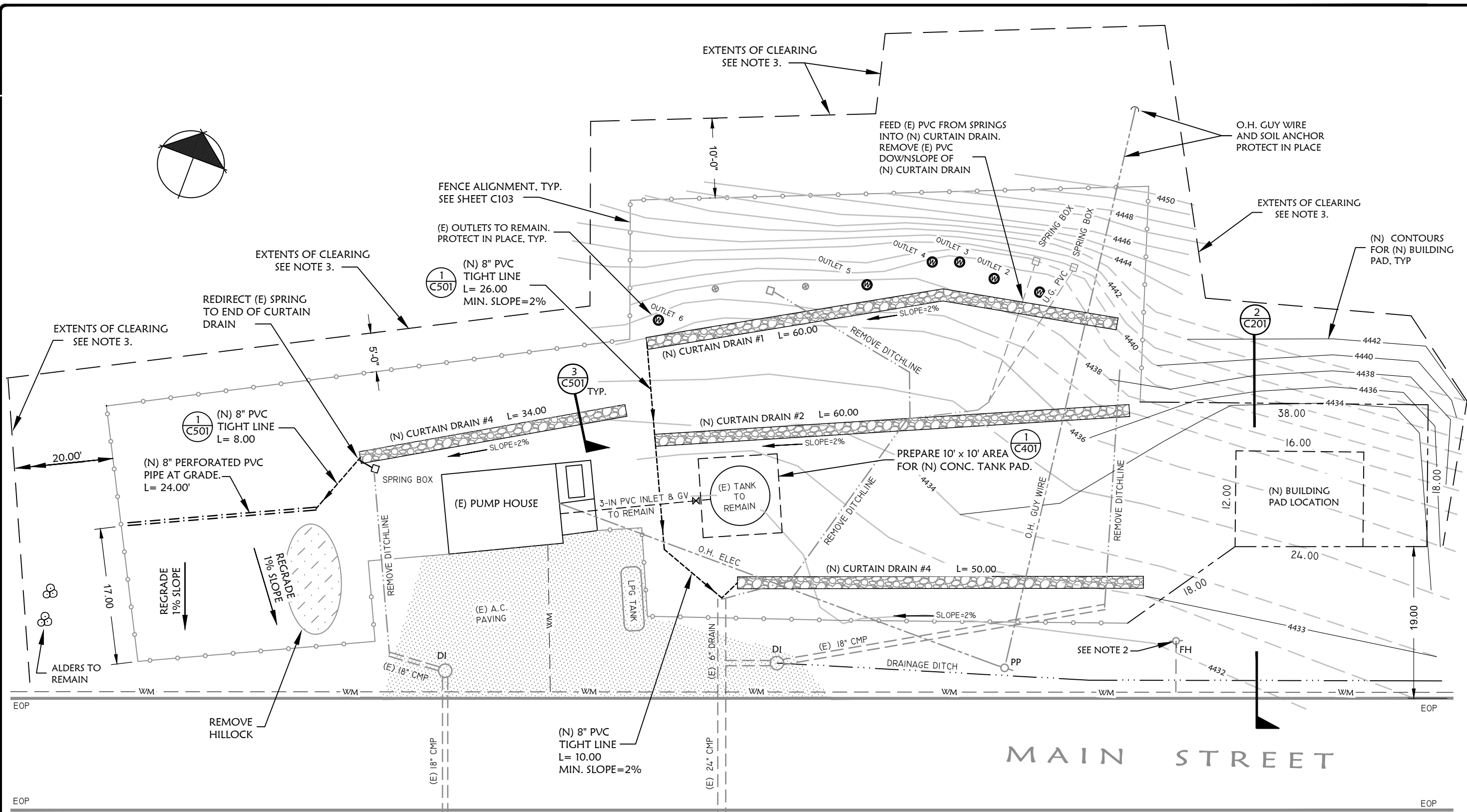
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PLANS PREPARED FOR:  
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**RAM SPRINGS WATER SOURCE IMPROVEMENTS GRADING/DRAINAGE PLAN**

DRAWN  
 ALTEC TECH1  
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 DATE  
 MAR. 20, 2020  
 SCALE  
 AS NOTED  
 JGB NO.  
 ALLEGHANY SPRINGS

SHEET  
**C102**  
 4 OF 20



- NOTES:**
- CURTAIN DRAIN ALIGNMENTS AND FENCE ALIGNMENT SHALL BE STAKED IN THE FIELD BY THE PROJECT ENGINEER.
  - VERTICAL CONTROL BENCHMARK = 4434.40 SOUTH EDGE OF TOP FLANGE ON FIRE HYDRANT.
  - FOR THE ENTIRE AREA WITHIN THE FENCED SPRING SITE, AND ALSO BEHIND (NORTH) OF THE PUMP HOUSE REMOVE ALL FABRIC, AND CLEAR, SCALP AND GRUB THE AREA. RE GRADE TO A CONSTANT SLOPE. PLACE HEAVY 5-0Z NON-WOVEN LANDSCAPE FABRIC.
  - FOR THE ENTIRE AREA AROUND THE (N) COLLECTOR AND MANIFOLD PIPE, BACK FILL WITH 1-IN MINUSBACK FILL WITH 1 INCH MINUS LEACH ROCK TO THE LEVEL OF THE COLLECTOR PIPES. OVERLAY WITH 6 INCHES OF NATIVE SOIL BACK FILL.

**1 C102 GRADING / DRAINAGE PLAN**  
 SCALE: 1" = 12'

**PRELIMINARY NOT FOR CONSTRUCTION**

REVISION	NO.

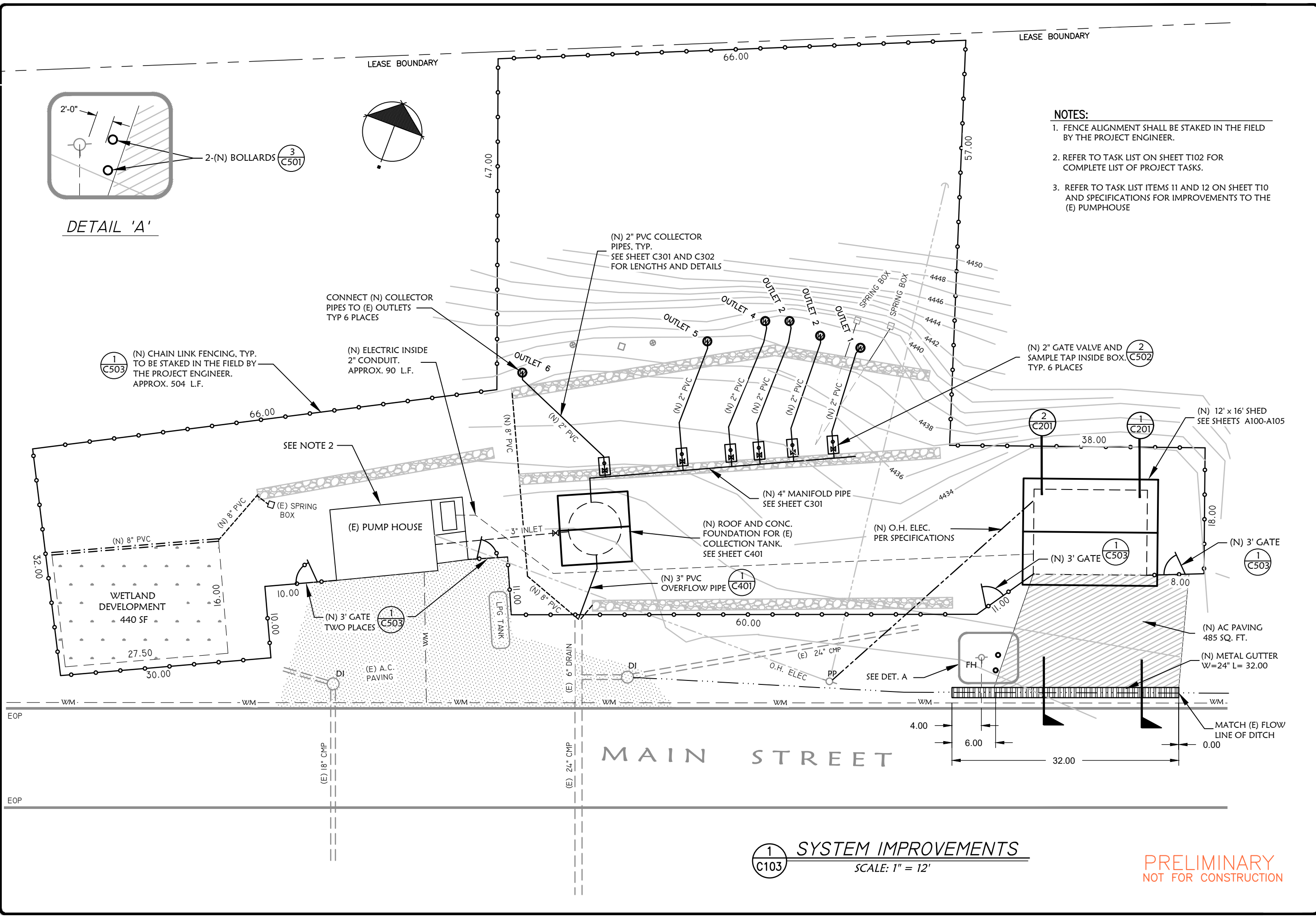
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**RAM SPRINGS WATER SOURCE IMPROVEMENTS SYSTEM IMPROVEMENTS**

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 DATE  
 MAR. 20, 2020  
 SCALE  
 AS NOTED  
 JGB NO.  
 ALLEGHANY SPRINGS

SHEET  
**C103**  
 5 OF 20



- NOTES:**
1. FENCE ALIGNMENT SHALL BE STAKED IN THE FIELD BY THE PROJECT ENGINEER.
  2. REFER TO TASK LIST ON SHEET T102 FOR COMPLETE LIST OF PROJECT TASKS.
  3. REFER TO TASK LIST ITEMS 11 AND 12 ON SHEET T10 AND SPECIFICATIONS FOR IMPROVEMENTS TO THE (E) PUMPHOUSE

**DETAIL 'A'**

**1 SYSTEM IMPROVEMENTS**  
 SCALE: 1" = 12'

**PRELIMINARY**  
 NOT FOR CONSTRUCTION

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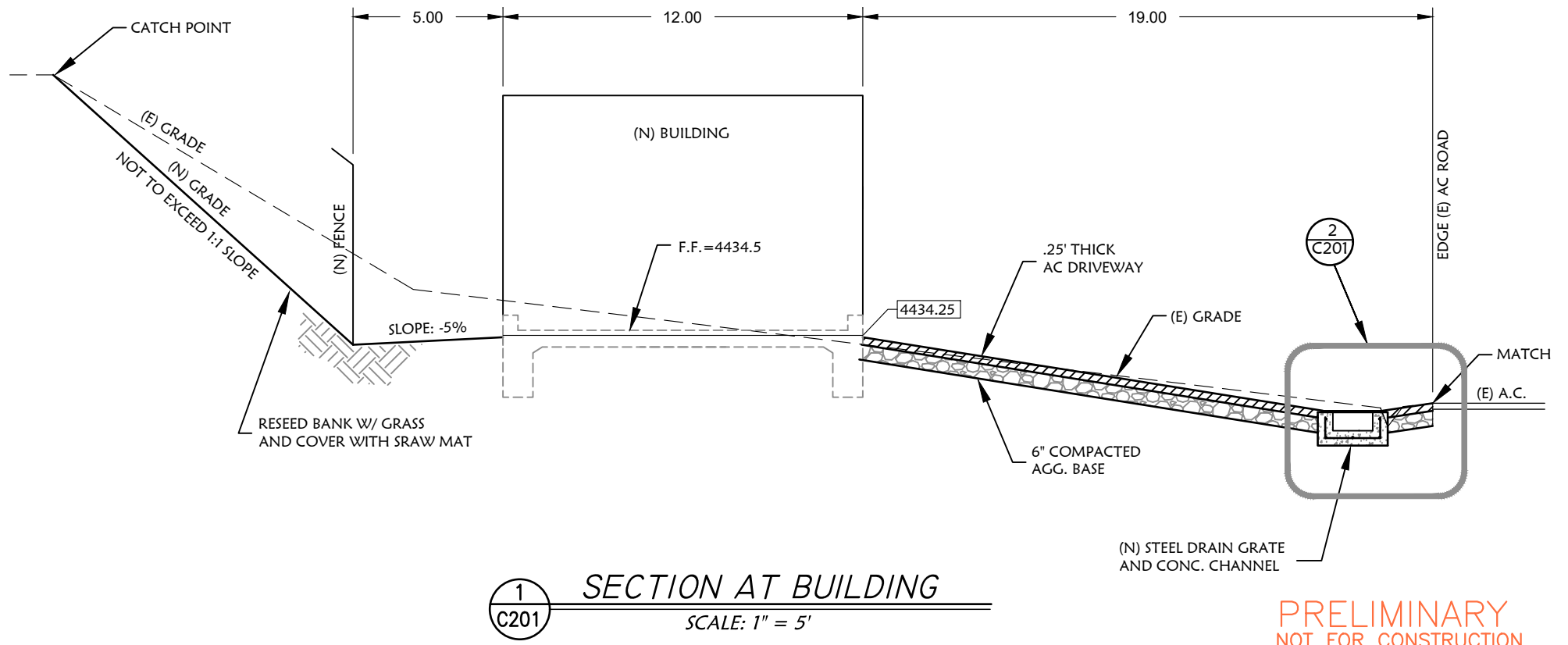
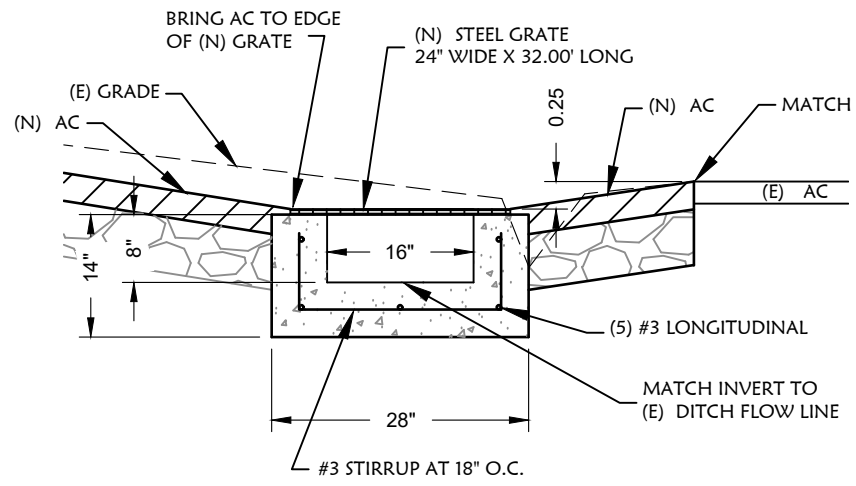
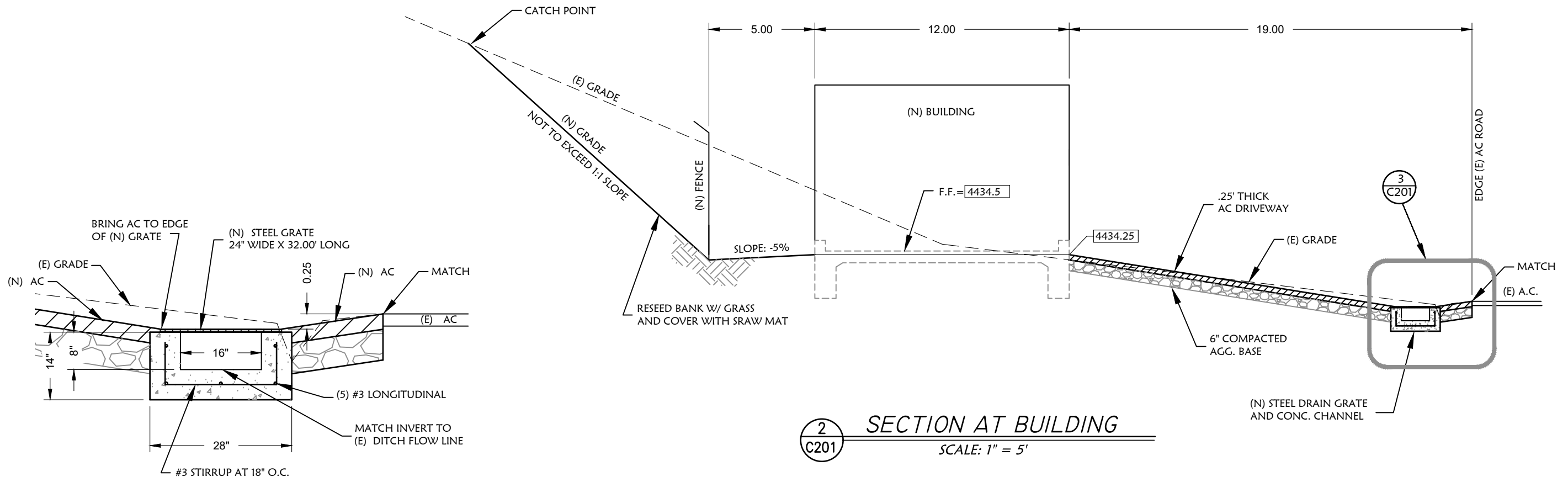
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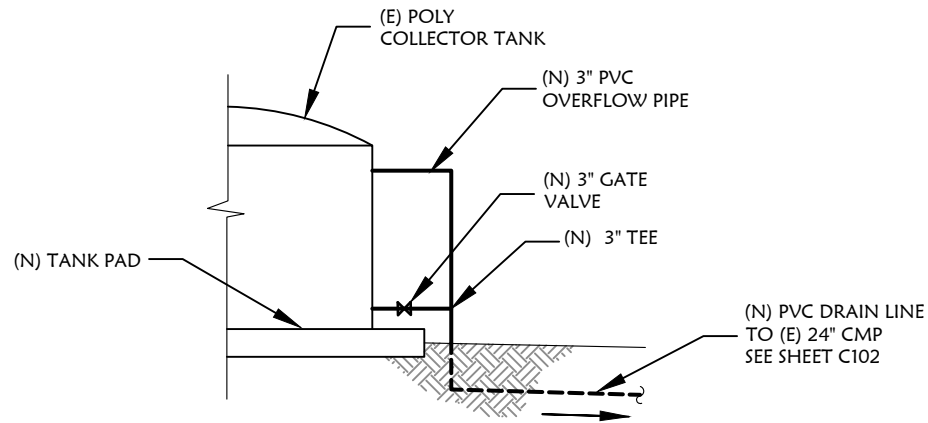
**RAM SPRINGS WATER SOURCE IMPROVEMENTS**  
**CROSS SECTIONS**

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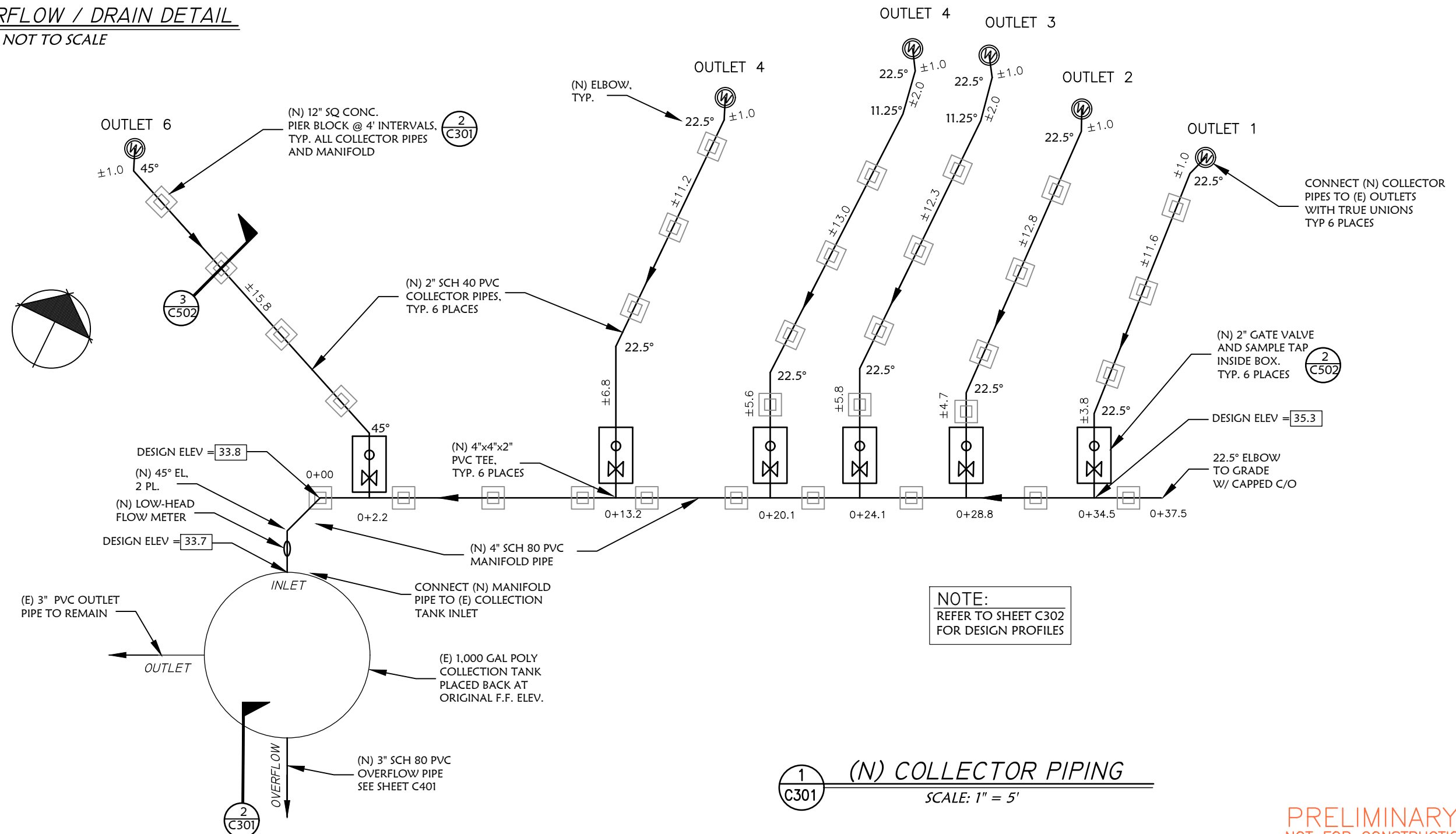
SHEET  
**C201**  
 6 OF 20



**PRELIMINARY**  
 NOT FOR CONSTRUCTION



**2 OVERFLOW / DRAIN DETAIL**  
C301 NOT TO SCALE



NOTE:  
REFER TO SHEET C302  
FOR DESIGN PROFILES

**1 (N) COLLECTOR PIPING**  
C301 SCALE: 1" = 5'

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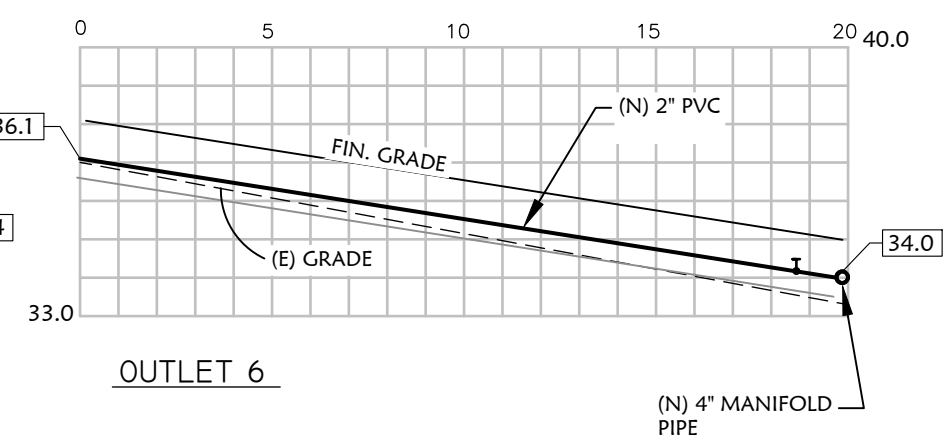
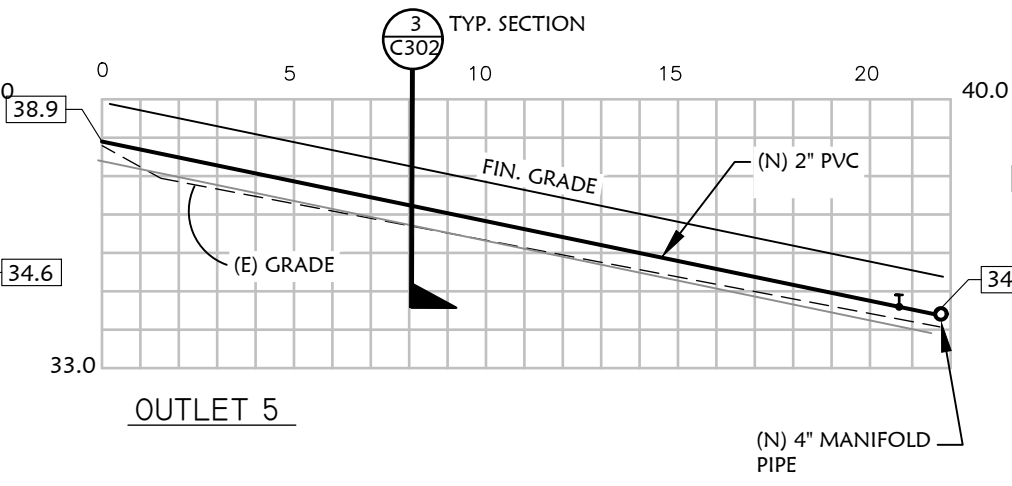
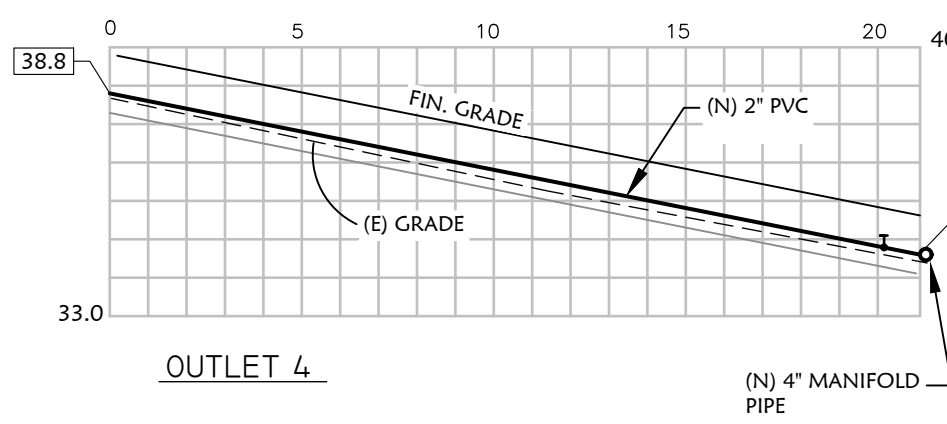
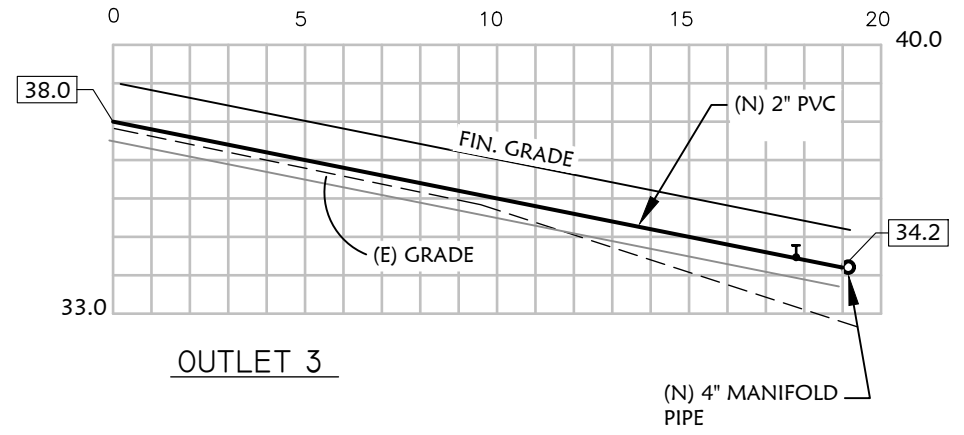
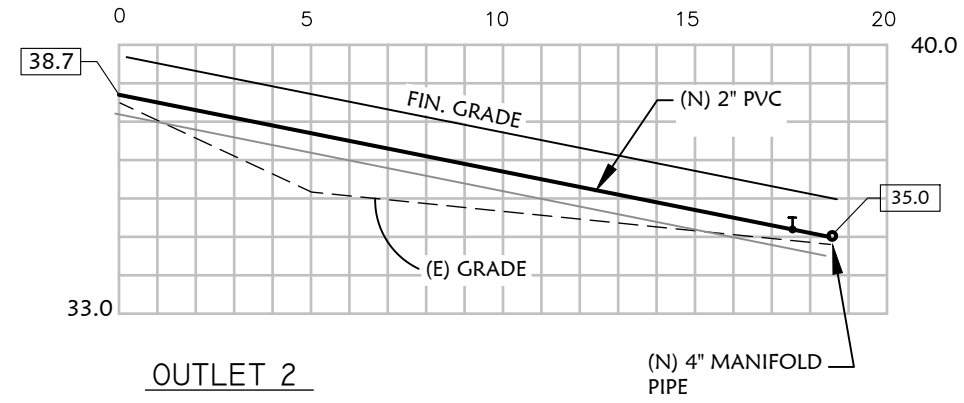
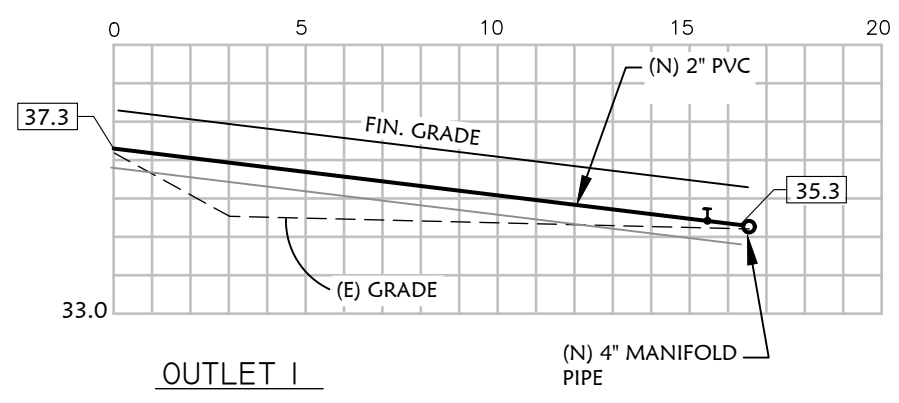
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**RAM SPRINGS WATER SOURCE IMPROVEMENTS COLLECTOR PIPING DETAIL**

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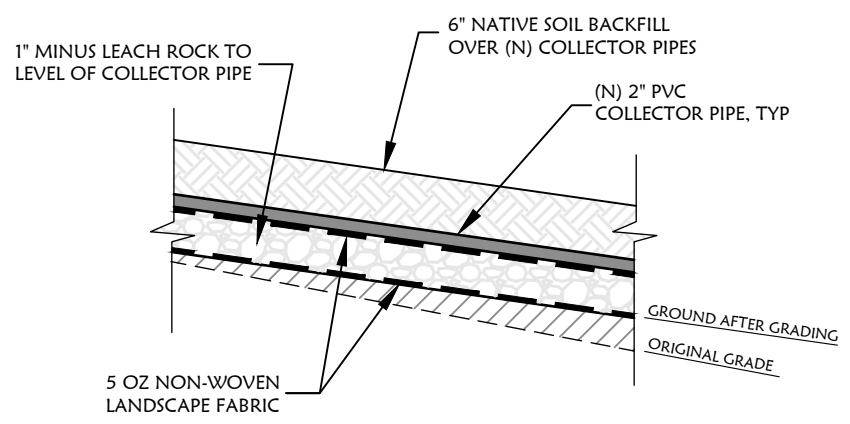


NOTE:  
 VERTICAL CONTROL  
 BENCH MARK = 4434.40  
 S. EDGE OF TOP FLANGE ON F.H.  
 SEE SH. C101

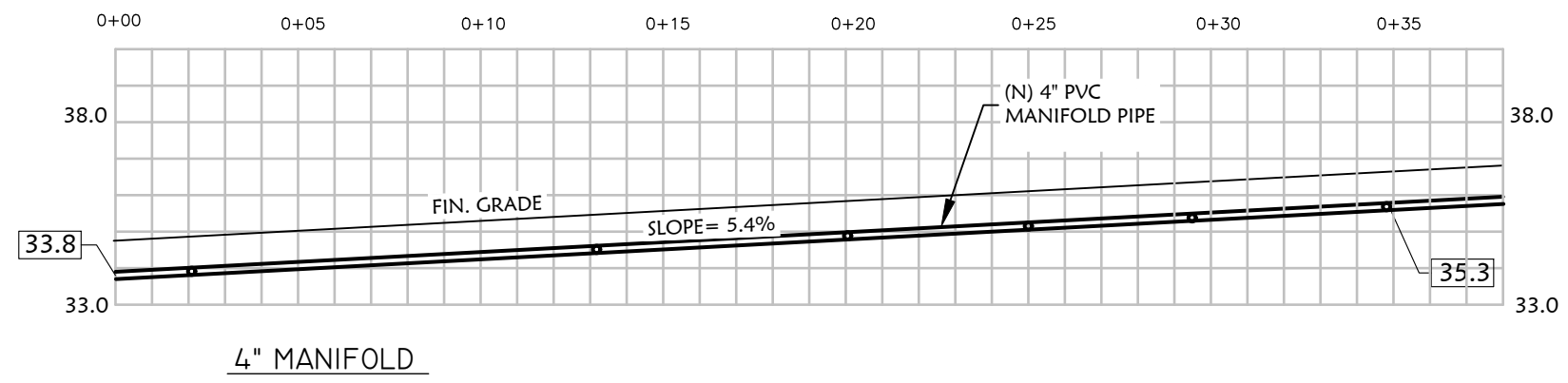
34.6 = DESIGN ELEV.

**1** COLLECTOR PIPE PROFILES  
 HORIZ. SCALE : 1" = 5'  
 VERT. SCALE : 1" = 5'

PLANS PREPARED FOR:  
**ALLEGHANY**  
 WATER DISTRICT



**3** TYP. SECTION-COLLECTOR FIELD  
 NOT TO SCALE



34.6 = DESIGN ELEV.

NOTE:  
 VERTICAL CONTROL  
 BENCH MARK = 4434.40  
 S. EDGE OF TOP FLANGE ON F.H.  
 SEE SH. C101

**2** MANIFOLD PIPE PROFILE  
 HORIZ. SCALE : 1" = 5'  
 VERT. SCALE : 1" = 5'

PRELIMINARY  
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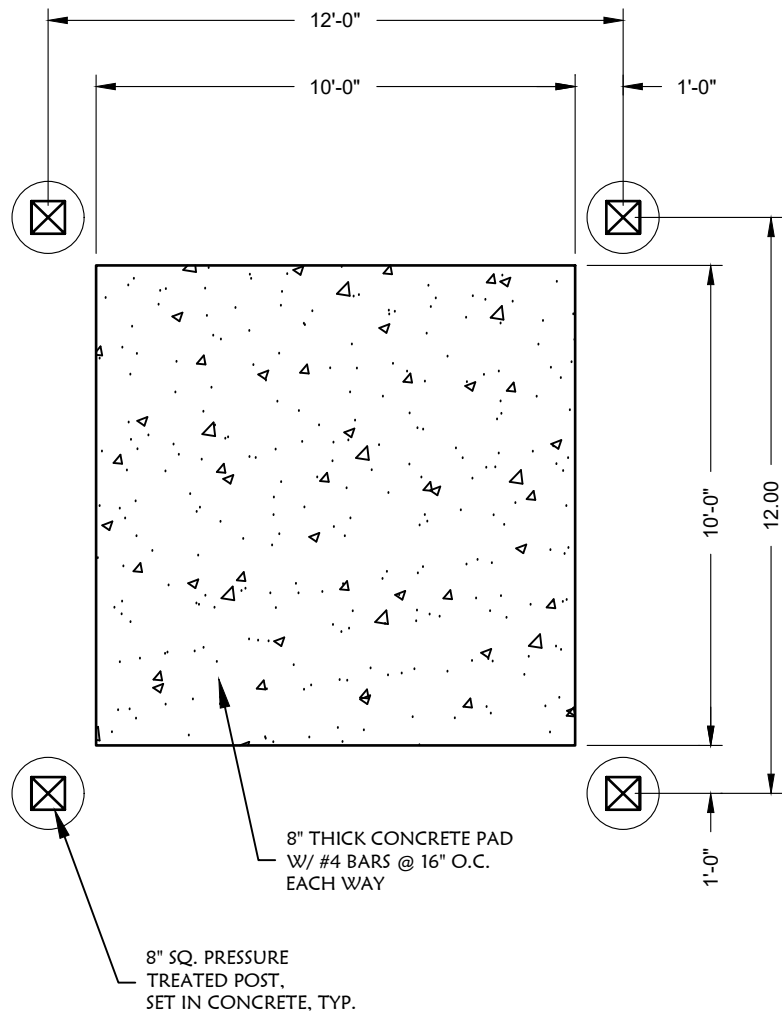
PIPING PROFILES

DRAWN
CHECKED
DATE
SCALE
JOB NO.



NOTES:

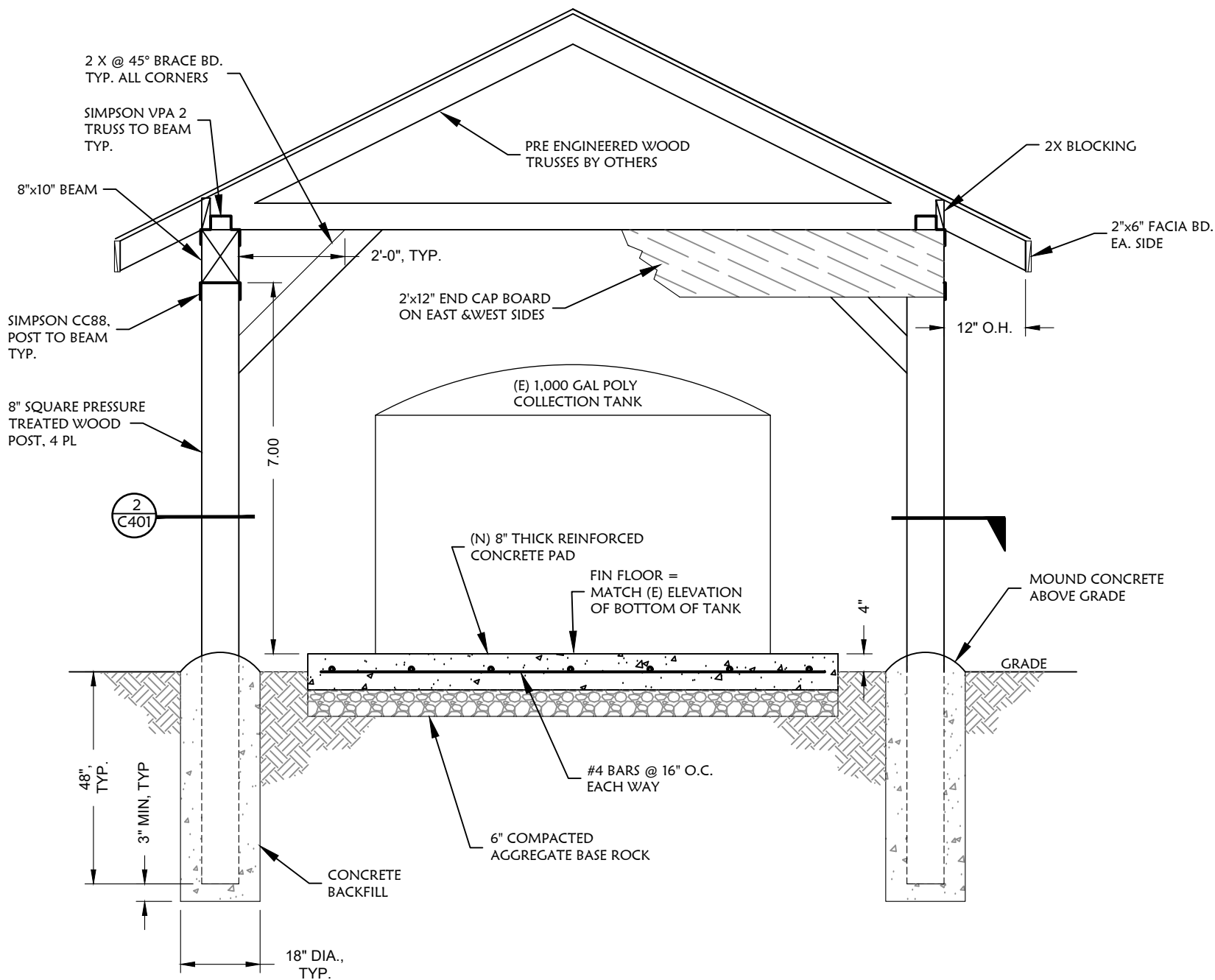
- 1) ALL CONCRETE SHALL HAVE A MIN. COMPRESSIVE STRENGTH OF 4000 psi @ 28 DAYS.
- 2) ALL REBAR SHALL BE #4 UNLESS NOTED OTHERWISE.



**2**  
**C401** COLLECTOR TANK PAD  
SCALE: 1" = 4'

NOTES:

- 1) ALL CONSTRUCTION MUST BE IN COMPLIANCE WITH THE LATEST EDITION OF THE UNIFORM BUILDING CODE (UBC) AND ALL LOCAL BUILDING STANDARDS.
- 2) THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THESE PLANS BEFORE BEGINNING CONSTRUCTION. IN THE EVENT OF ANY CHANGES, THE ENGINEER MUST BE NOTIFIED.
- 3) ALL FRAMING LUMBER SHALL BE DOUGLAS FIR #2 OR HIGHER, U.N.O.



**1**  
**C401** CROSS SECTION  
SCALE: 3/8" = 1'-0"

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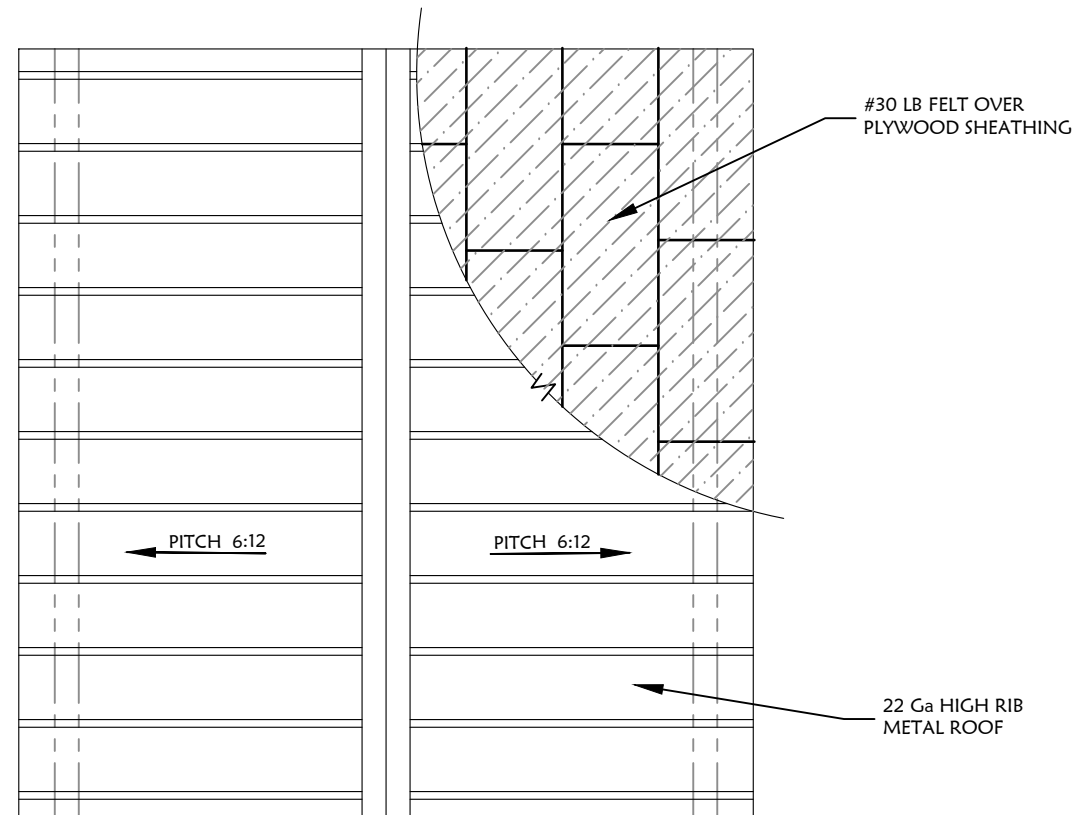
**RAM SPRINGS**  
**WATER SOURCE IMPROVEMENTS**  
**COLLECTOR TANK PAD/ SECTION**

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SHEET  
**C401**  
9 OF 20

**ROOF NOTES:**

1. PRE-MANUFACTURED WOOD TRUSSES @ 24" O.C. BY OTHERS. TRUSS MANUFACTURER TO SUPPLY TRUSS LAYOUT, AND LOAD CALCS AS PER SPECIFICATIONS.
2. 5/8" CDX PLYWOOD SHEATHING STAGGERED, GLUED AND NAILED 8d COM. @ 6" O.C. EDGES, 12" O.C. FIELD
3. 30# ROOFING PAPER OVERLAPPED 2" W/ CONTINUOUS SEALER; NO VERTICAL SEAMS
4. 22 GAUGE METAL ROOF HIGH RIB, 24" PANELS, FOREST GREEN.
5. SNOWLOAD: 150 LBS.



**1**  
C401 COLLECTOR TANK ROOF PLAN  
SCALE: 1" = 5'

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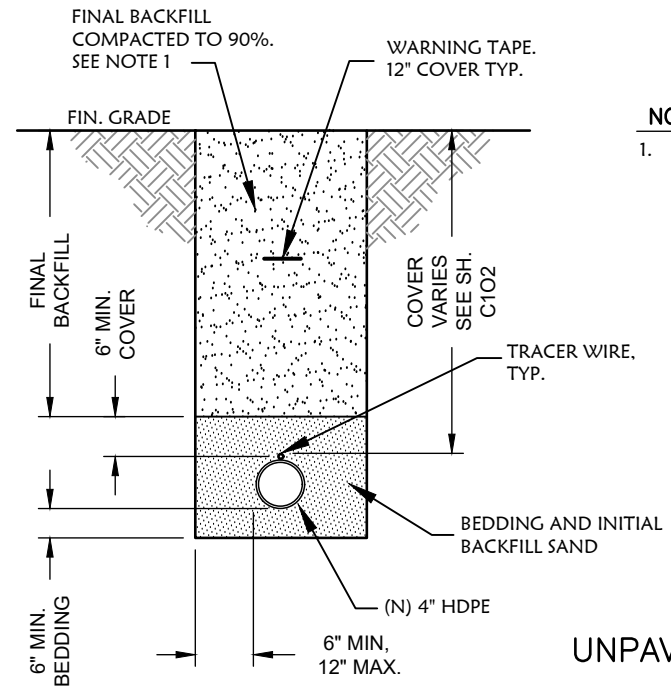
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**RAM SPRINGS WATER SOURCE IMPROVEMENTS COLLECTOR TANK ROOF PLAN**

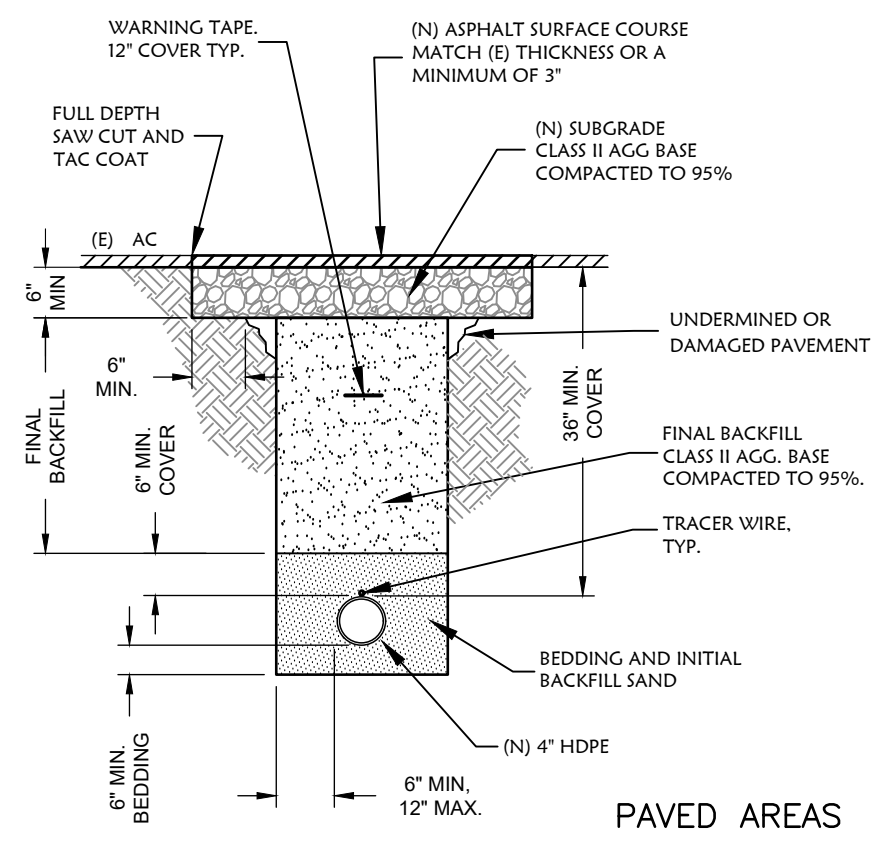
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SHEET  
**C402**  
10 OF 20

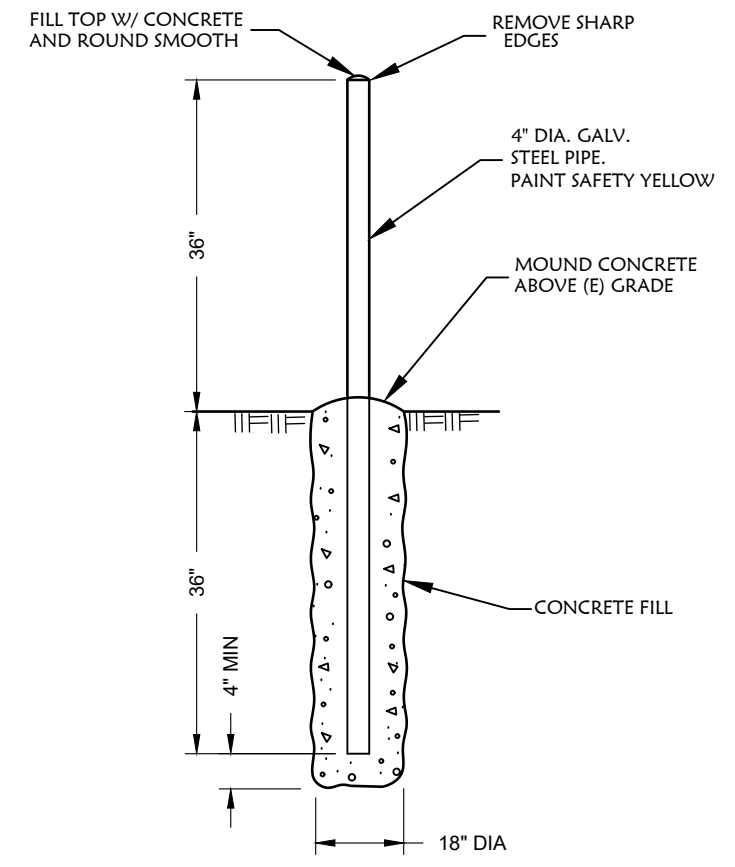


**NOTES:**  
 1. FINAL BACKFILL MAY BE SUITABLE NATIVE SOIL IF APPROVED BY PROJECT ENGINEER. IF NOT DEEMED SUITABLE USE CLASS 2. AGG. BASE.

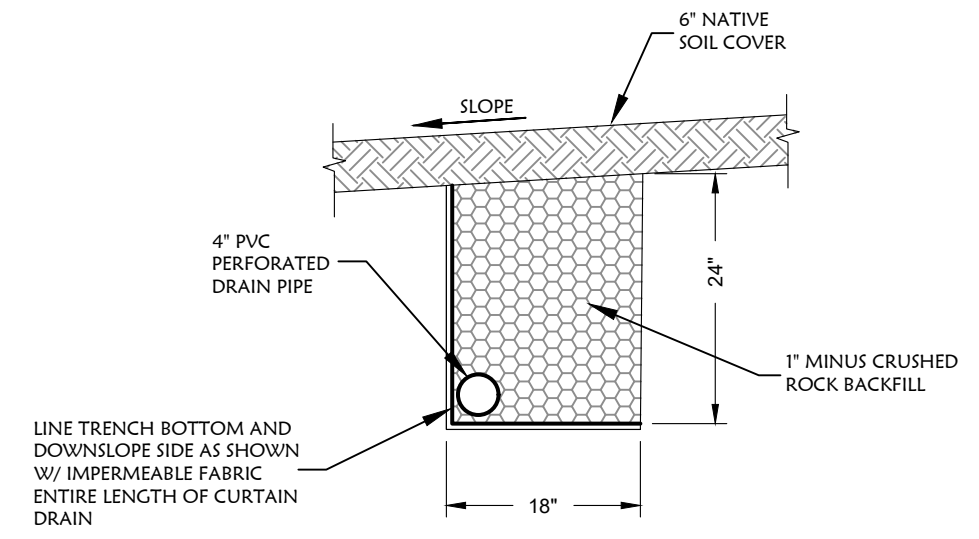
**1** TYP. TRENCH DETAIL  
 C501 NOT TO SCALE



**2** TYP. TRENCH DETAIL  
 C501 NOT TO SCALE



**3** BOLLARD DETAIL  
 C501 NOT TO SCALE



**4** TYP. @ CURTAIN DRAIN  
 C501 NOT TO SCALE

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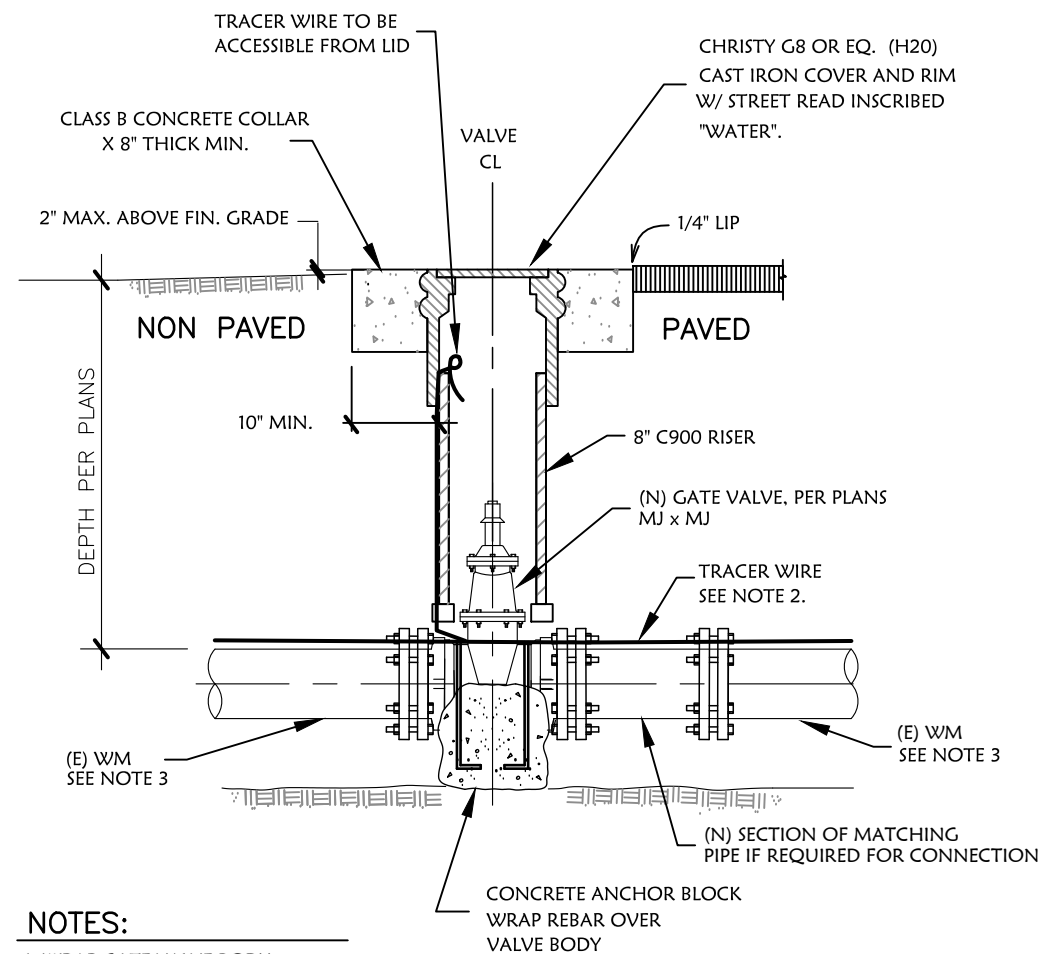
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 ALTURAS, CA  
 (550) 233-2453  
 CIVIL ENGINEERING &  
 LAND SURVEYING

PLANS PREPARED FOR:  
**ALLEGHANY COUNTY WATER DISTRICT**

**RAM SPRINGS WATER SOURCE IMPROVEMENTS**  
 CIVIL DETAILS

DRAWN  
 ALTEC TECH1  
 CHECKED  
 DATE  
 MAR. 20, 2020  
 SCALE  
 AS NOTED  
 JGB NO.  
 ALLEGHANY SPRINGS

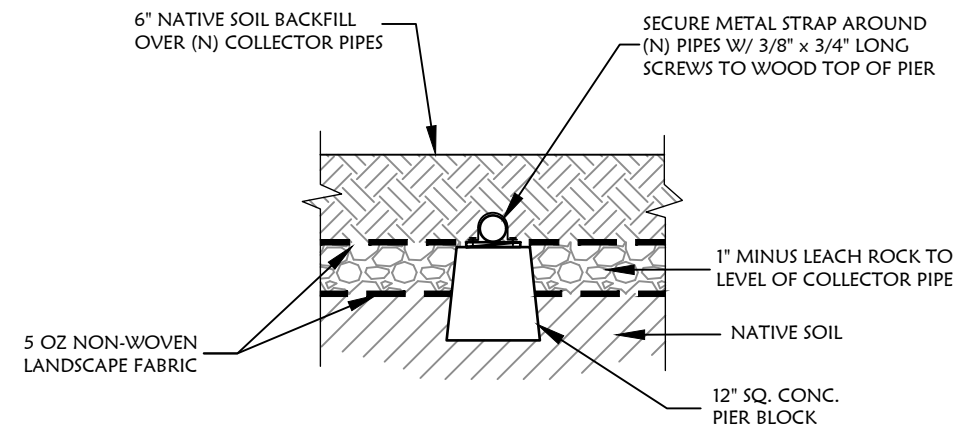
SHEET  
**C502**  
 12 OF 20



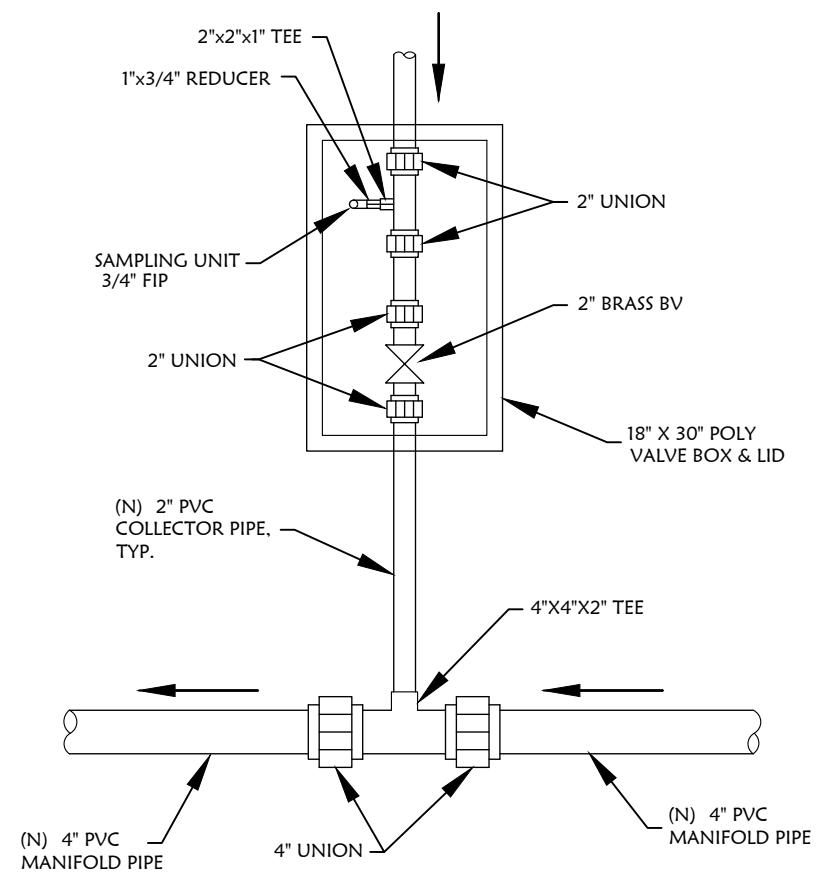
**NOTES:**

1. WRAP GATE VALVE BODY AND CHECK VALVE W/ 6 MIL POLY WRAP.
2. SECURE TRACER WIRE TO TOP OF PIPE PER PLANS.
3. CONTRACTOR TO VERIFY PIPE TYPE AND DEPTH BEFORE INSTALLATION OF (N) GV

**1** TYP. GATE VALVE DETAIL  
 C502 NOT TO SCALE



**3** TYP. SECTION  
 C502 NOT TO SCALE



**2** TYP. VALVE BOX DETAIL  
 C502 NOT TO SCALE

**PRELIMINARY**  
 NOT FOR CONSTRUCTION

REVISION	NO.

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**WATER DISTRICT**

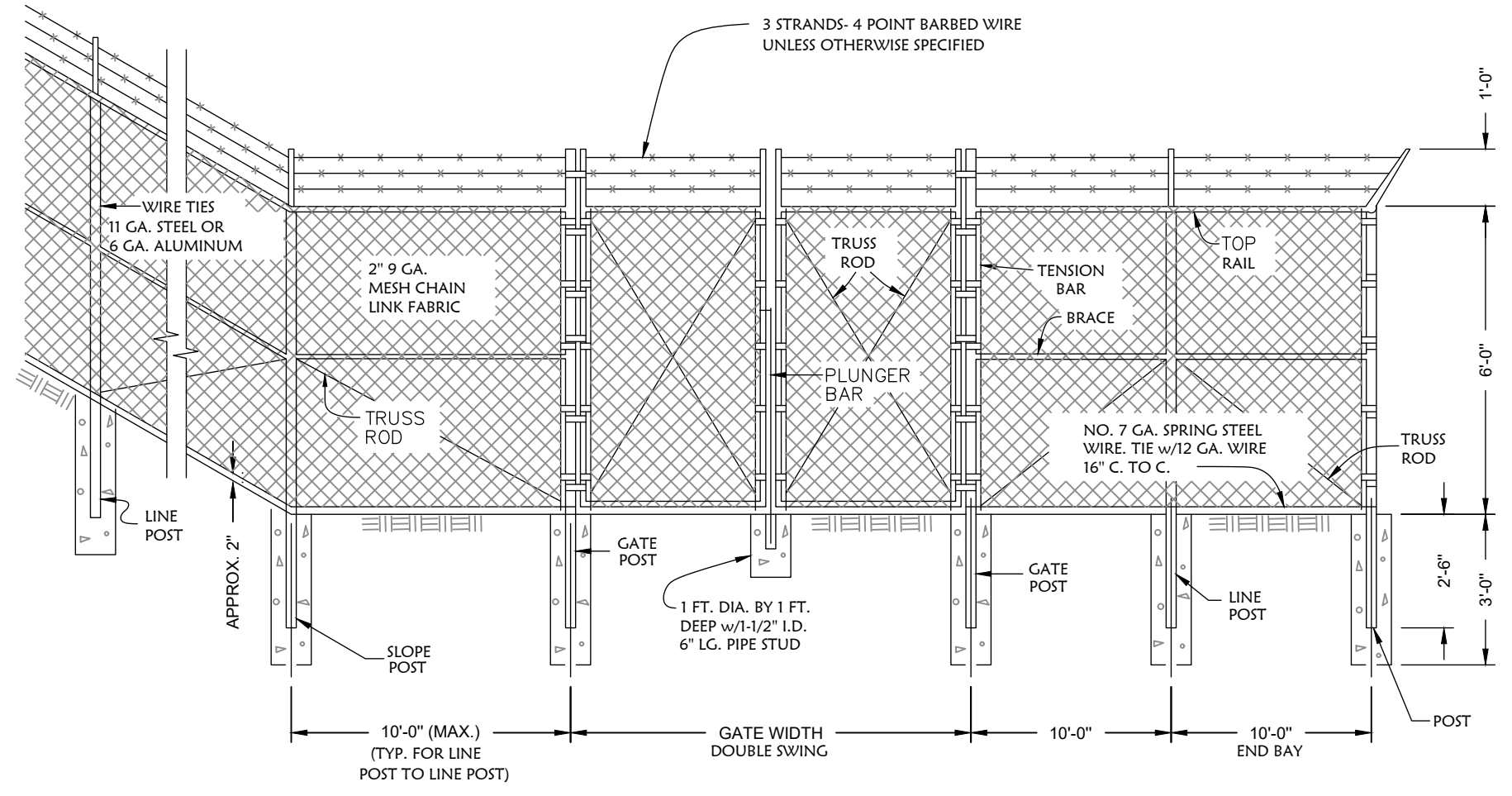
**RAM SPRINGS**  
**WATER SOURCE IMPROVEMENTS**  
**CIVIL DETAILS**

DRAWN  
 ALTEC TECH1  
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 DATE  
 MAR. 20, 2020  
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SHEET  
**C503**  
 13 OF 20

MEMBER	SIZE
LINE POST	2-1/2" OUTSIDE DIAMETER
END POST	3" OUTSIDE DIAMETER
CORNER POST	" "
SLOPE POST	" "
TENSION BAR	3/16" x 3/4" FLAT
GATE POST	4" OUTSIDE DIAMETER
TOP RAIL	1-5/8" OUTSIDE DIAMETER
BRACE	" "

- NOTES:
- 1) ALL BARBED WIRE CONNECTION TO TUBULAR POSTS TO BE MADE w/GALV. BANDS BOLTED AROUND POSTS.
  - 2) ALL CONCRETE SHALL BE 4000 P.S.I., CLASS B.
  - 3) ALL PIPE POSTS SHALL BE CAPPED.



**1** **CHAIN LINK FENCE DETAIL**  
 C503 NOT TO SCALE

**PRELIMINARY**  
 NOT FOR CONSTRUCTION

REVISION	NO.

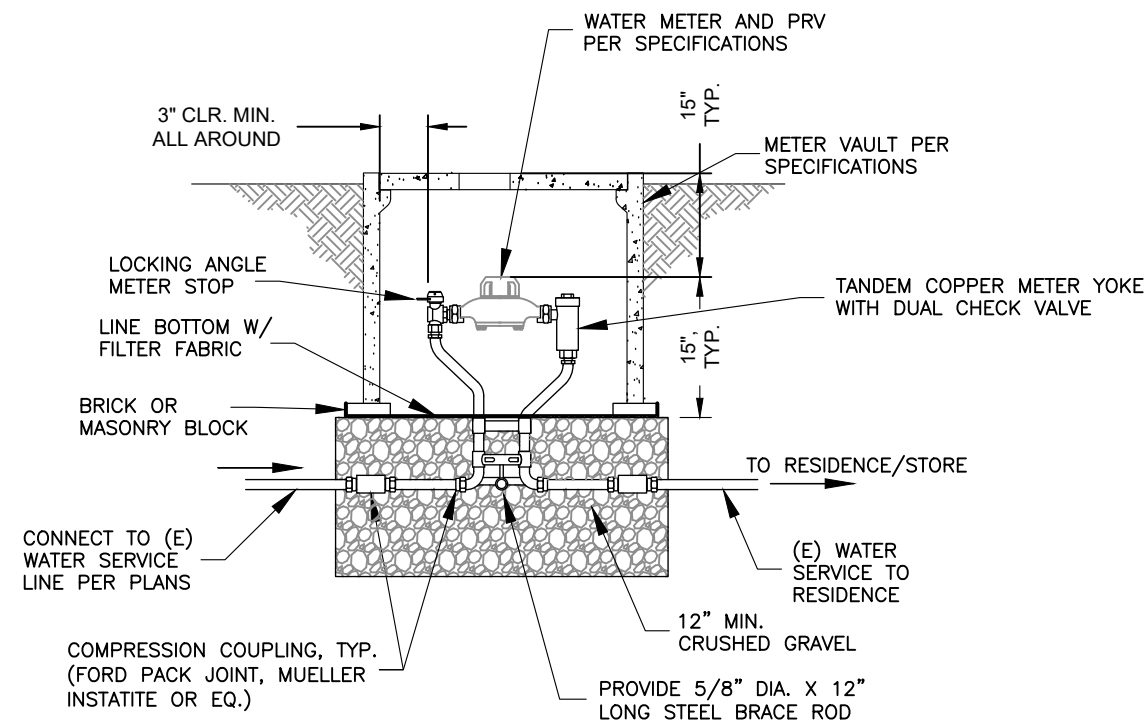
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**RAM SPRINGS WATER SOURCE IMPROVEMENTS**  
 CIVIL DETAILS

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**C504**  
 14 OF 20

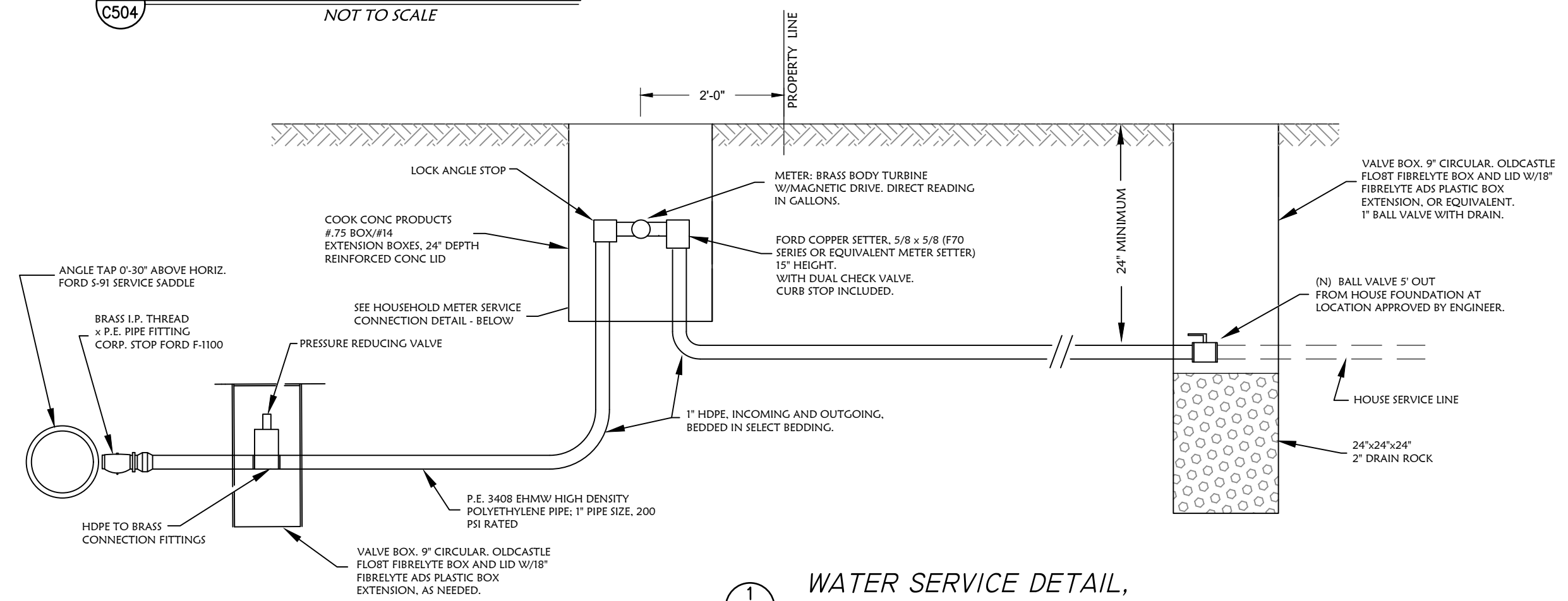


**2**  
**C504** **WATER METER DETAIL**  
 NOT TO SCALE

**NOTES:**

- ALL THREADED FITTINGS (CORP STOP, PE CONNECTORS) FOR PE PIPE ARE TO BE IPS THREADS, SAME SIZE AS WSL AND METER, AWWA OR OTHER SPECIAL THREADS NOT ALLOWED.
- OUTLET TO COPPER SETTER IS TO HAVE A TEST/DRAIN VALVE TO ALLOW DRAINING OF HOUSE LINES.
- SADDLES AND CORP STOPS ARE REQUIRED ON ALL MAINS FOR ALL SERVICE TYPES.
- PROVIDE "T" OR TRAFFIC TYPE LID ON METER BOXES IN ALL AREAS SUBJECT TO TRAFFIC ACCESS (METER BOXES WILL NOT SUPPORT VEHICLE LOAD). LOCATIONS TO BE STAKED BY PROJECT ENGINEER.
- ALL METER BOXES MUST BE SET TRUE, PERPENDICULAR TO STREET AND FLUSH WITH EXISTING SURFACE.
- DOUBLE CHECK VALVE ON HOMEOWNERS SIDE OF METER.

NOTE:  
 PROJECT TECHNICAL SPECIFICATIONS, SECTION 02518, SHALL SUPERCEDE THIS TYPICAL DRAWING WITH RESPECT TO CONFLICT BETWEEN PLANS AND SPECIFICATIONS.



**1**  
**C504** **WATER SERVICE DETAIL,**

**PRELIMINARY**  
 NOT FOR CONSTRUCTION



REVISION	NO.

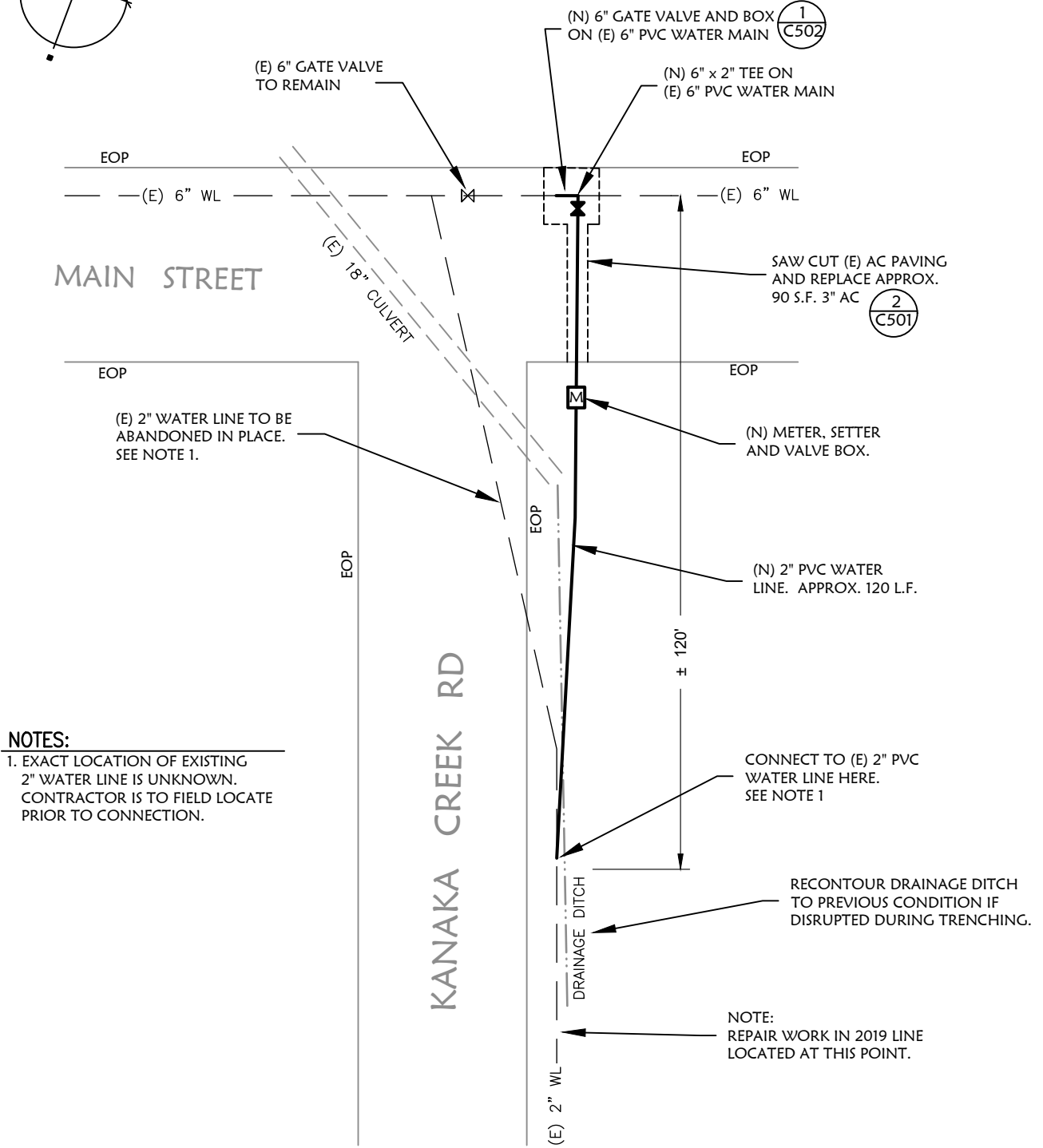
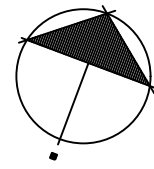
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**RAM SPRINGS WATER SOURCE IMPROVEMENTS**  
**CIVIL DETAILS**

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 MAR. 20, 2020  
 SCALE  
 AS NOTED  
 JOB NO.  
 ALLEGHANY SPRINGS

SHEET  
**C505**  
 15 OF 20



**NOTES:**  
 1. EXACT LOCATION OF EXISTING 2" WATER LINE IS UNKNOWN. CONTRACTOR IS TO FIELD LOCATE PRIOR TO CONNECTION.

**1 C505** **GATE VALVE REPAIR DETAIL**  
 NOT TO SCALE

**PRELIMINARY**  
 NOT FOR CONSTRUCTION

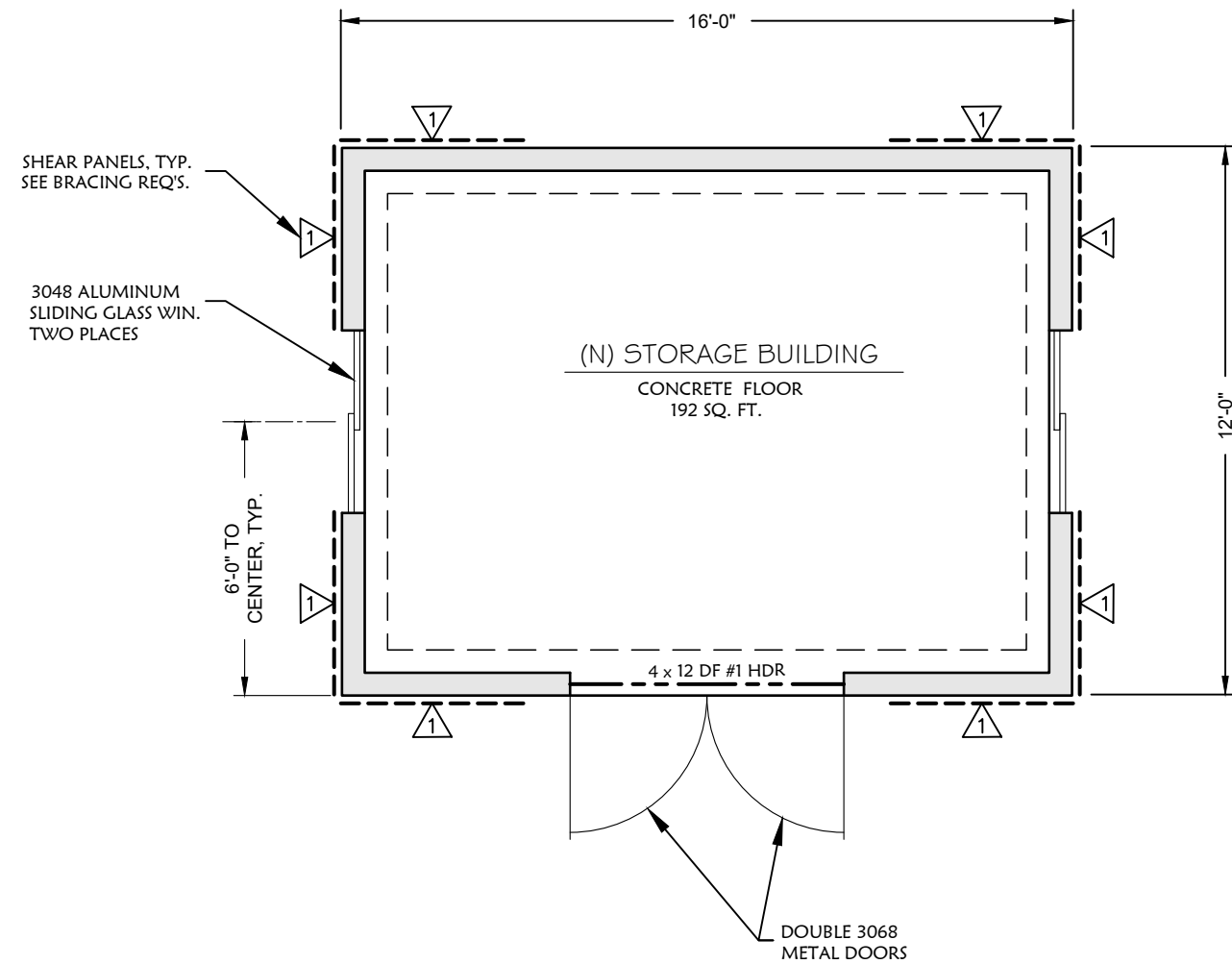
GENERAL CONSTRUCTION NOTES:

- 1) ALL CONSTRUCTION MUST BE IN COMPLIANCE WITH THE LATEST EDITION OF THE UNIFORM BUILDING CODE (UBC) AND ALL LOCAL BUILDING STANDARDS.
- 2) THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THESE PLANS BEFORE BEGINNING CONSTRUCTION. IN THE EVENT OF ANY CHANGES, THE ENGINEER MUST BE NOTIFIED.
- 3) ALL FRAMING LUMBER SHALL BE DOUGLAS FIR #2 OR HIGHER, U.N.O.
- 4) BOLT HEADS AND NUTS AGAINST WOOD SHALL BEAR AGAINST STANDARD STEEL WASHERS.
- 5) LAG SCREWS SHALL BE TURNED, NOT DRIVEN, INTO PRE-DRILLED HOLES OF 2/3 SHANK DIA.
- 6) ALL STUDS TO HAVE DOUBLE TOP PLATES THE SAME DIRECTION AS THE STUDS. PLATES TO BE LAPPED A MIN. OF 48" BETWEEN SPLICES AND SHALL BE CONNECTED TOGETHER WITH A MIN. OF (12) 16d NAILS @ EACH SIDE OF JOINT.
- 7) ALL FRAMING ANCHORS, CLIPS, STRAPS, HANGERS, HOLDOWNS, etc.. SHALL BE "SIMPSON" OR EQUIVALENT.
- 8) ANCHOR BOLTS TO BE 1/2" DIA X 10" LG. AND MUST BE EMBEDDED 7" MIN. INTO CONCRETE.
- 9) ANCHOR BOLTS SHALL NOT BE CLOSER THAN 7 DIAMETERS TO END OF PLATES AND CORNERS, AND @ 5'-0" O/C MAX. USE 2" SQ. X 3/16" PLATE WASHER TYP.
- 10) PROVIDE 1/150 VENTILATION FOR ATTIC SPACE.
- 11) VERTICAL STUDS SHALL BE 2"x6", SPACED AT 16" O.C. MINIMUM 3 STUDS AT CORNERS
- 12) FINISH INTERIOR WALLS AND CEILING WITH SINGLE LAYER 5/8" TYPE 'X' GYP.
- 13) INSULATION IN WALLS = R19 INSULATION IN CEILING = R30
- 14) 15# BUILDING PAPER SHALL BE APPLIED OVER FRAMING BEFORE INSTALLING SIDING
- 15) SIDING: 7/16" TEXTURED OSB SIDING (GROOVES 8" O.C.)

NAILING SCHEDULE:

1. STUD TO SOLE PLATE: 4-8d, TOENAIL OR 2-16d, END NAIL
2. TOP PLATE TO STUD: 2-16d, END NAIL
3. DOUBLE STUDS, FACE NAIL: 16d @ 24" O.C.
4. DOUBLE TOP PLATES, TYPICAL FACE NAIL: 16d @ 24" O/C
5. BLOCKING (BETWEEN RAFTERS) TO TOP PLATE: 3-8d, TOENAIL
6. TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL: 2-16d
7. CONTINUOUS HEADER, TWO PIECES: 16d @ 16" O/C ALONG EACH EDGE
8. COLLAR BEAM TO TOP PLATE: 3-8d, TOENAIL
9. COLLAR BEAM TO PARALLEL RAFTERS: 3, 3/8" x 3-1/2" LAG BOLTS
10. RAFTER TO TOP PLATE: 3-8d, TOENAIL OR USE 1-PIECE HURRICANE TIE
11. SIDING AND ROOF SHEATHING: 6d NON-CORROSIVE NAILS SPACED 6" O.C. AT EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS (COMMON OR DEFORMED SHANK)

**1** BRACING REQ.'S  
THERMO-PLY SHEATHING, NAIL W/ FLAT HEAD  
NO.11 GAUGE GALV. ROOFING NAILS,  
1 1/4" LONG @ 3" O.C. EDGES  
AND 3" O.C. INTERMEDIATE.



**1** **A101** **FLOOR PLAN**  
SCALE: 1/4" = 1'

REVISION	NO.

PLANS PREPARED BY:  
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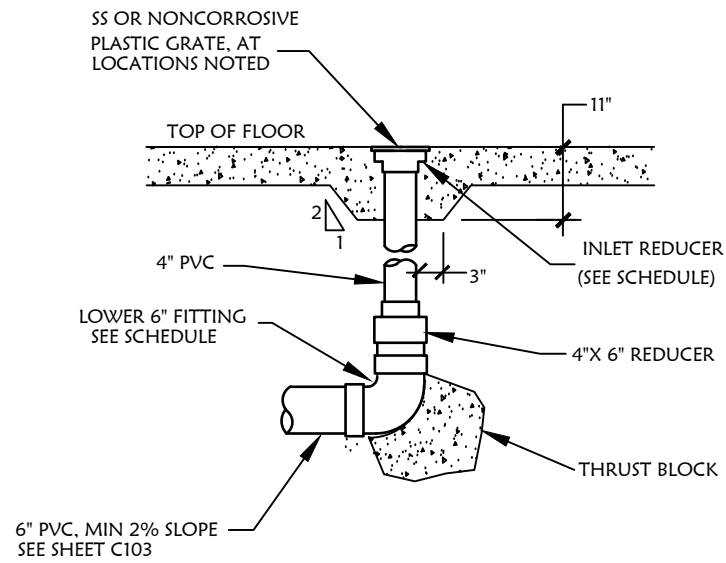
PLANS PREPARED FOR:  
**ALLEGHANY COUNTY**  
**WATER DISTRICT**

**RAM SPRINGS**  
**WATER SOURCE IMPROVEMENTS**  
**FLOOR PLAN**

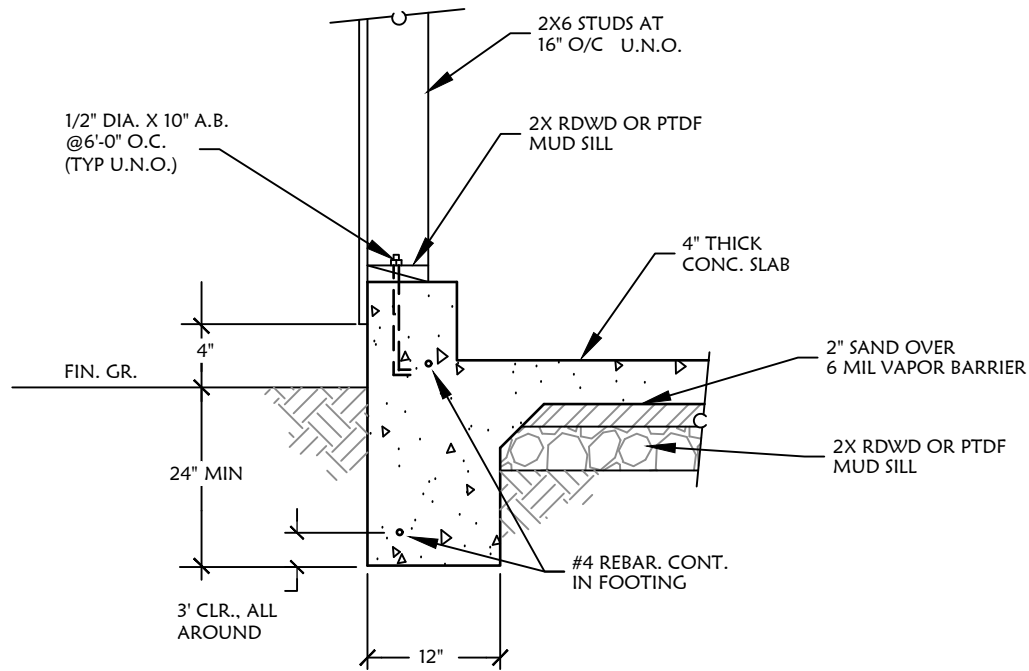
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DATE MAR. 20, 2020
SCALE AS NOTED
JOB NO. ALLEGHANY SPRINGS

SHEET  
**A101**  
16 OF 20

**PRELIMINARY**  
**NOT FOR CONSTRUCTION**



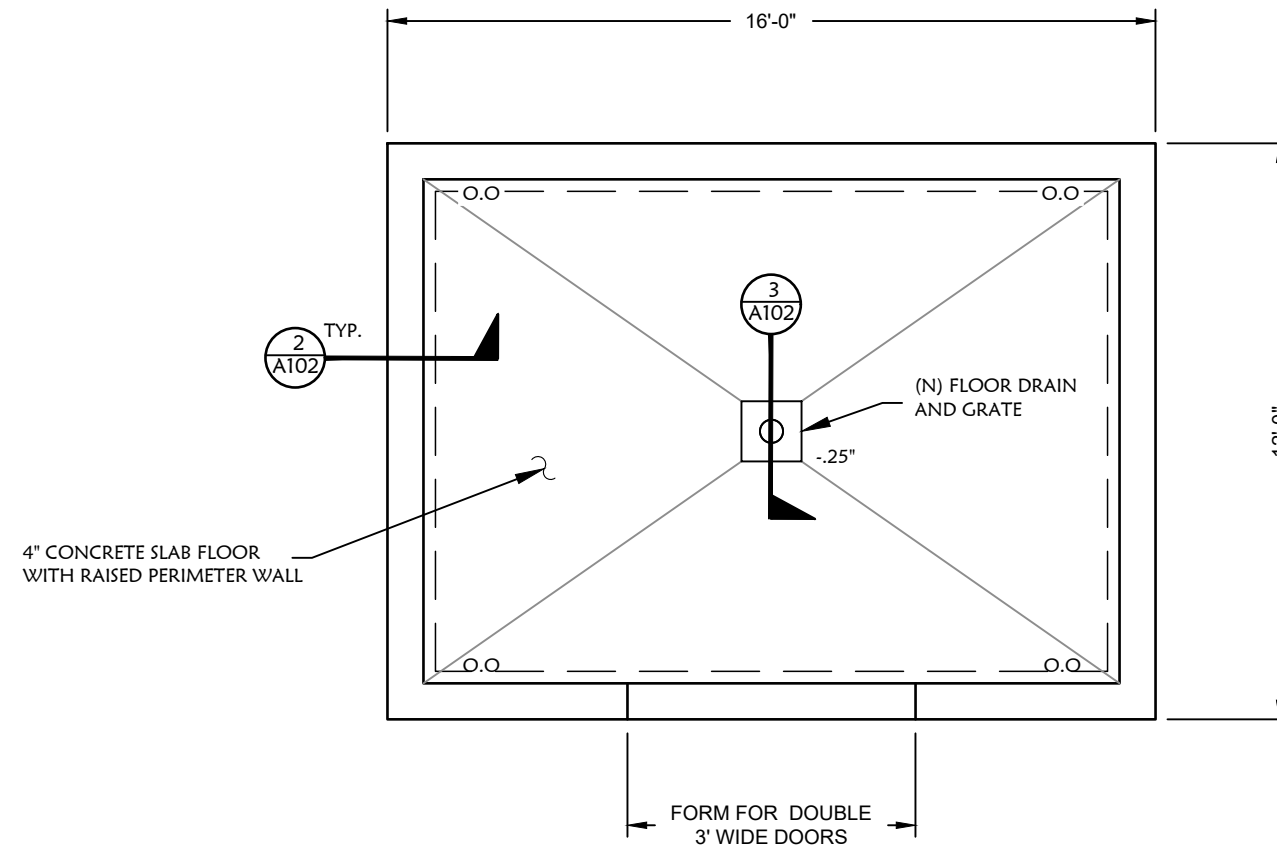
**3**  
A102 **DRAIN DETAIL**  
NOT TO SCALE



**2**  
A102 **FOOTING DETAIL**  
NOT TO SCALE

**FOUNDATION NOTES**

- 1) ALL CONCRETE SHALL HAVE A MIN. COMPRESSIVE STRENGTH OF 4000 psi @ 28 DAYS.
- 2) ALL REBAR SHALL BE #4 UNLESS NOTED OTHERWISE.
- 3) ALL HORIZ. LAPS SHALL BE STAGGERED @ 5'-0" MIN.
- 4) FOUNDATION AND FOOTINGS SHALL BE LEVEL AND SHALL BEAR ON FIRM, UNDISTURBED SOIL OR ON FILL COMPACTED TO 90% RELATIVE DENSITY.
- 5) ANCHOR BOLTS TO BE 1/2" DIA X 10" LONG AND MUST BE EMBEDDED 7" MIN INTO CONC. @ 5'-0" O/C. USE 2" SQ X 3/16" PLATE WASHER TYPICAL.
- 6) ANCHOR BOLTS SHALL NOT BE CLOSER THAN 7 DIAMETERS TO END OF PLATES AND CORNERS.
- 7) ALL EMBEDDED ANCHOR BOLTS SHALL BE SECURE IN PLACE BEFORE INSPECTION.
- 8) CURE AND SEAL ALL AREAS. BROOM FINISH



**1**  
A102 **FOUNDATION PLAN**  
SCALE: 1/4" = 1'

PRELIMINARY  
NOT FOR CONSTRUCTION

REVISION	NO.

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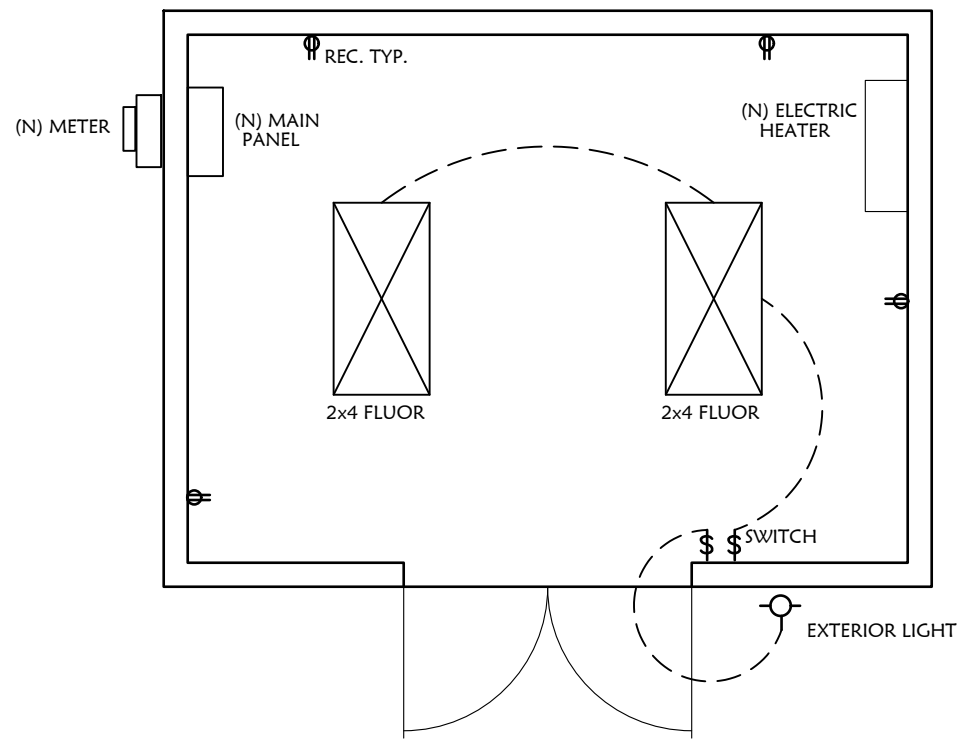
**RAM SPRINGS**  
**WATER SOURCE IMPROVEMENTS**  
**BUILDING FOUNDATION PLAN**

DRAWN ALTEC TECH1
CHECKED
DATE MAR. 20, 2020
SCALE AS NOTED
JOB NO. ALLEGHANY SPRINGS

SHEET  
**A102**  
17 OF 20



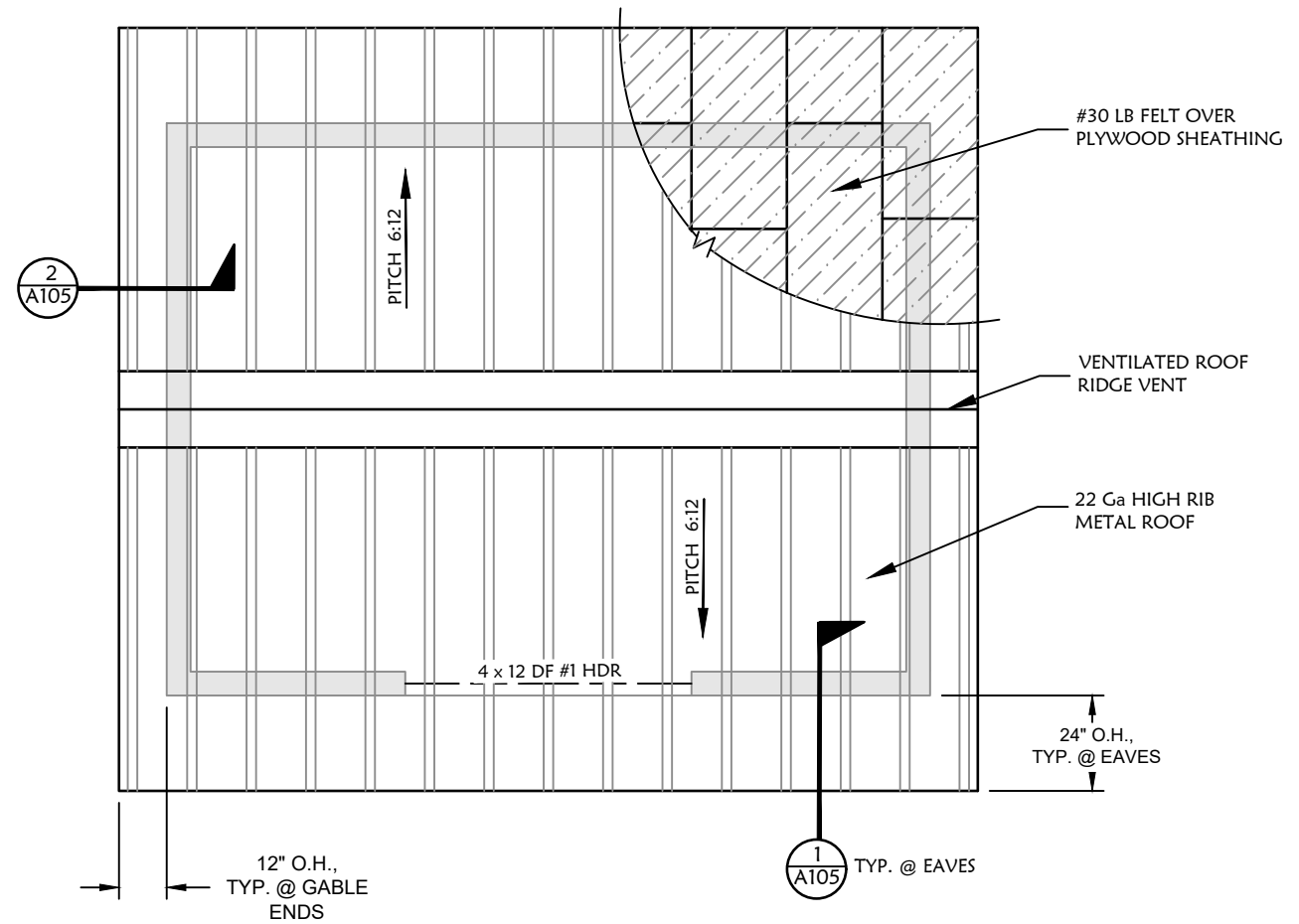
**ELECTRIC NOTES:**



**2**  
A103 **ELECTRIC PLAN**  
SCALE: 1/4" = 1'

**ROOF NOTES:**

1. PRE-MANUFACTURED WOOD TRUSSES @ 24" O.C. BY OTHERS. TRUSS MANUFACTURER TO SUPPLY TRUSS LAYOUT, AND LOAD CALCS AS PER SPECIFICATIONS.
2. 30# ROOFING PAPER OVERLAPPED 2" W/ CONTINUOUS SEALER; NO VERTICAL SEAMS
3. 5/8" CDX PLYWOOD SHEATHING STAGGERED, GLUED AND NAILED 8d COM. @ 6" O.C. EDGES, 12" O.C. FIELD
4. 22 GAUGE METAL ROOF HIGH RIB, 24" PANELS, FOREST GREEN.
5. SNOWLOAD: 150 LBS.
6. PROVIDE ADEQUATE ATTIC VENTILATION PER SEC 1505.3 UBC



**1**  
A103 **ROOF PLAN**  
SCALE: 1/4" = 1'

**PRELIMINARY**  
NOT FOR CONSTRUCTION

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**WATER DISTRICT**

**RAM SPRINGS**  
**WATER SOURCE IMPROVEMENTS**  
**ROOF PLAN, ELECTRIC PLAN**

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DATE MAR. 20, 2020
SCALE AS NOTED
JOB NO. ALLEGHANY SPRINGS

SHEET  
**A103**  
18 OF 20

REVISION	NO.

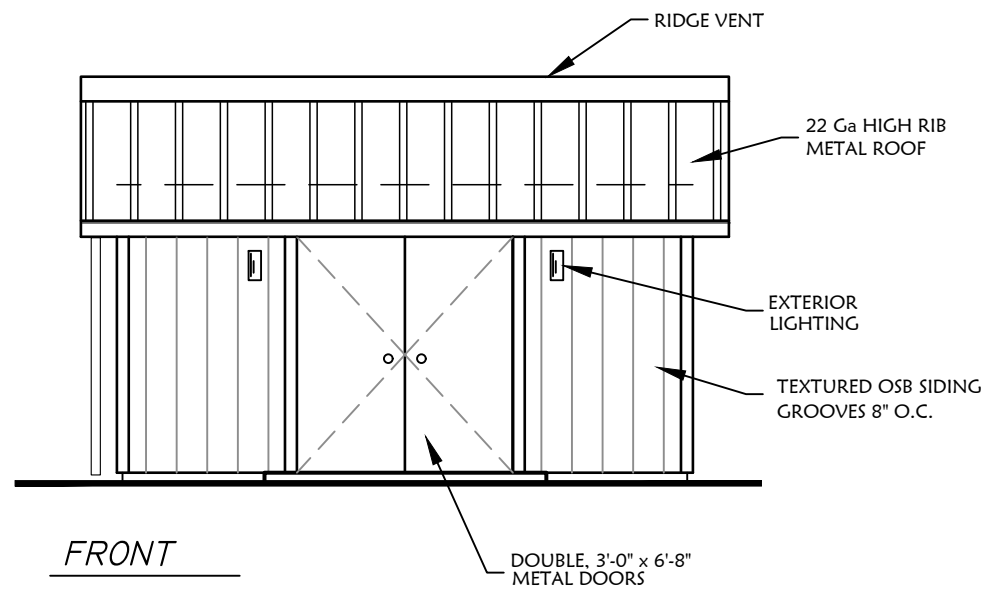
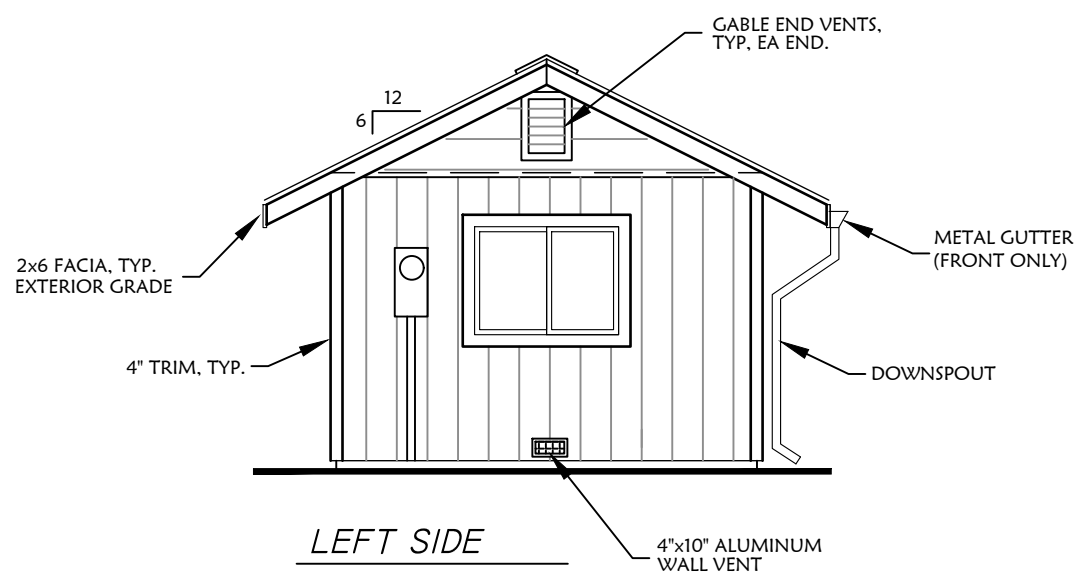
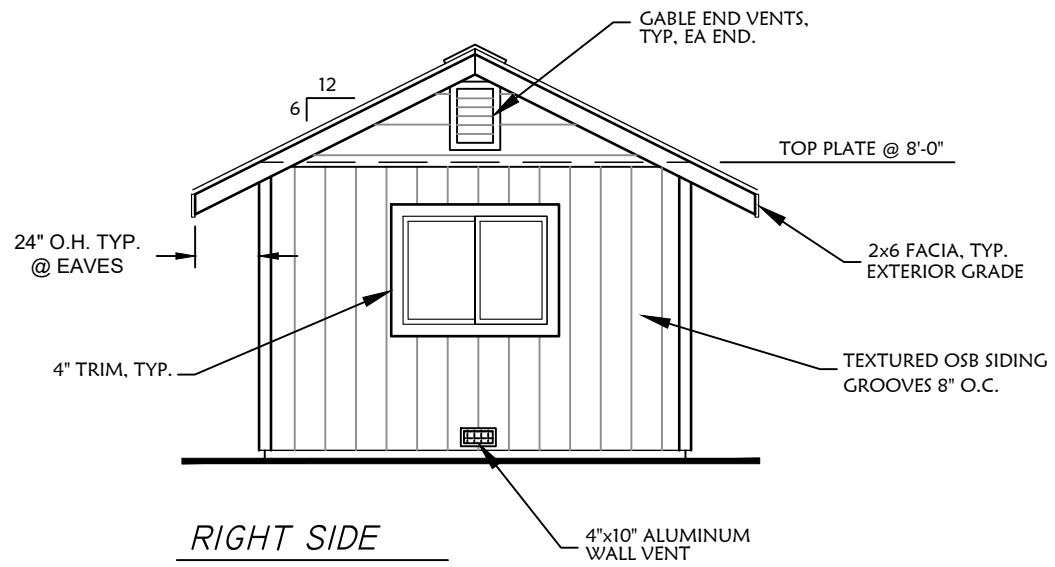
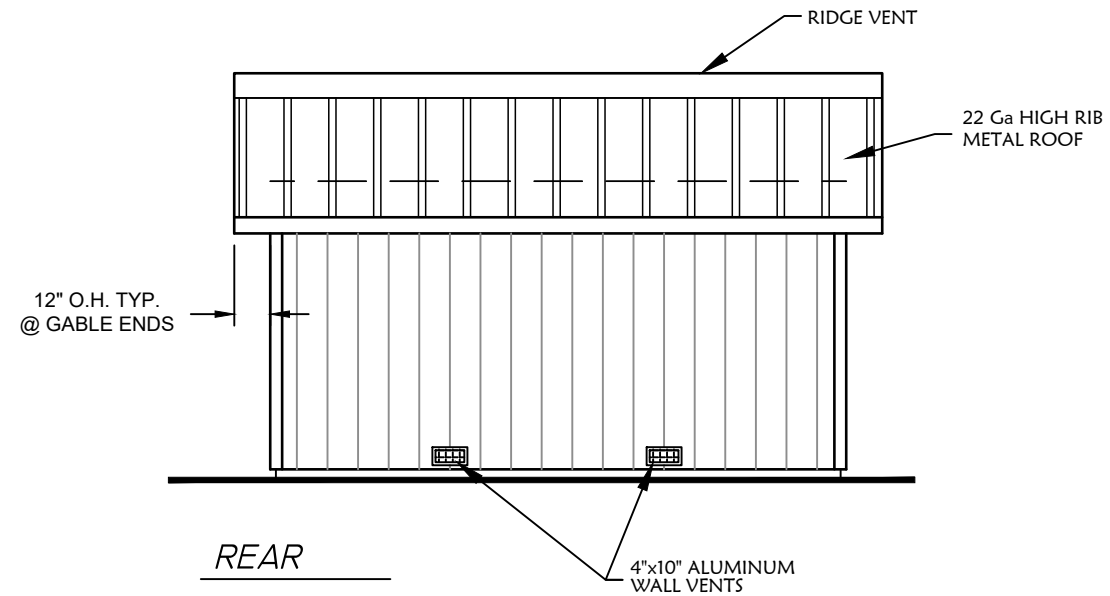
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**WATER DISTRICT**

**RAM SPRINGS**  
**WATER SOURCE IMPROVEMENTS**  
**BUILDING ELEVATIONS**

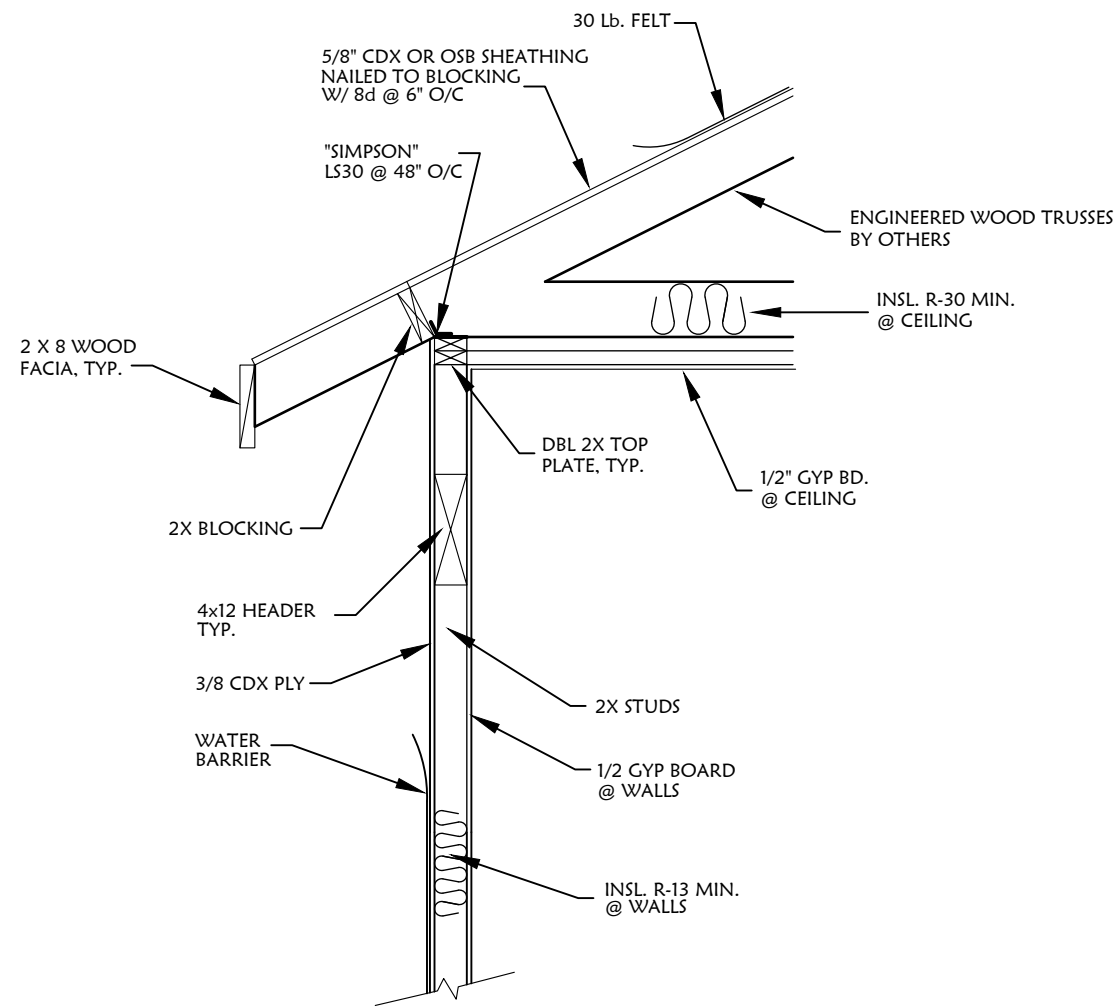
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 DATE  
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 SCALE  
 AS NOTED  
 JOB NO.  
 ALLEGHANY SPRINGS

SHEET  
**A104**  
 19 OF 20



**1**  
**A104** **BUILDING ELEVATIONS**  
 SCALE: 3/16" = 1'

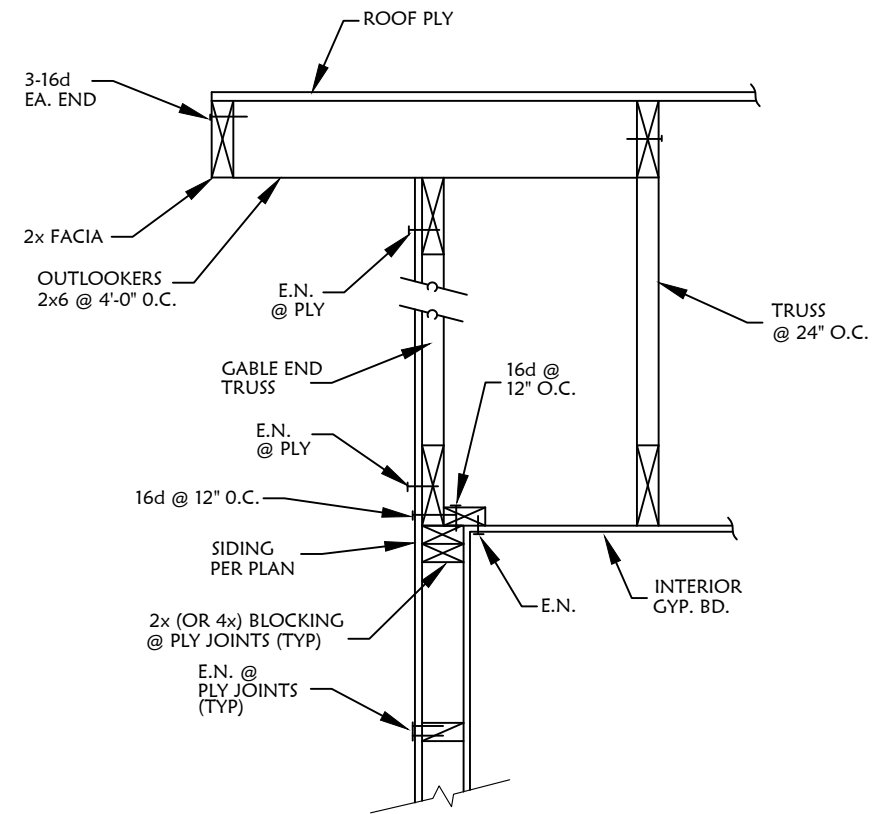
**PRELIMINARY**  
**NOT FOR CONSTRUCTION**



1  
A105

**BUILDING SECTION @ EAVE**

NOT TO SCALE



2  
A105

**GABLE END DETAIL**

NOT TO SCALE

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COUNTY  
WATER DISTRICT**

RAM SPRINGS  
WATER SOURCE IMPROVEMENTS

DETAILS

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SCALE AS NOTED
JOB NO. ALLEGHANY SPRINGS

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**A105**  
20 OF 20

**PRELIMINARY  
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