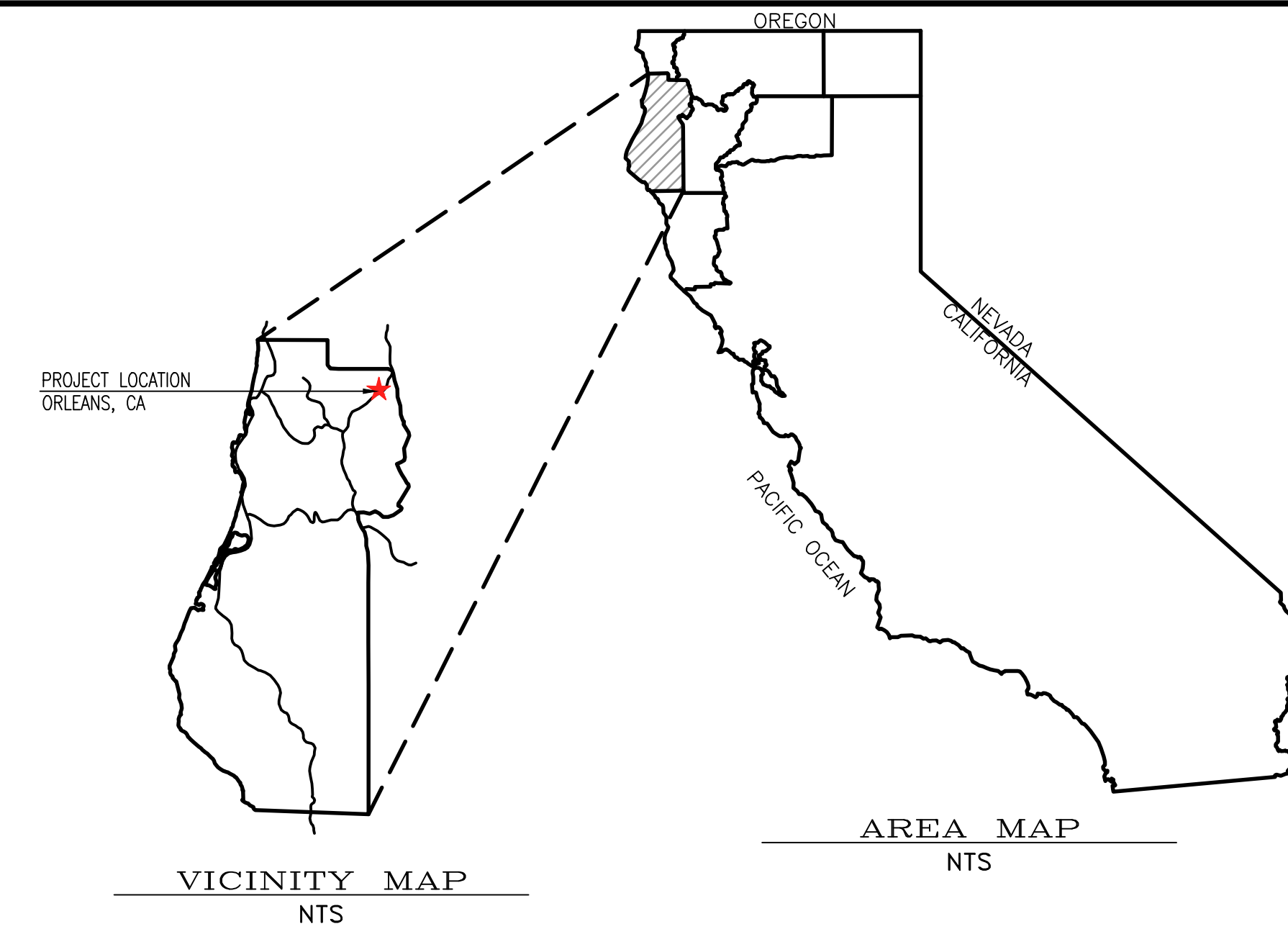


SITE CIVIL IMPROVEMENT PLANS

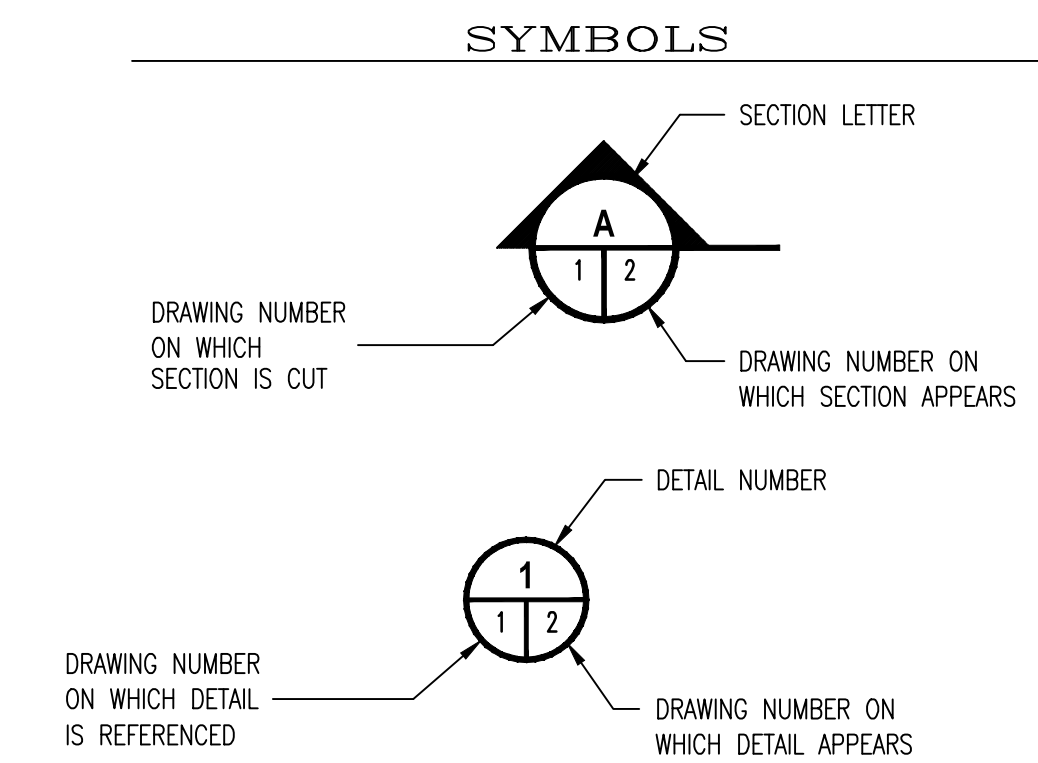
APN: 529-111-007

ORLEANS, HUMBOLDT COUNTY, CA

FOR
 KARUK TRIBE HOUSING AUTHORITY
 ORLEANS HOUSING DEVELOPMENT
 ORLEANS, CA 95556
 38030 STATE HIGHWAY 96
 APN: 529-111-007



LOCATION MAP
NTS



DRAWING #	TITLE	REVISION	DATE
T100	TITLE SHEET	0	12/18/2023
G100	GENERAL NOTES	0	12/18/2023
C100	DEVELOPMENT PLAN	0	12/18/2023
C102	EXISTING SITE	0	12/18/2023
C103	DEMOLITION PLAN	0	12/18/2023
C200	WATER PLAN	0	12/18/2023
C201	WATER DETAILS	0	12/18/2023
C300	SANITARY SEWER PLAN	0	12/18/2023
C301	SANITARY SEWER DISPOSAL FIELD PLAN & DETAILS	0	12/18/2023
C302	SANITARY SEWER DETAILS	0	12/18/2023
C400	SITE ELECTRIC & COMMUNICATIONS (CONCEPTUAL LAYOUT)	0	12/18/2023
C500	PROPOSED GRADING & DRAINAGE PLAN	0	12/18/2023
C501	GRADING DETAILS	0	12/18/2023
C502	GRADING SECTIONS	0	12/18/2023
C503	GRADING SECTIONS	0	12/18/2023
C504	DRAINAGE DETAILS	0	12/18/2023
C505	PROPOSED ROAD PLAN & PROFILE	0	12/18/2023
C600	EROSION CONTROL PLAN	0	12/18/2023
C601	EROSION CONTROL DETAILS	0	12/18/2023
C602	EROSION CONTROL DETAILS	0	12/18/2023
C700	CALTRANS SITE DISTANCE PLAN	0	12/18/2023

ENGINEERING NOTES

ALL REQUIREMENTS FROM THE SOILS REPORT HAVE BEEN INCORPORATED INTO THESE PLANS.

THE ENGINEER OF RECORD SHALL INSPECT ALL SITE GRADING.

SURVEY NOTES

FIELD SURVEY FOR TOPOGRAPHIC PURPOSES WAS PERFORMED BY TVCE ON JUNE 18, 2020.

A BOUNDARY SURVEY WAS NOT CONDUCTED BY TVCE.

CONTRACTOR ALERT!

CONTRACTOR MUST CONTACT USA DIG AT 800-227-2600 AT LEAST 72 HOURS BEFORE ANY EARTHWORK OR ACTIVITIES THAT MAY IMPACT EXISTING UNDERGROUND UTILITIES.

EXISTING UTILITY ALIGNMENTS BOTH HORIZONTALLY AND VERTICALLY MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION ACTIVITIES.

PROPOSED	EXISTING

ABBREVIATIONS	
AC	= ASPHALTIC CONCRETE
AB	= AGGREGATE BASE
A.D.	= ALGEBRAIC DIFFERENCE
BC, PC	= BEGIN CURVE
CO	= CLEAN OUT
CL	= CENTER LINE
CMP	= CORRUGATED METAL PIPE
CPCT.	= COMPACT
D	= DELTA
DET	= DETAIL
DRN	= DRAIN
<A>	= EXISTING
EC	= END CURVE
EG	= EXISTING GROUND
EP	= EDGE OF PAVEMENT
FF	= FINISH FLOOR
FG	= FINISH GRADE
FH	= FIRE HYDRANT
FL	= FLOW LINE
GA	= GUY ANCHOR
GV	= GATE VALVE
HC	= HANDICAPPED
HDPE	= HIGH DENSITY POLYETHYLENE PIPE
INV	= INVERT
(NT-X)	= INTERSECTION
K	= SIGHT DISTANCE
LAT	= LATERAL
LD.	= LOCAL DEPRESSION
LF.	= LINEAR FEET
LF.	= SEWER LEACH FIELD
LT.	= LEFT
MAS.	= MASONRY
MI	= MILES
MSE	= MECHANICALLY STABILIZED EARTH
(N)	= NEW
NTS	= NOT TO SCALE
O.C.	= ON CENTER
PG&E	= PACIFIC GAS & ELECTRIC
(P)	= PROPOSED
PP	= POWER POLE
PRC	= POINT OF REVERSE CURVE
PT	= POINT
PVI	= POINT OF VERTICAL INTERSECTION
PVT	= PRIVATE
RT	= RIGHT
RTN	= RETURN
SB	= SET BACK
SDMH	= STORM DRAIN MAN HOLE
SHT	= SHEET
SD	= STORM DRAIN
STA	= STATION
STD.	= STANDARD
TC	= TOP OF CURB
TBC	= TOP BACK OF CURB
TFC	= TOP FACE OF CURB
TOB	= TOP OF BANK
TEL	= TELEPHONE
TP	= TOP OF PAVEMENT
TVCE	= TRINITY VALLEY CONSULTING ENGINEERS
TW	= TOP OF WALL
(TYP)	= TYPICAL
UG	= UNDERGROUND
W	= WATER
WV	= WATER VALVE

TVCE

67 Walnut Way
 PO Box 1587
 Willow Creek, CA 95573
 530.629.3000
 WWW.TVCE.BIZ

REGISTERED PROFESSIONAL ENGINEER
 ROSA T. MONTY
 C60687
 EXP. 12-31-2023
 CIVIL
 STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	CHK BY	APP BY
SS				
JTM				
FAM				
FAM				

KARUK TRIBE HOUSING AUTHORITY
 SITE CIVIL IMPROVEMENT PLANS
TITLE SHEET
 APN: 529-111-007-000
 ORLEANS, HUMBOLDT COUNTY, CALIFORNIA

DATE OF ISSUE:	DECEMBER 2023
SCALE:	AS SHOWN
PROJECT NO:	0236.02
DRAWING NO:	T100



GENERAL NOTES:

1. DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN IN THESE DRAWINGS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE CONTRACT SPECIFICATIONS.
2. THE CONTRACTOR SHALL PROVIDE ALL UTILITIES AS NECESSARY TO SUCCESSFULLY COMPLETE ALL CONSTRUCTION ACTIVITIES.
3. ALL EXISTING AND PROPOSED DIMENSIONS DEPICTED HEREIN SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO STARTING WORK.
4. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER ON ALL CONSTRUCTION ACTIVITIES.
5. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITIES, WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE. ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE EXPEDITIOUSLY REPAIRED OR RECONSTRUCTED TO THE ENGINEER'S SATISFACTION AT THE CONTRACTOR'S SOLE EXPENSE WITHOUT ADDITIONAL COMPENSATION.
6. THE CONTRACTOR SHALL POSSESS THE CLASS, OR CLASSES, OF LICENSE AS SPECIFIED IN THE NOTICE TO CONTRACTORS.
7. THE CONTRACTOR IS TO EXPOSE THE ENDS OF EXISTING BURIED UTILITIES FOR SURVEYORS TO VERIFY LOCATION AND ELEVATION PRIOR TO PLACEMENT OF NEW UTILITIES. ALL COSTS OF SUCH EXCAVATION AND BACKFILL SHALL BE INCLUDED IN THE PRICE PAID FOR VARIOUS ITEMS OF WORK.
8. ALL APPLICABLE FEES TO BE PAID AND PERMITS REQUIRED SHALL BE OBTAINED BY THE CONTRACTOR BEFORE COMMENCEMENT OF CONSTRUCTION.
9. THE TYPES, LOCATIONS, SIZES, AND DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE IMPROVEMENT PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES; HOWEVER, TVCE CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT DEPICTED ON THESE DRAWINGS.
10. THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.
11. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS OF U.S.A. TWO WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING THE TOLL FREE NUMBER 1-800-227-2600.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND OTHER SURVEY MARKERS DURING CONSTRUCTION. ALL SUCH MONUMENTS OR MARKERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
13. UNDOCUMENTED PIPING EXPOSED DURING CONSTRUCTION SHALL BE LOCATED AND MARKED BY THE CONTRACTOR FOR INCLUSION IN AS-BUILT DRAWINGS.
14. ALL NEW BURIED PIPING SHALL HAVE A MINIMUM OF 3 FEET OF COVER UNLESS OTHERWISE SPECIFIED.

CULTURALLY SENSITIVE AREAS:

1. AREAS WITHIN THE PROJECT PERIMETER THAT ARE CULTURALLY SENSITIVE SHALL BE PROTECTED AGAINST DAMAGE FROM CONSTRUCTION ACTIVITIES. AT NO TIME SHALL SUCH CULTURALLY SENSITIVE AREAS BE ENTERED, PARKED UPON, STOCK PILED UPON, OR HAVE ANY OTHER ACTIVITY ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT IN ANY WAY INFRINGE UPON, DETERIORATE, DESTROY, OR RENDER TO A STATE OR CONDITION UNACCEPTABLE ANY CULTURALLY SENSITIVE AREA. THE CONTRACTOR AGREES TO PROTECT ALL SUCH AREAS DURING ANY AND ALL ACTIVITIES ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT.

QUANTITIES:

1. QUANTITIES AND LENGTHS OF ITEMS PROVIDED WITHIN THIS PLAN SET ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ACTUAL QUANTITIES OF COMPONENTS REQUIRED FOR THE SUCCESSFUL AND SATISFACTORY COMPLETION OF THE PROJECT.

TRAFFIC CONTROL NOTES:

1. WHENEVER THE WORK AREA IS ADJACENT TO A TRAFFIC LANE AND THERE IS A CUT, DITCH OR TRENCH MORE THAN TWO INCHES DEEP, THE CONTRACTOR SHALL MAINTAIN CONTINUOUS BARRICADES SPACED AT APPROXIMATELY 20-FOOT INTERVALS FOR THE FIRST 100 FEET FROM THE BEGINNING OF THE CUT, DITCH OR TRENCH, AND AT APPROXIMATELY 50-FOOT INTERVALS THEREAFTER. IF THE CUT, DITCH OR TRENCH IS MORE THAN TEN FEET FROM A TRAFFIC LANE, THE BARRICADED SPACING MAY BE GREATER BUT SHALL NOT EXCEED 200 FEET.
2. UNLESS SPECIFICALLY SET FORTH AS SPECIAL PROVISIONS, ALL MARKED LANES OF TRAFFIC SHALL BE UNOBSTRUCTED IN EACH DIRECTION DURING THE PEAK TRAFFIC HOURS OF 7:00 TO 8:30AM AND 3:30 TO 6:00 PM.
3. SAFE VEHICULAR AND PEDESTRIAN ACCESS SHALL BE PROVIDED AT ALL TIMES DURING CONSTRUCTION.
4. TRACK MOUNTED VEHICLES SHALL NOT BE OPERATED ON PAVED ROADS.

AGGREGATE BASE ROCK NOTES:

1. AGGREGATE BASE SHALL BE CALTRANS CLASS II.
2. AGGREGATE BASE SHALL BE INSTALLED PER SECTION 26 OF THE CALTRANS STANDARD SPECIFICATIONS.
3. AGGREGATE BASE SHALL BE COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION PER CAL 316.

ASPHALT CONCRETE NOTES:

1. ASPHALT CONCRETE SHALL BE 1/2" MAXIMUM RADIUS HOT MIX TYPE A.
2. ASPHALT CONCRETE SHALL BE INSTALLED IN STRICT ACCORDANCE WITH SECTION 39 OF THE CALTRANS STANDARD SPECIFICATIONS.
3. ASPHALT CONCRETE SHALL BE COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION AS VERIFIED PER CAL 216.
4. EXISTING AC SURFACES SHALL BE CUT TO A NEAT STRAIGHT LINE PARALLEL WITH THE CENTERLINE AND THE EXPOSED EDGE SHALL BE TACKED WITH EMULSION PRIOR TO PAVING. THE EXPOSED BASE MATERIAL SHALL BE GRADED, RE-COMPACTED, AND RESEALED PRIOR TO PAVING.

ELECTRIC GENERAL NOTES:

1. ALL ELECTRIC FACILITIES AND WORK TO BE IN STRICT COMPLIANCE WITH APPLICABLE LAWS AND MUST MEET PACIFIC GAS AND ELECTRIC (PG&E) REQUIREMENTS PER CURRENT GREEN BOOK.
2. REFER TO PG&E SITE PLAN FOR ADDITIONAL DETAILS NOT EXPRESSED ON THIS SHEET.
3. CONTRACTOR TO COORDINATE WITH PG&E FOR ALL REQUIRED TESTING/INSPECTION AND FOR PG&E INSTALLED FACILITIES.
4. OWNER HAS THE RESPONSIBILITY OF PAYING ALL FEES TO PG&E DIRECT FOR THEIR SERVICES/FACILITIES UNDER THE ORIGINAL APPLICATION FOR THIS PROJECT. ADDITIONAL COSTS RESULTING DIRECTLY FROM THE CONTRACTOR'S ACTIVITIES AND NOT EXPRESSLY COVERED UNDER THE ORIGINAL APPLICATION WILL BE THE SOLE EXPENSE OF THE CONTRACTOR.
5. POWER/ELECTRICAL FACILITIES DEPICTED ON THESE PLAN SETS ARE FOR GENERAL LOCATION PURPOSES, ACTUAL HARDWARE, ALIGNMENTS, PLACEMENT, AND DESIGN TO BE PROVIDED BY PACIFIC GAS & ELECTRIC (PG&E). CONTRACTOR TO COORDINATE WITH PG&E FOR DESIGN AND INSTALLATION OF REQUIRED COMMUNICATION FACILITIES.

COMMUNICATIONS GENERAL NOTES:

1. ALL COMMUNICATIONS FACILITIES AND WORK TO BE IN STRICT COMPLIANCE WITH APPLICABLE LAWS AND MUST MEET ALL FRONTIER REQUIREMENTS AS APPLICABLE UNDER CPUC.
2. CONTRACTOR TO COORDINATE WITH FRONTIER FOR ALL REQUIRED TESTING/INSPECTION AND FOR FRONTIER INSTALLED FACILITIES.
3. OWNER HAS THE RESPONSIBILITY OF PAYING ALL FEES TO FRONTIER DIRECT FOR THEIR SERVICES/FACILITIES UNDER THE ORIGINAL APPLICATION FOR THIS PROJECT. ADDITIONAL COSTS RESULTING DIRECTLY FROM THE CONTRACTOR'S ACTIVITIES AND NOT EXPRESSLY COVERED UNDER THE ORIGINAL APPLICATION WILL BE THE SOLE EXPENSE OF THE CONTRACTOR.
4. TELEPHONE/COMMUNICATION FACILITIES DEPICTED ON THESE PLAN SETS ARE FOR GENERAL LOCATION PURPOSES, ACTUAL HARDWARE, ALIGNMENTS, PLACEMENT, AND DESIGN TO BE PROVIDED BY FRONTIER. CONTRACTOR TO COORDINATE WITH FRONTIER FOR DESIGN AND INSTALLATION OF REQUIRED COMMUNICATION FACILITIES.

DUST CONTROL NOTES:

1. THE CONTRACTOR SHALL IMPLEMENT ONE OR BOTH OF THE FOLLOWING MEASURES FOR DUST CONTROL ON THIS SITE:
 - 1.1 SPRAYING OF WATER SO AS NOT TO GENERATE ADDITIONAL RUNOFF. NO DUST PALLIATIVE MATERIALS OTHER THAN WATER WILL BE USED ON THIS PROJECT. IF NON-POTABLE WATER IS TO BE USED, IT MUST BE CONVEYED IN TANKS OR PIPES CLEARLY LABELED AS "NON-POTABLE WATER - DO NOT DRINK".
 - 1.2 COVERS FOR EXPOSED AREAS.

EQUIPMENT & MATERIALS STORAGE NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL MATERIALS AND EQUIPMENT STORED ONSITE SHALL HAVE ADEQUATE COVERINGS AND CONTAINMENT TO PREVENT LEAKAGE AND SPILLS.
2. ALL MATERIALS AND EQUIPMENT SHALL BE STORED IN DESIGNATED AND APPROVED AREAS. THE AREA SHALL BE BERMED WITH EARTH DIKES THAT THE CONTRACTOR SHALL INSPECT AND MAINTAIN WEEKLY.
3. ALL FLAMMABLE, REACTIVE, AND/OR IGNITABLE LIQUIDS MUST COMPLY WITH LOCAL FIRE CODES.
4. DURING THE RAINY SEASON (OCTOBER THROUGH APRIL) THE CONTRACTOR SHALL ENSURE THAT MATERIALS ARE COVERED.
5. NO CHEMICALS, DRUMS, OR BAGGED MATERIALS SHALL BE STORED DIRECTLY ON THE GROUND; ITEMS SHALL BE PLACED ON PALLETS AND/OR IN SECONDARY CONTAINMENT.
6. IF DRUMS MUST BE KEPT UNCOVERED, THE CONTRACTOR SHALL STORE THEM AT A SLIGHT ANGLE TO REDUCE PONDING OF RAINWATER AND REDUCE CORROSION.
7. WHEN DANGEROUS MATERIALS AND/OR LIQUID CHEMICALS ARE UNLOADED ONSITE, THE CONTRACTOR SHALL HAVE EMPLOYEES TRAINED IN EMERGENCY SPILL CLEANUP PROCEDURES PRESENT.

VEHICLE MAINTENANCE NOTES:

1. EQUIPMENT AND VEHICLES TRAVELING ONSITE SHALL BE INSPECTED REGULARLY FOR LEAKS AND BE REPAIRED IMMEDIATELY; DO NOT ALLOW LEAKING VEHICLES ONSITE. KEEP VEHICLES AND EQUIPMENT CLEAN (DO NOT ALLOW EXCESSIVE BUILDUP OF OIL AND GREASE).
2. USE OFFSITE REPAIR SHOPS WHENEVER POSSIBLE; IF ONSITE REPAIRS ARE NECESSARY, USE A DESIGNATED AREA SURROUNDED BY EARTH BERMS. THE CONTRACTOR SHALL INSPECT THIS AREA WEEKLY AND AFTER EACH RAINSTORM EVENT TO ENSURE THAT THE EARTH BERMS ARE IN PLACE AND FUNCTIONING PROPERLY; ANY NON-FUNCTIONING BERMS SHALL BE REPAIRED IMMEDIATELY.
3. USE DRY CLEAN-UP METHODS FOR SPILLS AS MUCH AS POSSIBLE; USE ABSORBENT MATERIALS FOR SMALL SPILLS AND DISPOSE OF PROPERLY. USE A SECONDARY CONTAINMENT DURING FLUID CHANGES AND REPAIRS TO CATCH SPILLS.
4. SEGREGATE AND RECYCLE WASTES (INCLUDING BUT NOT LIMITED TO: USED OIL AND OIL FILTERS, BATTERIES, ETC.). KEEP HAZARDOUS WASTES SEPARATE FROM NON-HAZARDOUS WASTES; AFTER REPAIRS, ETC., PROMPTLY TRANSFER USED FLUIDS AND WASTES TO THEIR PROPER CONTAINMENT AREAS AND CONTAINERS.

SS	JTM	FAM	FAM	CD SET	100%	REV	DATE	DESCRIPTION	CHK BY	APP BY

KARUK TRIBE HOUSING AUTHORITY
 SITE CIVIL IMPROVEMENT PLANS
GENERAL NOTES
 APN: 529-111-007-000
 ORLEANS, HUMBOLDT COUNTY, CALIFORNIA

DATE OF ISSUE:
 DECEMBER 2023
 SCALE:
 AS SHOWN
 PROJECT NO:
 0236.02
 DRAWING NO:
 G100

DEVELOPMENT PLAN

APN: 529-111-007

FOR
KARUK TRIBE HOUSING AUTHORITY
ORLEANS HOUSING DEVELOPMENT
 38030 STATE HIGHWAY 96

DEVELOPMENT PLAN NOTES:

1. ALL FLAMMABLE VEGETATION AND FUELS CAUSED BY SITE DEVELOPMENT AND CONSTRUCTION, ROAD AND DRIVEWAY CONSTRUCTION, AND FUEL MODIFICATION SHALL BE DISPOSED OF BY CHIPPING, BURYING, BURNING, OR REMOVAL TO A LANDFILL SITE APPROVED BY THE COUNTY.
2. TO ENSURE CONTINUED COMPLIANCE, PROPERTY OWNERS ARE RESPONSIBLE FOR ANNUAL MAINTENANCE OF THE PARCELS TO FIRE SAFE AND WILDFIRE PROTECTION STANDARDS AS REQUIRED FOR THOSE ITEMS LISTED UNDER A(6) OF THE DEVELOPMENT PLAN DETAILS. COMPLIANCE WITH THESE PROVISIONS IS SUBJECT TO INSPECTION BY THE CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION.
3. THE HUMBOLDT COUNTY FIRE SAFE ORDINANCE (SECTION 3111-1 ET SEQ.) ESTABLISHES DEVELOPMENT STANDARDS FOR MINIZING WILDFIRE DANGER IN "STATE RESPONSIBILITY" DESIGNATED AREAS. EXCEPTIOS TO THE 30-FOOT SETBACK REQUIREMENT MAY BE PURSUED UPON DEMONSTRATION OF PROVIDING THE "SAME PRACTICAL EFFECT" OF THE SETBACK THROUGH A COMBINATION OF CONSTRUCTION MATERIAL CHOICES, NON-FLAMMABLE VEGETATIVE BUFFERS, AND OTHER DESIGN FEATURES. CONTACT THE PLANNING AND BUILDING DEPARTMENT FOR FURTHER INFORMATION.

PROJECT SCOPE:

REMOVE ALL EXISTING STRUCTURES AND CONFLICTING UTILITIES FROM PROPERTY AND PROCEED TO DEVELOP A HOUSING UNIT CONSISTING OF A CUL-DE-SAC AND EIGHT PROPOSED HOUSES. (SEE PLANS)

HOUSING NOTES

1. EA. HOUSE WILL HAVE GARBAGE CANS FOR WEEKLY PICKUP BY KTHA.
2. EA. HOUSE WILL HAVE A WASHER & DRYER.
3. EA. HOUSE WILL HAVE STANDARD ADDRESSING SIGNAGE.

CONTRACTOR ALERT!

CONTRACTOR MUST CONTACT USA DIG AT 800-227-2600 AT LEAST 72 HOURS BEFORE ANY EARTHWORK OR ACTIVITIES THAT MAY IMPACT EXISTING UNDERGROUND UTILITIES.
 EXISTING UTILITY ALIGNMENTS BOTH HORIZONTALLY AND VERTICALLY MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION ACTIVITIES.

SRA REQUIREMENTS

PROVIDE ADEQUATE WATER STORAGE AND DELIVERY AS OUTLINED BY SRA ORDINANCE AND CALFIRE REQUIREMENTS
 PROVIDE ADEQUATE TURN AROUND AND PULLOUTS AS OUTLINED BY SRA ORDINANCE REQUIREMENTS AND CALFIRE REQUIREMENTS

SURVEY NOTES

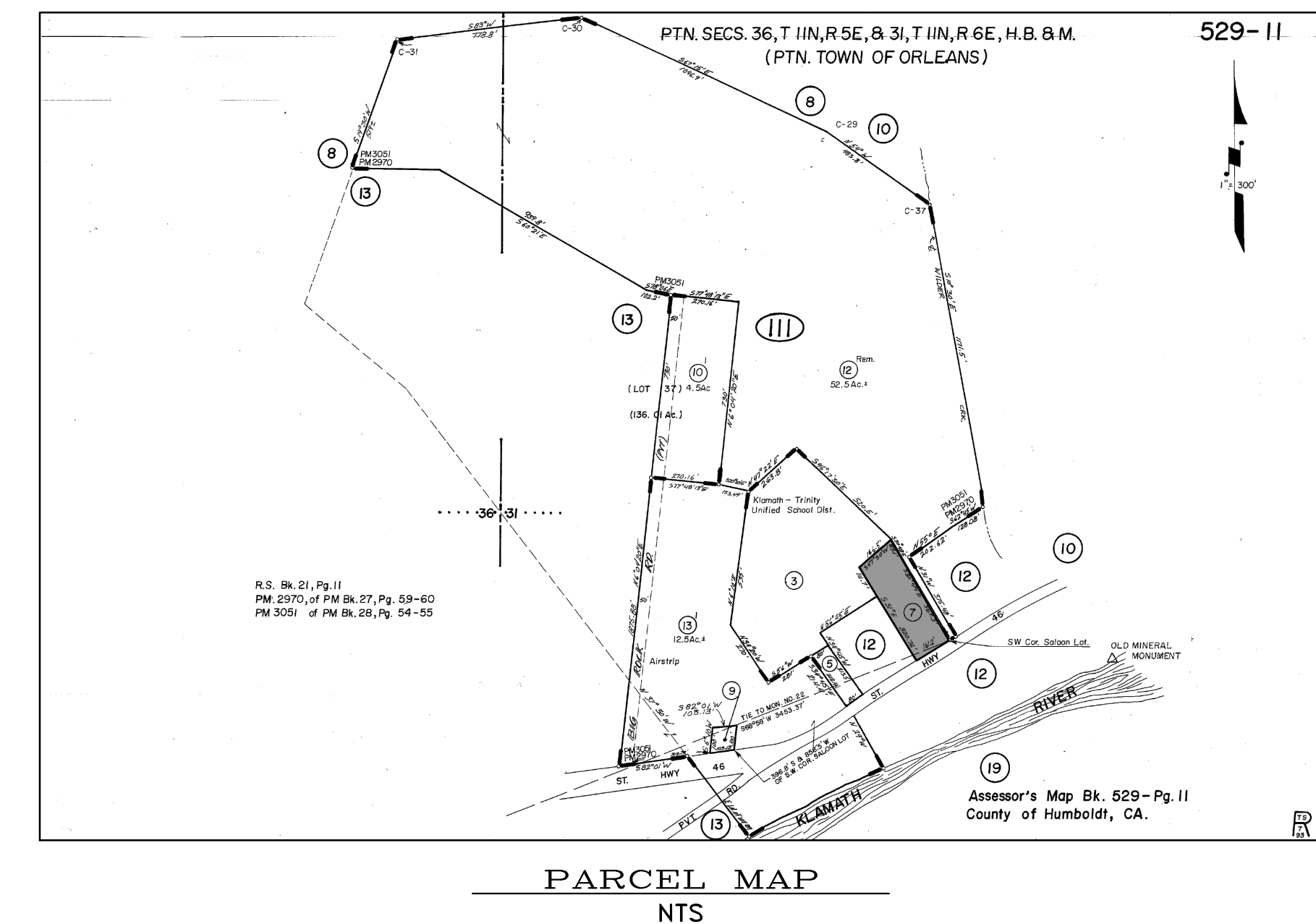
A FIELD SURVEY FOR TOPOGRAPHIC PURPOSES WAS CONDUCTED BY TRINITY VALLEY CONSULTING ENGINEERS (TVCE) IN FEBRUARY OF 2020. A BOUNDARY SURVEY WAS CONDUCTED BY TVCE IN FEBRUARY OF 2020. THE PROPERTY LINES SHOWN ARE RECORD PER BOOK 75 OF SURVEYS PAGE 26

GENERAL NOTES

WATER/WASTEWATER: OCS&D
 CREEKS/STREAMS: NONE
 GRADING: 1,013 CY
 PHONE: FRONTIER
 POWER: PG&E
 TREES TO BE REMOVED: ± 30
 ZONE: II

LEGEND:
 - - - - - PROPERTY BOUNDARY
 SS(P) (P) SEWER LINE
 W(P) (P) WATER LINE
 E(P) (P) ELECTRIC LINE
 OH (E) OVERHEAD POWER LINES
 (E) VEGETATION TO BE REMOVED

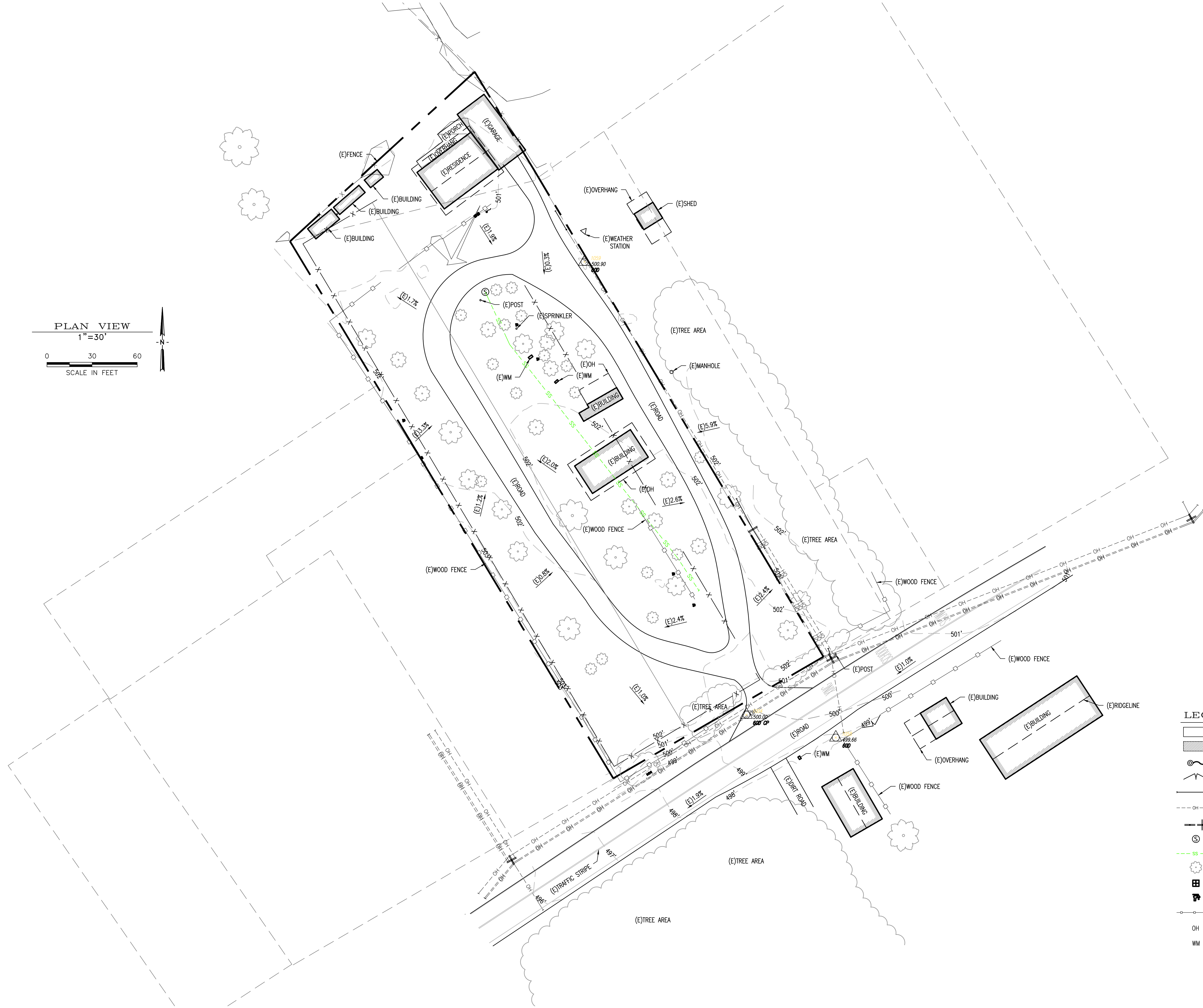
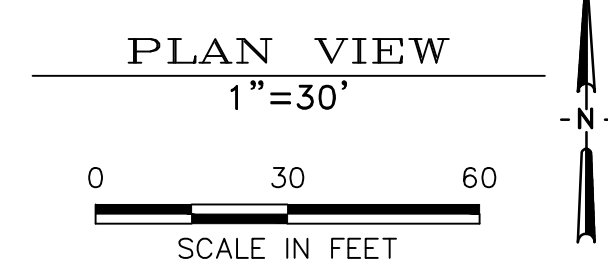
PLAN VIEW
 1"=25'
 SHEET SIZE: 24"X36"
 0 25 50
 NTS



DATE	DESCRIPTION	APP'D BY
12/18/2023	100% CD SET	JTM
		FAM
		FAM
		SS

KARUK TRIBE HOUSING AUTHORITY
 SITE CIVIL IMPROVEMENT PLANS
DEVELOPMENT PLAN
 APN: 529-111-007-000
 ORLEANS, HUMBOLDT COUNTY, CALIFORNIA

DATE OF ISSUE:	DECEMBER 2023
SCALE:	AS SHOWN
PROJECT NO:	0236.02
DRAWING NO:	C100



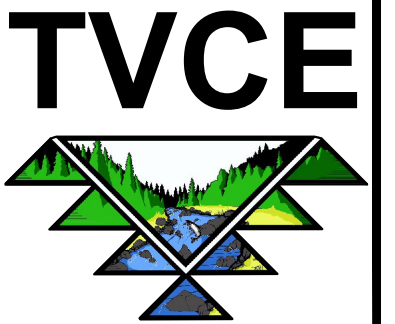
LEGEND:	
	EXISTING ASPHALT PAVEMENT
	EXISTING BUILDING
	EXISTING FLAG
	EXISTING GATE
	EXISTING GUY WIRE
	EXISTING OVERHEAD LINES
	EXISTING POWER POLE
	EXISTING SANITARY SEWER MANHOLE
	EXISTING SANITARY SEWER LINE
	EXISTING TREE
	EXISTING WATER METER
	EXISTING WATER FAUCET
	EXISTING WOOD FENCE
OH	OVERHANG
WM	WATER METER

NO.	DATE	DESCRIPTION	APP'D BY
1	12/18/2023	100% CD SET	JTM
2			FAM
3			FAM
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12			

KARUK TRIBE HOUSING AUTHORITY
 SITE CIVIL IMPROVEMENT PLANS
EXISTING SITE
 APN: 529-111-007-000
 ORLEANS, HUMBOLDT COUNTY, CALIFORNIA

DATE OF ISSUE:	DECEMBER 2023
SCALE:	AS SHOWN
PROJECT NO:	0236.02
DRAWING NO:	C102

1/2" 1" 2"



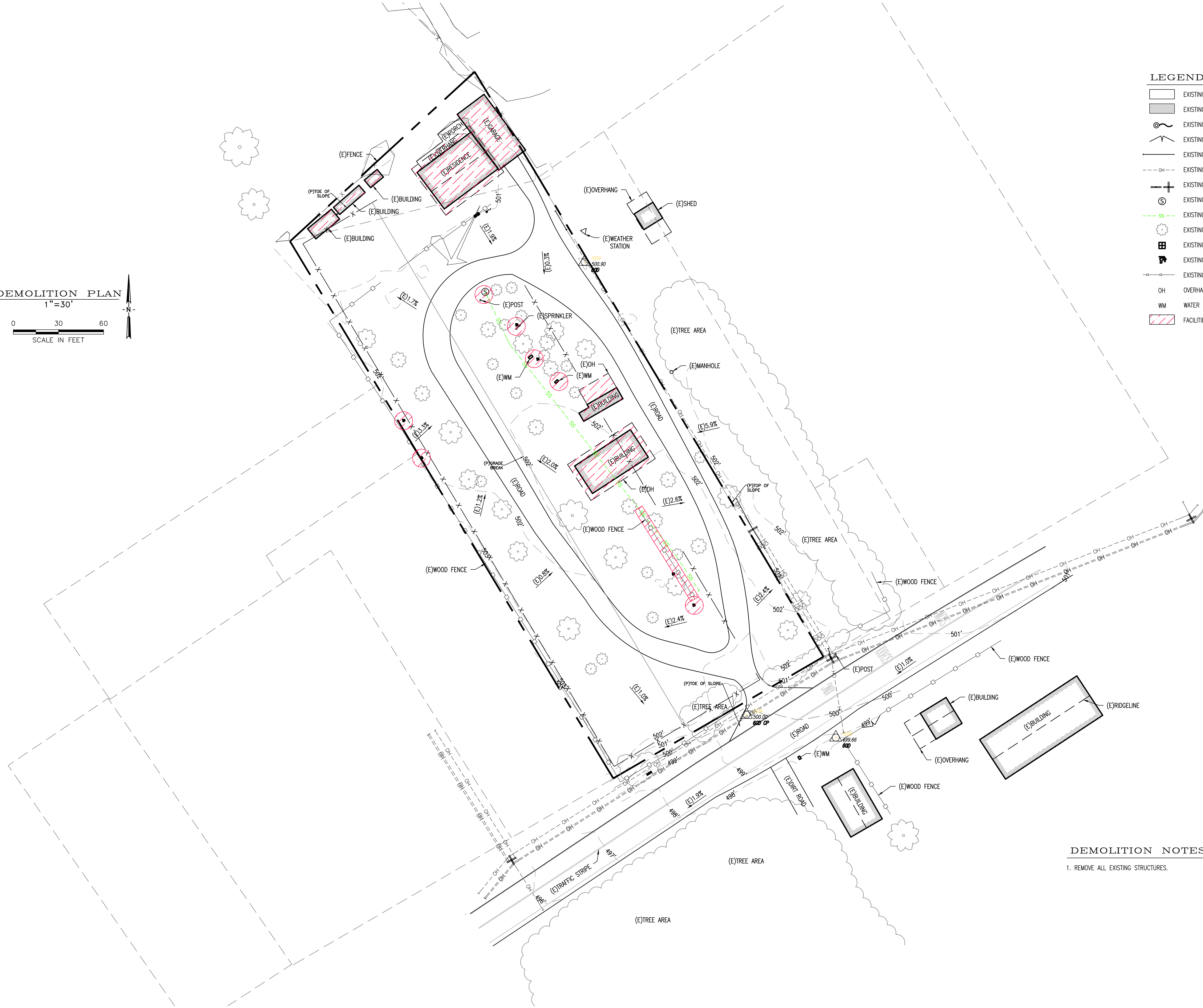
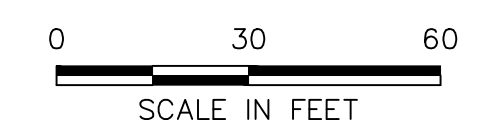
67 Walnut Way
PO Box 1587
Willow Creek, CA 95573
530.629.3000
WWW.TVCE.BIZ



LEGEND:

- EXISTING ASPHALT PAVEMENT
- EXISTING BUILDING
- EXISTING FLAG
- EXISTING GATE
- EXISTING GUY WIRE
- EXISTING OVERHEAD LINES
- EXISTING POWER POLE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER LINE
- EXISTING TREE
- EXISTING WATER METER
- EXISTING WATER FAUCET
- EXISTING WOOD FENCE
- OVERHANG
- WATER METER
- FACILITIES TO BE REMOVED

DEMOLITION PLAN
1"=30'



DEMOLITION NOTES

- 1. REMOVE ALL EXISTING STRUCTURES.

DATE	DESCRIPTION	APP'D BY
12/18/2023	100% CD SET	JTM
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		FAM
		SS

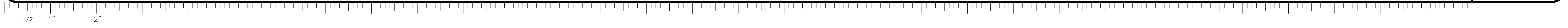
KARUK TRIBE HOUSING AUTHORITY
SITE CIVIL IMPROVEMENT PLANS

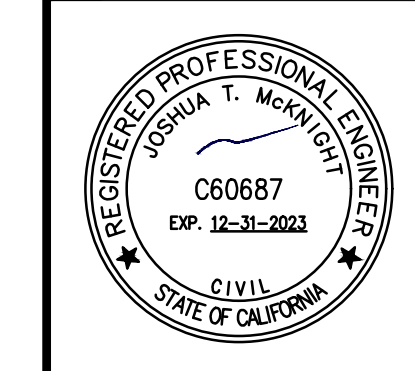
DEMOLITION PLAN

APN: 529-111-007-000
ORLEANS, HUMBOLDT COUNTY, CALIFORNIA

DATE OF ISSUE:	DECEMBER 2023
SCALE:	AS SHOWN
PROJECT NO:	0236.02
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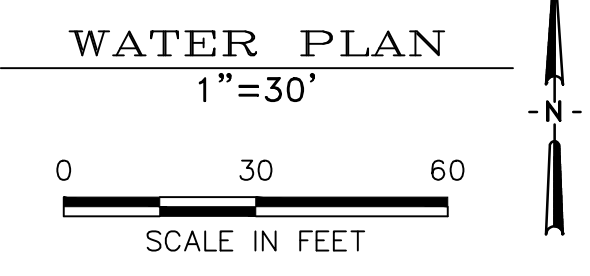




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12/18/2023	100% CD SET	JTM
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		JTM
		SS

KARUK TRIBE HOUSING AUTHORITY
 SITE CIVIL IMPROVEMENT PLANS
WATER PLAN
 APN: 529-111-007-000
 ORLEANS, HUMBOLDT COUNTY, CALIFORNIA

DATE OF ISSUE:	DECEMBER 2023
SCALE:	AS SHOWN
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WATER CONSTRUCTION NOTES:

- W01 FIELD LOCATE AND VERIFY (E) WATER MAIN SIZE/MATERIAL. CONNECT (P) 6" HDPE DR-11 WATER MAIN.
- W02 INSTALL 365 LF 6" HDPE DR-11 (E) WATER MAIN FROM WATER LINE TO (P) HYDRANT NEAR CUL-DE-SAC.
- W03 INSTALL 6" CLOW C509 RESILIENT WEDGE GATE VALVE IN CHRISTY F08 BOX W/ F08R LID MARKED "WATER"
- W04 INSTALL SERVICE: 6"x1" ROMAC SADDLE, CORPSTOP, METER YOKE, IN-LINE PRV, BACK-FLOW PREVENTER, +/- 10 LF. 1" PE WATER LINE, METER/PRV/BFP IN CHRISTY B09 BOX W/ B09C LID MARKED "WATER".
- W05 INSTALL 4" WARF HYDRANT ASSEMBLY PER DETAIL SHEET C201.
- W06 INSTALL 90 LF 2" PE WATER MAIN FROM 6" WATER MAIN TO LAST SERVICE.
- W07 INSTALL SERVICE: 2X1 REDUCING TEE, METER YOKE, IN-LINE PRV, BACK FLOW PREVENTER, +/- 10 LF 1" PE WATER LINE, METER/PRV/BFP IN CHRISTY B09BOX W/ B09C, LID MARKER "WATER".

WATER GENERAL NOTES:

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF AWWA STANDARDS UNLESS OTHERWISE SHOWN OR DESCRIBED ON THESE PLANS.
2. THE CONTRACTOR SHALL NOTIFY THE OWNER FIVE (5) WORKING DAYS IN ADVANCE OF BEGINNING WORK.
3. PLANS SHALL BE RESUBMITTED FOR APPROVAL IF CONSTRUCTION OF WATER FACILITIES HAS NOT BEGUN WITHIN ONE (1) YEAR FOLLOWING THE APPROVAL DATE OF THESE IMPROVEMENT PLANS.
4. ALL WORK SHALL BE INSPECTED BY THE OWNER PRIOR TO BACKFILLING.
5. THE CONTRACTOR SHALL NOTIFY THE OWNER IN CASE OF AN EMERGENCY.
6. THE CONTRACTOR SHALL NOTIFY THE OWNER FIVE (5) DAYS PRIOR TO SCHEDULED CONNECTION TO THE EXISTING WATER SYSTEM SO THE INSPECTOR CAN ARRANGE FOR CLOSURE OF VALVES AND CUSTOMER NOTIFICATION OF SHUT DOWN. THE OWNER WILL ARRANGE FOR CLOSURE OF VALVES, CUSTOMER NOTIFICATIONS OF SHUTDOWN, AND CONNECTION TO THE WATER SYSTEM. THE CONTRACTOR IS PROHIBITED FROM OPERATING ANY VALVES WITHOUT EXPRESS WRITTEN PERMISSION FROM THE OWNER.
7. THE CONTRACTOR SHALL DISINFECT AND FLUSH THE NEW WATER SYSTEM PRIOR TO CONNECTING TO THE EXISTING WATER SYSTEM PER AWWA 605.
8. SERVICE CONNECTIONS TO AN EXISTING WATER MAIN, OR TO AN EXTENSION OF AN EXISTING WATER MAIN, SHALL BE MADE BY THE OWNER ONLY.
9. VALVES THREE INCHES (3") AND LARGER PLACED AT TEES, CROSSES, ELBOWS, AND REDUCERS SHALL BE FLANGED AND BOLTED TO THE FITTINGS.
10. PIPE JOINTS WILL NOT BE ALLOWED WITHIN SIX FEET (6') OF A VALVE, FITTING OR HYDRANT. DEFLECTION OF PIPE WILL NOT BE ALLOWED WITHIN TEN FEET (10') OF ANY FITTING OR VALVE.
11. STANDARD PIPE LENGTHS (MINIMUM EIGHTEEN (18) TO TWENTY (20) FEET) SHALL BE USED FOR ALL HORIZONTAL AND VERTICAL DEFLECTIONS.
12. THE PRESSURE REGULATING VALVE (PRV) AND PRIMARY BACKFLOW PREVENTER SHALL BE LOCATED WITHIN FIVE (5) FEET OF THE WATER METER.
13. ALL ELBOWS, TEES, CROSSES, REDUCERS, BLOW-OFFS, DEAD ENDS, AND VALVES SHALL BE RESTRAINED TO PREVENT MOVEMENT WHEN PRESSURIZED. RESTRAINTS SHALL BE INSTALLED WHETHER SHOWN ON PLANS AND DETAILS OR NOT. VALVES SHALL BE TREATED AS BI-DIRECTIONAL DEAD-ENDS WHEN DETERMINING REQUIRED RESTRAINED LENGTHS. THE TYPE OF RESTRAINT SHALL BE THRUST BLOCKS OR JOINT RESTRAINING DEVICES, AS HEREINAFTER SPECIFIED. JOINT RESTRAINING DEVICES SHALL BE USED AT ALL OTHER LOCATIONS, WHERE UTILITY CONFLICTS DO NOT LEAVE ROOM FOR THRUST BLOCKS, OR WHERE SPECIFIED. JOINT RESTRAINING DEVICES SHALL BE INSTALLED IN ALL PUSH ON AND MECHANICAL JOINTS WITHIN THE SPECIFIED "RESTRAINED LENGTH". THE "RESTRAINED LENGTH" SHALL COMPLY WITH NOTES ON THE PLANS, OR STANDARD DRAWINGS, WHICHEVER IS LONGER. IN THE EVENT THAT NO "RESTRAINED LENGTH" IS SPECIFIED, THE CONTRACTOR SHALL OBTAIN THE REQUIRED "RESTRAINED LENGTH" FROM THE ENGINEER.
14. JOINT RESTRAINING DEVICES FOR MECHANICAL JOINTS SHALL BE EBBA MEGALUG 1100, OR STAR PIPE PRODUCTS' STARGRIP 3000 FOR DUCTILE IRON PIPE, AND EBAA MEGALUG 2000PV, OR STAR PIPE PRODUCTS' ALLGRIP 3600, FOR PVC PIPE, OR APPROVED EQUAL BY THE ENGINEER. ONLY DUCTILE IRON PIPE SHALL BE USED WHEN RESTRAINING PUSH-ON JOINTS. PUSH-ON RESTRAINTS SHALL BE US PIPE FIELD LOK GASKETS, OR US PIPE TR FLEX PIPE, OR APPROVED EQUAL BY THE ENGINEER. OUTSIDE THE BELL RESTRAINING DEVICES AND RESTRAINED PVC PUSH-ON JOINTS WILL NOT BE ALLOWED. THE PIPE LENGTH FROM THE RESTRAINED FITTING OR VALVE SHALL BE A MINIMUM OF 18- FEET, UNLESS OTHERWISE SPECIFIED.
15. TWO (2) SETS OF "AS-BUILT" PLANS SHALL BE SUBMITTED TO THE OWNER, PRIOR TO ACCEPTANCE OF THE WATER SYSTEM BY THE OWNER. THE PLAN SET SHALL BE STAMPED "RECORD DRAWING" OR "AS-BUILT".
16. ALL RUNS OF NON-METALLIC WATER PIPE, INCLUDING SERVICES, SHALL HAVE A NO. 12 GAUGE SOLID SOFT DRAWN COPPER WIRE LAID ALONG THE PIPE TO FACILITATE LOCATING THE PIPE AT A LATER DATE. THE WIRE SHALL BE STUBBED UP INSIDE EACH VALVE BOX. A CONTINUITY TEST SHALL BE CONDUCTED ON EACH SPLICE AT ALL LOCATIONS.
17. PLASTIC PIPING APPROVED FOR UNDERGROUND INSTALLATIONS SHALL BE PVC, C900, CLASS 150 OR GREATER, AND BE LISTED FOR SUCH USE.
18. ALL PIPING SHALL BE LAID IN A FOUR INCH (4") BED OF SAND OR NATURAL GRAVEL NOT OVER ONE INCH IN DIAMETER AND HAVE A SIX INCH (6") FILL OF SAND OR NATURAL GRAVEL NOT OVER ONE INCH IN DIAMETER.
19. ALL FASTENERS (NUTS, BOLTS, ETC.) SHALL BE CLEANED AND COATED WITH A BITUMINOUS CORROSION RETARDING MATERIAL AFTER INSTALLATION AND PRIOR TO INSPECTION, FITTINGS OR FASTENERS SHALL NOT BE WRAPPED OR COVERED WITH PLASTIC OR COVERED WITH CONCRETE.
20. CONCRETE THRUST BLOCKS OR OTHER APPROVED RETAINING, SHALL BE INSTALLED AT ALL LOCATIONS WHERE PIPING CHANGES DIRECTION.
21. A HYDROSTATIC PRESSURE TEST SHALL BE PERFORMED ON ALL INSTALLED PIPING AND APPURTENANCES FOR A PERIOD OF TWO HOURS. THE PIPING SHALL BE CENTER-LOADED DURING PRESSURE TESTING WITH ALL JOINTS, FITTINGS AND APPURTENANCES UNCOVERED. FAILURE TO COMPLY WITH THIS SECTION WILL RESULT IN THE UNCOVERING OF THE PIPING FOR VISUAL INSPECTION.

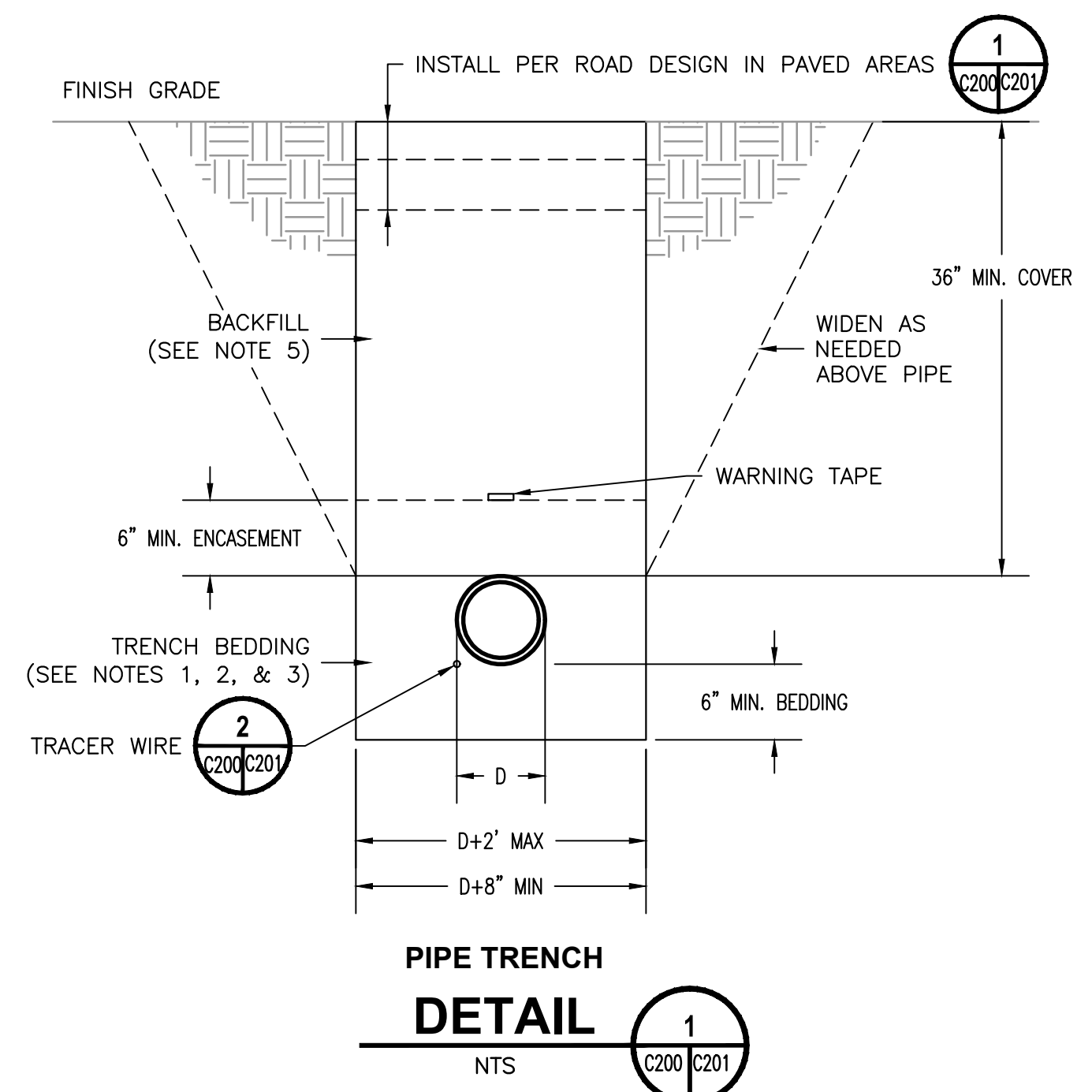




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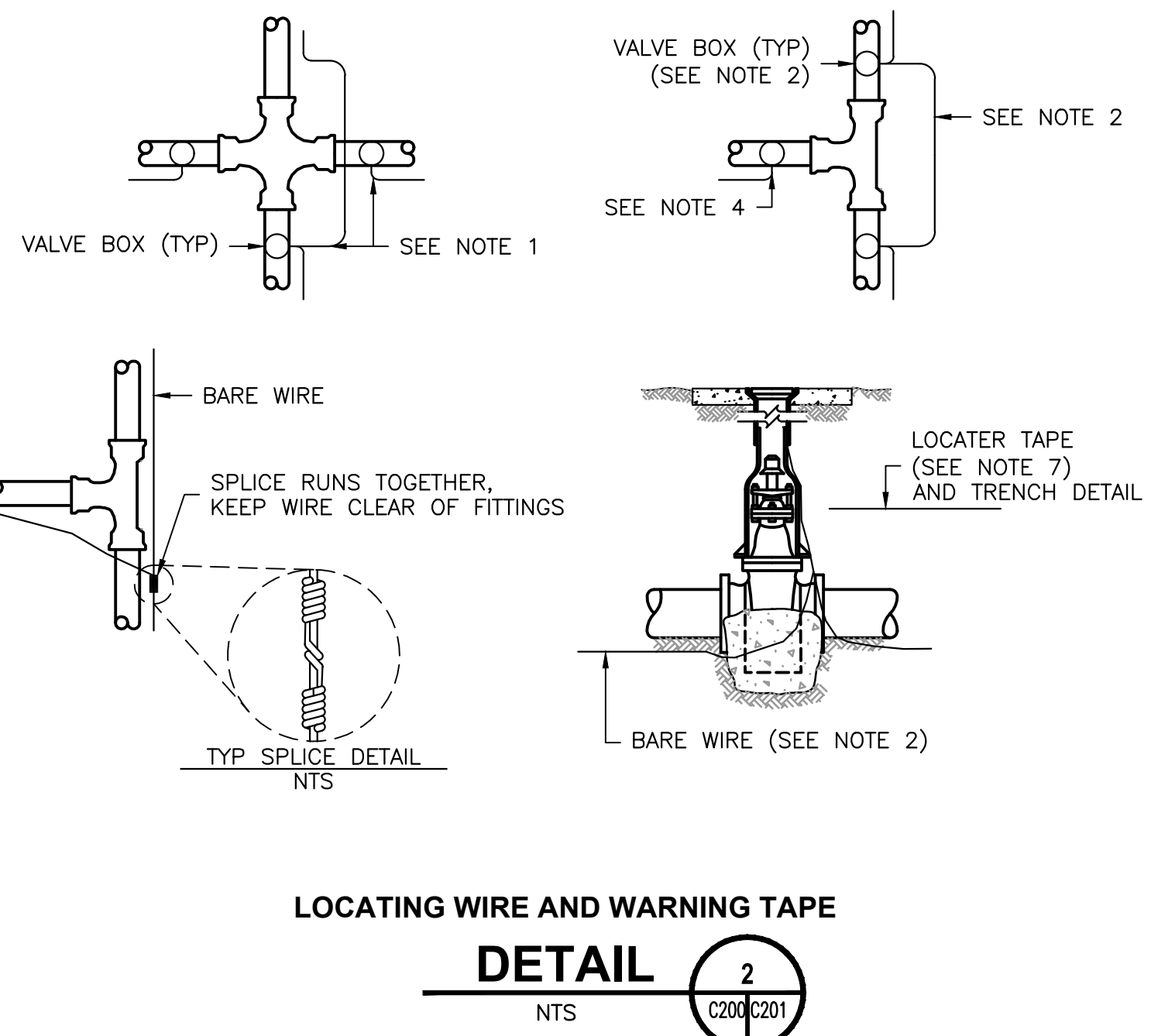
KARUK TRIBE HOUSING AUTHORITY
 SITE CIVIL IMPROVEMENT PLANS
WATER DETAILS
 APN: 529-111-007-000
 ORLEANS, HUMBOLDT COUNTY, CALIFORNIA

DATE OF ISSUE:
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 C201



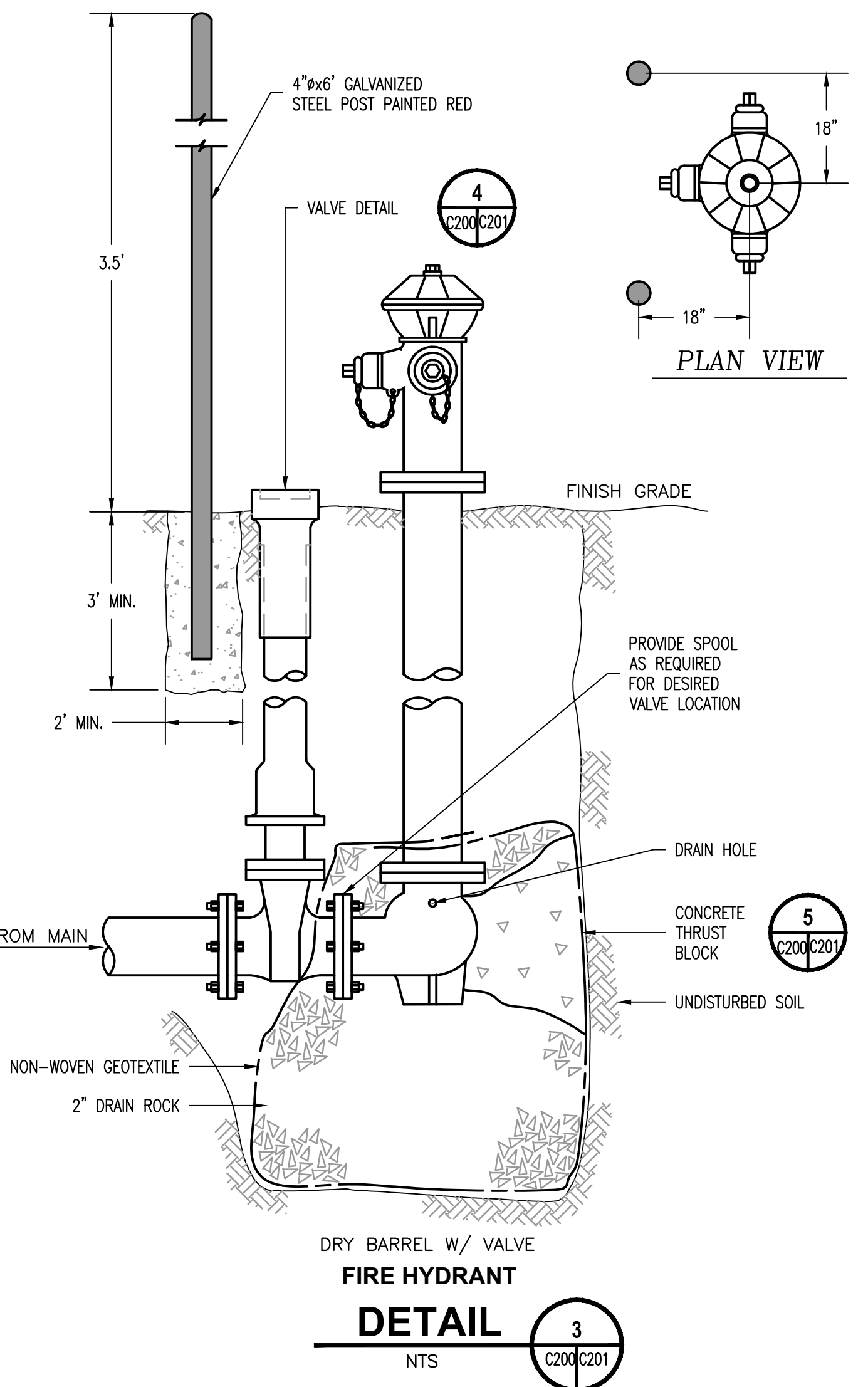
PIPE TRENCH NOTES:

- BACKFILL BY HAND, COMPACT OR CONSOLIDATE TO PROVIDE SOLID BEDDING UNDER AND AROUND PIPE.
- BEDDING MATERIAL SHALL BE GRAVEL OR CRUSHED ROCK AND SHALL HAVE A MAXIMUM SIZE OF 3/4" AND BE REASONABLY GRADED FROM COARSE TO FINE WITH A MINIMUM SAND EQUIVALENT OF 28.
- IMPORT GRAVEL BACKFILL SHALL BE STREAM GRAVEL OR CRUSHED ROCK AND BE REASONABLY WELL GRADED FROM COARSE TO FINE WITH A MAXIMUM SIZE OF 3" AND A MINIMUM SAND EQUIVALENT GREATER THAN 28.
- JETTING WILL NOT BE ALLOWED.
- IN ROAD CROSSINGS BACKFILL ABOVE PIPE SHALL BE 3/4" MINUS CLASS II AGGREGATE BASE. BASE CONSOLIDATION SHALL BE 95% RELATIVE COMPACTION PER ASTM 2922. A 2-SACK CONCRETE SLURRY MAY BE USED IN PLACE OF AB.

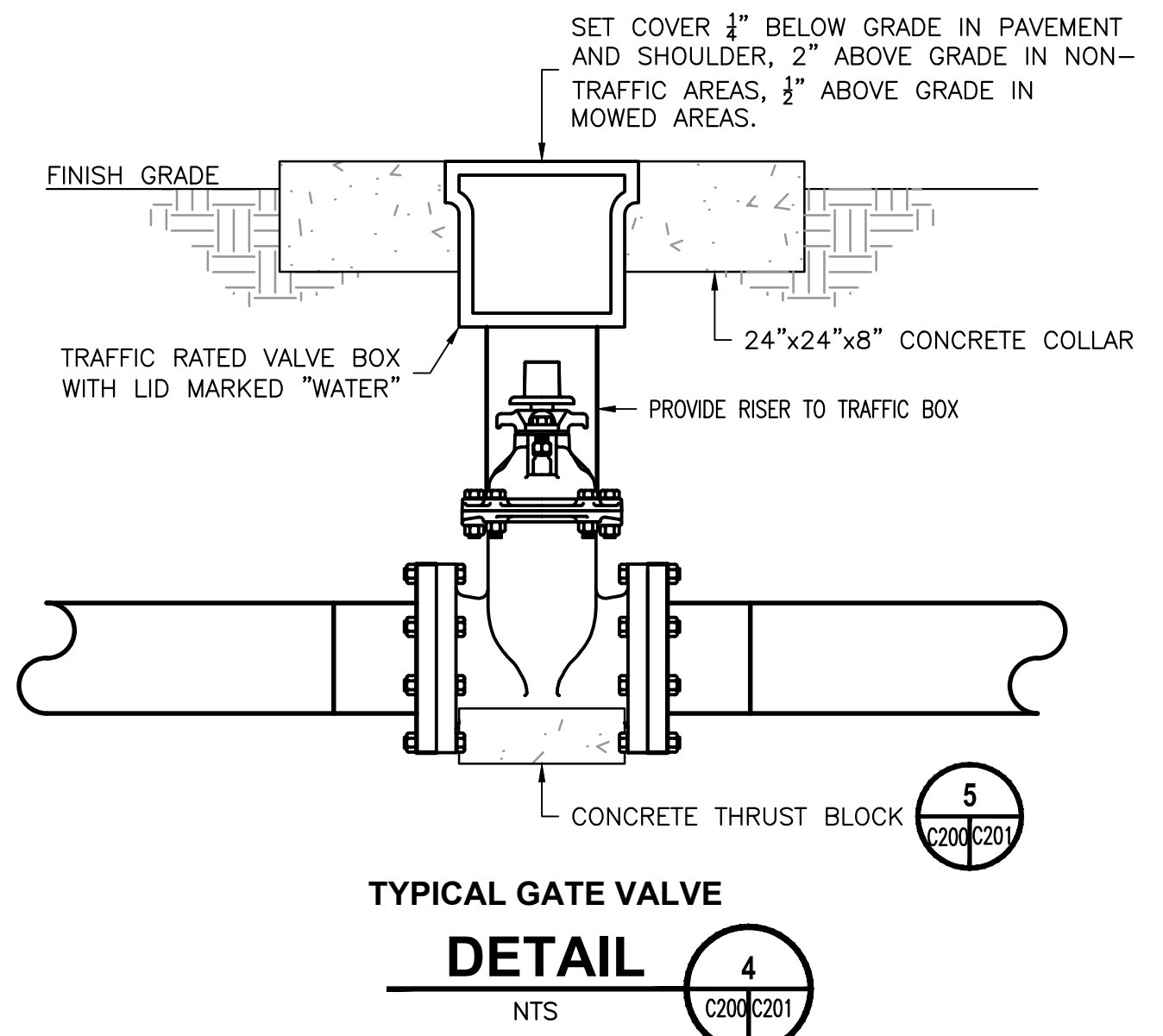


LOCATING WIRE AND WARNING TAPE NOTES:

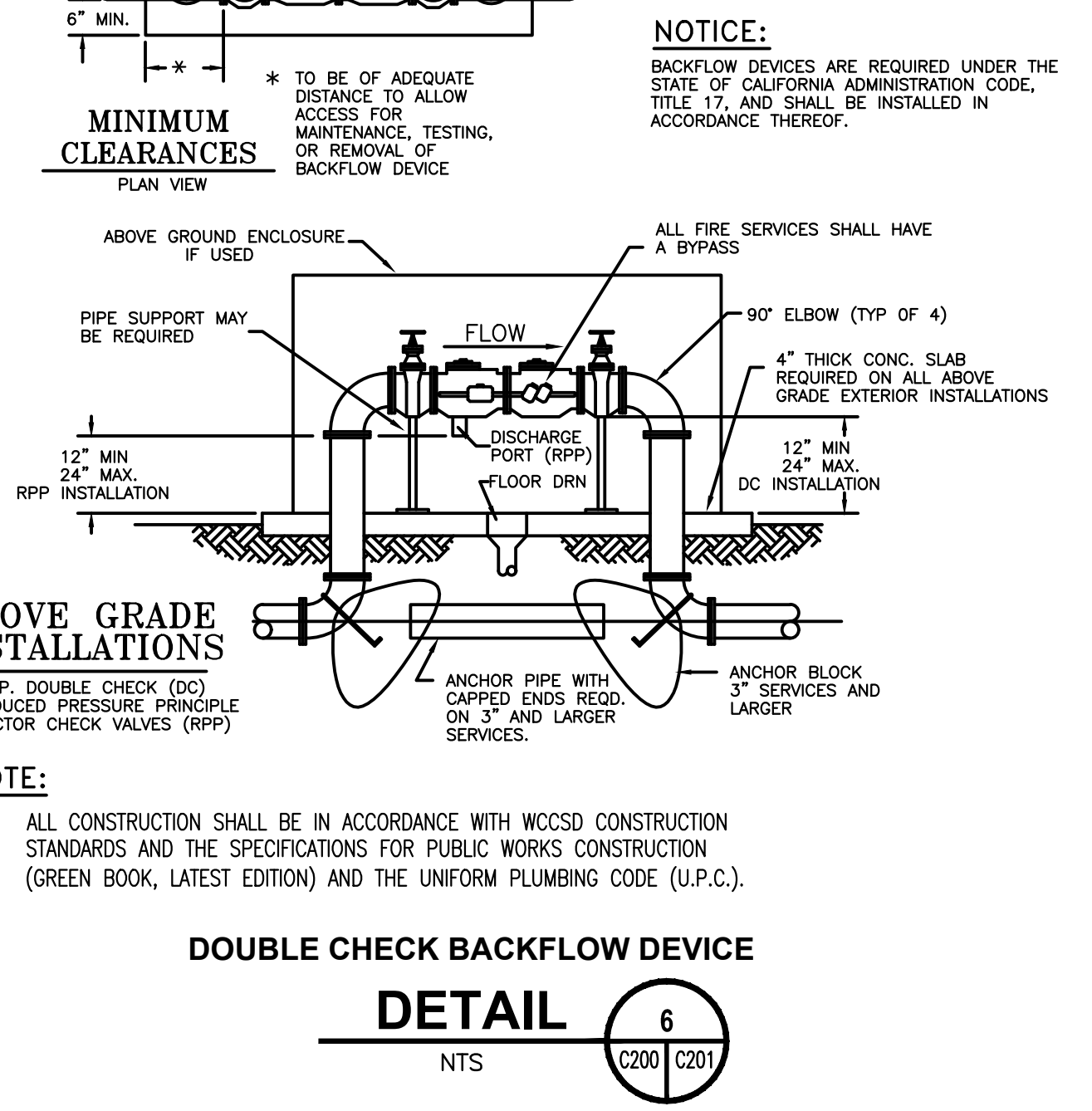
- WIRE SHALL BE CONTINUOUS BETWEEN VALVE BOXES, EXCEPT WHERE BOXES ARE WITHIN TEN (10) FEET OF PIPE INTERSECTION.
- BARE WIRE SHALL NOT TOUCH VALVES OR FITTINGS.
- LOCATING WIRE SHALL BE PLACED AT BOTTOM OF TRENCH, NEXT TO PIPE. (DO NOT ATTACH WIRE TO PIPE).
- IF WIRE ENDS AT A VALVE, A SINGLE INSULATED WIRE SHALL EXTEND UP TO WITHIN 12" OF BOX COVER.
- ALL VALVES, INCLUDING FIRE HYDRANT VALVES, SHALL HAVE LOCATING WIRES.
- LOCATING WIRE SHALL BE BARE #6 AWG SOLID COPPER, SOFT DRAWN WIRE. WIRE SHALL BE INSTALLED WITH ALL NON-METALLIC MAINS AND SERVICES.
- WARNING TAPE SHALL BE A DETECTABLE METALLIZED 2" WIDE WARNING TAPE, BLUE COLOR CODED, IMPRINTED WITH "CAUTION-BURIED WATER LINE BELOW" SHALL BE INSTALLED 6" MINIMUM ABOVE ALL WATER MAINS IN OFF ROAD INSTALLATIONS. LINEGUARD DETECTABLE MARKING TAP, TYPE III OR APPROVED EQUAL.



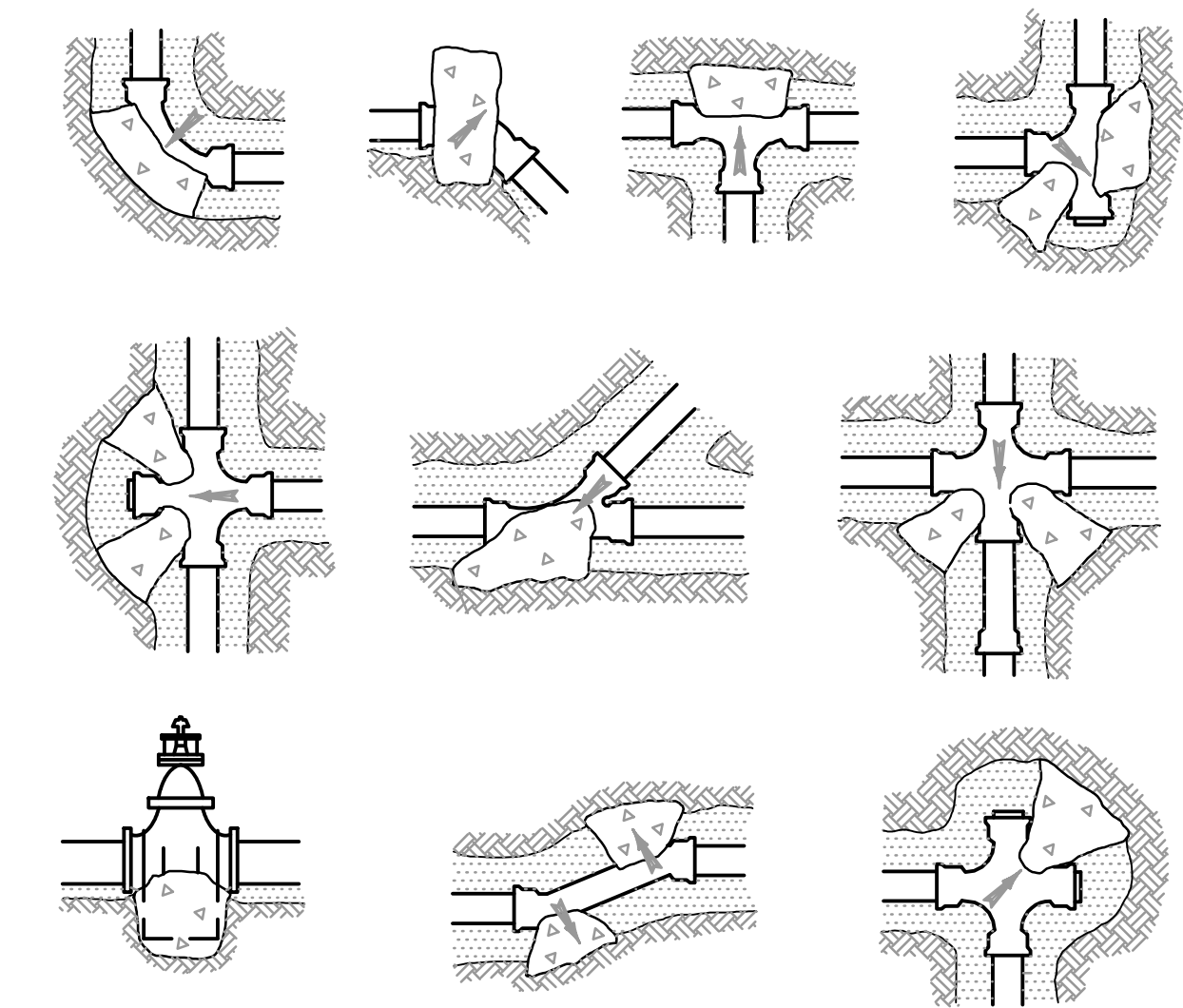
DRY BARREL W/ VALVE FIRE HYDRANT DETAIL (3) NTS



TYPICAL GATE VALVE DETAIL (4) NTS



DOUBLE CHECK BACKFLOW DEVICE DETAIL (6) NTS



LOCATION OF THRUST BLOCKS NTS

PIPE SIZE	TEE OR DEAD END	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
1 1/2"	284	401	217	111	56
2"	443	627	339	173	87
2 1/2"	649	918	497	253	127
3"	962	1361	736	375	189
4"	1810	2559	1385	706	355
6"	3739	5288	2862	1459	733
8"	6433	9097	4923	2510	1261
10"	9677	13685	7406	3776	1897
12"	13685	19353	10474	5340	2683
14"	18385	26001	14072	7174	3604
16"	23779	33628	18199	9278	4661

SOIL	SAFE BEARING LOAD, POUNDS PER SQ. FT.
SOUND SHALE	10000
CEMENTED SAND AND GRAVEL	4000
COARSE AND FINE COMPACTED SAND	3000
MEDIUM CLAY (CAN BE SPADED)	2000
SOFT CLAY	1000
MUCK	0

$A_{SB} = \frac{T}{B} \times \frac{PT}{100}$

WHERE:
 A_{SB} = AREA OF BLOCK BEARING AGAINST UNDISTURBED TRENCH MATERIAL IN SQ. FT.
 T = THRUST FACTOR FROM TABLE I IN POUNDS AT 100 PSI
 B = SAFE BEARING LOAD FROM TABLE II IN POUNDS/SQ. FT.
 PT = PRESSURE USED FOR PIPELINE TEST IN PSI

THRUST BLOCK SIZING NOT TO SCALE

THRUST BLOCK NOTES:

- THRUST BLOCKS SHALL BE CONSTRUCTED SO THAT MAJOR BEARING SURFACE IS IN DIRECT LINE WITH THE MAJOR FORCE CREATED BY THE PIPE OR FITTINGS.
- ALL CONCRETE SHALL BE CLASS 470-C-2500 PER "GREENBOOK".
- CONCRETE SHALL BE FLUID ENOUGH SO THAT IT MAY BE WORKED AROUND THE FITTINGS. A DOUBLE LAYER OF 6 MIL POLYETHYLENE FILM SHALL BE PLACED BETWEEN CONCRETE AND METAL FITTINGS.
- CONCRETE SHALL BE KEPT BEHIND THE BELL OF THE FITTINGS.
- ALL THRUST BLOCKS FOR PIPES LARGER THAN 12" SHALL BE ENGINEERED.
- A CONCRETE PAD SHALL BE PLACED UNDER ALL VALVES 12" AND LARGER FOR SUPPORT.
- ALL ANCHOR BLOCKS SHALL BE CONSTRUCTED WITH A MINIMUM OF (2) #4 REBAR STRAPS.

THRUST BLOCK DETAIL (5) NTS

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SANITARY SEWER PLAN
 1"=20'
 SCALE IN FEET

SANITARY SEWER GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL SEWER LATERAL LOCATIONS WITH THE PROJECT ENGINEER PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL EXPOSE THE END OF EXISTING SEWER LINES FOR SURVEYORS TO VERIFY LOCATION AND ELEVATION PRIOR TO PLACEMENT OF NEW PIPE.
3. ANY SEWER PIPE HAVING LESS THAN 20" OF COVER MEASURED AT THE BELL WITHIN THE STREET BEFORE THE ADDITION OF BASE ROCK SHALL BE DUCTILE IRON PIPE. ALL OTHER PIPE SHALL BE PVC CONFORMING TO ASTM D3034.
4. THE CONTRACTOR SHALL PLACE AN "S" IN THE WET CONCRETE CURB TOP AT SEWER LATERAL LOCATIONS.
5. ALL SEWER SERVICES TO MANHOLES SHALL MATCH INVERT OF THE INLET PIPE TO CROWN OF THE OUTLET PIPE, UNLESS OTHERWISE NOTED.
6. ALL SEWER SERVICES TO MANHOLES SHALL BE AIR TESTED TO THE SATISFACTION OF THE ENGINEER AFTER AGGREGATE BASE AND SIDEWALK PLACEMENT. SERVICES SHALL BE BALD AND FLUSHED AND TV TESTED. PRIOR TO EXPIRATION OF THE 1 YEAR WARRANTY PERIOD.
7. SEWER MAINS AND LATERALS SHALL BE TV TESTED.
8. ALL MANHOLE RISERS SHALL BE SEALED BETWEEN RINGS WITH "RAMNECK" OR SIMILAR SEALING MATERIAL. JOINTS SHALL BE GROUTED INSIDE AND OUT.
9. DURING INSTALLATION AND BACKFILLING, ALL TRENCHES SHALL BE FREE OF WATER. ALL DEWATERING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
10. POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS SHALL, AT A MINIMUM, CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D3034 AS THEY APPLY TO SDR-26 PVC SEWER PIPE USING AN ELASTOMERIC GASKET JOINT IN A BELL AN SPIGOT ASSEMBLY SYSTEM.
11. POLYVINYL CHLORIDE SHALL BE BELL AND SPIGOT USING AND ELASTOMERIC GASKET WHICH MEETS THE REQUIREMENTS OF ASTM DESIGNATION D1869. NO SOLVENT WELD JOINTS WILL BE ALLOWED.
12. ALL SANITARY SEWER PIPE INSTALLATIONS SHALL BE ACCOMPLISHED AS SPECIFIED HEREIN. PVC PIPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION.
13. ALL SEWER LATERALS SHALL BE ABS SCHEDULE 40 PER ASTM F628. ABS TO BE USED FOR RESIDENTIAL LATERALS ONLY.
14. ALL LATERALS SHALL HAVE NO LESS THAN ONE CLEANOUT BETWEEN MAIN AND HOME. ALL LATERAL CLEANOUTS SHALL BE TWO-WAY, INSTALLED W/ RISERS TO FINISH GRADE IN KRISTY BOX (OR EQUIVELANT) WITH LID MARKED "SEWER".
15. ALL LATERALS AND MAINS ARE TO BE VIDEO TAPED TO THE SERVICE CLEANOUT.
16. ALL LEAKAGE TESTS SHALL BE COMPLETED AND APPROVED AFTER BACKFILLING AND PRIOR TO PLACEMENT OF PERMANENT SURFACING.
17. ALL SEWER MAINS AND LATERALS SHALL BE CLEANED AND FLUSHED, DEFLECTION TESTED AND AIR TESTED.
18. THE COMPLETE JOB SITE SHALL BE DEEMED READY FOR TELEVISION INSPECTION WHEN THE FOLLOWING WORK IS COMPLETED:
 - 18.1. ALL SEWER PIPELINES ARE INSTALLED AND BACKFILLED.
 - 18.2. ALL STRUCTURES ARE IN PLACE, ALL CHANNELING IS COMPLETE AND PIPELINES ARE ACCESSIBLE FROM STRUCTURES.
 - 18.3. ALL OTHER UNDERGROUND FACILITIES, UTILITY PIPING AND CONDUITS ARE INSTALLED.
 - 18.4. FINAL STREET SUB GRADING IS COMPLETE AND READY FOR ASPHALT CONCRETE SURFACING. PIPELINES TO BE INSPECTED HAVE BEEN PRELIMINARY BALLED AND FLUSHED OR CLEANED WITH A HIGH PRESSURE CLEANER.
 - 18.5. FINAL AIR TESTS HAVE BEEN COMPLETED AND APPROVED.
19. WHEN THE ABOVE ITEMS ARE COMPLETE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING AS TO THE SCHEDULED DATE OF THE TELEVISION INSPECTION AND THE INSPECTION.

SEWER CONSTRUCTION NOTES:

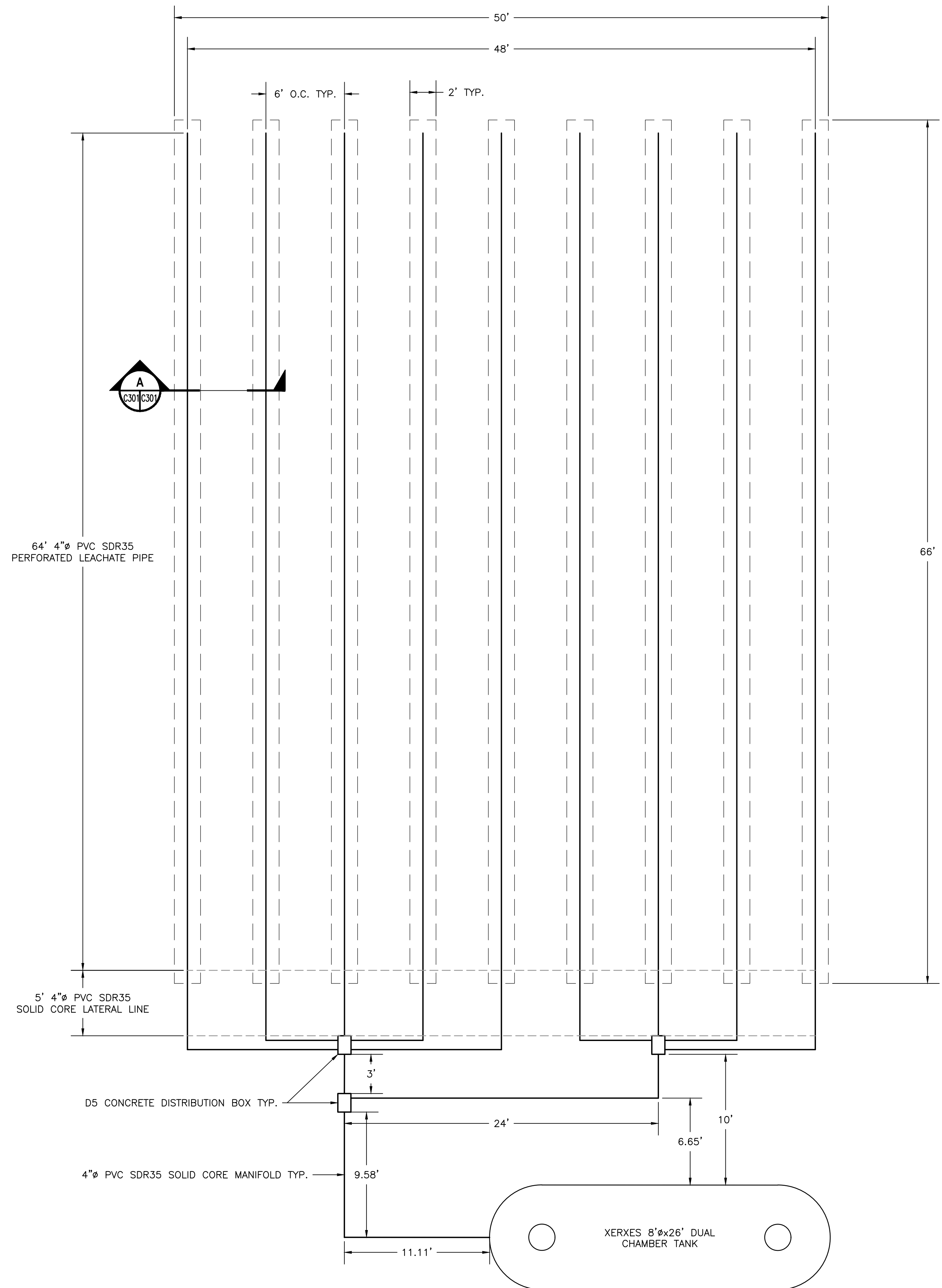
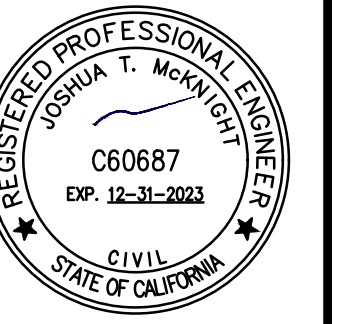
- (S01) LEACHATE DISPOSAL FIELD. REFER TO SHEET C301 FOR DETAILS. INCLUDES (3) D5 CONCRETE DISTRIBUTION BOXES, 4" PVC SDR35 SOLID CORE MANFOLD, 4" PVC SDR35 PERFORATED LEACHATE LATERAL LINES (9)x64" = 576', (3) 2" MINUS WASHED DRAIN ROCK BELOW PERF PIPE,
- (S02) 4" PVC SDR35 MANFOLD FROM TANK TO DISTRIBUTION BOX. SLOPE=0.01 FT/FT MIN.
- (S03) XERKES 8'x26' TANK, DUAL CHAMBER 70/30 VOLUME SPLIT SOLIDS/LEACHATE. INLET PIPE SET TO 6" ADAPT TO 6" PVC SDR35. OUTLET PIPE SET TO 4". ADAPT TO 4" PVC SDR35. PROVIDE RISER PORTS TO FINISH GRADE.
- (S04) 6" PVC SDR35 SEWER MAIN. SLOPE=0.005 FT/FT MIN.
- (S05) 48" CONCRETE SS MANHOLE WITH 24" METAL ACCESS PORT MARKED "SEWER". ECCENTRIC CONE TYP. FOR LADDER ALIGNMENT.
- (S06) INSTALL 4" SDR35 SS LATERAL. LATERAL SLOPE=0.01 FT/FT MIN. INSTALL 4" PVC TWO-WAY SS CLEAN-OUT IN CHRISTY FOB BOX WITH FOB LID MARKED "SEWER" CLEANOUT TO BE INSTALLED WITHIN THREE FEET OF THE EXTERIOR WALL OF THE HOME.
- (S07) 4" PVC SDR35 SEWER MAIN. SLOPE=0.01 FT/FT MIN.



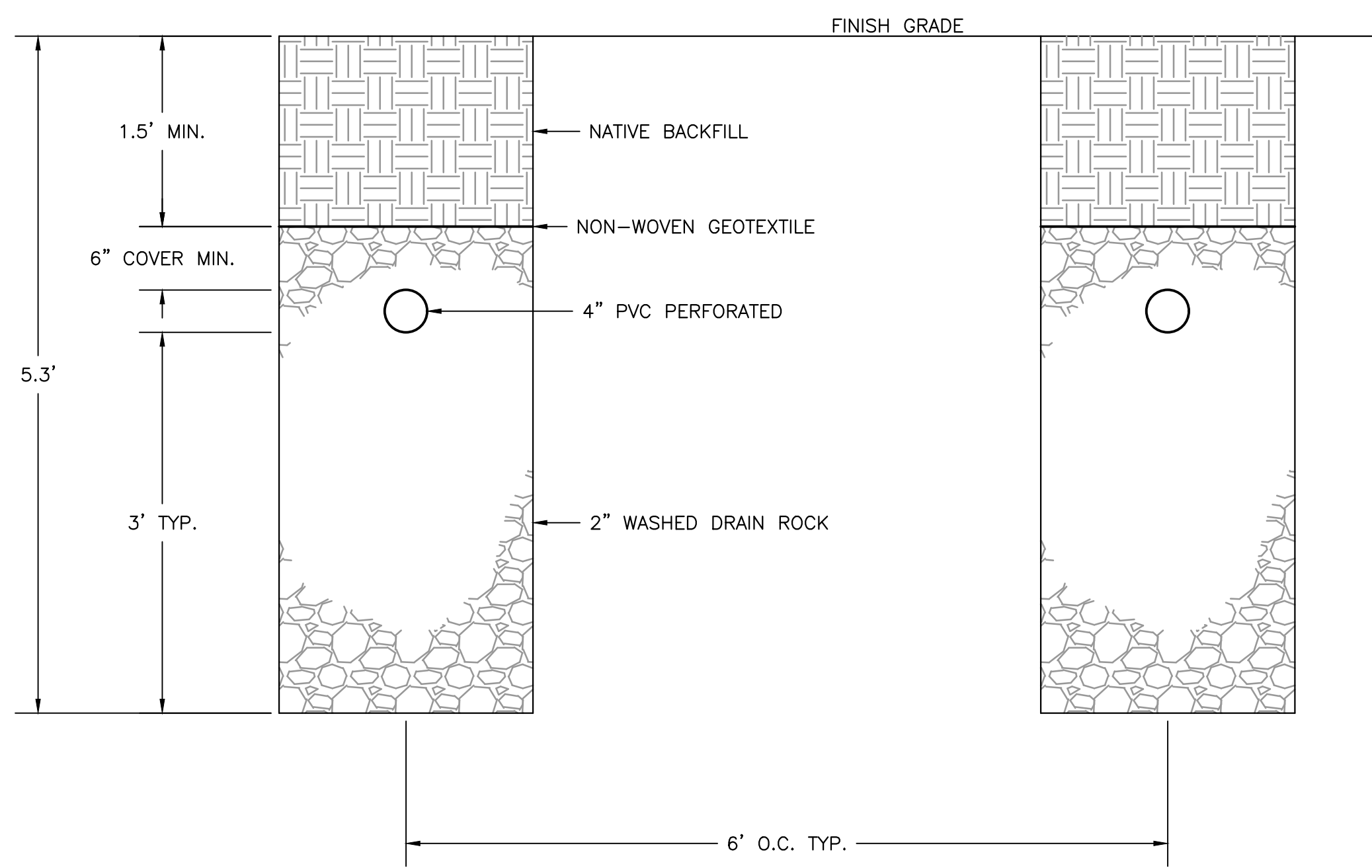
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KARUK TRIBE HOUSING AUTHORITY
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SANITARY SEWER PLAN
 APN: 529-111-007-000
 ORLEANS, HUMBOLDT COUNTY, CALIFORNIA

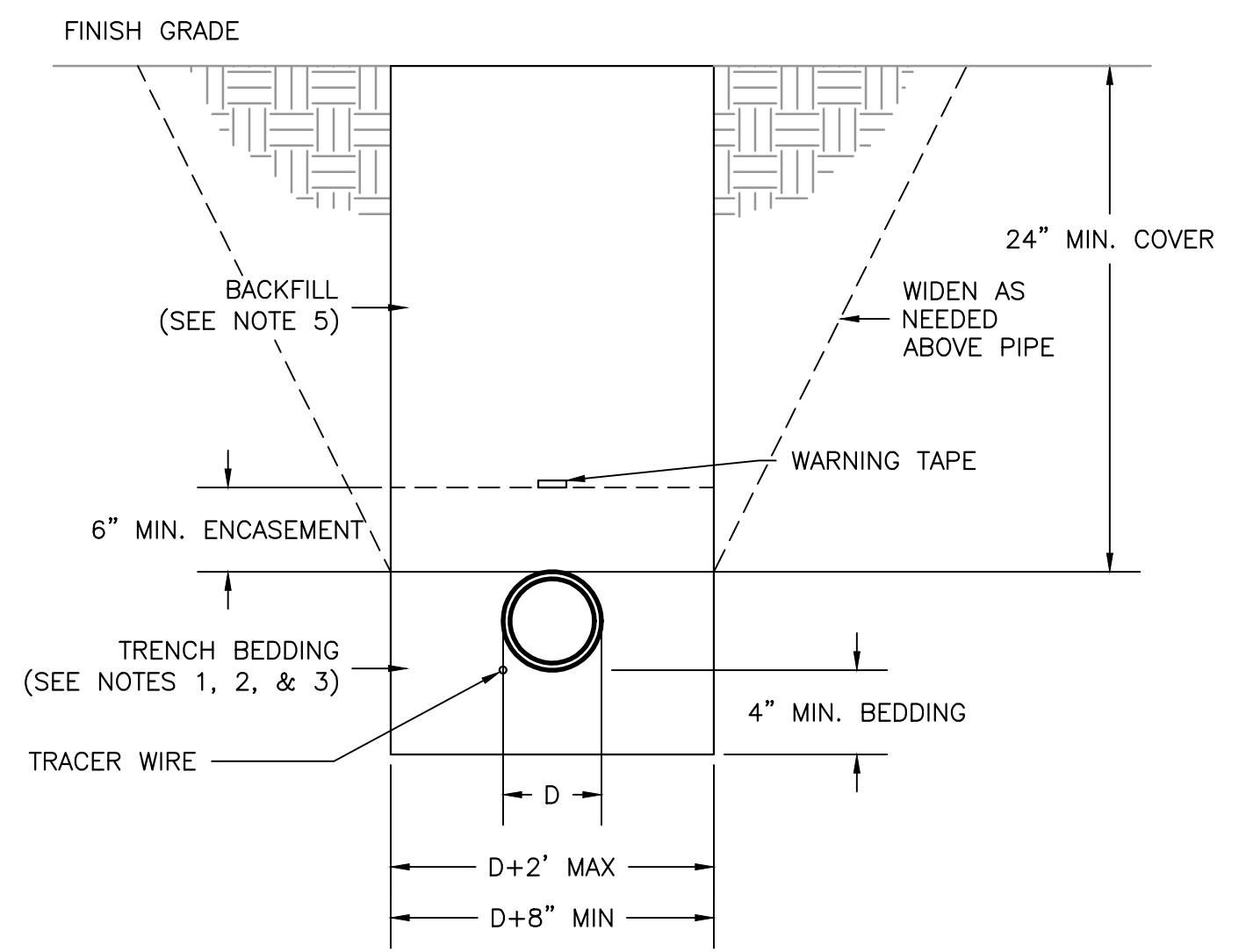
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LEACHATE FIELD - PLAN VIEW
 1" = 10'



LEACHFIELD TRENCH SECTION
 NTS



- PIPE TRENCH NOTES:**
- BACKFILL BY HAND, COMPACT OR CONSOLIDATE TO PROVIDE SOLID BEDDING UNDER AND AROUND PIPE.
 - BEDDING MATERIAL SHALL BE SAND OR CRUSHED ROCK AND SHALL HAVE A MAXIMUM SIZE OF 1" AND BE REASONABLY GRADED FROM COARSE TO FINE WITH A MINIMUM SAND EQUIVALENT OF 28.
 - IMPORT GRAVEL BACKFILL SHALL BE STREAM GRAVEL OR CRUSHED ROCK AND BE REASONABLY WELL GRADED FROM COARSE TO FINE WITH A MAXIMUM SIZE OF 3" AND A MINIMUM SAND EQUIVALENT GREATER THAN 28.
 - JETTING WILL NOT BE ALLOWED.
 - IN ROAD CROSSINGS BACKFILL ABOVE PIPE SHALL BE 3" MINUS CLASS 2 AGGREGATE BASE. BASE CONSOLIDATION SHALL BE 95% RELATIVE COMPACTION PER ASTM 2922. A 2-SACK CONCRETE SLURRY MAY BE USED IN PLACE OF AB. USE NATIVE FILL OTHERWISE.

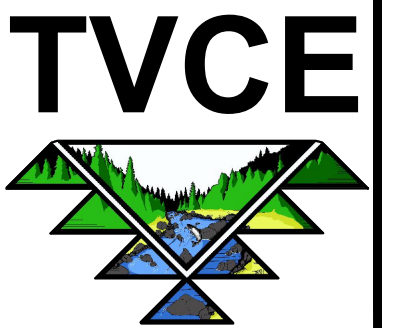
SUPPLY LINE TRENCH DETAIL
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NO.	DATE	REV.	DESCRIPTION	APP. BY
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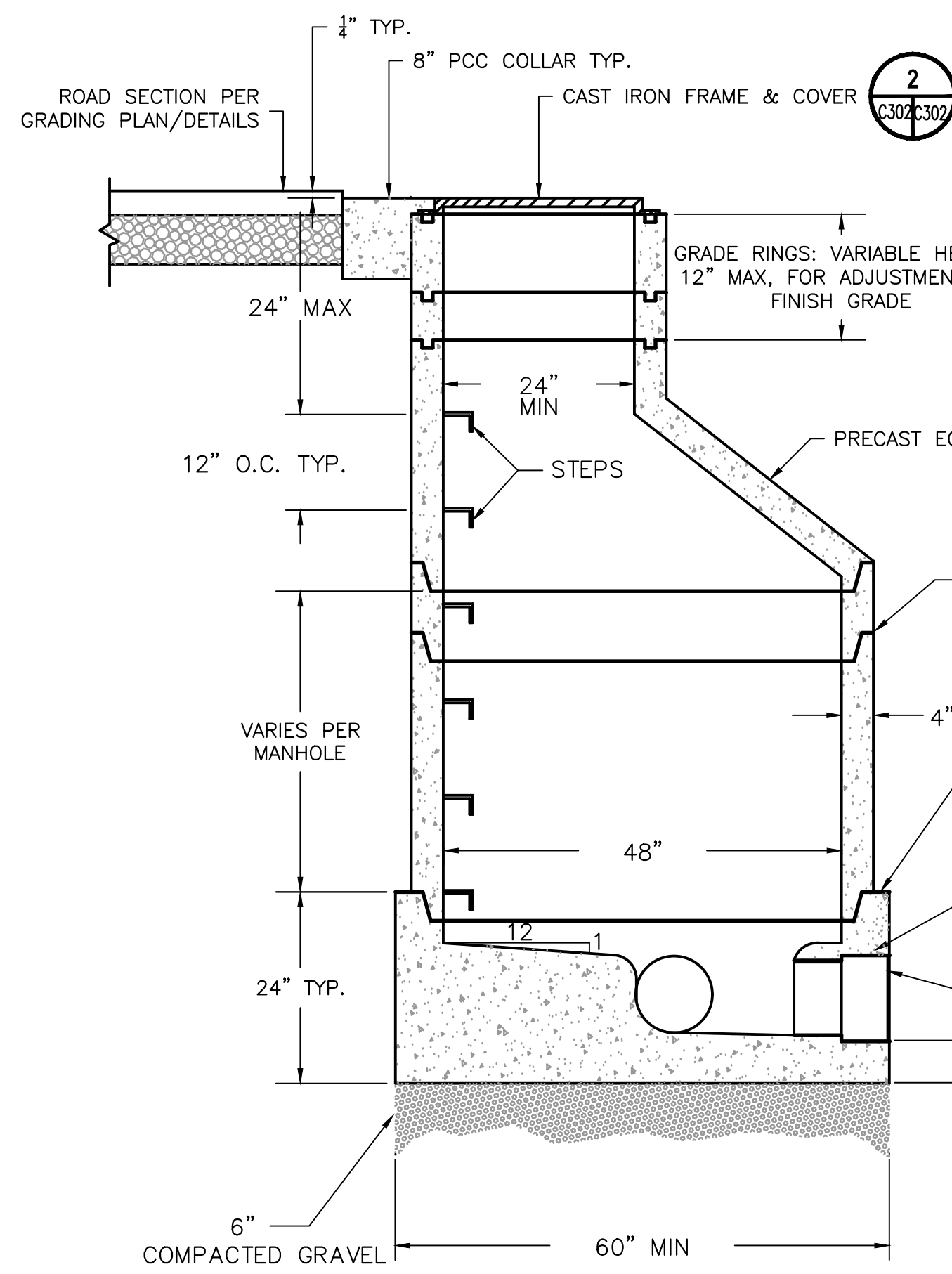
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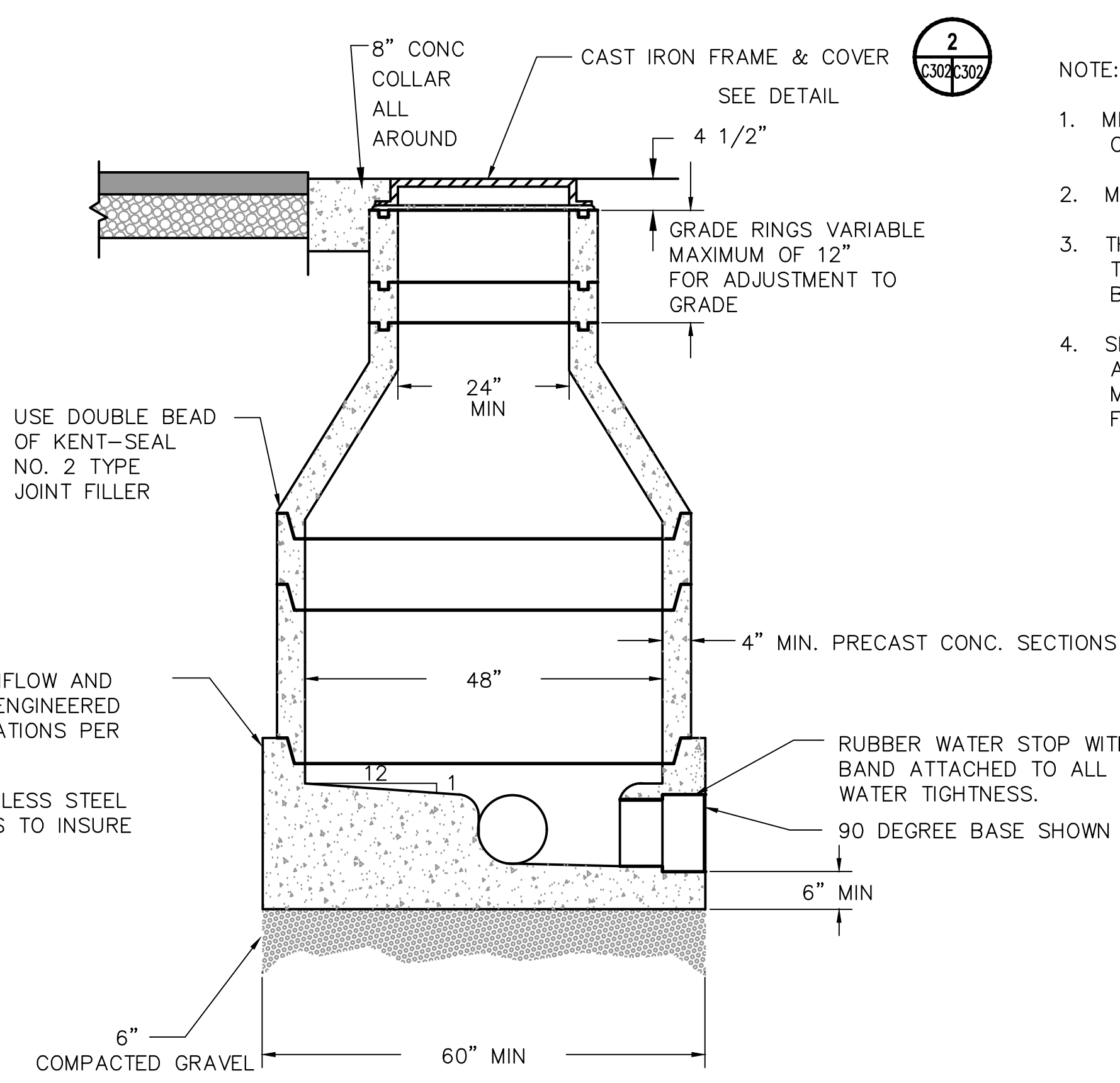
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**STANDARD MANHOLE
DETAIL**
NTS

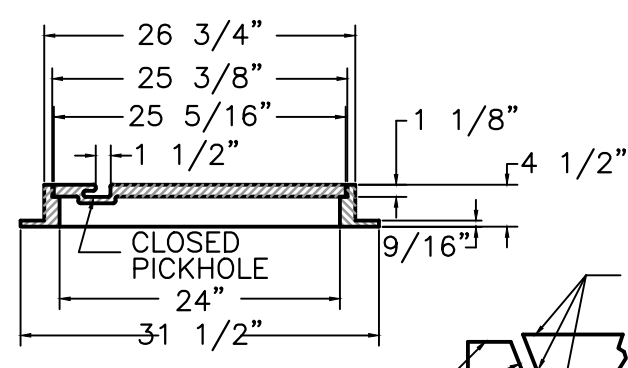
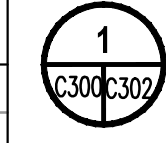


**SHALLOW MANHOLE
DETAIL**
NTS

NOTE:

1. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE - 3000 PSI
2. MANUFACTURED TO MEET ASTM C 478
3. THE MANHOLE BASE SHALL BE PRECAST TO 8" ABOVE THE BARREL OF THE MAIN SEWER
4. SHALLOW MANHOLE IS REQUIRED FOR ALL MANHOLES LESS THAN 5' IN DEPTH MEASURED FROM LINE OF FLOW TO FRAME RIM

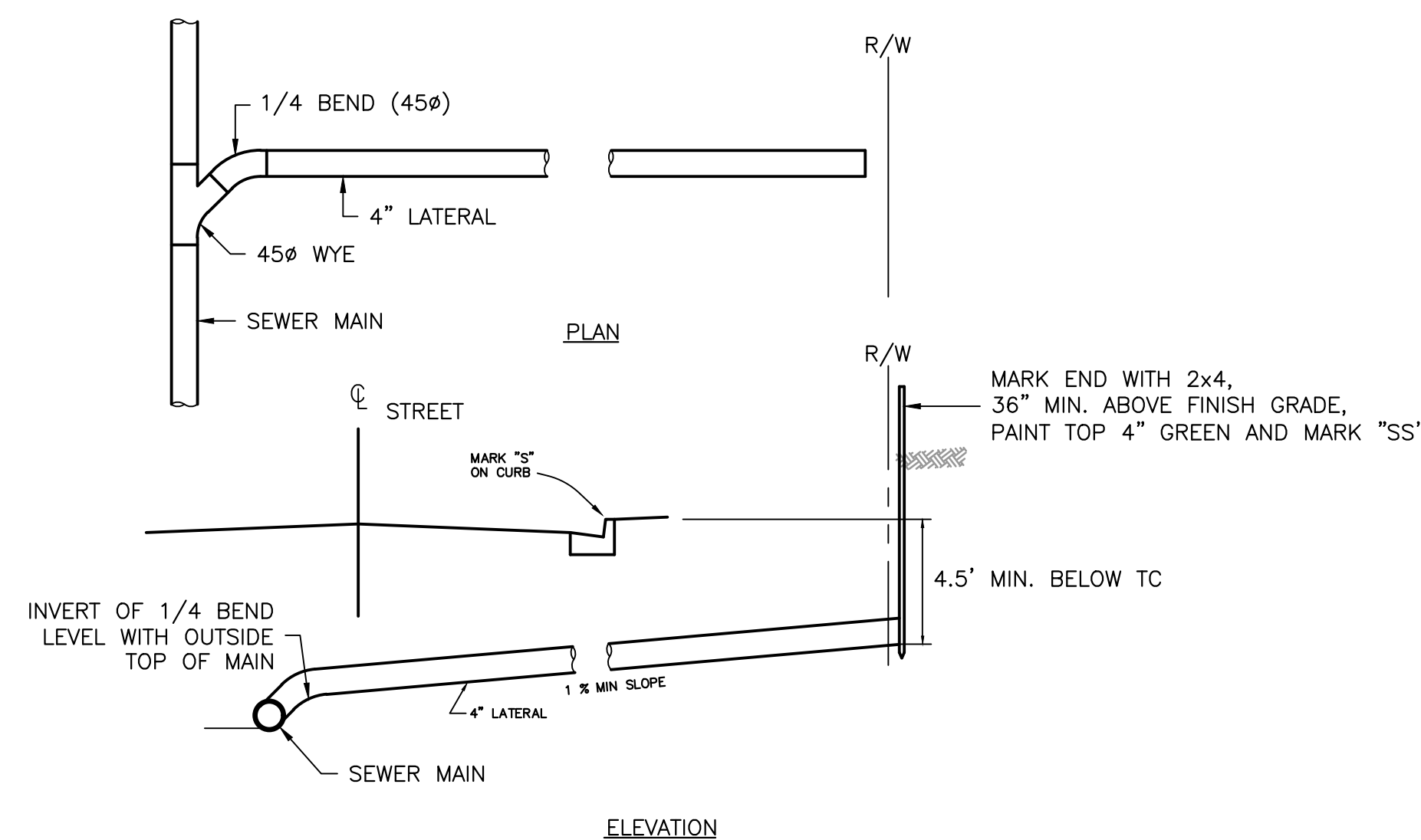
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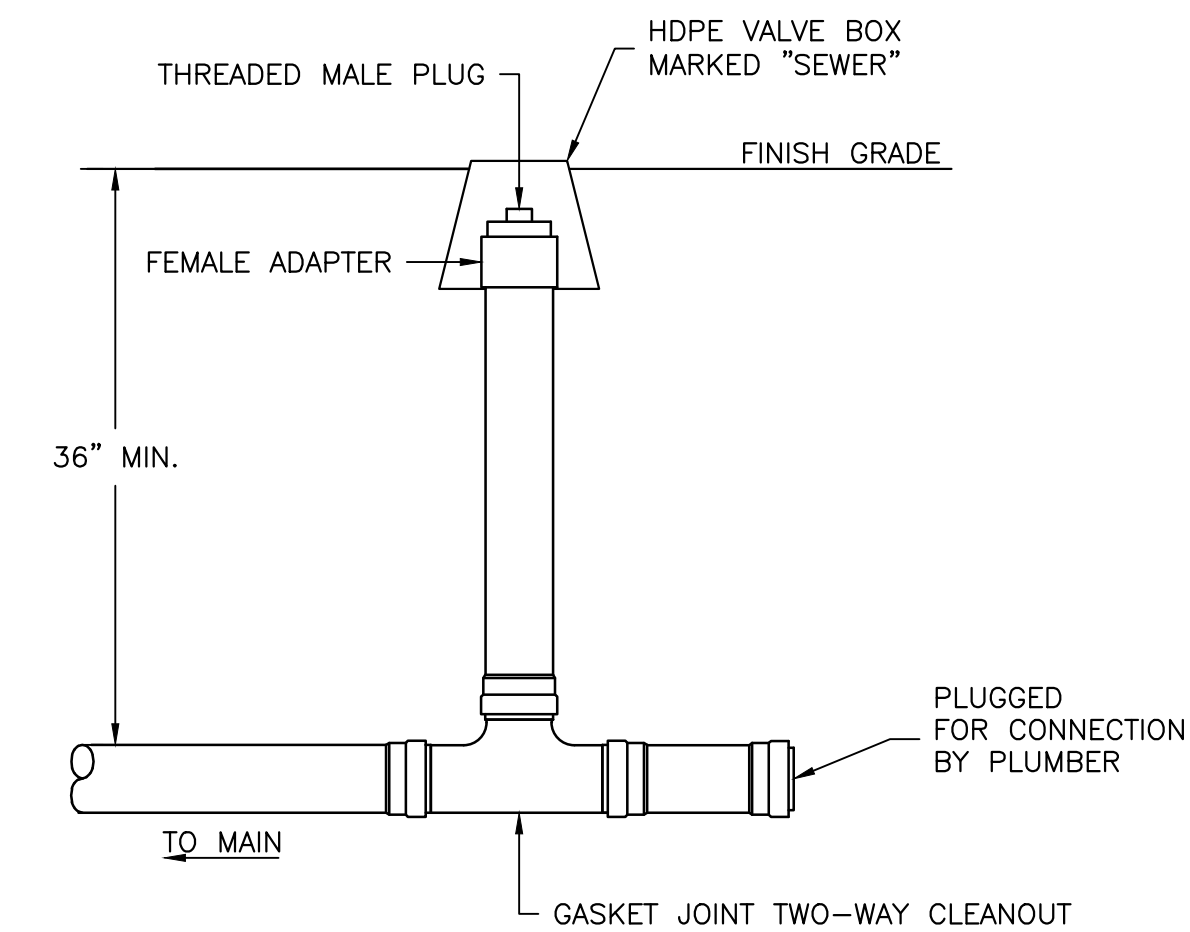
NOTES:

1. FRAME AND COVER FULLY MACHINED ON SURFACE, AS SHOWN, FOR PERFECT NO-ROCK, NO-STICK FIT.
2. STANDARD COVER MARKING: "SANITARY SEWER".
3. CASTING TO BE FURNISHED WITH BLEND PICKHOLES.
4. CASTINGS TO BE DIPPED IN ASPHALT PAINT.
5. ALL PARTS OF ACCEPTABLE ASSEMBLIES TO BE INTERCHANGEABLE.

ACCEPTABLE MANUFACTURERS
SOUTH BAY FOUNDRY
SFB1900 CPH
COVER 130 LBS
FRAME 140 LBS
D AND L SUPPLY
D&L A-1024
COVER 130 LBS
FRAME 150 LBS



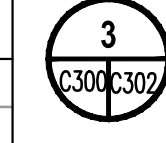
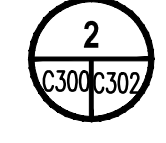
SS SERVICE LATERAL DETAIL
NTS



NOTES:

1. ALL PIPING AND FITTINGS TO BE PVC SDR 26.

SS TWO-WAY CLEANOUT DETAIL
NTS



SS MANHOLE LID DETAIL
NTS

NO.	DATE	DESCRIPTION	CHK BY	APP BY
1	12/18/2023	100% CD SET		
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KARUK TRIBE HOUSING AUTHORITY
SITE CIVIL IMPROVEMENT PLANS
SANITARY SEWER DETAILS
APN: 529-111-007-000
ORLEANS, HUMBOLDT COUNTY, CALIFORNIA

DATE OF ISSUE:
DECEMBER 2023

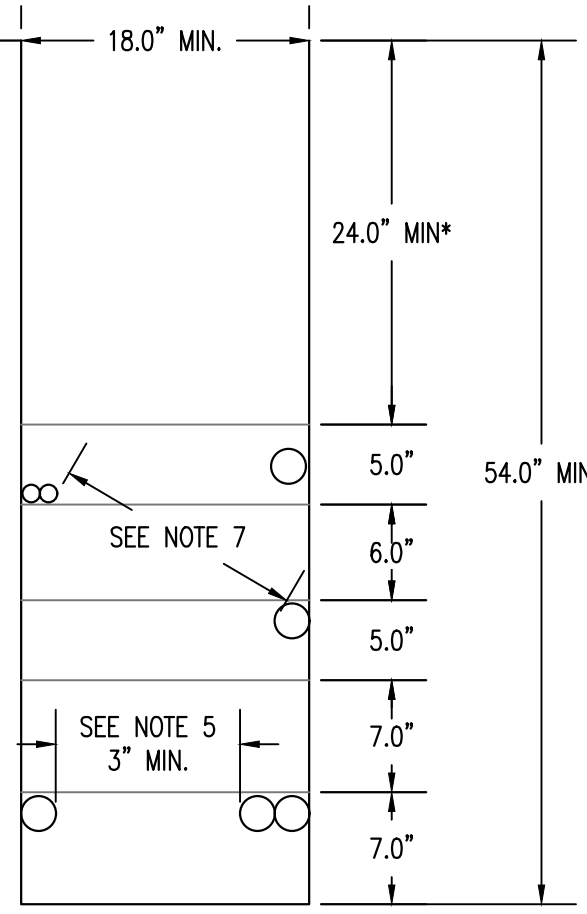
SCALE:
AS SHOWN

PROJECT NO:
0236.02

DRAWING NO:
C302

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PER PG&E GREENBOOK
EXHIBIT B, S5453

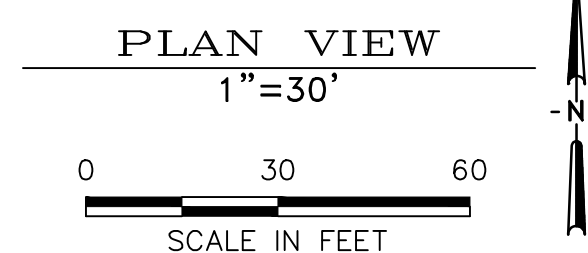


1. THE PREFERRED TRENCH LOCATION IS IN A PUBLIC UTILITY EASEMENT (PUE).
2. ALL DEPTHS AND RESULTING COVER REQUIREMENTS ARE MEASURED FROM FINAL GRADE.
3. CLEARANCES, AND SEPARATION SHELL BE AS GREAT AS PRACTICABLE UNDER THE CIRCUMSTANCES, BUT UNDER NO CIRCUMSTANCES SHALL BE LESS THAN THE MINIMUM COVER, CLEARANCE, AND SEPARATION REQUIREMENTS SET FORTH IN GENERAL ORDER 128 AND 49CFR 192.321, 49CFR 192.325, AND 49CFR 192.327. ALL FACILITIES SHALL BE ANCHORED IN PLACE PRIOR TO COMPACTION, OR OTHER MEANS SHALL BE TAKEN TO ENSURE NO MOTION OF THE FACILITIES, DIMENSIONAL REQUIREMENTS FOR SHADING, LEVELING, AND BACKFILLING SHALL BE DETERMINED SUBSEQUENT TO COMPACTION.
4. TRENCH DIMENSIONS SHOWN ARE TYPICAL. TRENCH SIZES AND CONFIGURATIONS MAY VARY DEPENDING UPON OCCUPANCY AND/OR FIELD CONDITIONS. TRENCH SIZE AND CONFIGURATIONS MUST AT ALL TIMES BE CONSTRUCTED IN A MANNER THAT ENSURES PROPER CLEARANCES AND COVER REQUIREMENTS ARE MET.
5. IT IS PREFERRED TO HAVE NON-PG&E OWNED STREETLIGHTS AT A LEVEL OTHER THAN THE GAS OR ELECTRIC LEVEL. NON-PG&E OWNED STREETLIGHTS MAY BE AT THE ELECTRIC LEVEL OF THE TRENCH AS LONG AS MINIMUM CLEARANCES ARE PROVIDED AND COMPLY WITH ALL SPECIAL NOTES FOR A JOINT TRENCH WITH A SECOND ELECTRIC UTILITY.
6. NON-UTILITY FACILITIES ARE NOT ALLOWED IN ANY JOINT UTILITY TRENCH, E.G., IRRIGATION CONTROL LINES, BUILDING FIRE ALARM SYSTEMS, PRIVATE TELEPHONE SYSTEMS, OUTDOOR ELECTRICAL CABLE, ETC.
7. WHEN COMMUNICATION DUCTS ARE INSTALLED, A MINIMUM OF 12" RADIAL SEPARATION SHALL BE MAINTAINED FROM GAS FACILITIES. EXCEPTION: WITH MUTUAL AGREEMENTS, WHEN 4-INCH DIAMETER OR SMALLER GAS PIPE IS INSTALLED, THE SEPARATION, MAY BE REDUCED TO NOT LESS THAN 6 INCHES.
8. PROVIDE SEPARATION FROM TRENCH WALL AND OTHER FACILITIES SUFFICIENT TO ENSURE PROPER COMPACTION.
9. MAINTAIN PROPER SEPARATION BETWEEN PG&E FACILITIES AND "WET" UTILITY LINES AS DESCRIBED IN UO STANDARD S5453. THE MINIMUM ALLOWABLE HORIZONTAL SEPARATION BETWEEN COMPANY FACILITIES AND "WET" FACILITIES IS 3' WITH A MINIMUM 1' OF UNDISTURBED EARTH OR THE INSTALLATION OF SUITABLE BARRIER BETWEEN THE FACILITIES. IF A 3' HORIZONTAL SEPARATION CANNOT BE APPROVED BY THE LOCAL INSPECTIONS SUPERVISOR AND SUBMITTED TO THE SERVICE PLANNING SUPPORT PROGRAM MANAGER FOR APPROVAL. SEPARATIONS OF 1' OR LESS ARE NOT PERMISSIBLE AND WILL NOT BE ALLOWED. THE COMPANY MAY AGREE TO WAIVE THE MINIMUM 3' SEPARATION REQUIREMENT AT THE REQUEST OF AN APPLICANT IF WARRANTED AND THE NEED JUSTIFIED. THE REQUEST FOR A WAIVER MUST:
 - 9.1. BE MADE IN WRITING AND SUBMITTED TO THE COMPANY ADE DURING THE PLANNING AND DESIGN PHASE OF THE PROJECT.
 - 9.2. CLEARLY DESCRIBE THE CONDITIONS NECESSITATING THE WAIVER.
 - 9.3. INCLUDE A PROPOSED DESIGN.
 - 9.4. AND, INCLUDE A DESIGN FOR A BARRIER BETWEEN THE "WET" UTILITIES AND COMPANY DRY FACILITIES IN THE EVENT 1' OF UNDISTURBED EARTH CANNOT BE MAINTAINED.
 - 9.5. NOTE: DRAIN LINES CONNECTED TO DOWNSPOUTS ON BUILDING ARE CONSIDERED A "WET" UTILITY FOR THE PURPOSES OF THIS STANDARD.
10. SEPARATIONS SHALL BE MAINTAINED AT ABOVEGROUND TERMINATIONS POINTS.

MINIMUM SEPARATIONS AND CLEARANCE REQUIREMENT

	G	DUCT T	DB T	C	S	P	SL
G (GAS) SEE NOTES 4, 7 & 13	-	12	12	12	6	12	6
T (TELEPHONE) DUCT	12	-	1	1	12	12	12
T (TELEPHONE) DIRECT BURY	12	1	-	1	12	12	12
C (CATV)	12	1	1	-	12	12	12
S (ELECTRIC SECONDARY)	6	12	12	12	1.5	3	1.5
P (ELECTRIC PRIMARY)	12	12	12	12	3	3	3
SL (STREETLIGHT) SEE NOTE 5	6	12	12	12	1.5	3	1.5
FE* (FOREIGN ELECTRIC SOURCES, NON-PG&E) SEE NOTE 5	12	12**	12**	12**	12	12	12

*MUST BE CONSIDERED A "UTILITY" AS DEFINED IN UTILITY STANDARD S5453, "JOINT TRENCH". NOTES 4, 5, 7 AND 13 ARE LOCATED IN UTILITY STANDARD S5453, EXHIBIT B, "JOINT TRENCH CONFIGURATIONS AND OCCUPANCY GUIDE".
**FOR EXCEPTIONS, REFER TO G.O. 128 RULE, SECTION B, ITEMS (1) AND (2)



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REGISTERED PROFESSIONAL ENGINEER
ROSAMBA T. McINTOSH
C60687
EXP. 12-31-2023
CIVIL
STATE OF CALIFORNIA

SS	JTM	FAM	FAM	12/18/2023	100% CD SET	DESCRIPTION	DATE	APP BY

KARUK TRIBE HOUSING AUTHORITY
SITE CIVIL IMPROVEMENT PLANS
SITE ELECTRIC & COM (CONCEPTUAL)
APN: 529-111-007-000
ORLEANS, HUMBOLDT COUNTY, CALIFORNIA

DATE OF ISSUE:
DECEMBER 2023
SCALE:
AS SHOWN
PROJECT NO:
0236.02
DRAWING NO:
C400

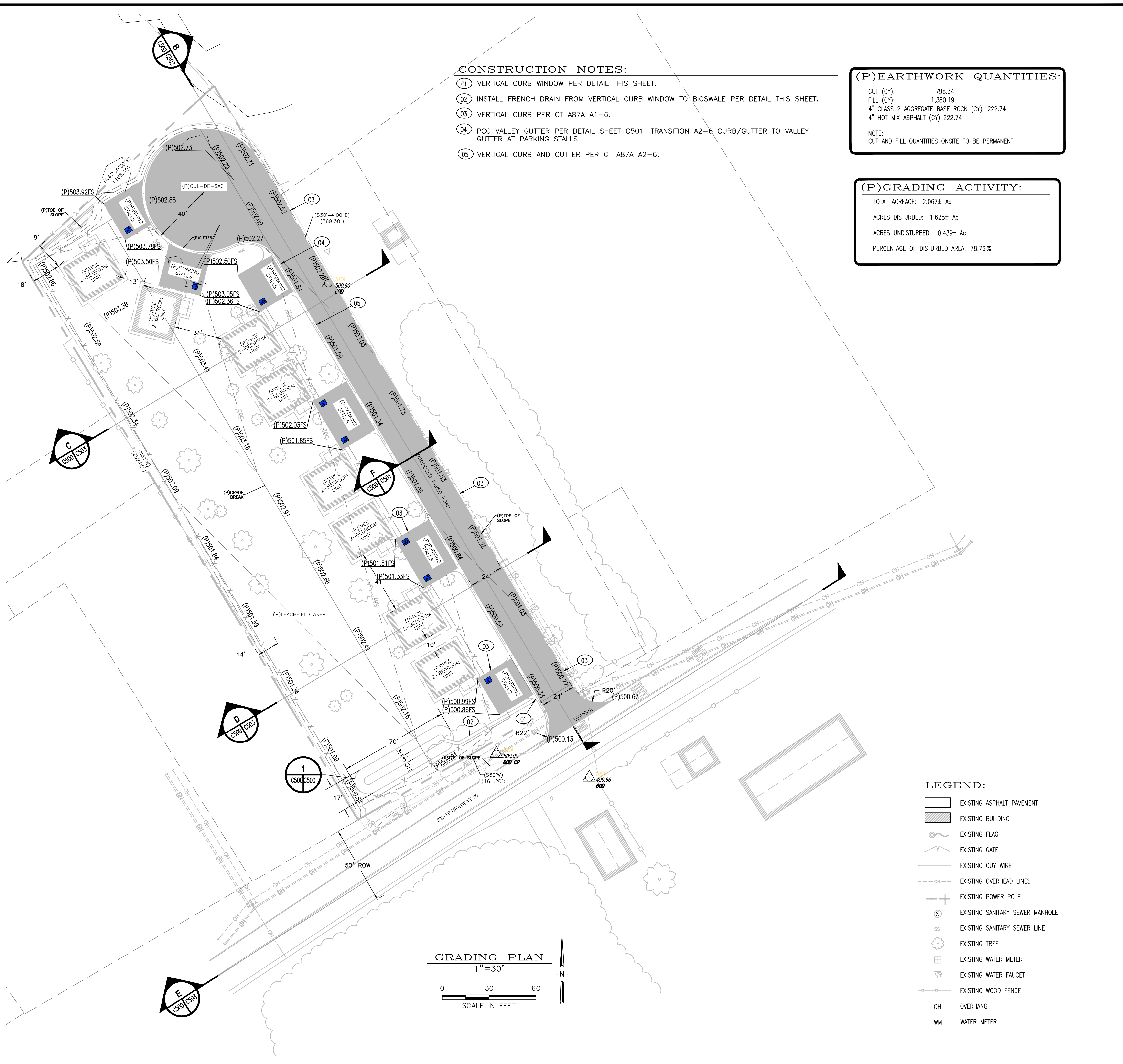
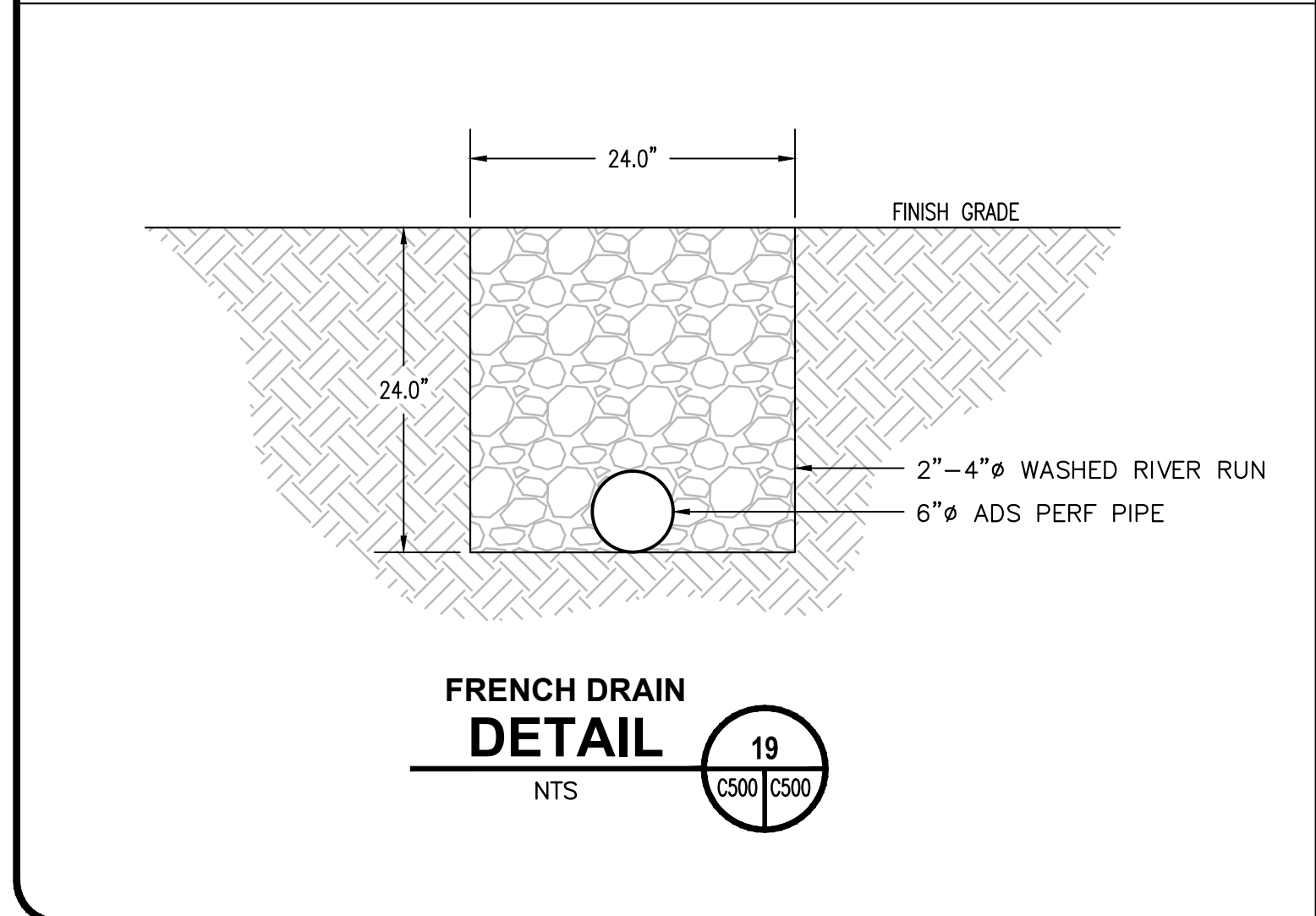
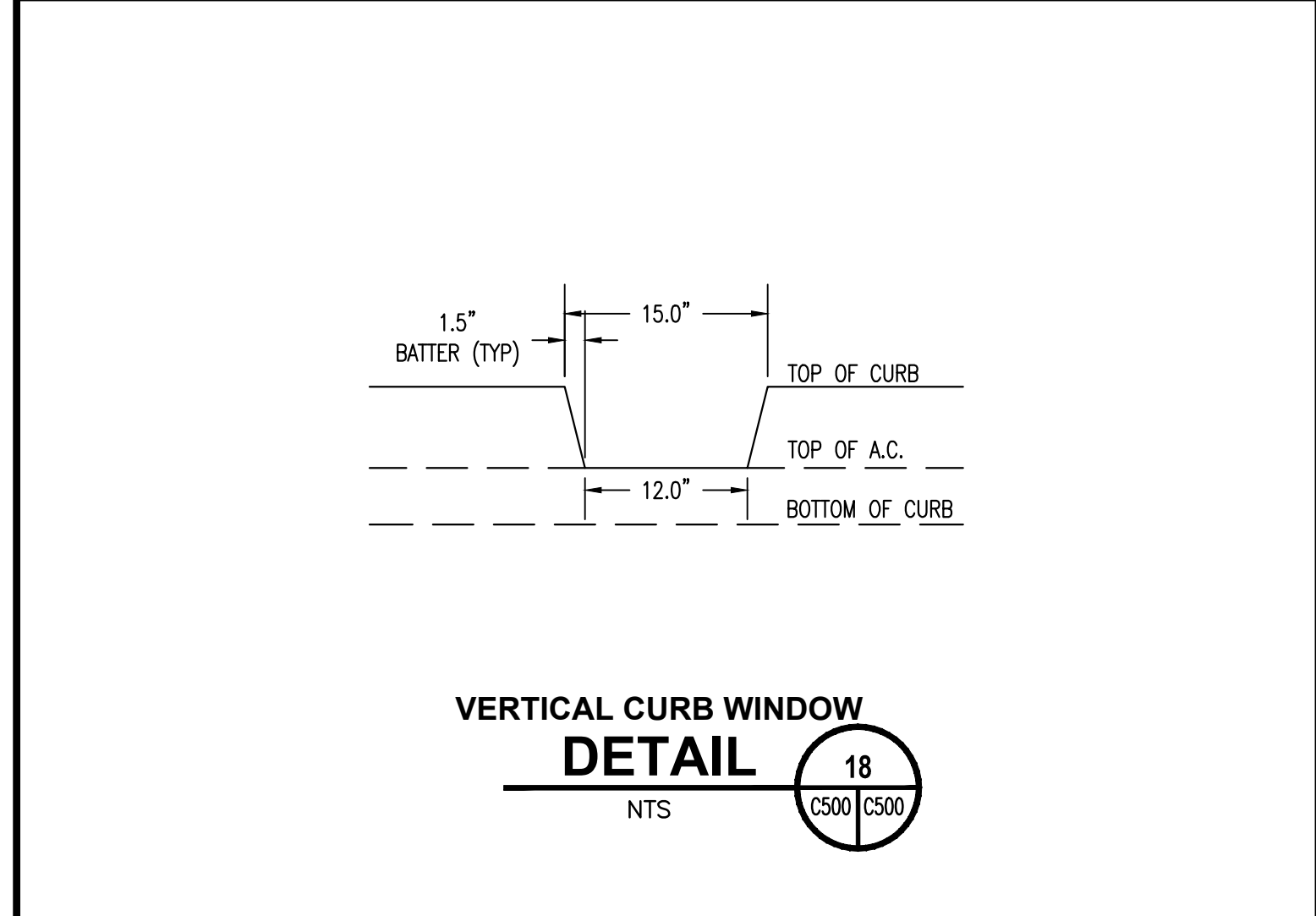
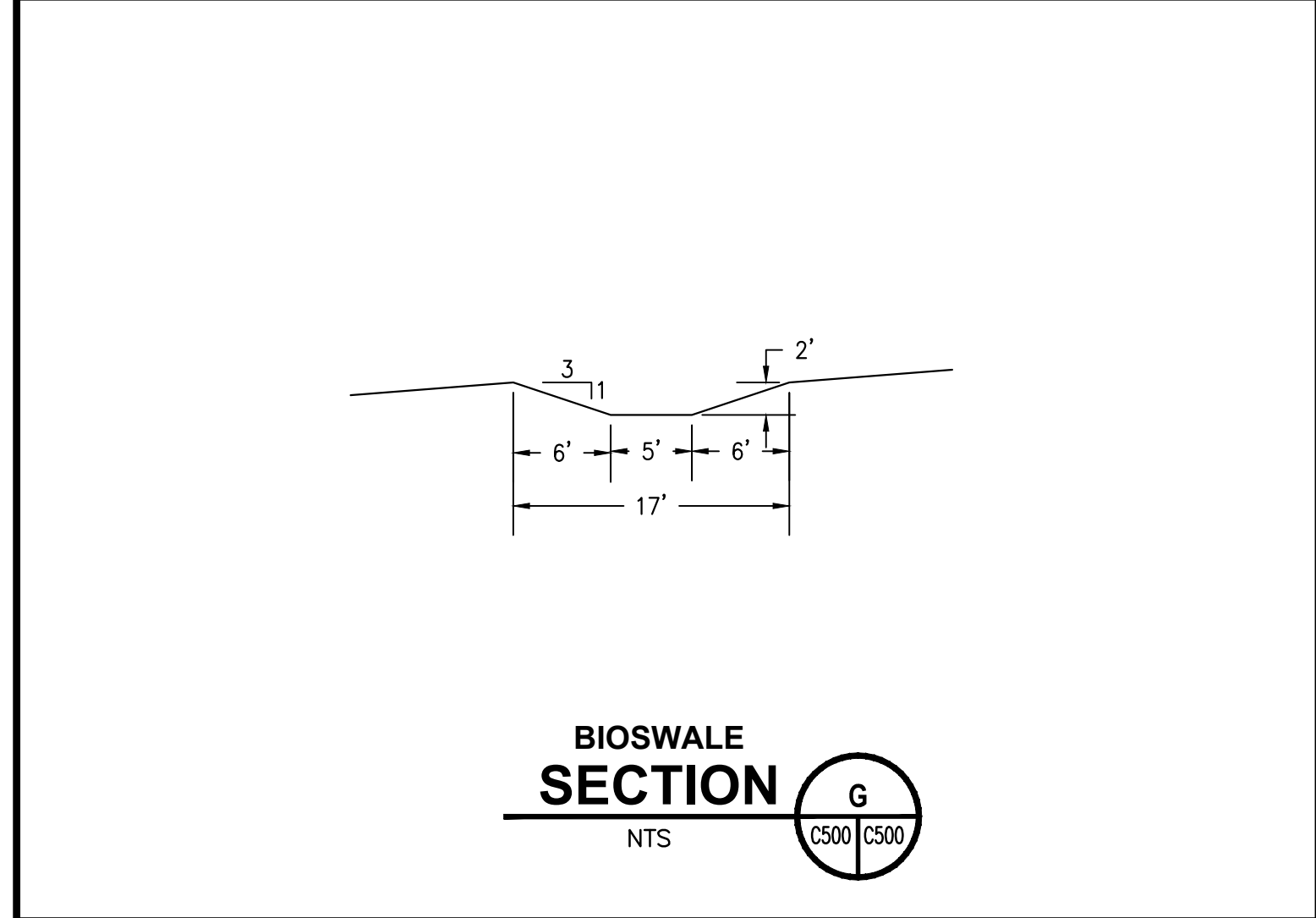
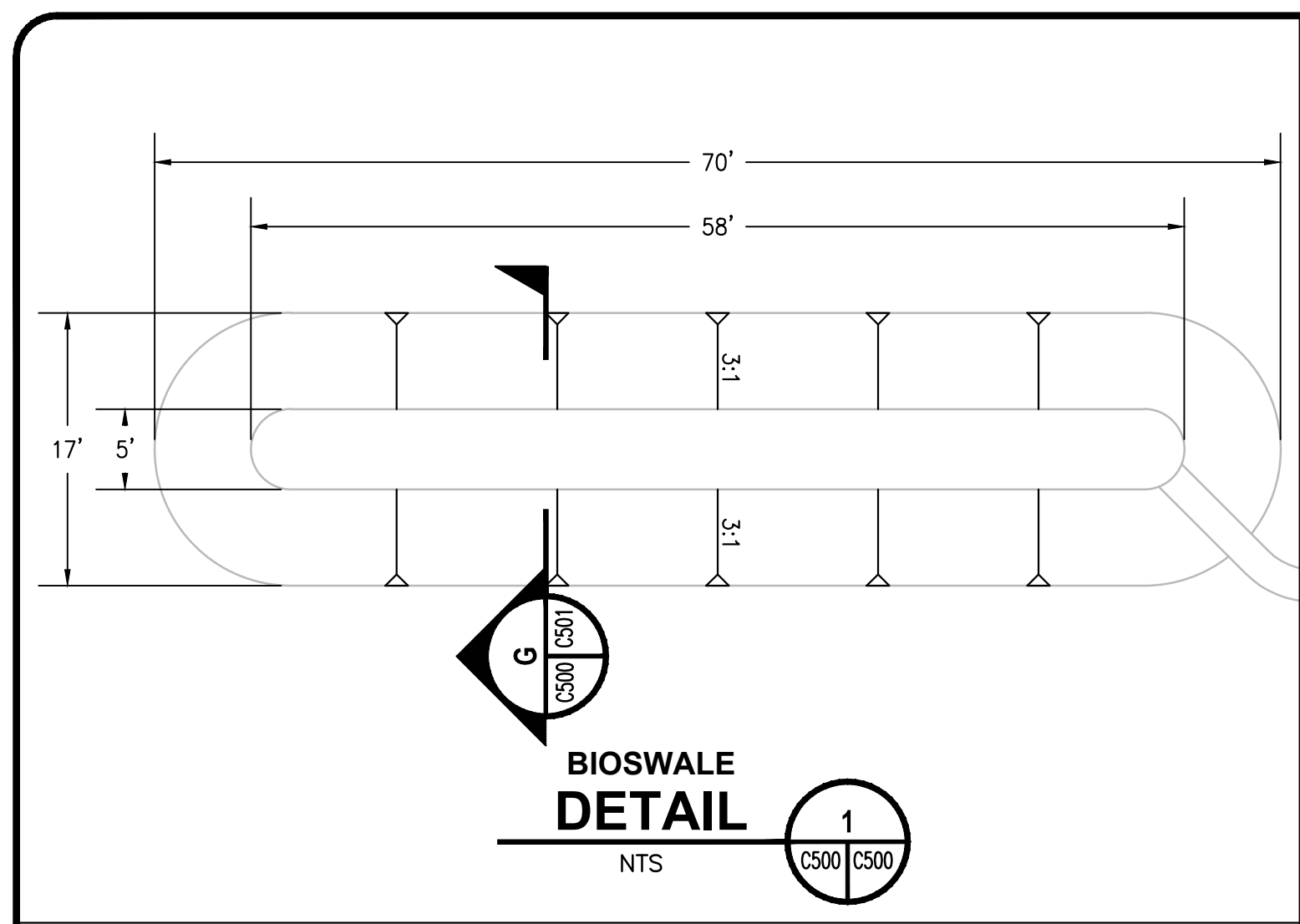
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12/18/2023				100%				

KARUK TRIBE HOUSING AUTHORITY
SITE CIVIL IMPROVEMENT PLANS
PROPOSED GRADING & DRAINAGE PLAN
APN: 529-111-007-000
ORLEANS, HUMBOLDT COUNTY, CALIFORNIA

DATE OF ISSUE:
DECEMBER 2023
SCALE:
AS SHOWN
PROJECT NO:
0236.02
DRAWING NO:
C500



- CONSTRUCTION NOTES:**
- 01 VERTICAL CURB WINDOW PER DETAIL THIS SHEET.
 - 02 INSTALL FRENCH DRAIN FROM VERTICAL CURB WINDOW TO BIOSWALE PER DETAIL THIS SHEET.
 - 03 VERTICAL CURB PER CT A87A A1-6.
 - 04 PCC VALLEY GUTTER PER DETAIL SHEET C501. TRANSITION A2-6 CURB/GUTTER TO VALLEY GUTTER AT PARKING STALLS
 - 05 VERTICAL CURB AND GUTTER PER CT A87A A2-6.

(P) EARTHWORK QUANTITIES:

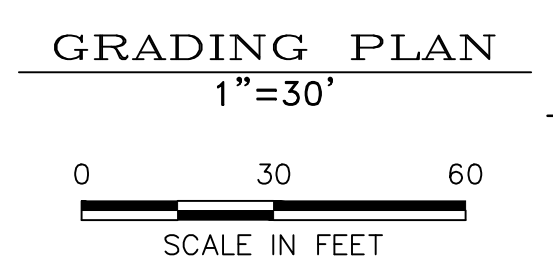
CUT (CY): 798.34
 FILL (CY): 1,380.19
 4" CLASS 2 AGGREGATE BASE ROCK (CY): 222.74
 4" HOT MIX ASPHALT (CY): 222.74

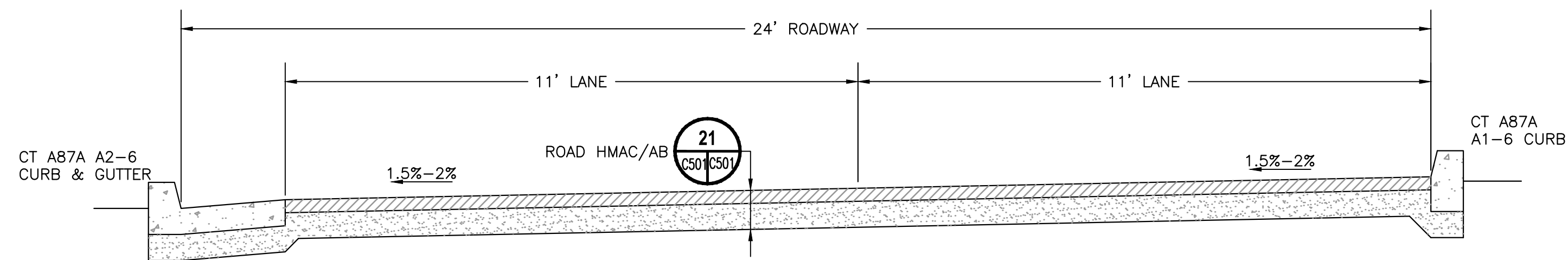
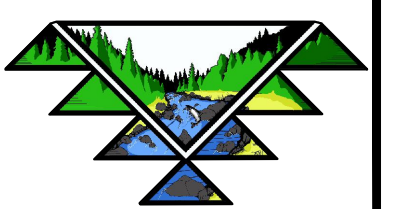
NOTE:
 CUT AND FILL QUANTITIES ONSITE TO BE PERMANENT

(P) GRADING ACTIVITY:

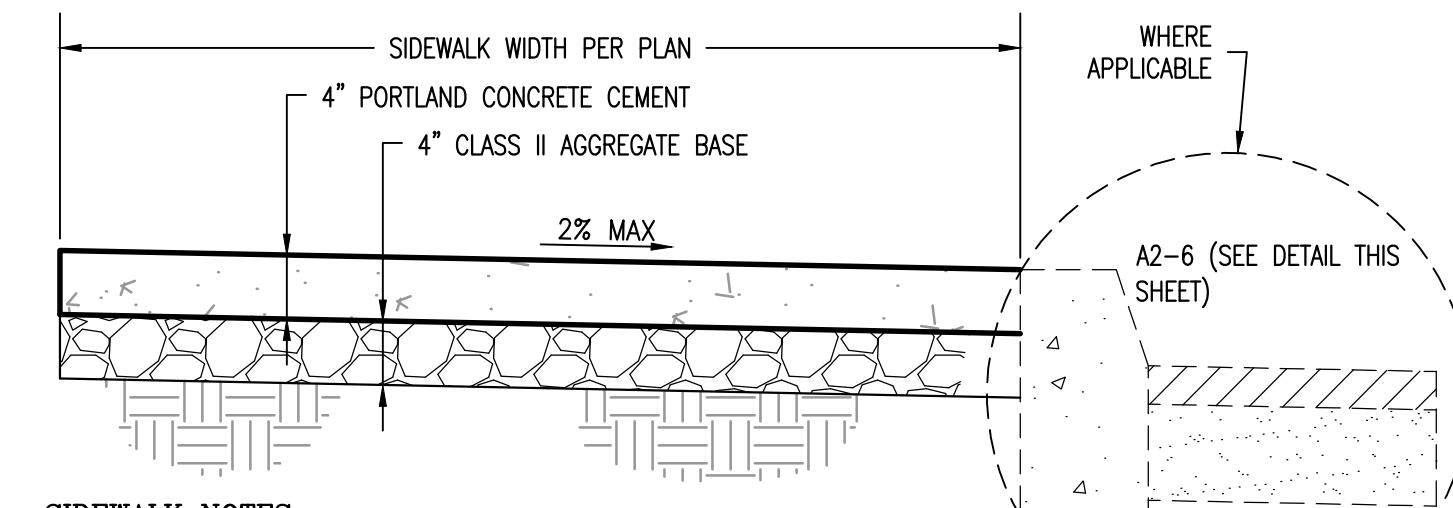
TOTAL ACREAGE: 2.067± Ac
 ACRES DISTURBED: 1.628± Ac
 ACRES UNDISTURBED: 0.439± Ac
 PERCENTAGE OF DISTURBED AREA: 78.76 %

- LEGEND:**
- EXISTING ASPHALT PAVEMENT
 - EXISTING BUILDING
 - EXISTING FLAG
 - EXISTING GATE
 - EXISTING GUY WIRE
 - EXISTING OVERHEAD LINES
 - EXISTING POWER POLE
 - EXISTING SANITARY SEWER MANHOLE
 - EXISTING SANITARY SEWER LINE
 - EXISTING TREE
 - EXISTING WATER METER
 - EXISTING WATER FAUCET
 - EXISTING WOOD FENCE
 - OH OVERHANG
 - WM WATER METER



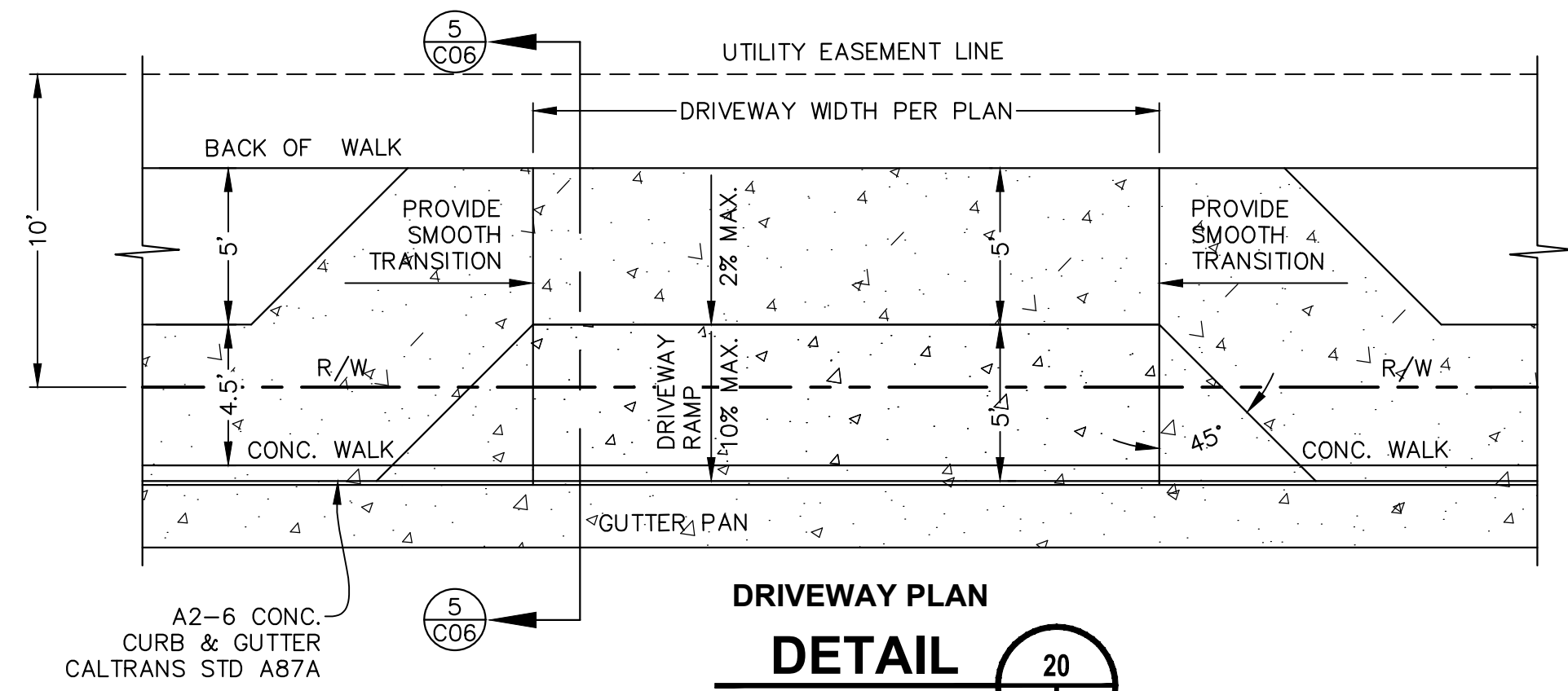


TYPICAL ROAD SECTION
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F
C500 C501

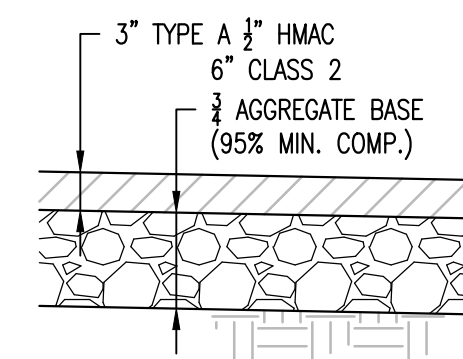


- SIDEWALK NOTES:**
- SIDEWALK TO BE BROOM FINISHED.
 - CONSTRUCT EXPANSION JOINT IN SIDEWALK SURFACE AT A MAXIMUM OF EVERY FIVE LINEAR FEET.

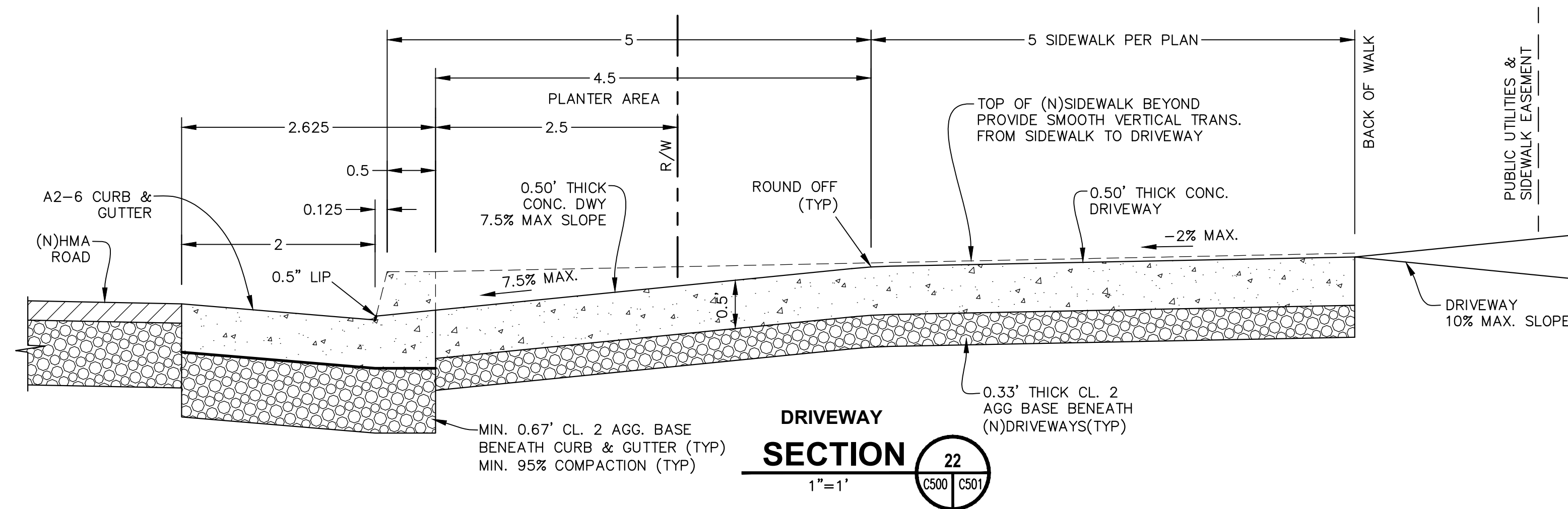
5' PCC SIDEWALK SECTION
NTS
19
C500 C501



DRIVEWAY PLAN DETAIL
1"=5'
20
C500 C501



TYP ROAD/PARKING HMA DETAIL
NTS
21
C501 C501

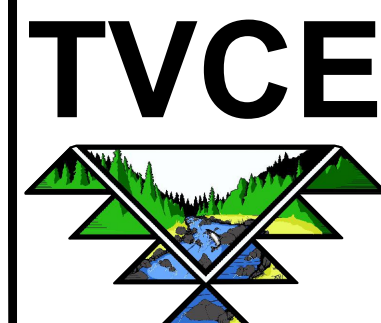


DRIVEWAY SECTION
1"=1'
22
C500 C501

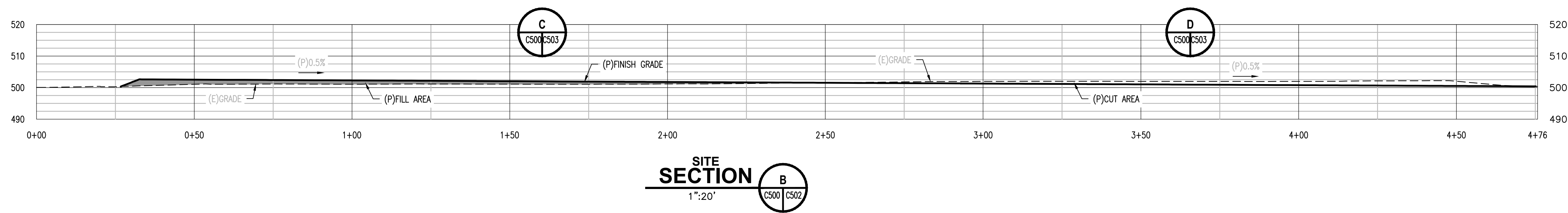
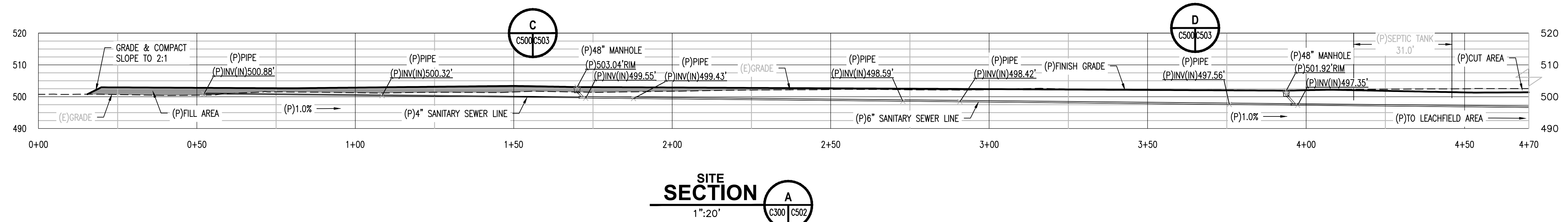
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KARUK TRIBE HOUSING AUTHORITY
SITE CIVIL IMPROVEMENT PLANS
GRADING DETAILS
APN: 529-111-007-000
ORLEANS, HUMBOLDT COUNTY, CALIFORNIA

DATE OF ISSUE:	DECEMBER 2023
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PROJECT NO:	0236.02
DRAWING NO:	C501



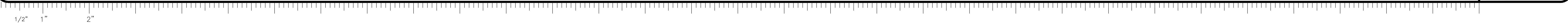
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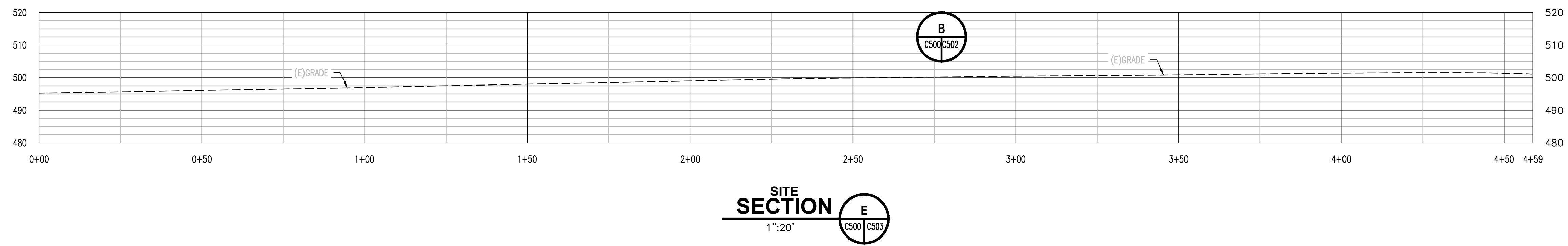
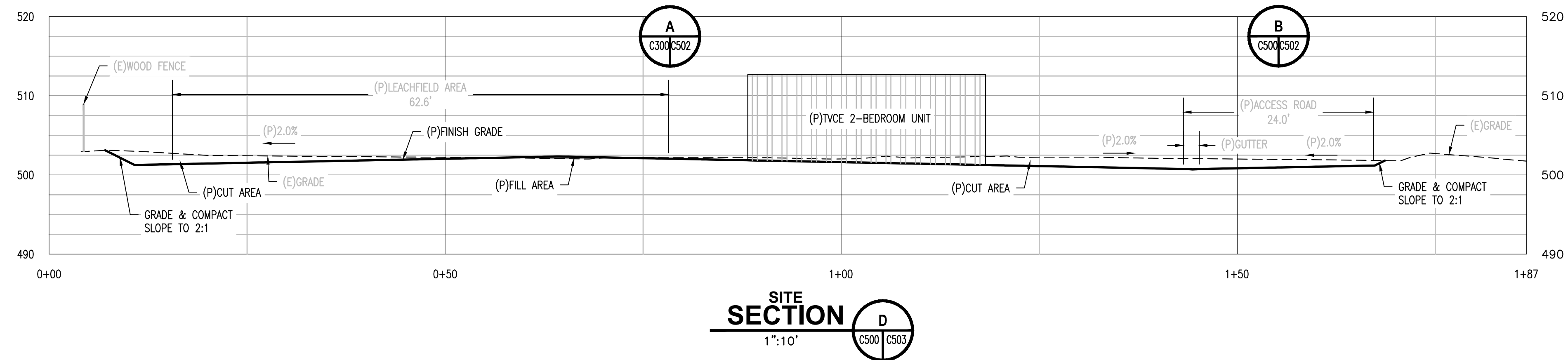
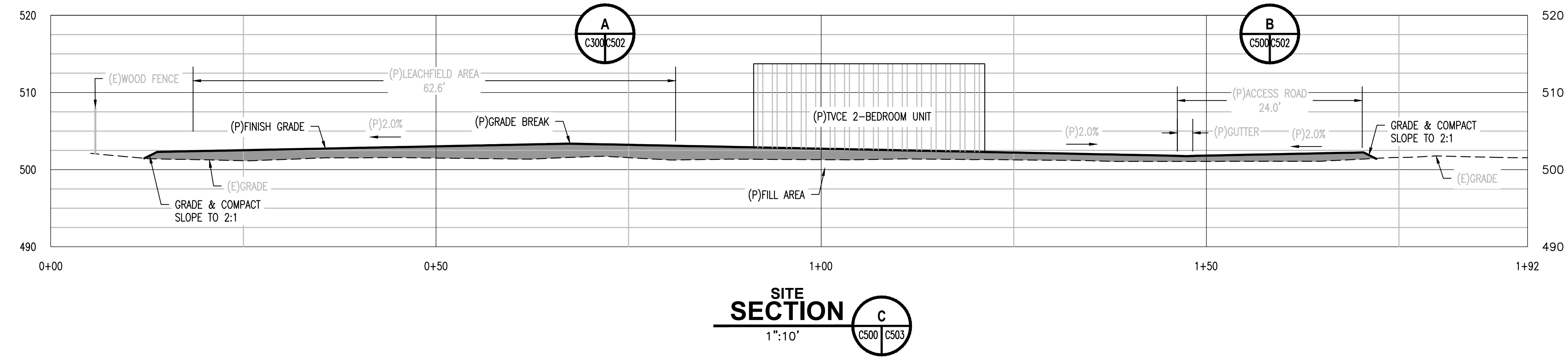


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KARUK TRIBE HOUSING AUTHORITY
SITE CIVIL IMPROVEMENT PLANS
GRADING SECTIONS
APN: 529-111-007-000
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PROJECT NO: 0236.02
DRAWING NO: C502





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KARUK TRIBE HOUSING AUTHORITY
 SITE CIVIL IMPROVEMENT PLANS
GRADING SECTIONS
 APN: 529-111-007-000
 ORLEANS, HUMBOLDT COUNTY, CALIFORNIA

DATE OF ISSUE:
DECEMBER 2023

SCALE:
AS SHOWN

PROJECT NO:
0236.02

DRAWING NO:
C503

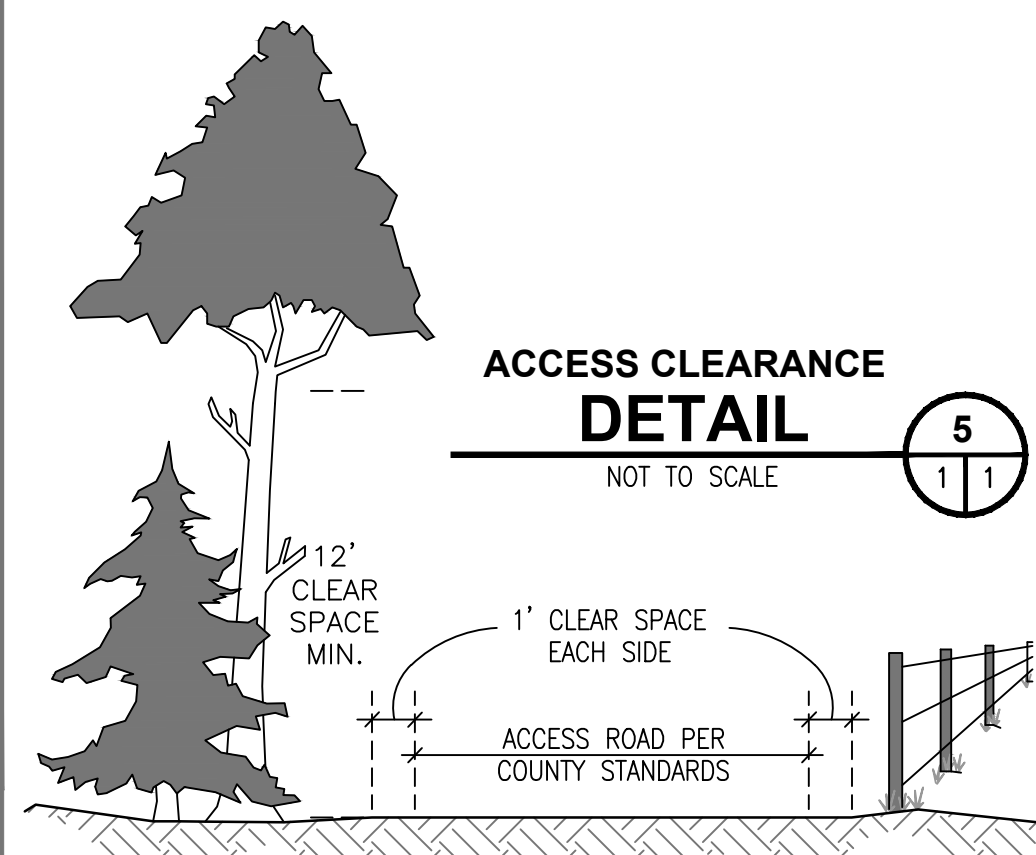
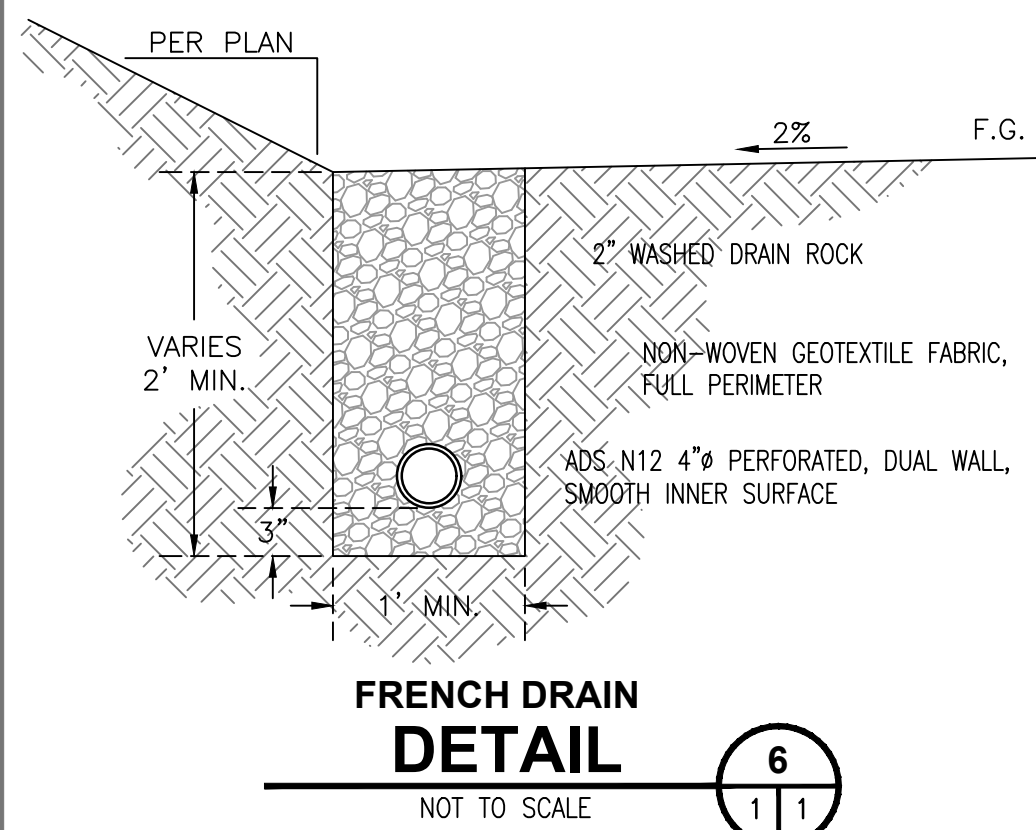
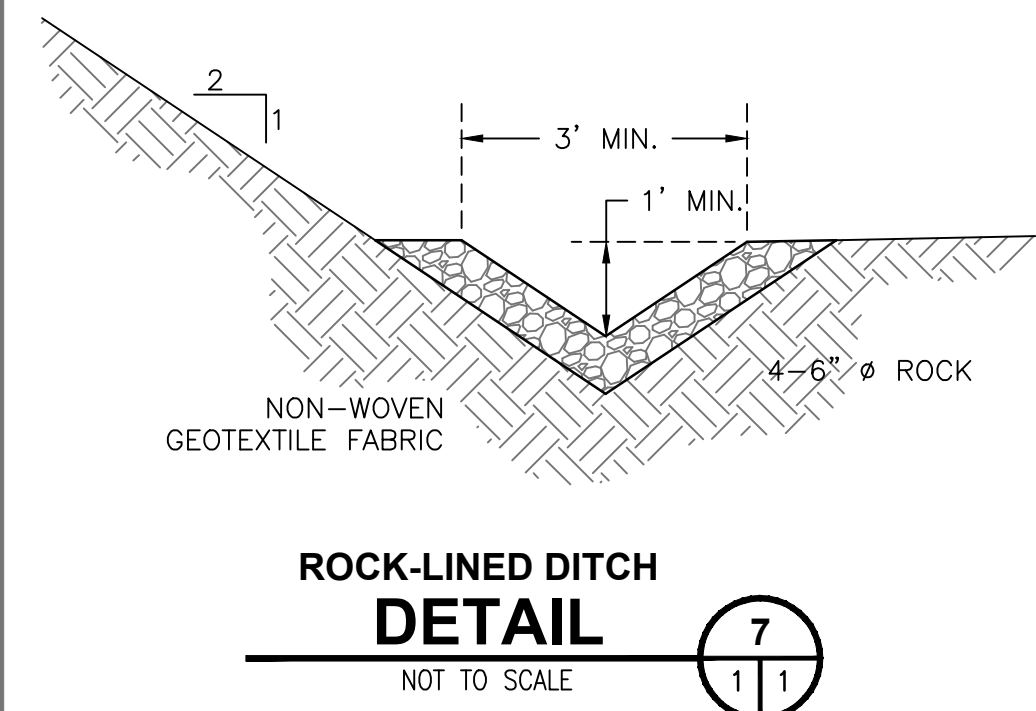
GRADING NOTES:

- ALL EARTHWORK, INCLUDING BUT NOT LIMITED TO, SITE CLEARING, GRUBBING, STRIPPING, AND GRADING WILL BE CONDUCTED DURING DRY WEATHER CONDITIONS. (TYPICALLY APRIL 15 TO OCTOBER 15)
- ANY UNDOCUMENTED FILL SOILS, FINE-GRAINED RESIDUAL SOILS, AND ANY OTHER DEBRIS ENCOUNTERED AT OR BELOW THE EXISTING GROUND SURFACE SHALL BE REMOVED AT THE LOCATIONS RECEIVING ANY POTENTIAL FILLS.
- THE SITE SHOULD BE GRADED TO PROVIDE ADEQUATE DRAINAGE SUCH THAT NO WATER IS ALLOWED TO POND ANYWHERE ON THE SITE OR MIGRATE BENEATH FUTURE DEVELOPMENTS.
- ALL FILL MATERIAL SHALL BE PLACED IN HORIZONTAL LIFTS NOT TO EXCEED EIGHT INCHES (8") IN DEPTH AND SHALL BE COMPACTED MECHANICALLY.
- ALL FILL MATERIAL SHALL BE FREE OF ORGANICS, ROCKS LARGER THAN 3"Ø, WOODY DEBRIS, ROOTS, AND INORGANIC MATERIAL.
- ALL FILL MATERIAL SHALL HAVE A UNIFORM MOISTURE CONTENT AT OR NEAR OPTIMUM MOISTURE CONTENT AS DETERMINED BY TESTING AND APPROVED BY THE ENGINEER.
- NON-STRUCTURAL FILL SHALL BE COMPACTED MECHANICALLY TO A FIRM UNYIELDING SURFACE AS APPROVED BY THE ENGINEER.
- COMPACTION TESTING WILL BE DETERMINED AT THE ENGINEER'S DISCRETION.
- IT IS RECOMMENDED THAT ANY MATERIAL PROPOSED FOR STRUCTURAL FILL MATERIAL TO SUPPORT ANY FOUNDATIONS OR STRUCTURAL BUILDING ELEMENT AND ASSOCIATED UTILITIES BE COMPACTED AS OUTLINED IN THE SOILS REPORT.
- ALL FILL SLOPES SHALL BE TO A SMOOTH AND EVEN GRADE, SHALL BE SURFACE TRACKWALKED, AND FINAL GRADES NOT TO EXCEED 2:1 (h:v), WITHOUT ENGINEER APPROVAL.
- SUFFICIENT TESTING AND INSPECTION SHOULD BE PERFORMED TO MONITOR THE SUITABILITY OF FILL MATERIALS AND ASSURE COMPLIANCE WITH THE RECOMMENDED COMPACTION STANDARDS.

CLEARING, GRUBBING, & DEMOLITION NOTES:

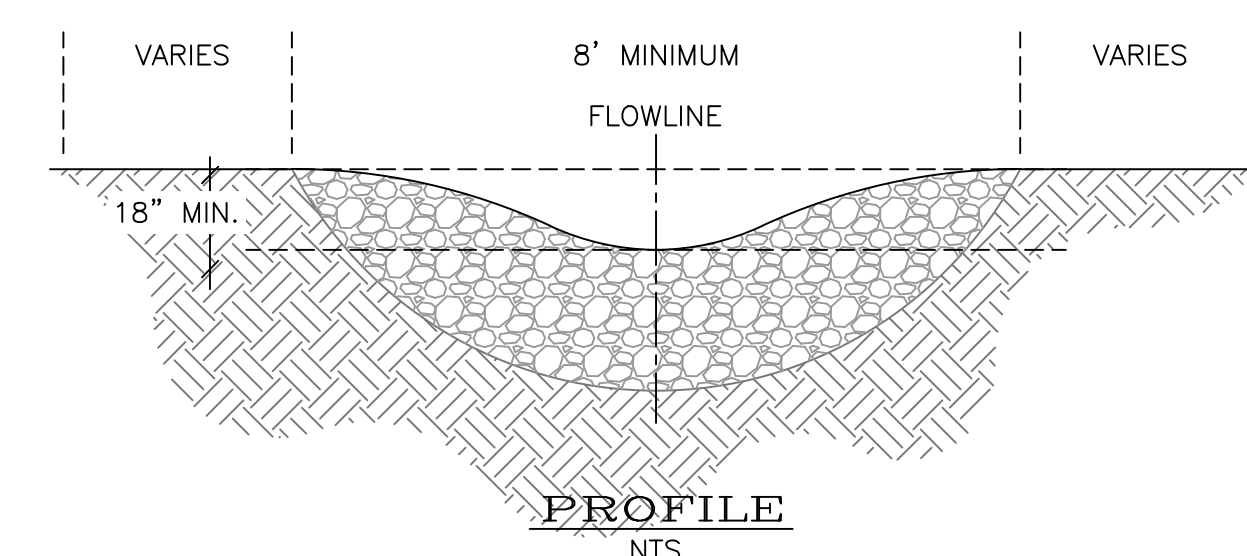
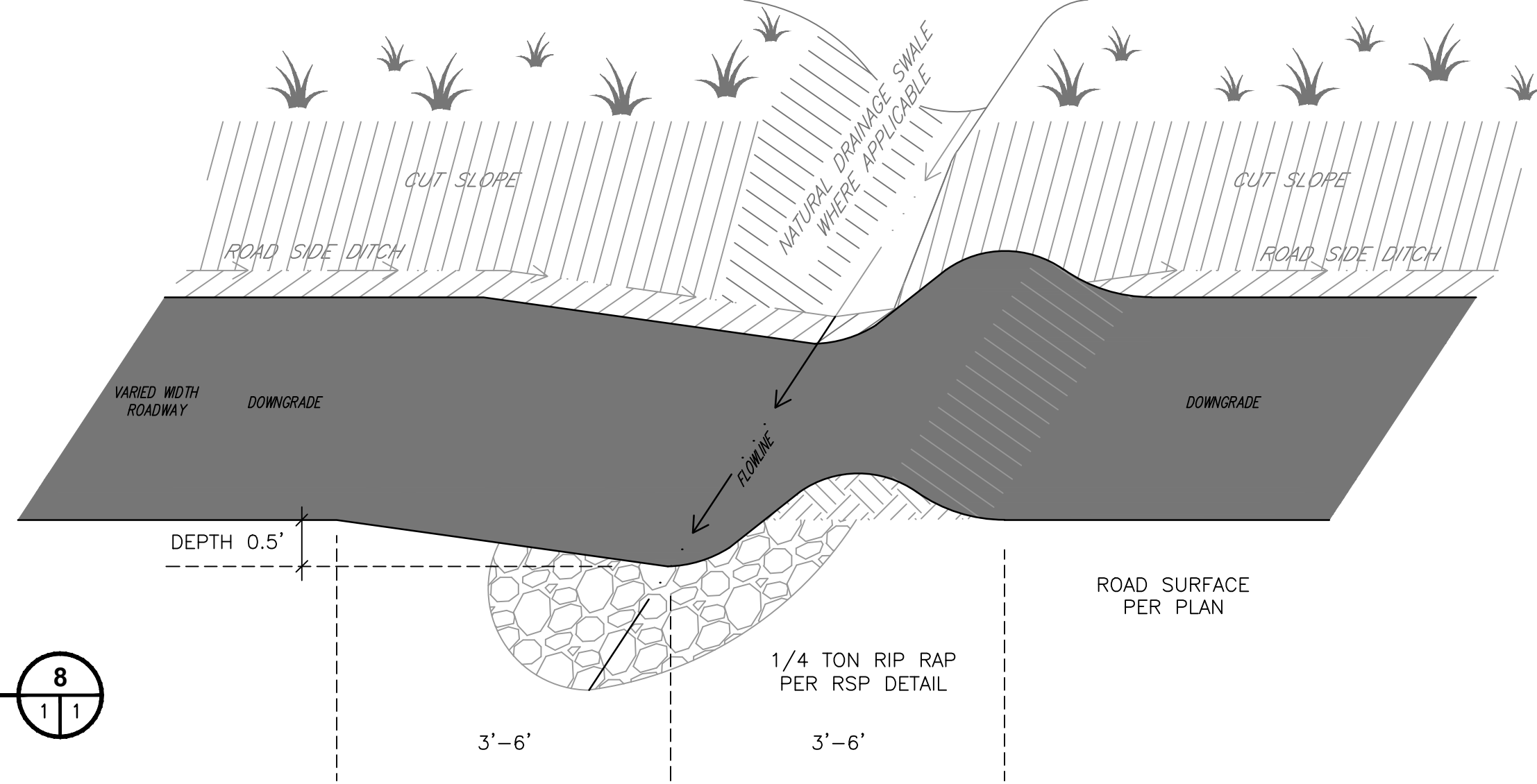
- TREES SCHEDULED TO BE REMOVED SHALL BE REMOVED COMPLETELY INCLUDING STUMPS, ROOTS, BRANCHES, WOODY DEBRIS, BARK, AND FLESH. TREES SHALL BE REMOVED FROM THE SITE AND DEPOSITED IN LOCATIONS DESIGNATED BY THE OWNER.
- VEGETATION AND WOODY DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A MANNER CONSISTENT WITH APPLICABLE LAWS AND REGULATIONS.
- ALL GENERATED AND ACCUMULATED CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A MANNER CONSISTENT WITH APPLICABLE LAWS AND REGULATIONS.
- ALL AREAS WITH GENERATED VOIDS FROM DEMOLITION ACTIVITIES SHALL BE BACKFILLED WITH NATIVE SOIL TO FINISH GRADE IN 1' MAXIMUM VERTICAL LIFTS SUFFICIENTLY COMPACTED TO ELIMINATE SUBSIDENCE.
- DUST CONTROL SHALL BE MAINTAINED DURING DEMOLITION PRACTICES.
- TRACKING OF MATERIAL FROM THE SITE ONTO EXISTING ROADWAYS WILL NOT BE TOLERATED. TEMPORARY CONSTRUCTION SITE ENTRANCES SHOULD BE BUILT AT POINTS OF INTERSECTION TO EXISTING ROADWAYS AND PRACTICES SHOULD BE IMPLEMENTED TO REMOVE CONSTRUCTION MATTER FROM VEHICLES AND EQUIPMENT PRIOR TO LEAVING THE CONSTRUCTION SITE.
- EROSION CONTROL MEASURES SHALL BE IMPLEMENTED FOR THE SITE AS SOON AS PRACTICAL AND SHALL BE IN PLACE PRIOR TO EXECUTION OF MAJOR DEMOLITION OPERATIONS.

FILL PLACEMENT LOCATION	COMPACTION RECOMMENDATIONS (ASTM D 1557—MODIFIED PROCTOR)	MOISTURE CONTENT (PERCENT OPTIMUM)
STRUCTURAL FILL SUPPORTING FOOTING	90%	-1 TO +3 PERCENT
STRUCTURAL FILL SUPPORTING SLABS—ON—GRADE	90%	-1 TO +3 PERCENT
STRUCTURAL FILL PLACED WITHIN 3 FEET BEYOND THE PERIMETER OF THE BUILDING PAD	90%	-1 TO +3 PERCENT
UTILITY TRENCHES WITHIN BUILDING AND ANY PAVEMENT AREAS	95%	-1 TO +3 PERCENT
UTILITY TRENCHES BENEATH LANDSCAPE AND GRASS AREAS	90%	-1 TO +3 PERCENT



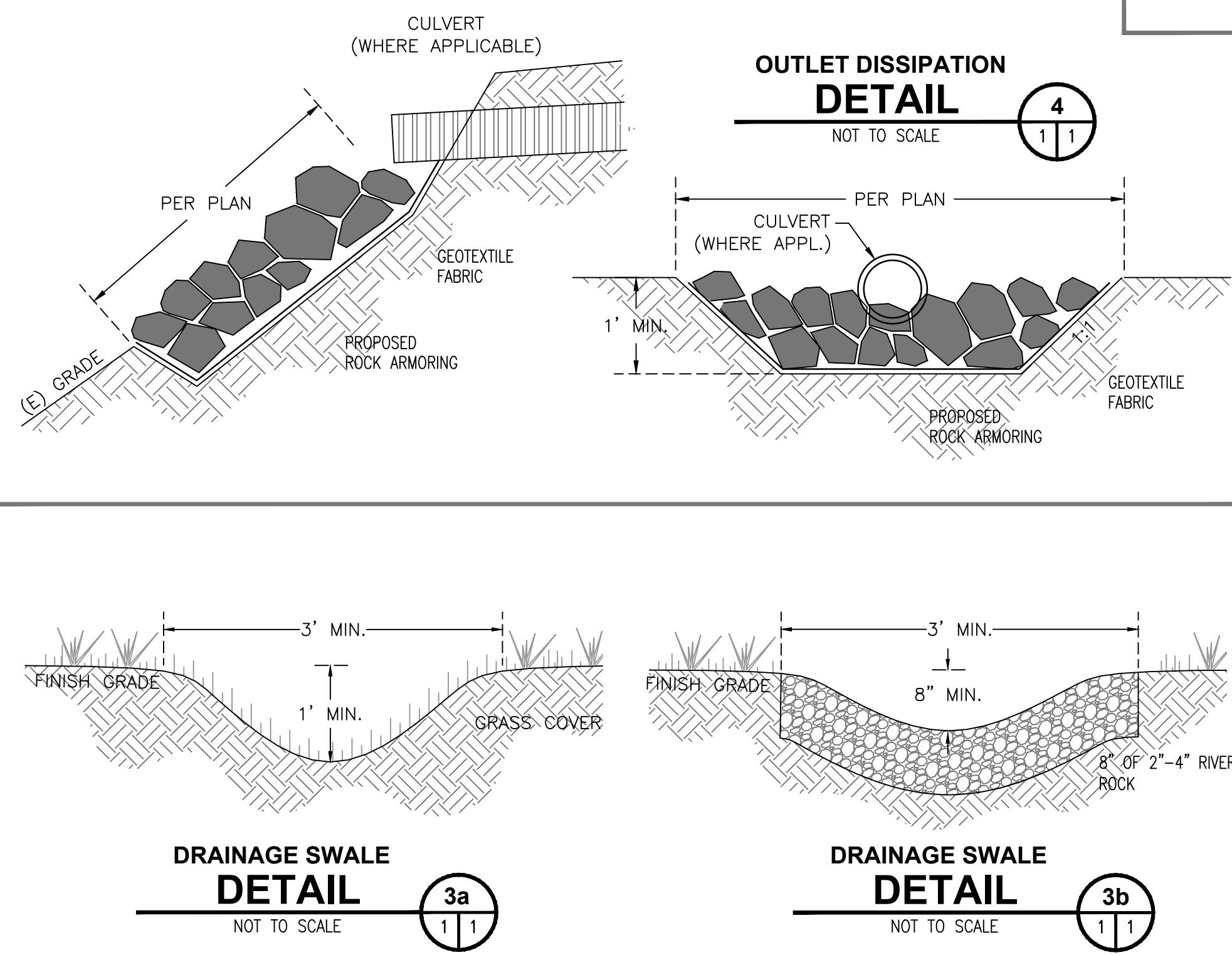
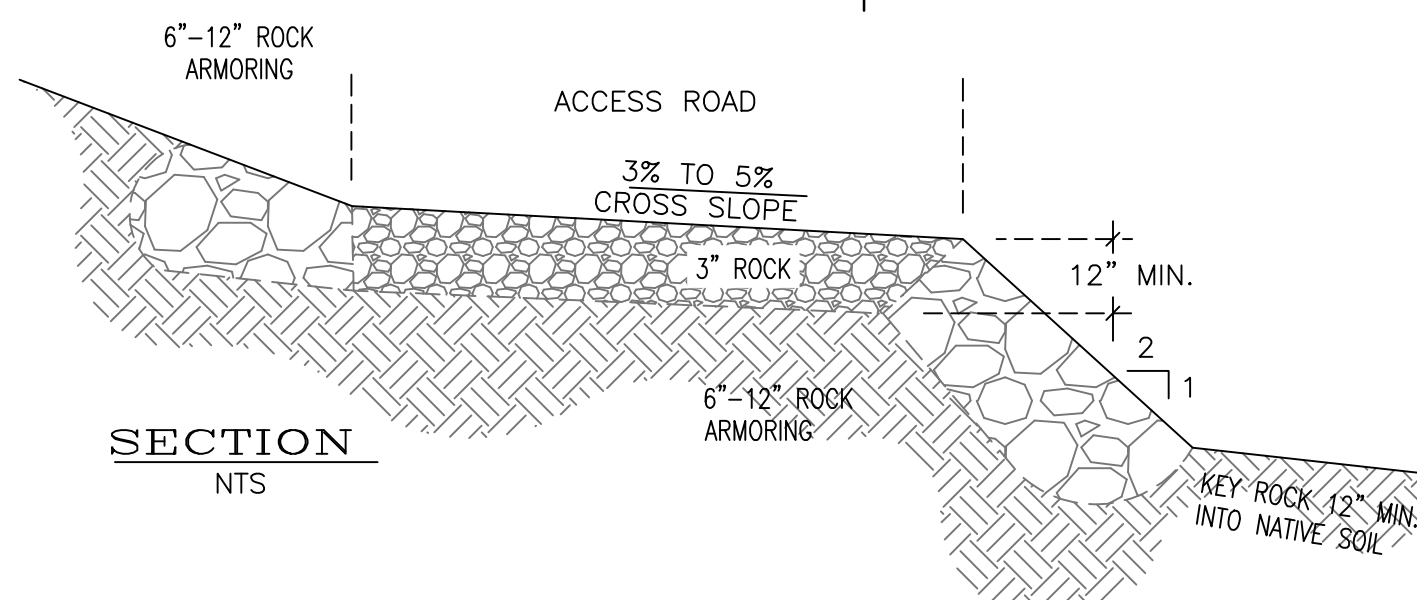
CONSTRUCTION NOTES:

- LOCATE DRAINAGE STRUCTURE WHERE THEY CAN TAKE ADVANTAGE OF NATURAL DRAINAGE FEATURES AND MINIMIZE EROSION.
- ALL DRAINAGE FEATURES SHALL BEGIN AT THE INTERSECTION OF THE ROADBED AND CUT SLOPE AND RUN ACROSS THE ENTIRE WIDTH OF THE ROADBED.
- THE CROSS SLOPE OF DRAINAGE FEATURES SHALL BE A MINIMUM 3%—5% GRADE.
- DRAINAGE FEATURES SHALL BE SURFACED WITH 4" OF 1-1/2" ROAD BASE.
- ALL DRAINAGE FEATURES SHALL HAVE FREE FLOWING OUTLETS.
- PROVIDE 1/4 TON RIP RAP ARMORING AT OUTLETS.

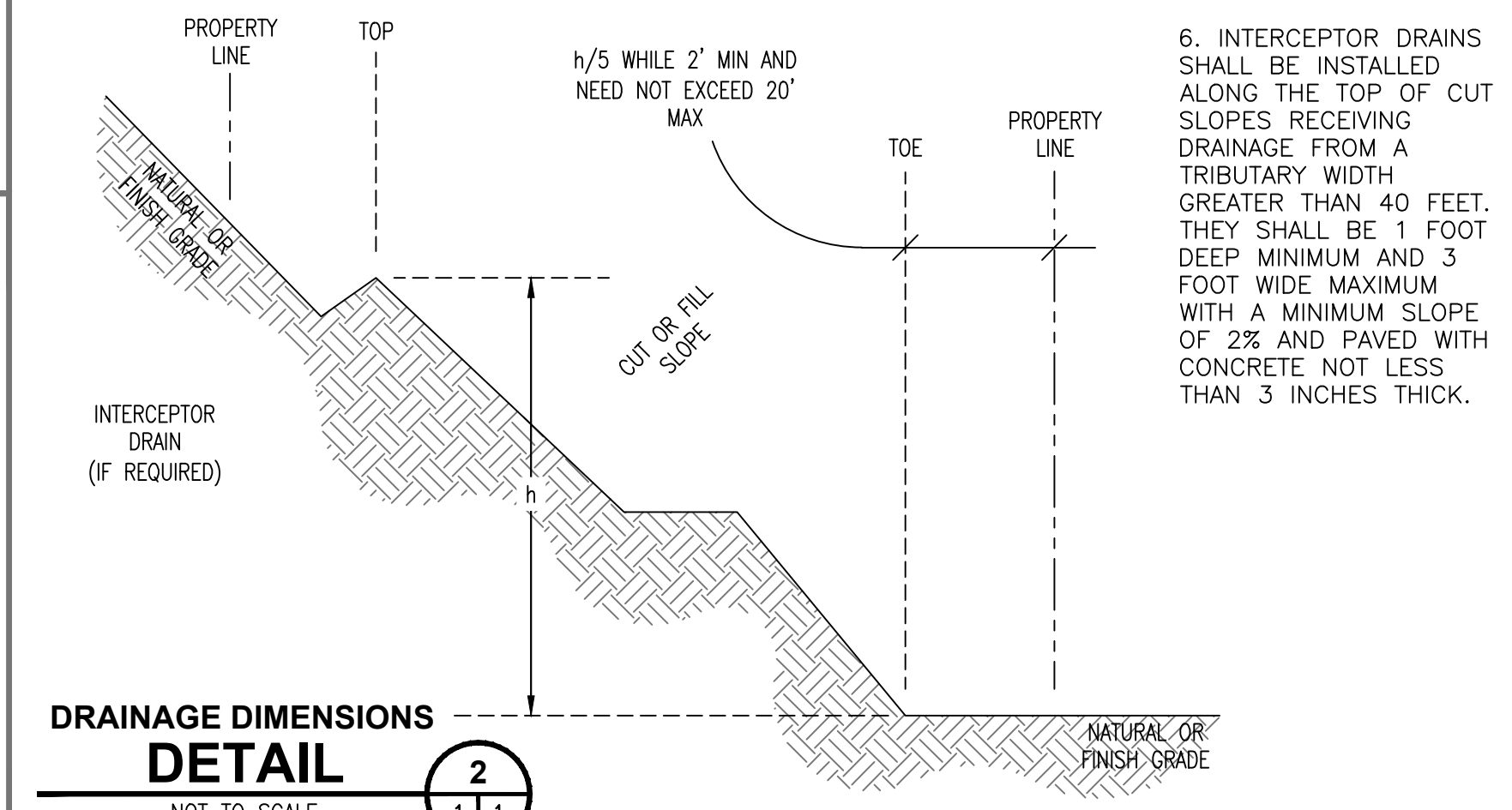


ROCKED FORD NOTES:

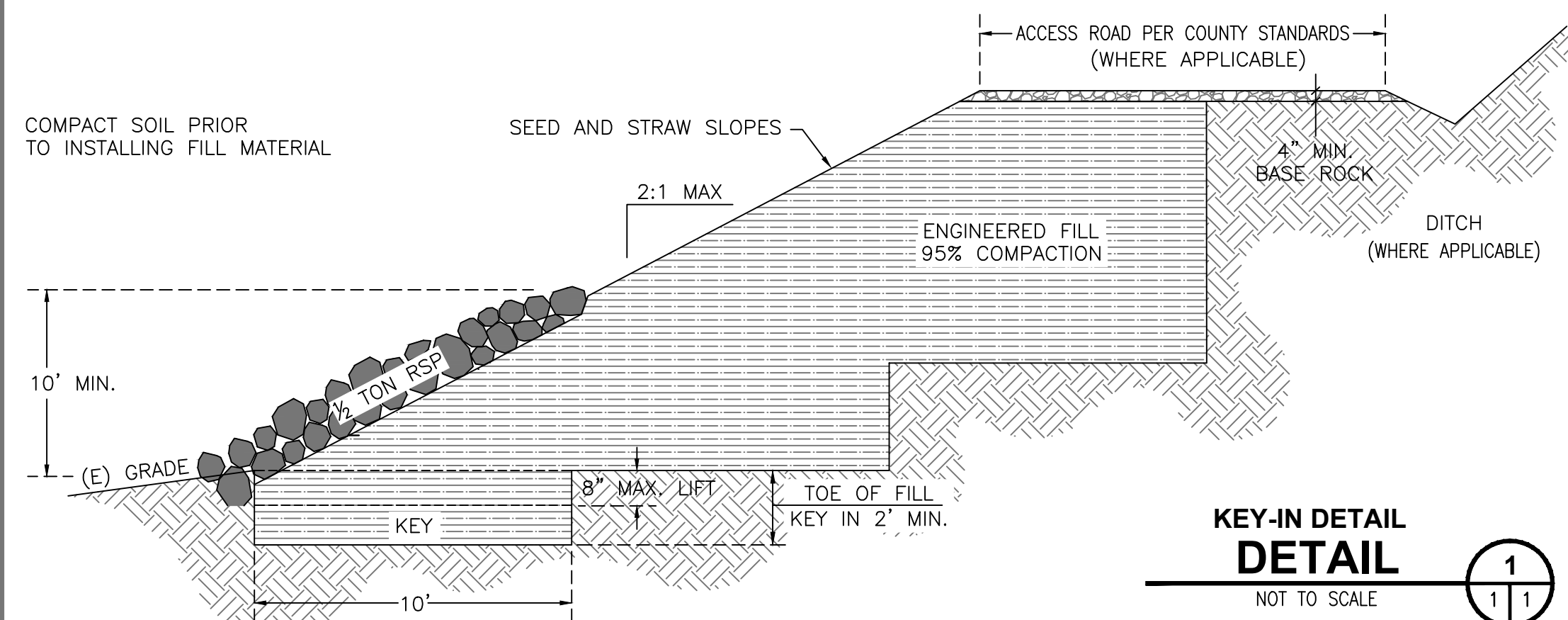
- ROCKED FORDS ARE DRAINAGE STRUCTURES DESIGNED TO CARRY WATER ACROSS ROADS.
- THE ROAD SHALL DIP INTO AND OUT OF THE ROCKED FORD TO MINIMIZE DIVERSION POTENTIAL.
- THE CROSSING SHALL BE CONSTRUCTED WITH CLEAN, NATIVE ROCK THAT IS LARGE ENOUGH TO REMAIN IN PLACE DURING 100 YEAR PEAK FLOWS. ROCK SIZE SHALL VARY RELATIVE TO THE SIZE OF THE WATERCOURSE, HOWEVER, CROSSINGS SHALL USE A MINIMUM 3" ROCK SIZE.
- THE CROSSING'S INLET AND OUTLET SHALL BE ARMORED TO RESIST DOWNCUTTING AND EROSION.
- THE ENTIRE WIDTH OF THE CROSSING'S APPROACHES SHALL BE ROCK ARMORED TO A MINIMUM OF 5' FROM THE WATERCOURSE TRANSITION LINE AT EITHER SIDE OF THE CROSSING.
- INSTALL A ROCK FORD KEYWAY AT THE BASE OF THE CROSSING TO A DEPTH NO LESS THAN 2 FEET.



- CUT AND FILL SLOPES SHALL BE SET BACK FROM THE PROPERTY LINES AS SHOWN HEREIN.
- THE SETBACK AT THE TOP OF A CUT SLOPE SHALL NOT BE LESS THAN THAT SHOWN OR THAN IS REQUIRED TO ACCOMMODATE ANY REQUIRED INTERCEPTOR DRAINS, WHICHEVER IS GREATER.
- TERRACES NOT LESS THAN 6 FEET IN WIDTH SHALL BE ESTABLISHED AT NOT MORE THAN 30-FOOT VERTICAL INTERVALS ON ALL CUT AND FILL SLOPES TO CONTROL SURFACE DRAINAGE AND DEBRIS. SUITABLE ACCESS SHALL BE PROVIDED TO ALLOW FOR CLEANING AND MAINTENANCE.
- WHERE MORE THAN TWO TERRACES ARE REQUIRED, ONE TERRACE, LOCATED AT APPROXIMATELY MID-HEIGHT, SHALL BE NOT LESS THAN 12 FEET IN WIDTH.
- SWALES SHALL BE PROVIDED ON TERRACES WITH A MINIMUM SLOPE OF 5% AND SHALL BE PAVED WITH CONCRETE NOT LESS THAN 3 INCHES IN THICKNESS, OR ENGINEER APPROVED SUBSTITUTE. THEY SHALL HAVE A DEPTH OF NOT LESS THAN 12 INCHES AND A WIDTH OF NOT LESS THAN 5 FEET.



WHERE EXISTING GRADE IS AT A SLOPE STEEPER THAN 5:1 (h:v) AND A DEPTH OF THE FILL EXCEEDS 5 FEET, BENCHING SHALL BE PROVIDED. A KEY SHALL BE PROVIDED THAT IS NOT LESS THAN 10 FEET IN WIDTH AND 2 FEET IN DEPTH.



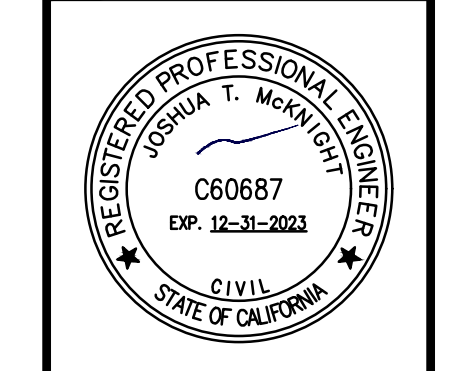
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				12/18/2023 100% CD SET			

KARUK TRIBE HOUSING AUTHORITY
SITE CIVIL IMPROVEMENT PLANS
DRAINAGE DETAILS
APN: 529-111-007-000
ORLEANS, HUMBOLDT COUNTY, CALIFORNIA

DATE OF ISSUE:	DECEMBER 2023
SCALE:	AS SHOWN
PROJECT NO:	0236.02
DRAWING NO:	C504

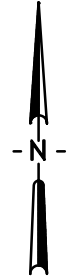
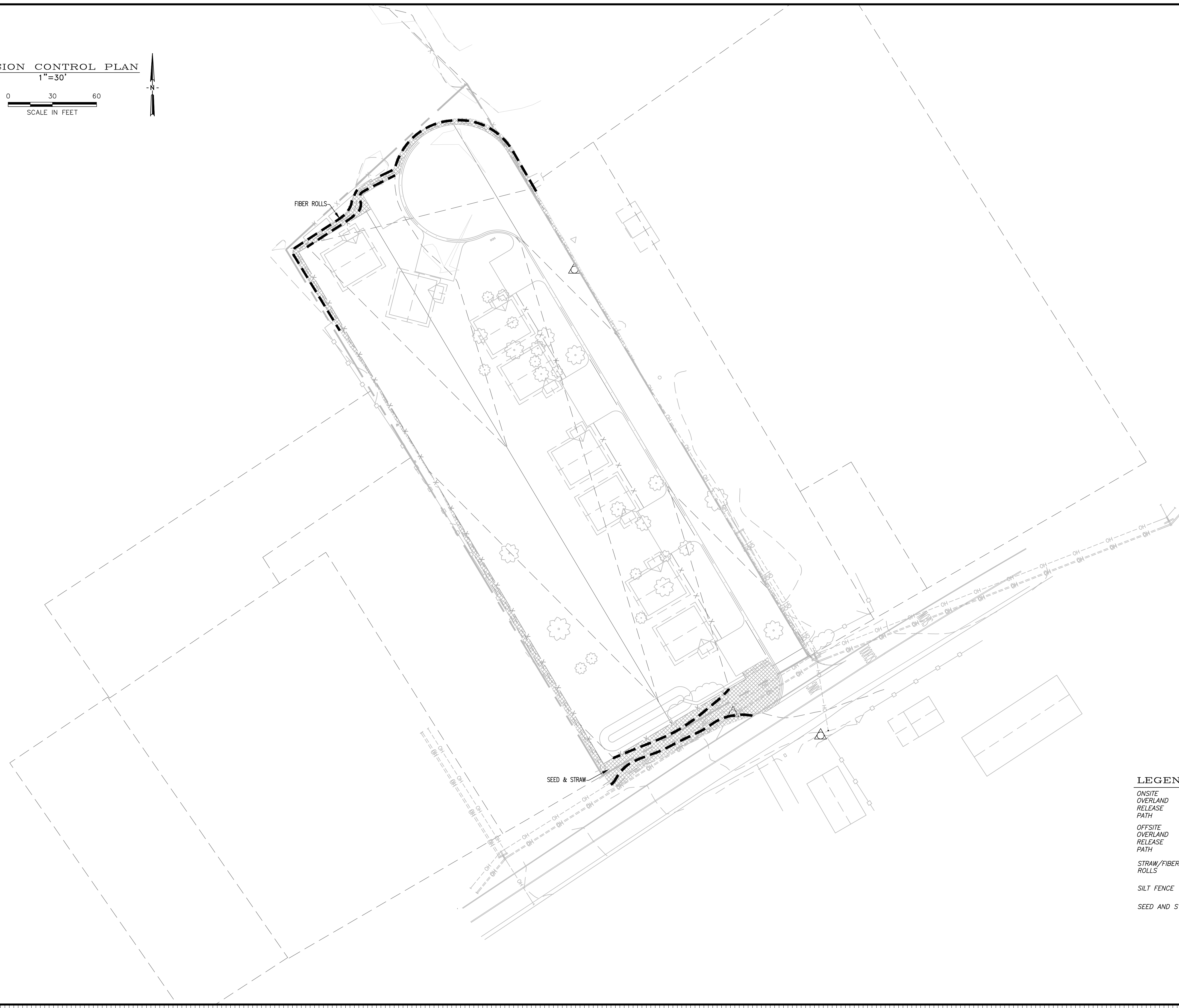


67 Walnut Way
PO Box 1587
Willow Creek, CA 95573
530.629.3000
WWW.TVCE.BIZ



EROSION CONTROL PLAN
1"=30'

0 30 60
SCALE IN FEET

LEGEND:

ONSITE OVERLAND RELEASE PATH

OFFSITE OVERLAND RELEASE PATH

STRAW/FIBER ROLLS

SILT FENCE

SEED AND STRAW

DATE	DESCRIPTION	APP'D BY	CHK'D BY	APP'D BY
12/18/2023	100% CD SET	JTM	FAM	SS

KARUK TRIBE HOUSING AUTHORITY
SITE CIVIL IMPROVEMENT PLANS

EROSION CONTROL PLAN

APN: 529-111-007-000
ORLEANS, HUMBOLDT COUNTY, CALIFORNIA

DATE OF ISSUE:
DECEMBER 2023

SCALE:
AS SHOWN

PROJECT NO:
0236.02

DRAWING NO:
C600

Z:\TVCE\Projects\200_236_02_Housing\236.02_Karuk_Housing\236.02_OrleansHomeDevelopment\Plans\Civil\DWG\20231218\Development_Plan2\218.dwg, TVCE, Inc., TVCE, Inc.



STRAW MULCH NOTES:

- STRAW SHALL BE DERIVED FROM WHEAT, RICE, OR BARLEY. WHERE REQUIRED BY THE PLANS, SPECIFICATIONS, PERMITS, OR ENVIRONMENTAL DOCUMENTS, NATIVE GRASS STRAW SHALL BE USED.
- A TACKIFIER IS THE PREFERRED METHOD FOR ANCHORING STRAW MULCH TO THE SOIL ON SLOPES.
- CRIMPING, PUNCH ROLLER-TYPE ROLLERS, OR TRACK WALKING MAY ALSO BE USED TO INCORPORATE STRAW MULCH INTO THE SOIL ON SLOPES. TRACK WALKING SHALL ONLY BE USED WHERE OTHER METHODS ARE IMPRACTICAL.
- AVOID PLACING STRAW ONTO ROADS, SIDEWALKS, DRAINAGE CHANNELS, SOUND WALLS, EXISTING VEGETATION, ETC.
- STRAW MULCH WITH TACKIFIER SHALL NOT BE APPLIED DURING OR IMMEDIATELY BEFORE RAINFALL.
- APPLY STRAW AT A MINIMUM RATE OF 4,000 LB/ACRE, EITHER BY MACHINE OR BY HAND DISTRIBUTION.
- ROUGHEN EMBANKMENTS AND FILL RILLS BEFORE PLACING THE STRAW MULCH BY ROLLING WITH A CRIMPING OR PUNCHING TYPE ROLLER OR BY TRACK WALKING.
- EVENLY DISTRIBUTE STRAW MULCH ON THE SOIL SURFACE.
- ON SMALL AREAS, A SPADE OR SHOVEL CAN BE USED TO PUNCH IN STRAW MULCH.
- ON SLOPES WITH SOILS THAT ARE STABLE ENOUGH AND OF SUFFICIENT GRADIENT TO SAFELY SUPPORT CONSTRUCTION EQUIPMENT WITHOUT CONTRIBUTING TO COMPACTION AND INSTABILITY PROBLEMS, STRAW CAN BE "PUNCHED" INTO THE GROUND USING A KNIFE BLADE ROLLER OR A STRAIGHT BLADED COULTER, KNOWN COMMERCIALY AS A "CRIMPER".
- ON SMALL AREAS AND/OR STEEP SLOPES, STRAW CAN ALSO BE HELD IN PLACE USING JUTE. THE NETTING SHALL BE HELD IN PLACE USING 11 GAUGE WIRE STAPLES, GEOTEXTILE PINS OR WOODEN STAKES AS DESCRIBED IN EC-7, GEOTEXTILES AND MATS.
- TACKIFIER ACTS TO GLUE THE STRAW FIBERS TOGETHER AND TO THE SOIL SURFACE. THE TACKIFIER SHALL BE SELECTED BASED ON LONGEVITY AND ABILITY TO HOLD THE FIBERS IN PLACE. A TACKIFIER IS TYPICALLY APPLIED AT A RATE OF 125 LB/ACRE. IN WINDY CONDITIONS, THE RATES ARE TYPICALLY 180LB/ACRE.

EROSION AND SEDIMENT CONTROL NOTES:

- EROSION CONTROL BEST MANAGEMENT PRACTICES (BMP'S) SHALL BE INSTALLED AND MAINTAINED DURING THE WET SEASON (OCTOBER 1 THROUGH APRIL 30). SEDIMENT CONTROL BMP'S SHALL BE INSTALLED AND MAINTAINED ALL YEAR.
- ALL DRAINAGE INLETS IMMEDIATELY DOWNSTREAM OF THE WORK AREA AND WITHIN THE WORK AREA SHALL BE PROTECTED WITH SEDIMENT CONTROL AND INLET FILTER BAGS, YEAR ROUND.
- ALL STABILIZED CONSTRUCTION ACCESS LOCATIONS SHALL BE CONSTRUCTED PER STANDARD DRAWING TC-1 WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES PAVED AREAS. THE STABILIZED ACCESS SHALL BE MAINTAINED ON A YEAR-ROUND BASIS UNTIL THE COMPLETION OF CONSTRUCTION.
- ALL AREAS DISTURBED DURING CONSTRUCTION, BY GRADING, TRENCHING, OR OTHER ACTIVITIES, SHALL BE PROTECTED FROM EROSION DURING THE WET SEASON (OCTOBER 1 THROUGH APRIL 30). HYDROSEED, IF UTILIZED, MUST BE PLACED BY SEPTEMBER 15. HYDROSEED PLACED DURING THE WET SEASON SHALL USE A SECONDARY EROSION PROTECTION METHOD.
- SENSITIVE AREAS AND AREAS WHERE EXISTING VEGETATION IS BEING PRESERVED SHALL BE PROTECTED WITH CONSTRUCTION FENCING. SEDIMENT CONTROL BMP'S SHALL BE INSTALLED WHERE ACTIVE CONSTRUCTION AREAS DRAIN INTO SENSITIVE OR PRESERVED VEGETATION AREAS.
- SEDIMENT CONTROL BMP'S SHALL BE PLACED ALONG THE PROJECT PERIMETER WHERE DRAINAGE LEAVES THE PROJECT. SEDIMENT CONTROL BMP'S SHALL BE MAINTAINED YEAR-ROUND UNTIL THE CONSTRUCTION IS COMPLETE OR THE DRAINAGE PATTERN HAS BEEN CHANGED AND NO LONGER LEAVES THE SITE.
- ALL SLOPES GREATER THAN 1:1 SHALL RECEIVE SEED AND STRAW OR OTHER EROSION CONTROL.
- ALL FENCING AND EROSION CONTROL METHODS SHALL BE MAINTAINED THROUGHOUT ALL ON-SITE CONSTRUCTION ACTIVITIES.
- ALL BMP'S SHALL BE INSTALLED AND FUNCTIONING PRIOR TO ANY ANTICIPATED STORM EVENT.

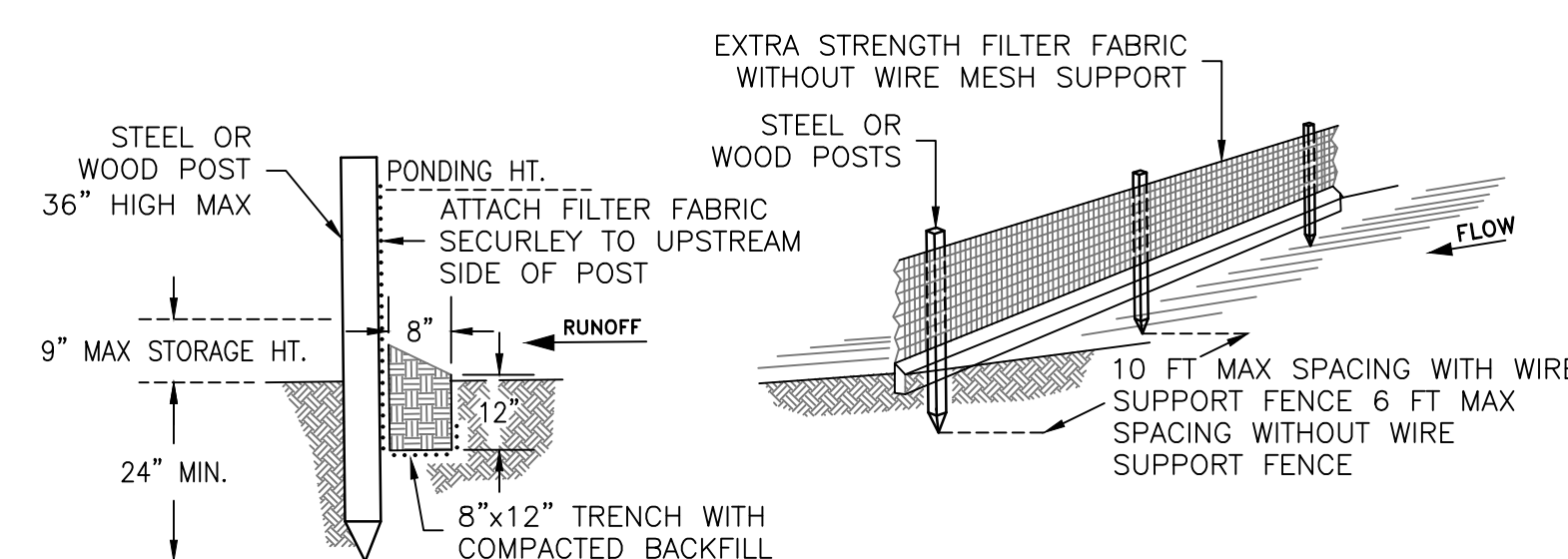
GENERAL WATER POLLUTION CONTROL NOTES:

- THE INFORMATION ON THESE DRAWINGS ARE ACCURATE FOR WATER POLLUTION CONTROL PURPOSES ONLY.
- THE INFORMATION ON THIS PLAN IS INTENDED TO BE USED AS A GUIDELINE FOR THE CONTRACTOR AND SUBCONTRACTORS TO INSTALL WATER POLLUTION CONTROL DEVICES AT GENERAL LOCATION THROUGHOUT THE SITE. THESE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE NARRATIVE SECTION OF THE WATER POLLUTION CONTROL PLAN.
- FIELD CONDITIONS MAY NECESSITATE MODIFICATION TO THESE DRAWINGS.
- PERMANENT EROSION CONTROL AND REVEGETATION WILL BE INSTALLED AS AREAS ARE DETERMINED TO BE SUBSTANTIALLY COMPLETE AND PER THE SPECIFICATIONS.
- ALL BMP'S WILL BE FIELD-VERIFIED AND APPROVED FOR INSTALLATION BY THE RE. ALL BMP'S WILL BE INSTALLED ACCORDING TO THE STANDARD PLANS AND SPECIFICATIONS UNLESS APPROVED BY THE RE AND AMENDED INTO THE WPCP.

BMP MAINTENANCE NOTES:

- ALL OF THE IMPLEMENTED BMP'S SHALL BE INSPECTED AND CORRECTED AS NEEDED PRIOR TO, DURING, AND DIRECTLY FOLLOWING ANY STORM EVENT, OR WHENEVER PRACTICAL.

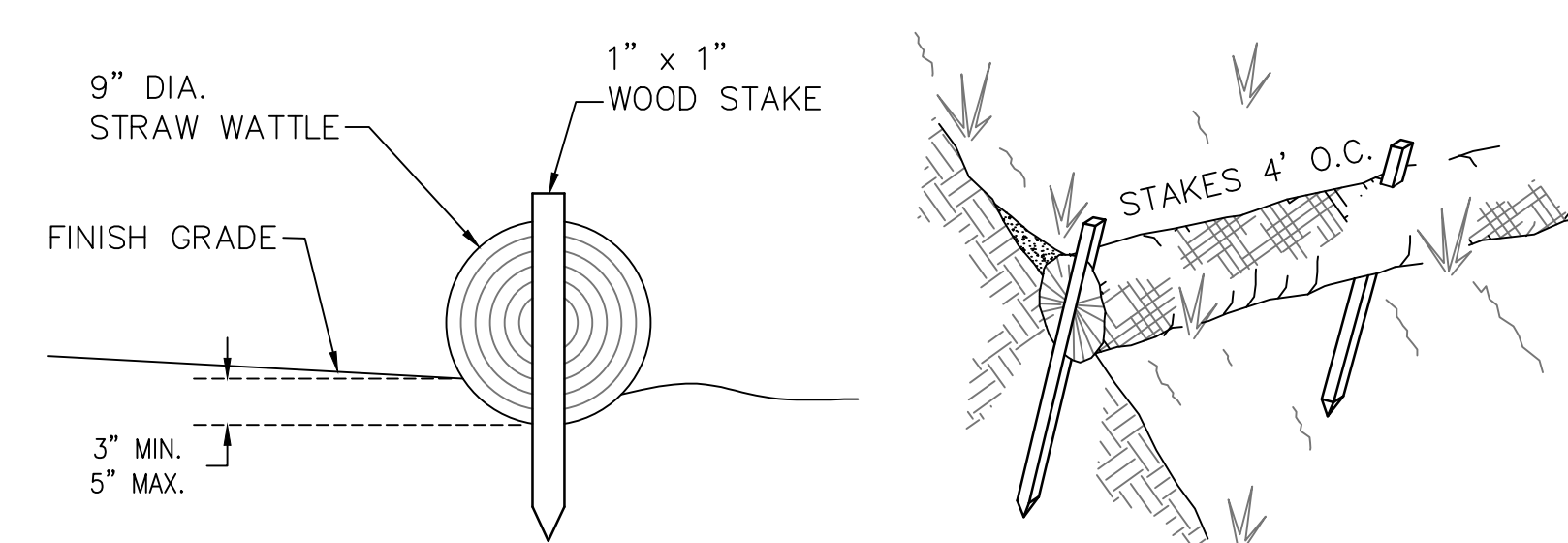
BMP INSTALLATION SCHEDULE											
PHASE OF CONSTRUCTION	EROSION AND SEDIMENT CONTROL MEASURES										
	(WET SEASON)					(WET AND DRY SEASON)					
	HYDROSEEDING/MULCHING	PRESERVATION OF EXISTING VEGETATION	STRAW/FIBER ROLLS	STORM DRAIN INLET PROTECTION	TEMP. SEDIMENT TRAP	STABILIZED CONSTRUCTION ENTRANCE	CONTRACTOR EQUIPMENT CONTROLS	MATERIAL & WASTE DISPOSAL LOCATION	DUST CONTROL	DEWATERING OPERATIONS	CONCRETE WASHOUT
PRE-GRADING	●	●	●								●
CUT AND FILL ACTIVITIES				●	●						
UNDERGROUND WORK											
STORM DRAIN IMPROVEMENTS											
OFFSITE IMPROVEMENTS											
COMPLETION OF PAVING											
POST-GRADING	●	●									



SILT FENCE NOTES:

- THE CONTRACTOR SHALL INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT.
- CONTRACTOR SHALL REMOVE SEDIMENT AS NECESSARY. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND IN AN AREA THAT CAN BE PERMANENTLY STABILIZED.
- SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

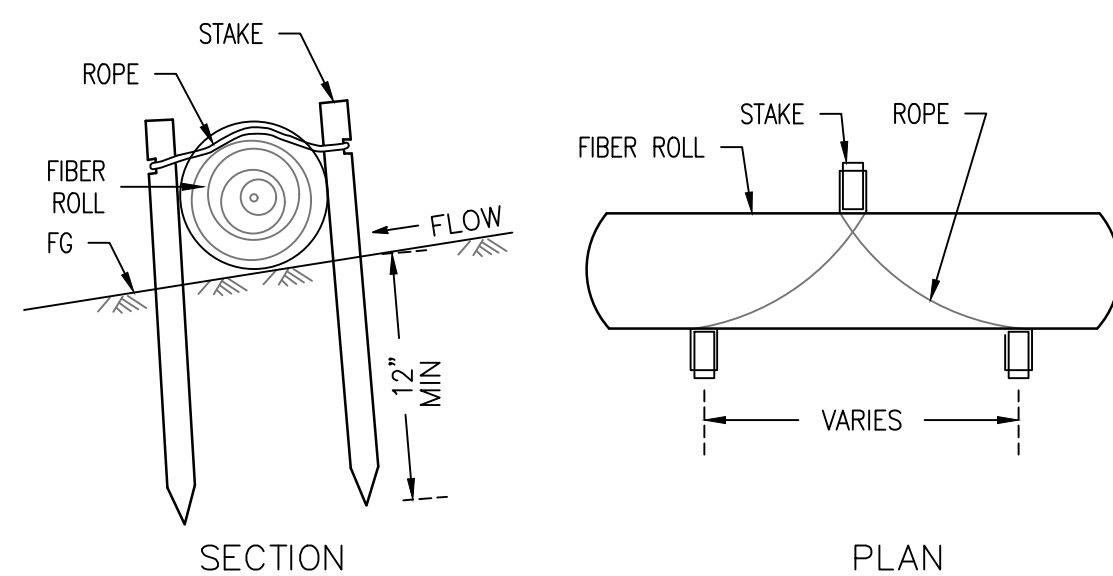
SILT FENCE DETAILS
NTS



STRAW WATTLE NOTES:

- STRAW WATTLES SHALL BE INSTALLED WITH 18 OR 24 INCH WOOD STAKES AT FOUR FEET ON CENTER. THE ENDS OF ADJACENT STRAW WATTLES SHALL BE ABUTTED TO EACH OTHER SNUGLY OR OVERLAPPED BY SIX INCHES.
- STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3"-5" DEEP. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND THE ROLL.

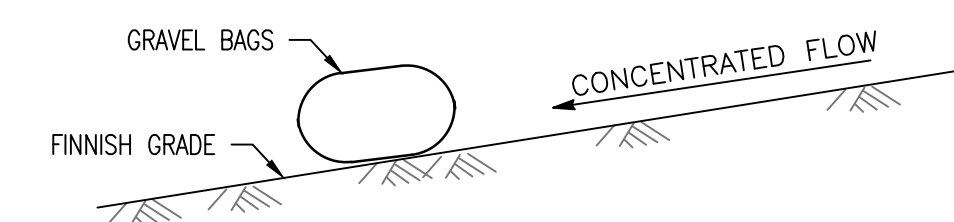
STRAW WATTLE INSTALLATION DETAIL
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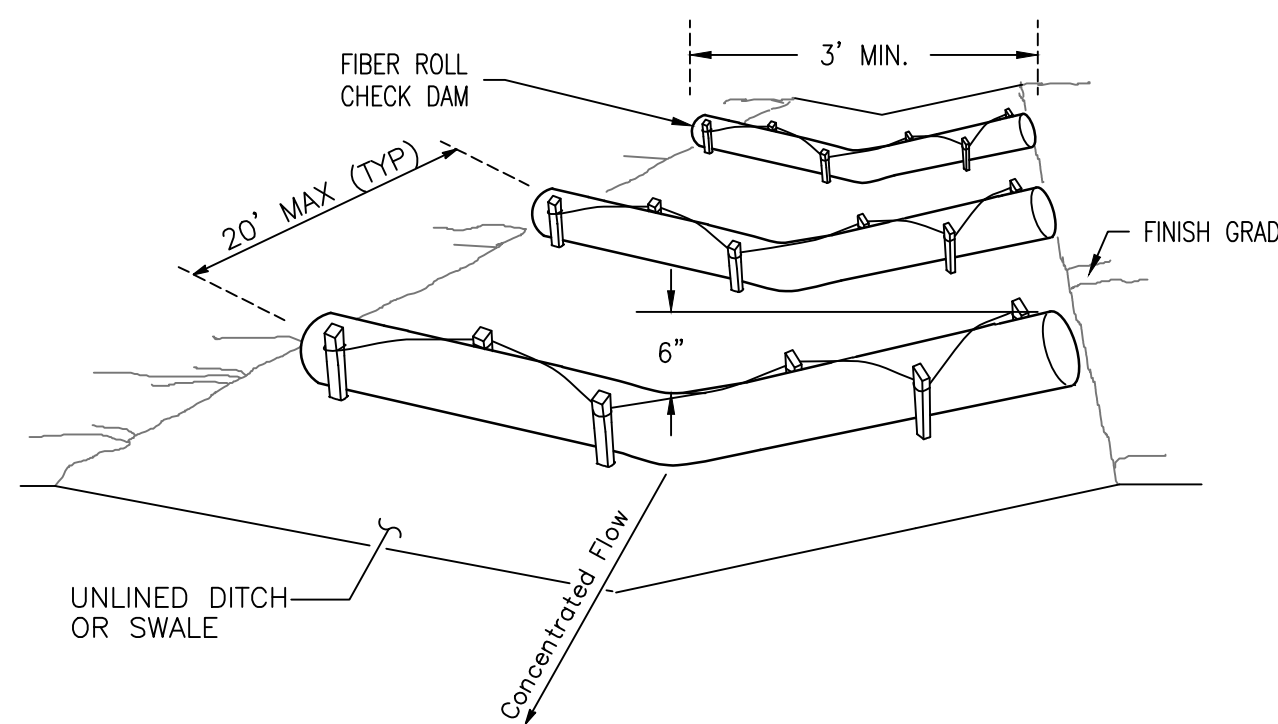
STAKING AND LASHING DETAIL
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NOTE:

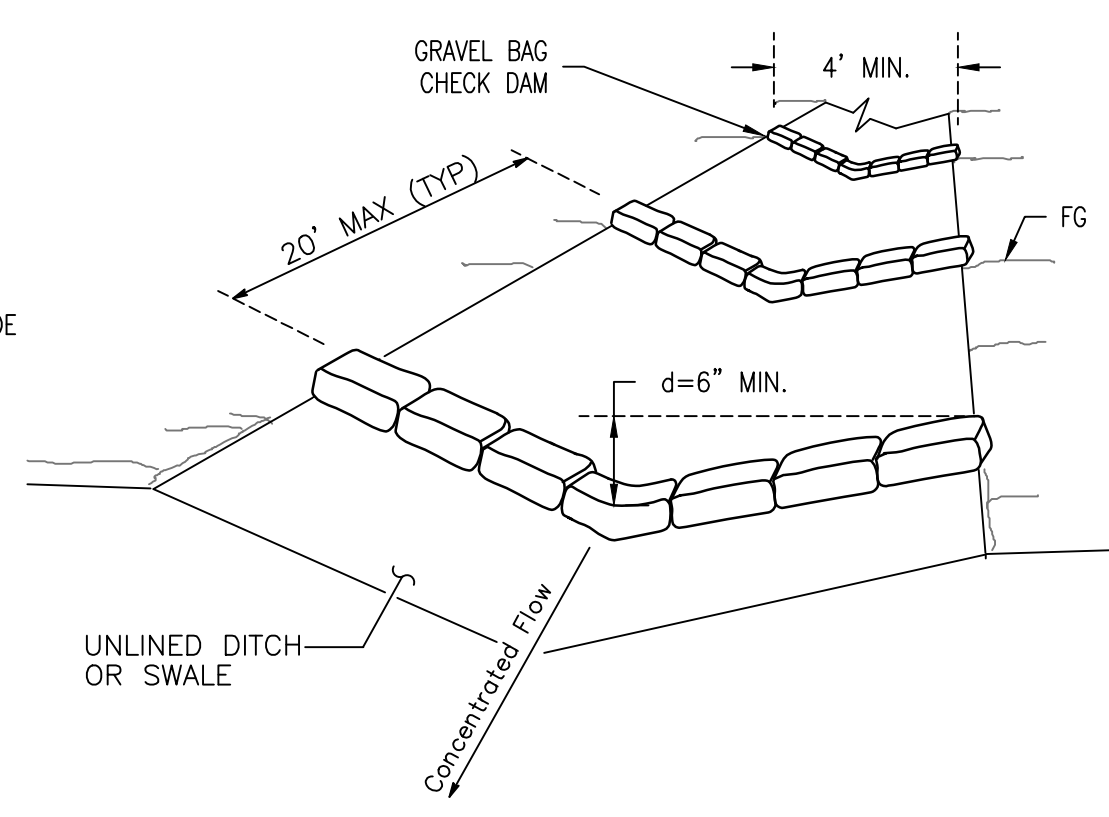
- SPILLWAY DEPTH "D" SHALL BE MAINTAINED TO PREVENT FLANKING OF CONCENTRATED FLOW AROUND THE ENDS OF EACH CHECK DAM.



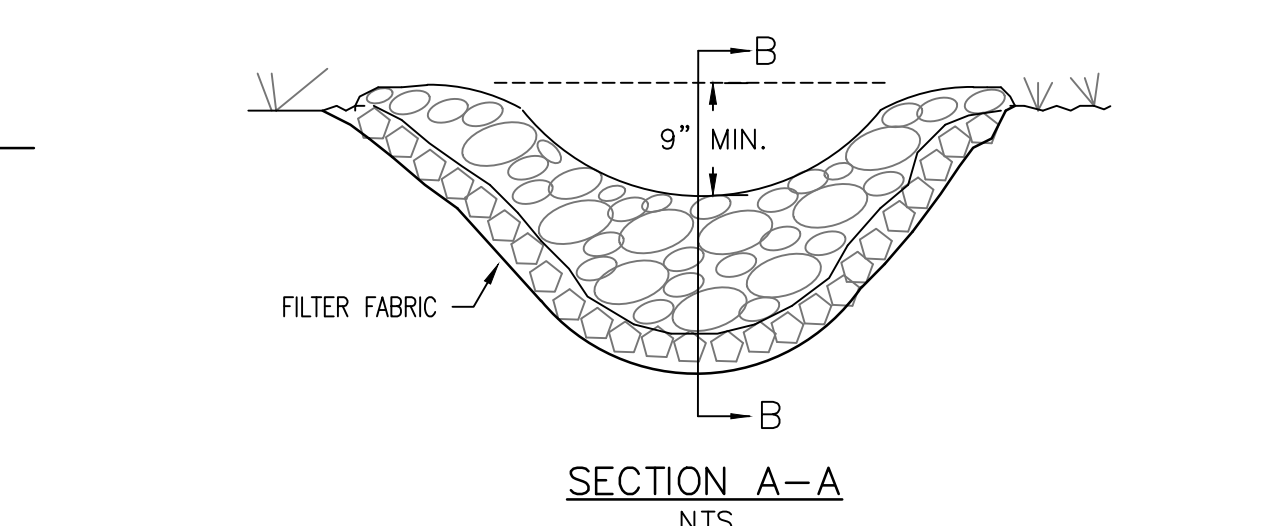
TEMPORARY CHECK DAM (TYPE 2)
NTS



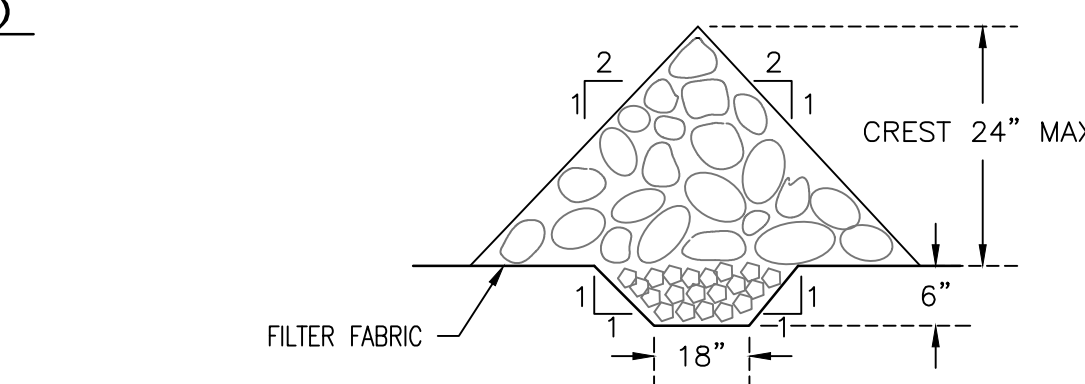
TEMPORARY CHECK DAM (TYPE 1)
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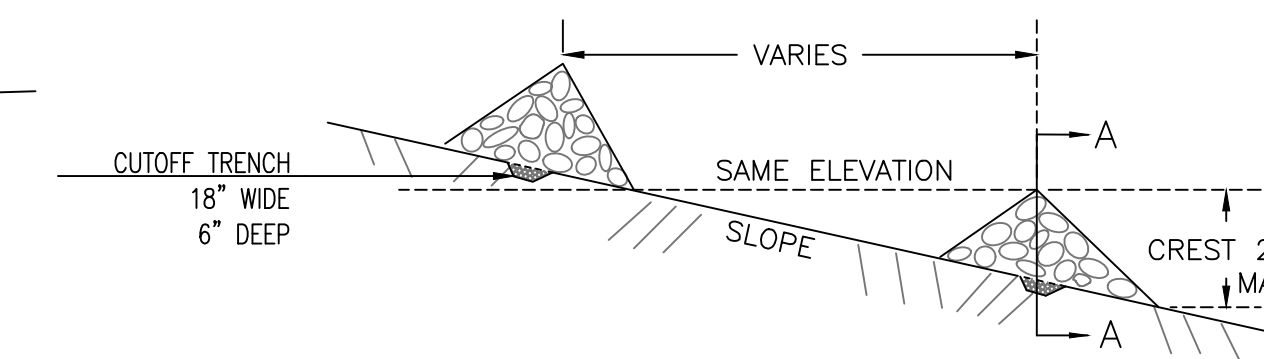
TEMPORARY CHECK DAM (TYPE 2)
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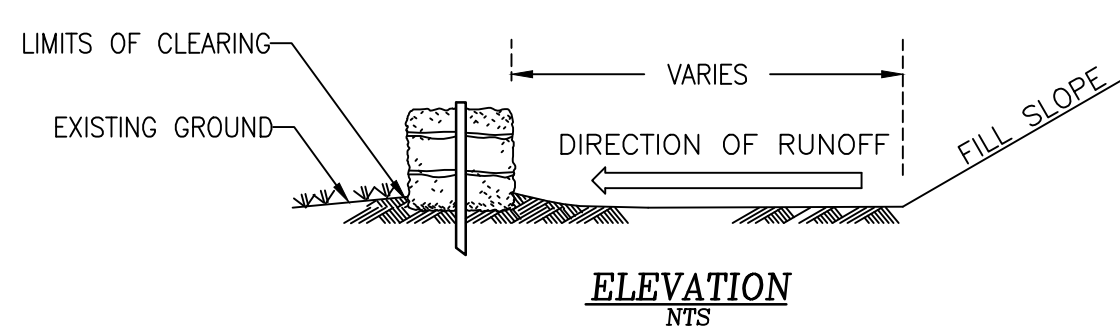
SECTION A-A
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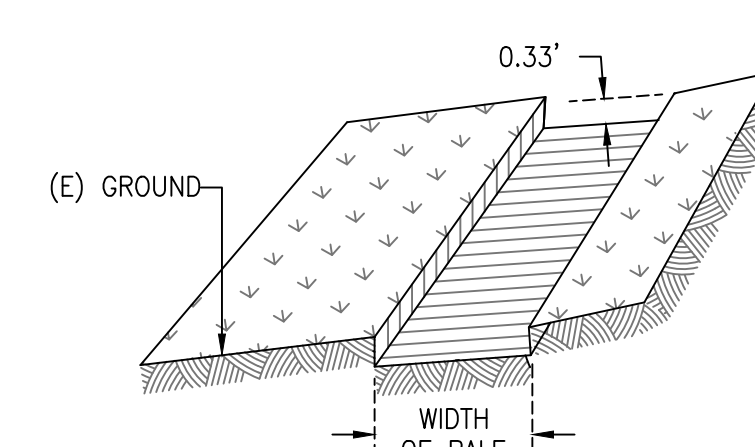
SECTION B-B
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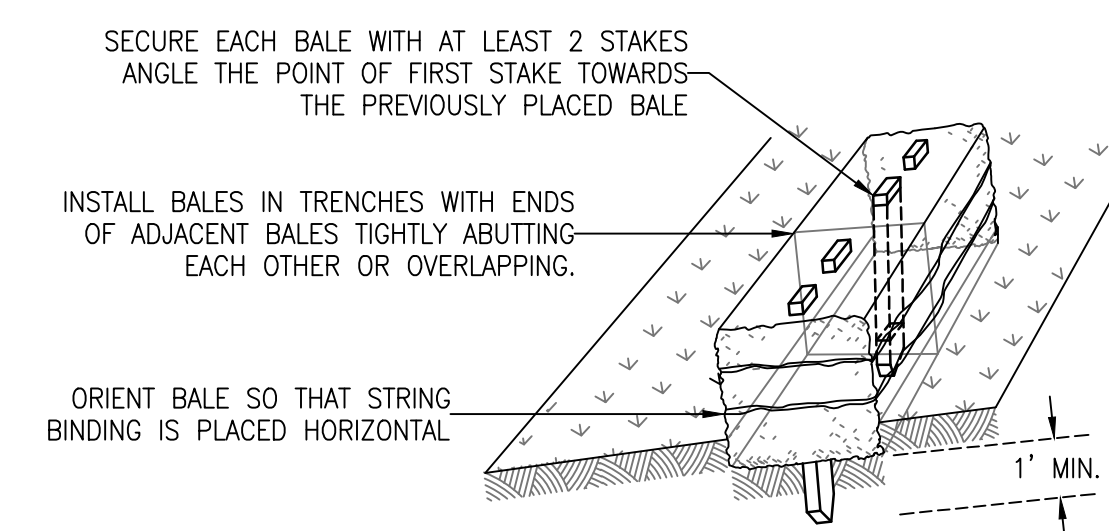
TEMPORARY CHECK DAM (TYPE 3)
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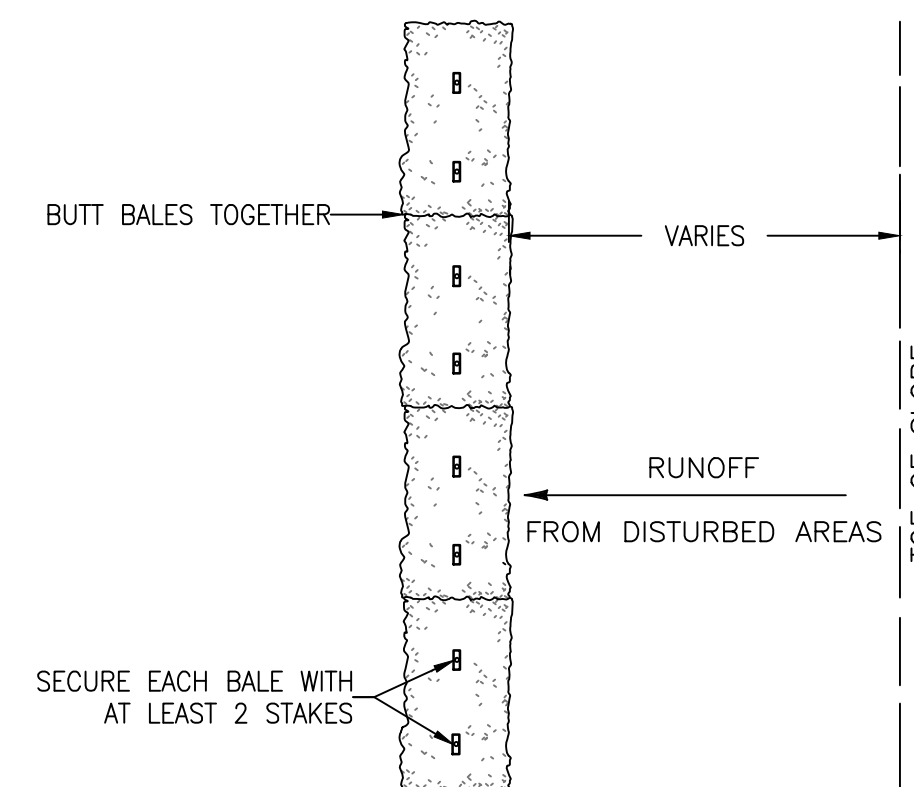
ELEVATION
NTS



STEP 1: EXCAVATE TRENCH

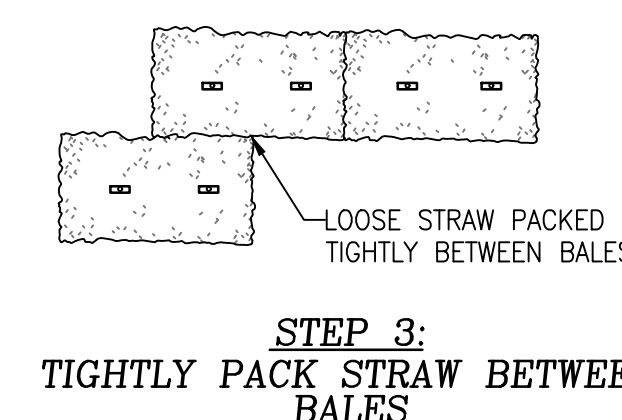


STEP 2: INSTALL BALES

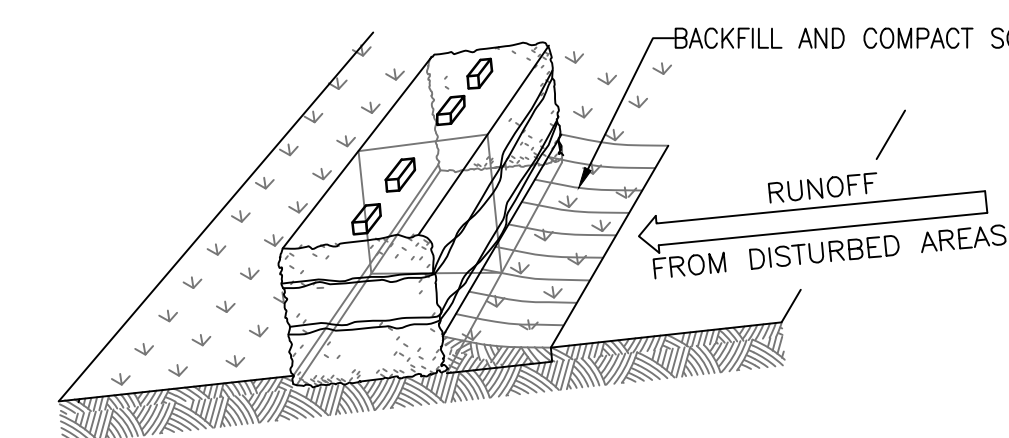


PLAN VIEW
NTS

STRAW BALE BARRIER INSTALLATION DETAIL
NTS



STEP 3: TIGHTLY PACK STRAW BETWEEN BALES

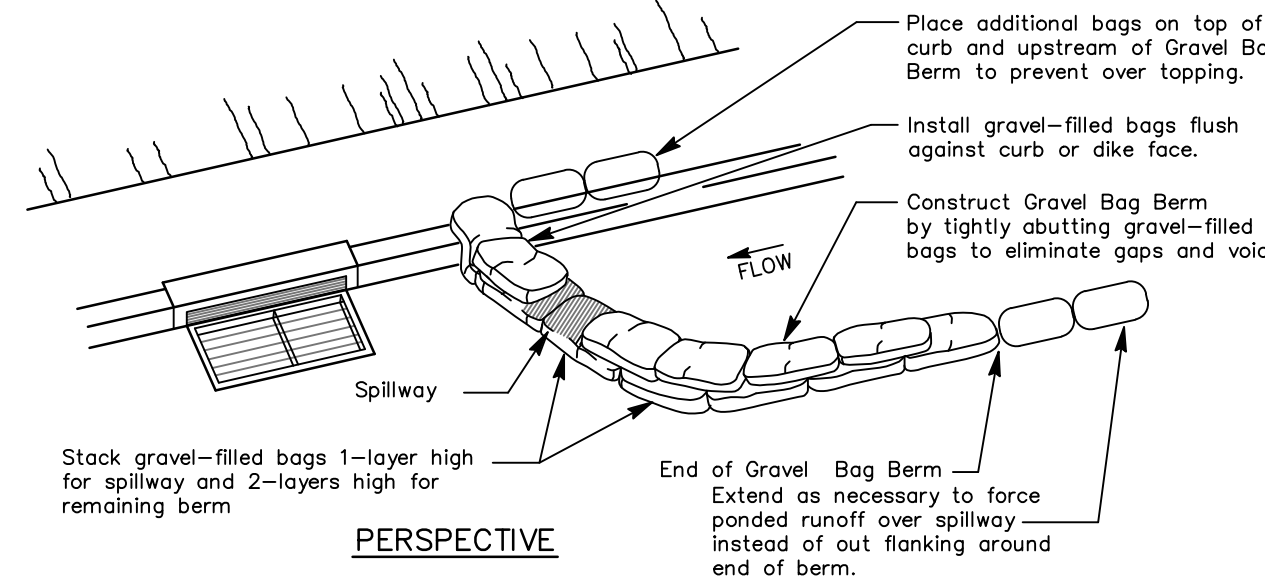
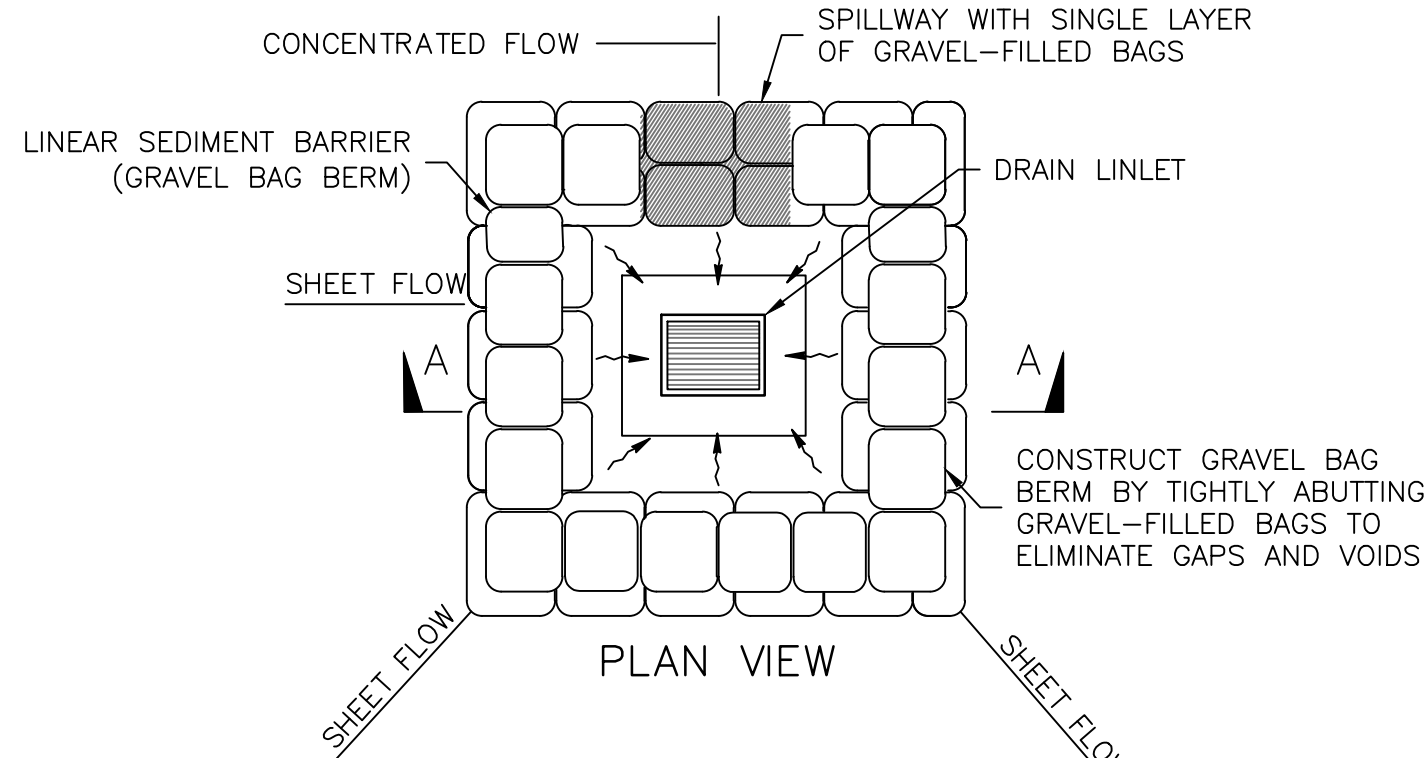
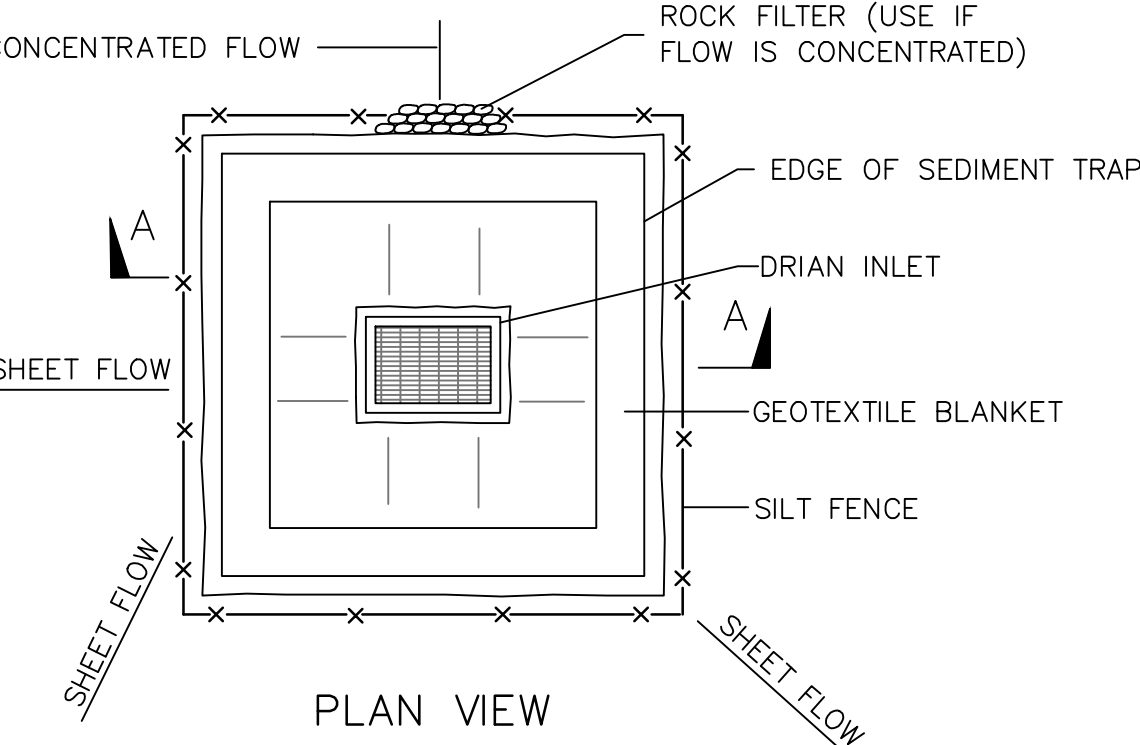
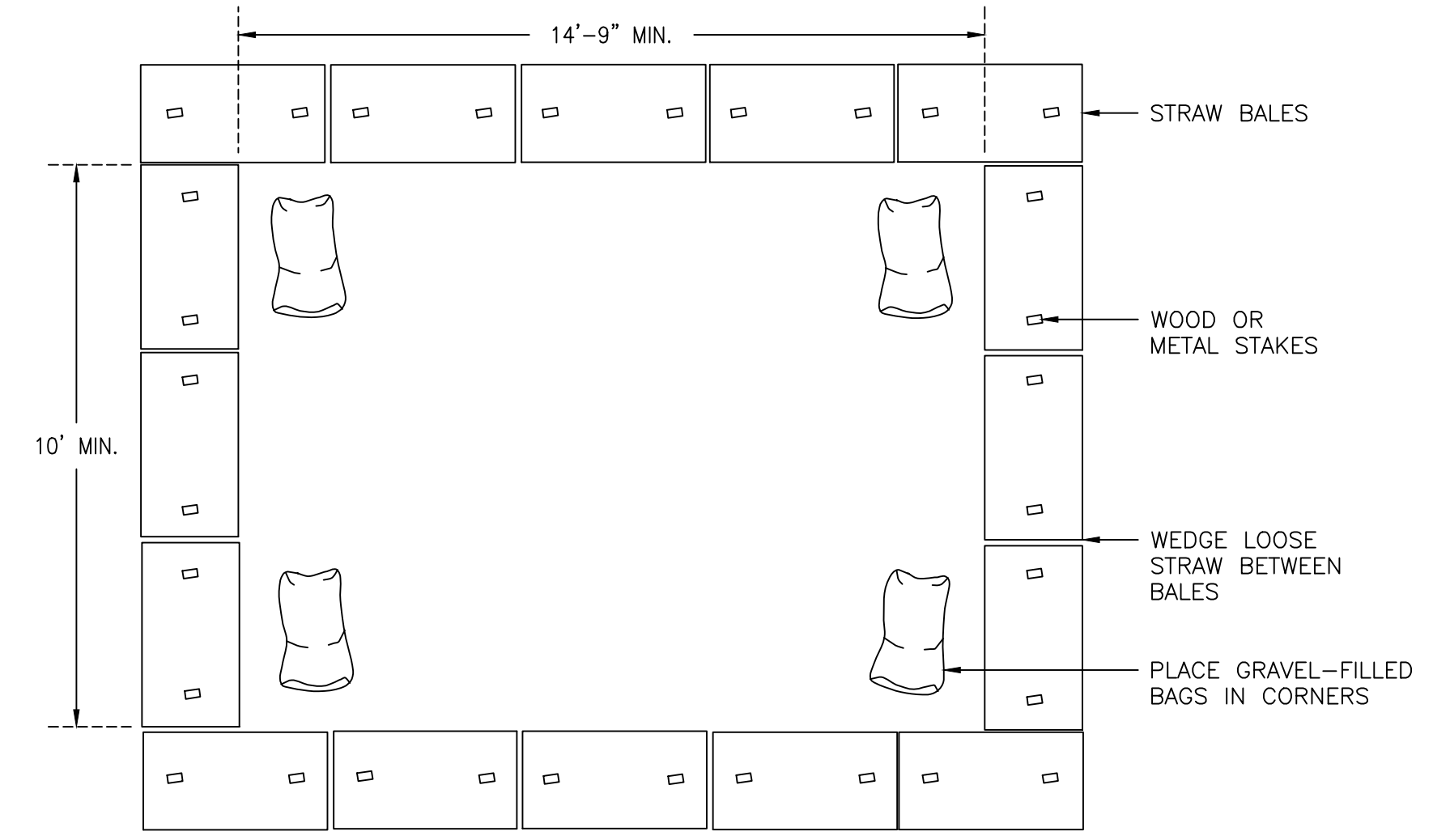
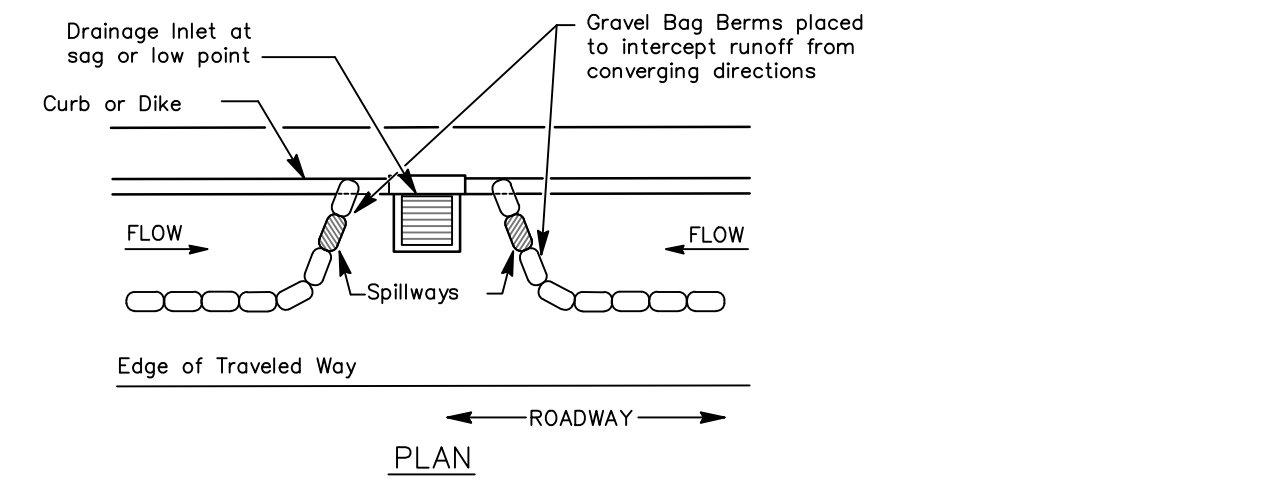
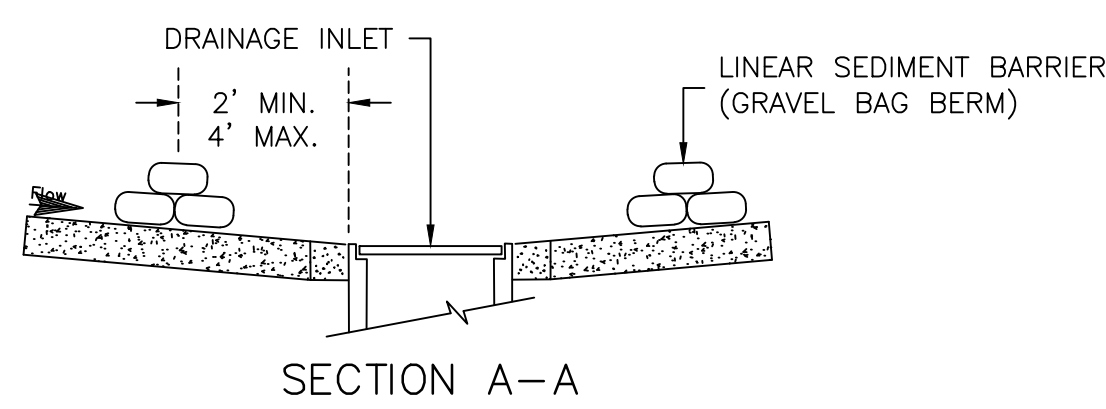
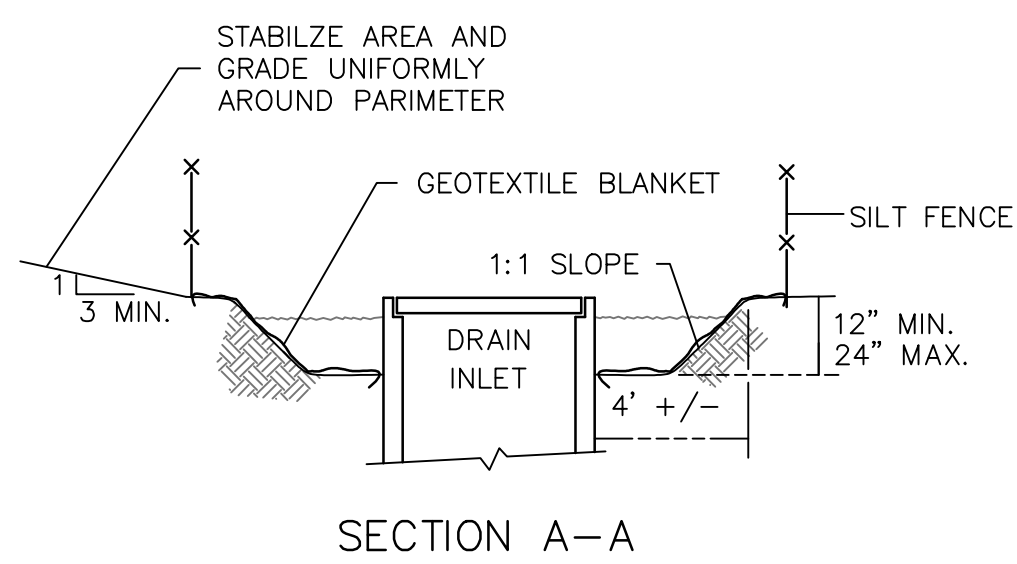


STEP 4: BACKFILL SOIL AGAINST BALES

SS	JTM	FAM	FAM	100% CD SET	DATE	DESCRIPTION	CHK BY	APP BY

KARUK TRIBE HOUSING AUTHORITY
SITE CIVIL IMPROVEMENT PLANS
EROSION CONTROL DETAILS
ORLEANS, HUMBOLDT COUNTY, CALIFORNIA
APN: 529-111-007-000

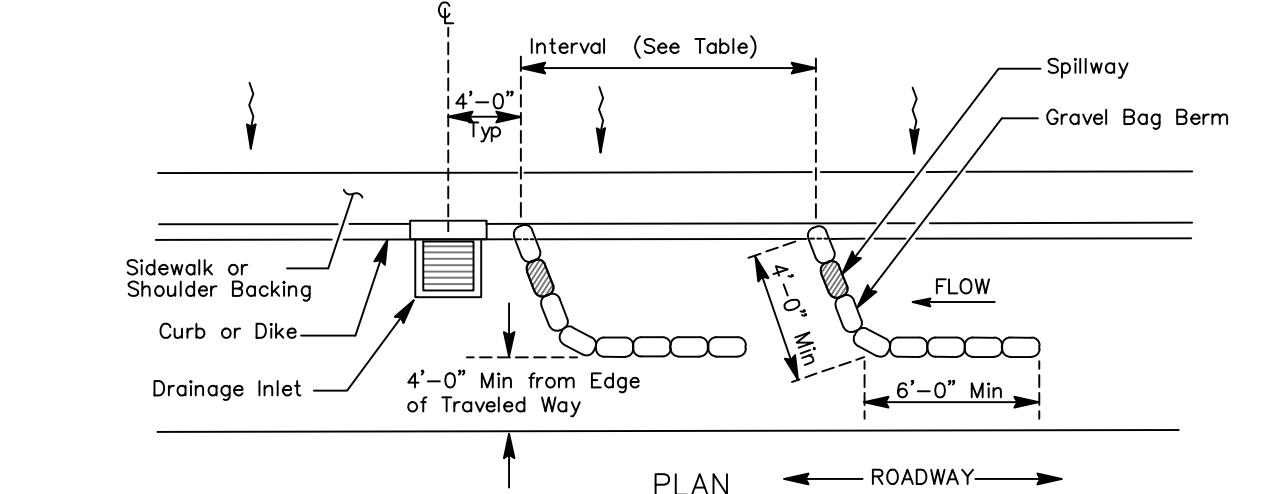
DATE OF ISSUE:	DECEMBER 2023
SCALE:	AS SHOWN
PROJECT NO:	0236.02
DRAWING NO:	C601



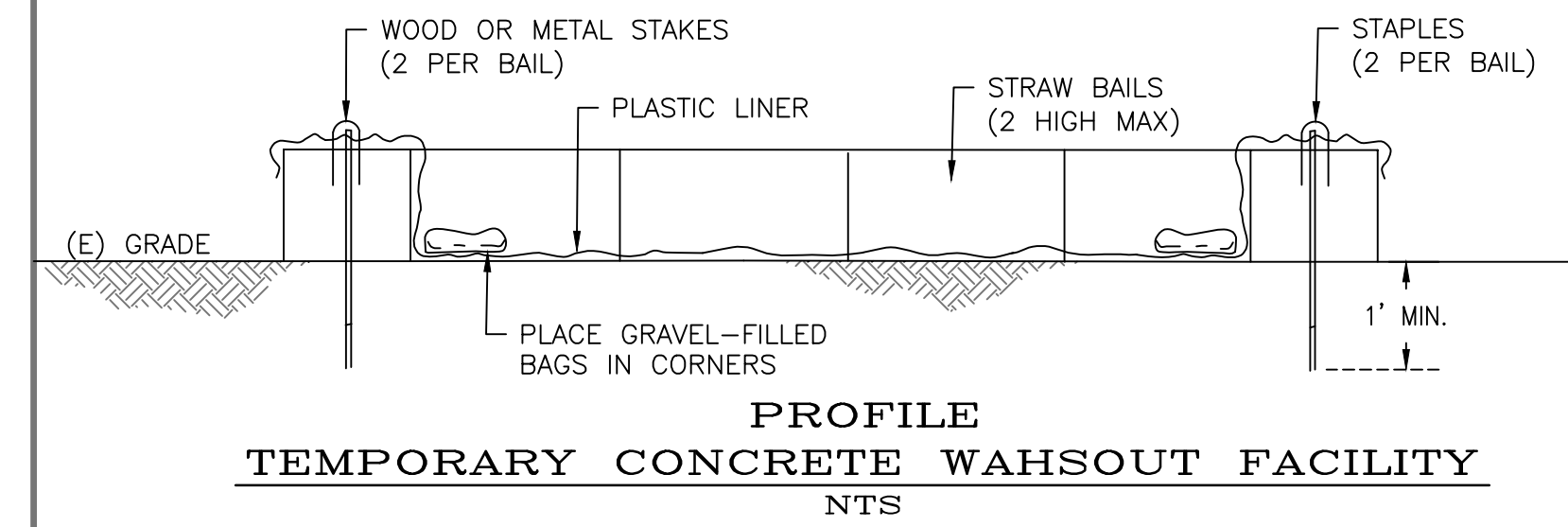
TEMPORARY CONCRETE WAHSOUT FACILITY
NTS

- DROP INLET PROTECTION NOTES:**
1. REMOVE SEDIMENT BEFORE REACHING ONE-THIRD FULL
 2. FOR USE IN CLEARED, GRUBBED, AND GRADED AREAS.
 3. SHAPE BASIN SO THAT LONGEST FLOW AREA FACES LONGEST LENGTH OF TRAP.
 4. FOR CONCENTRATED FLOWS, SHAPE BASIN IN 2:1 RATIO WITH LENGTH ORIENTED TOWARDS DIRECTION OF FLOW.

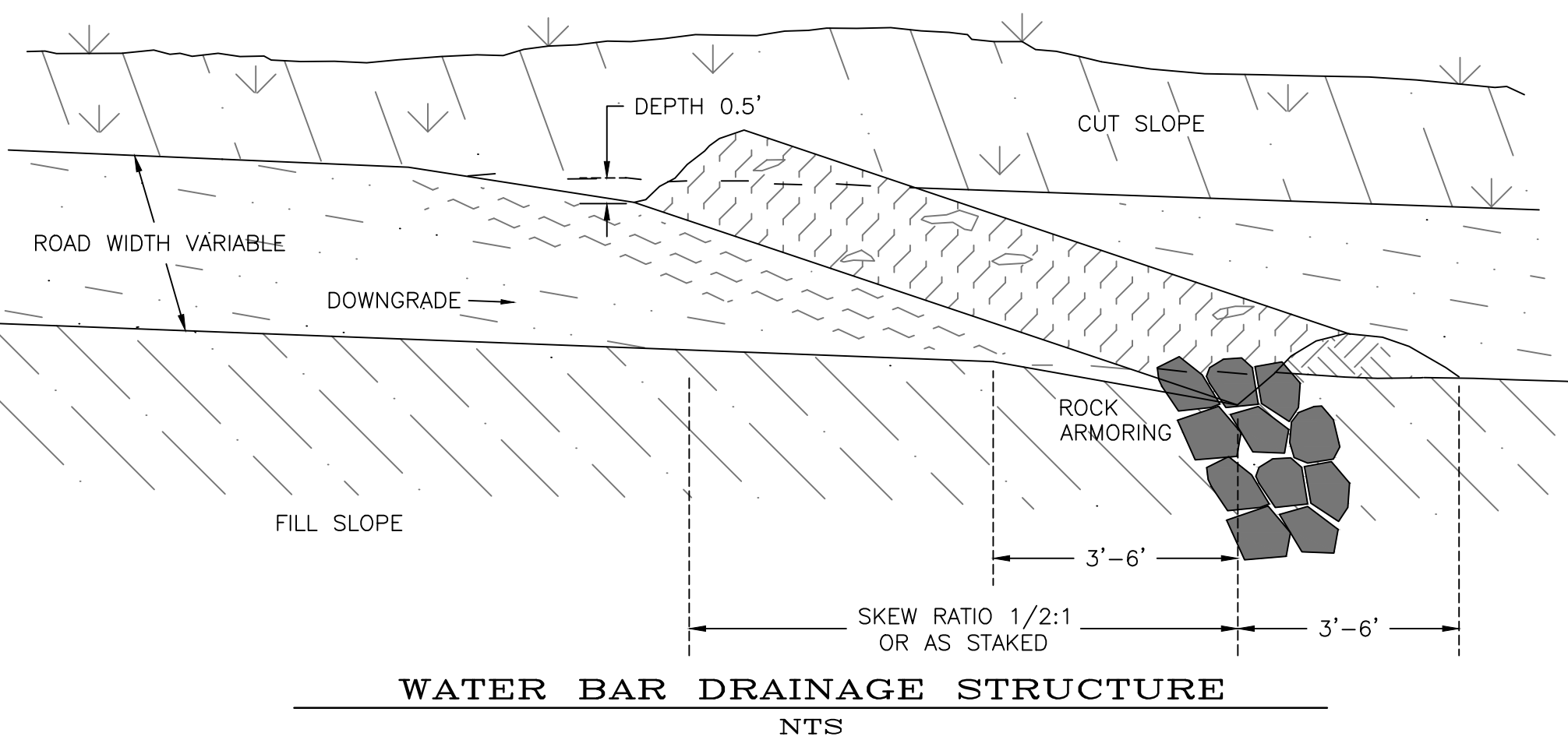
- DROP INLET PROTECTION NOTES:**
1. REMOVE SEDIMENT BEFORE REACHING ONE-THIRD FULL
 2. FOR USE IN PAVED AREAS.
 3. SHAPE BASIN SO THAT LONGEST FLOW AREA FACES LONGEST LENGTH OF TRAP.



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3A)
NTS

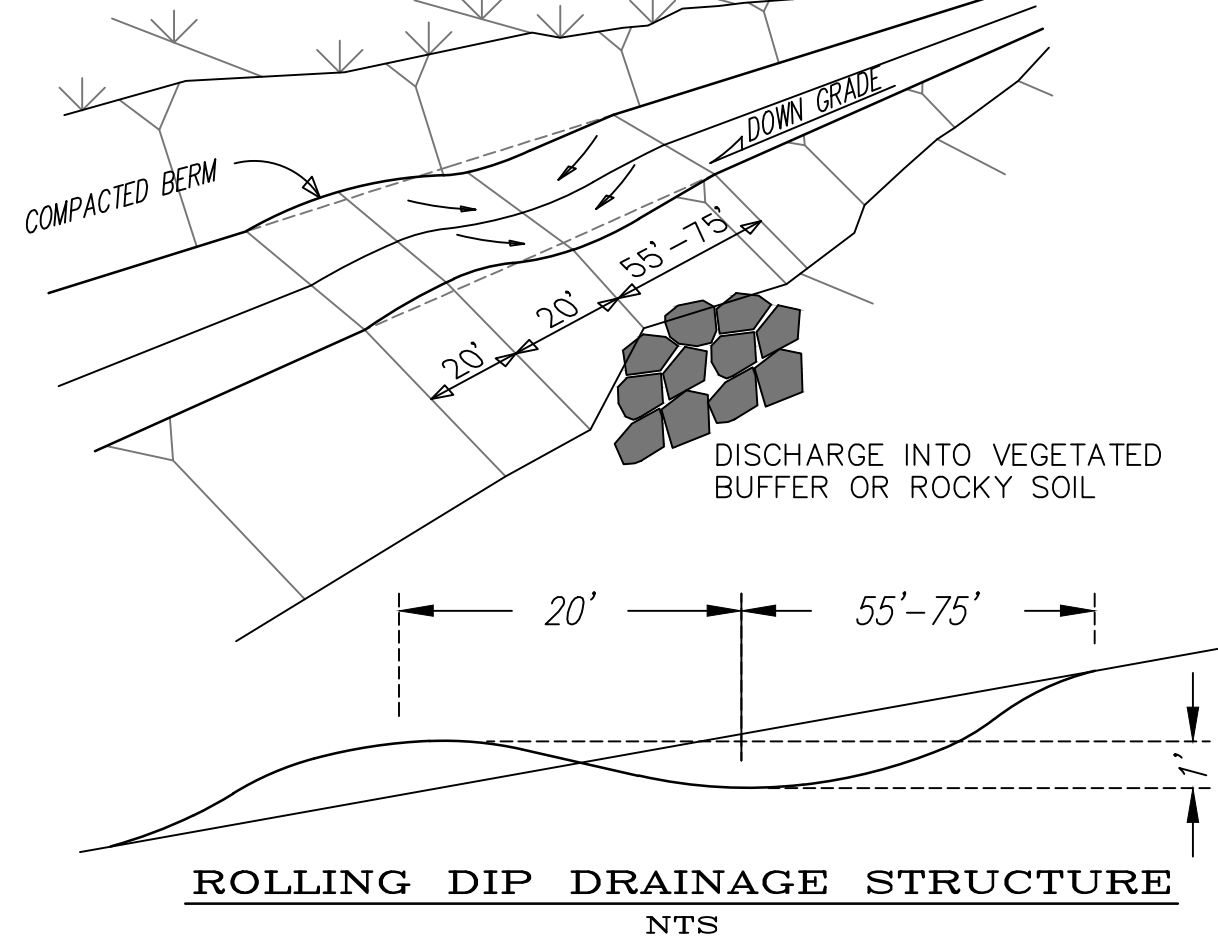


TEMPORARY CONCRETE WAHSOUT FACILITY
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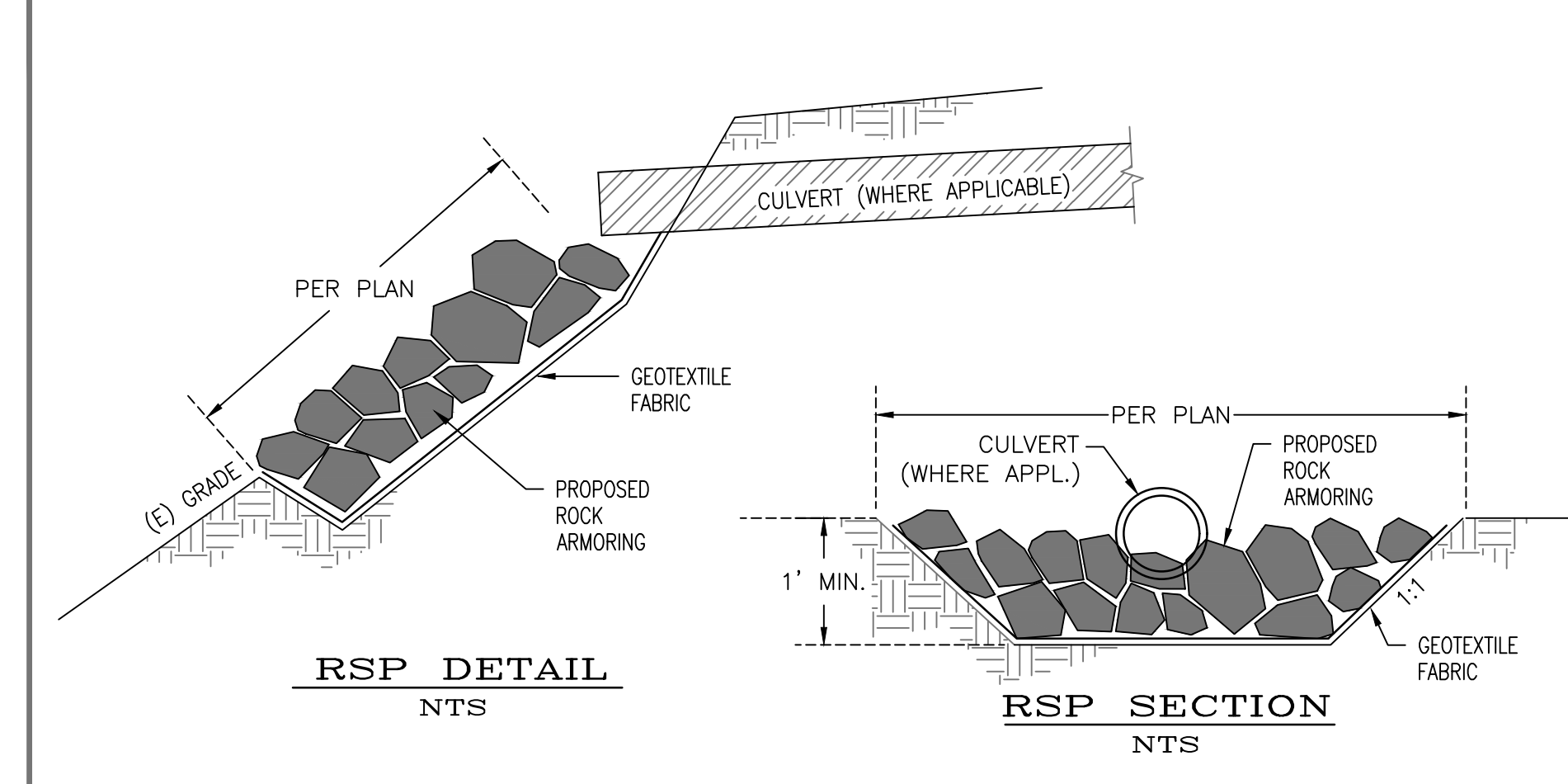


WATER BAR DRAINAGE STRUCTURE
NTS

- CONSTRUCTION NOTES:**
1. LOCATE DRAINAGE STRUCTURE WHERE THEY CAN TAKE ADVANTAGE OF NATURAL DRAINAGE FEATURES AND MINIMIZE EROSION.
 2. ALL DRAINAGE FEATURES SHALL BEGIN AT THE INTERSECTION OF THE ROADBED AND CUT SLOPE AND RUN ACROSS THE ENTIRE WIDTH OF THE ROADBED.
 3. THE CROSS SLOPE OF DRAINAGE FEATURES SHALL BE A MINIMUM 3%-5% GRADE.
 4. DRAINAGE FEATURES SHALL BE SURFACED WITH 4" OF 1-1/2" ROAD BASE.
 5. ALL DRAINAGE FEATURES SHALL HAVE FREE FLOWING OUTLETS.
 6. PROVIDE 1/4 TON RIP RAP ARMORING AT OUTLETS.

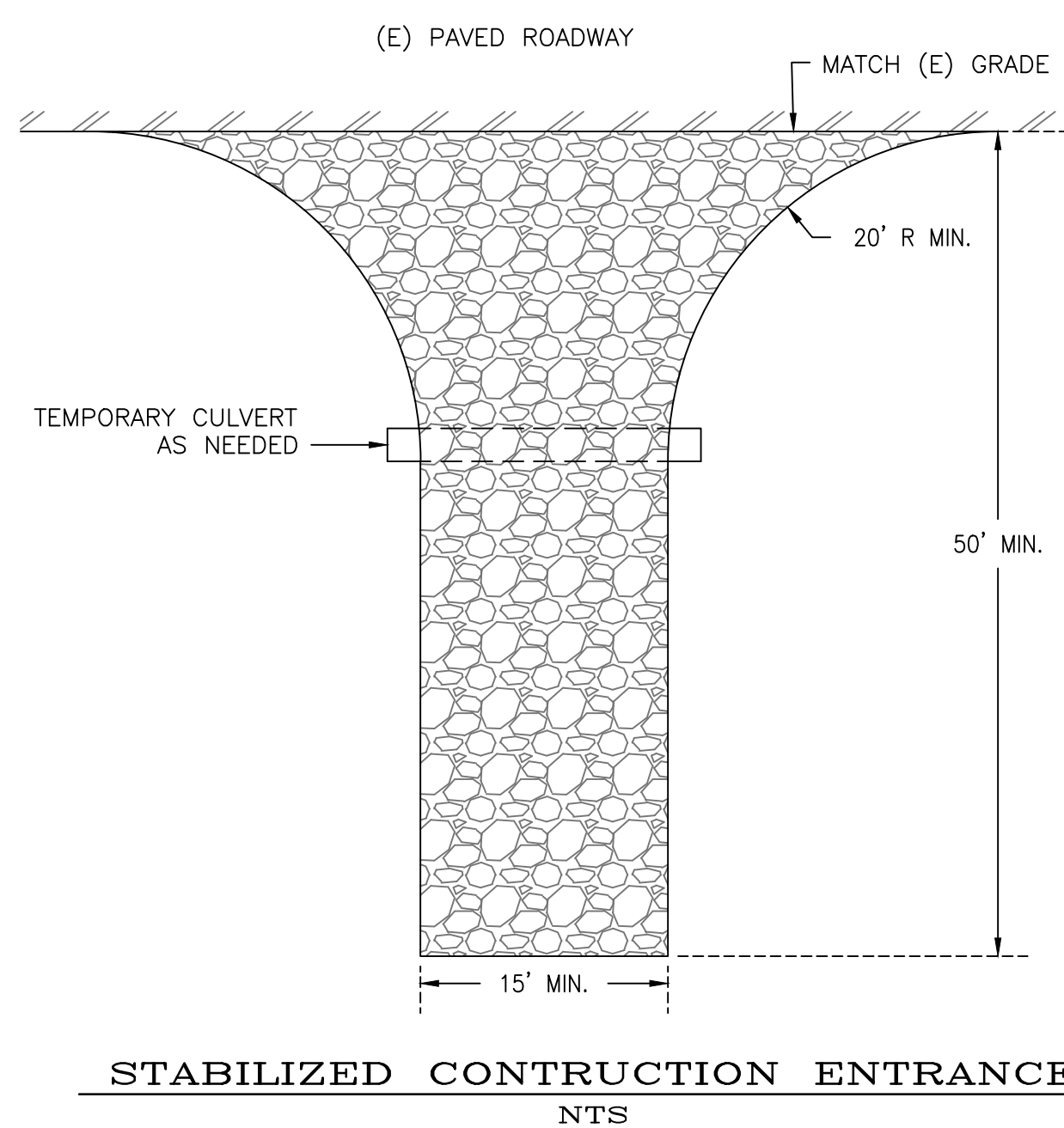


ROLLING DIP DRAINAGE STRUCTURE
NTS

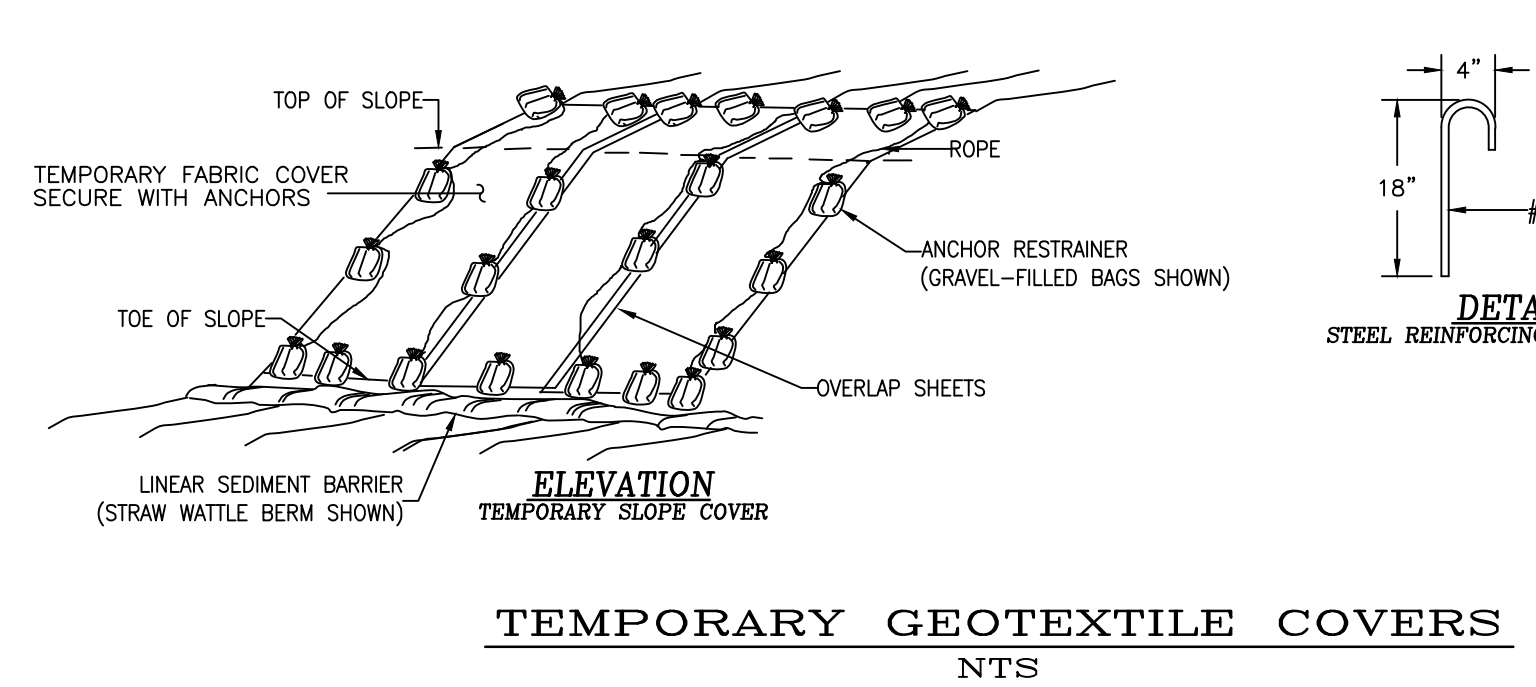


RSP DETAIL
NTS

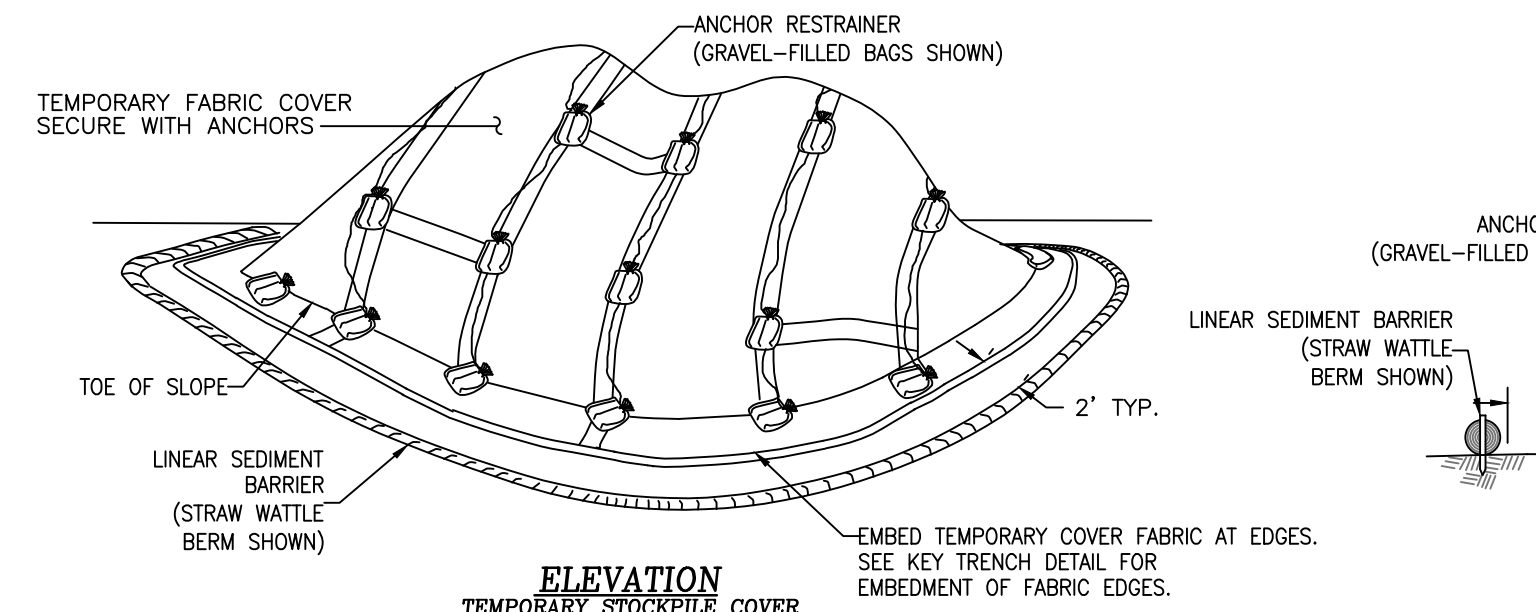
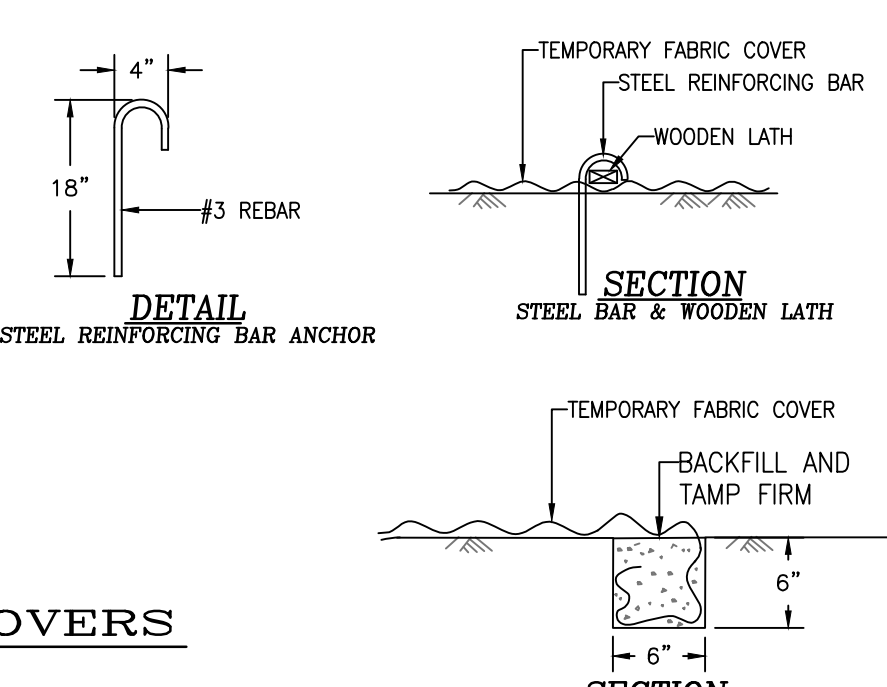
RSP SECTION
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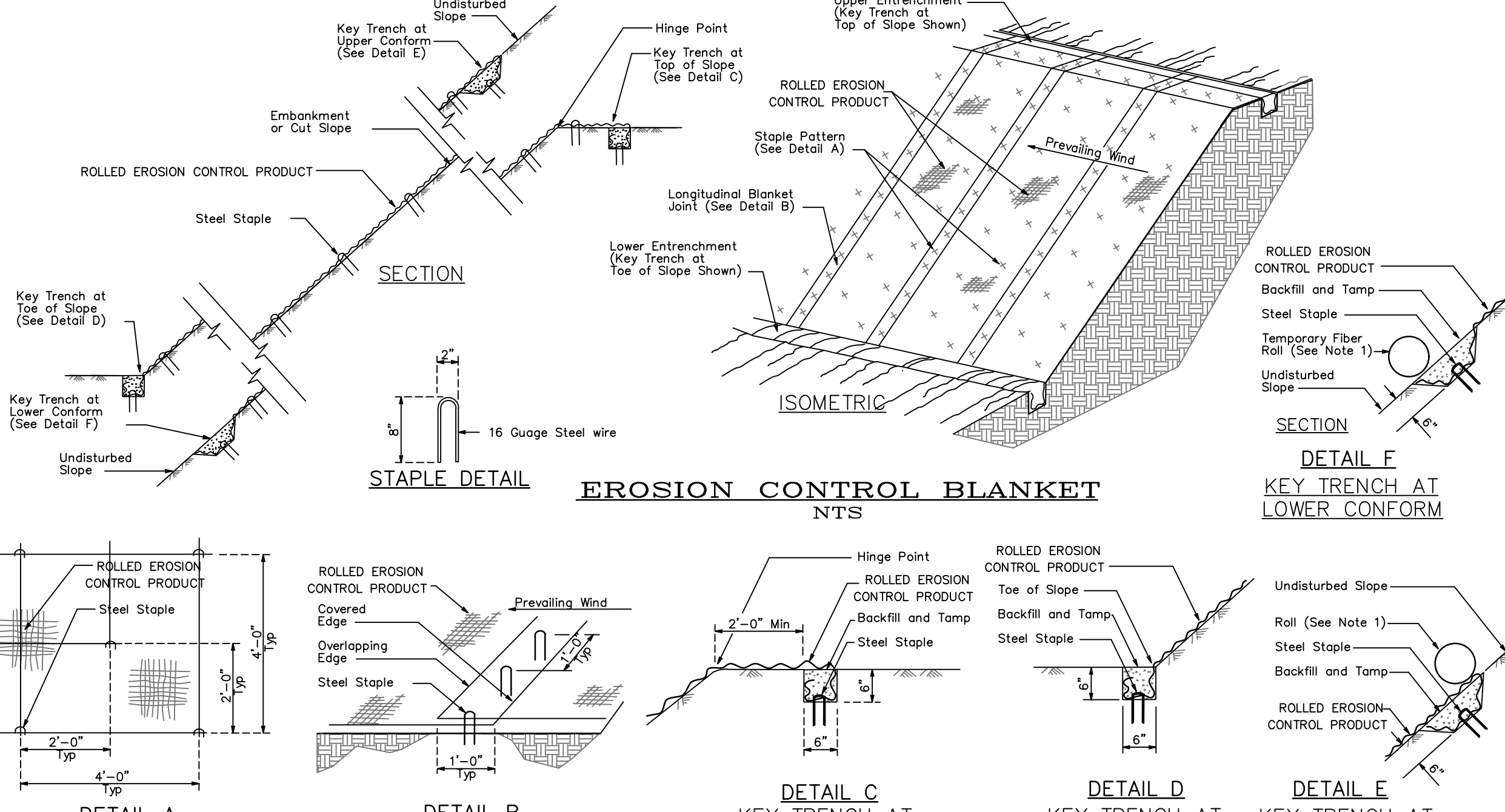
STABILIZED CONSTRUCTION ENTRANCE
NTS



TEMPORARY GEOTEXTILE COVERS
NTS



TEMPORARY STOCKPILE COVER



EROSION CONTROL BLANKET
NTS

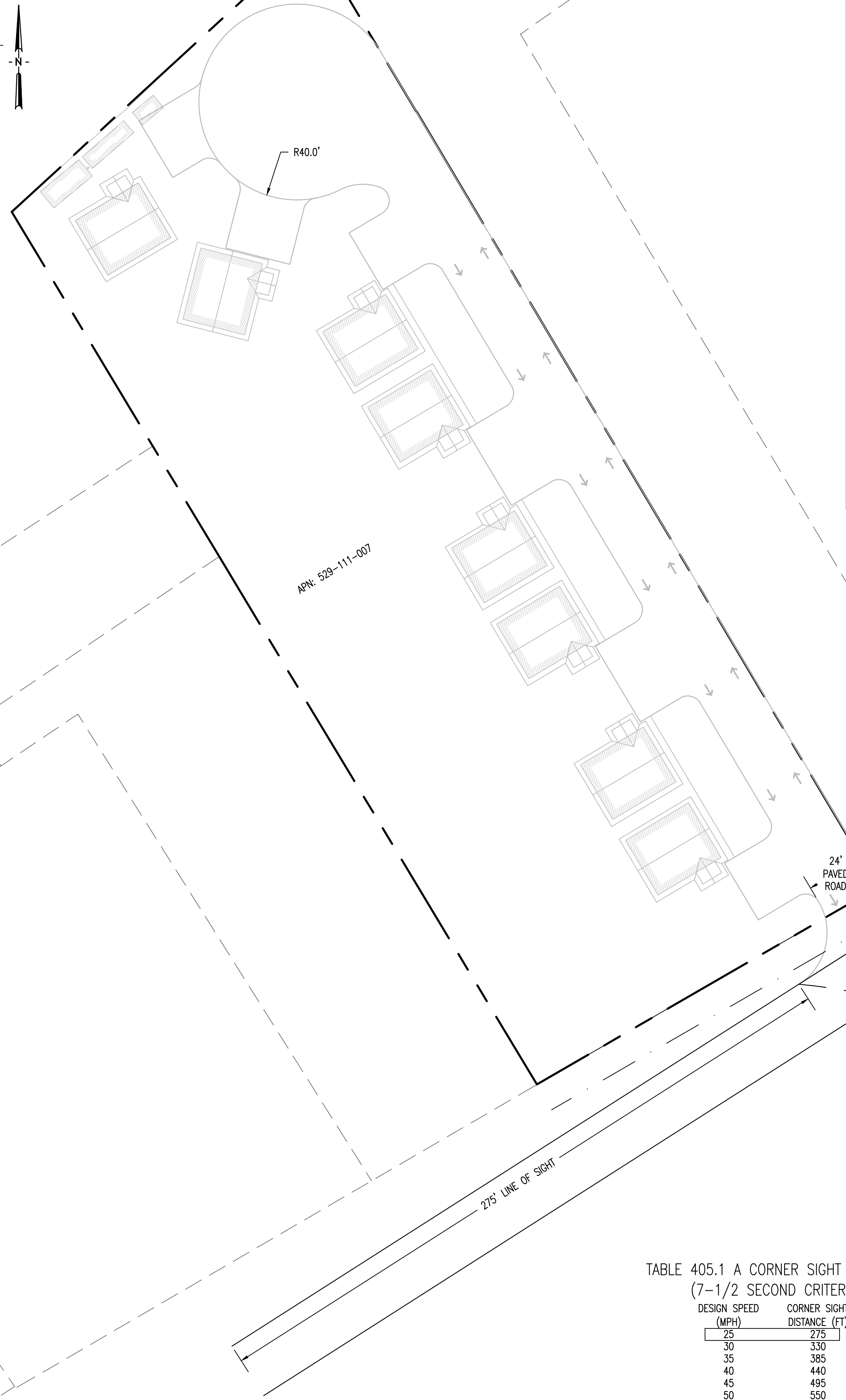
DETAIL A STAPLE PATTERN, DETAIL B LONGITUDINAL BLANKET JOINT, DETAIL C KEY TRENCH AT TOP OF SLOPE, DETAIL D KEY TRENCH AT TOE OF SLOPE, DETAIL E KEY TRENCH AT UPPER CONFORM

SS	JTM	FAM	FAM	DATE	DESCRIPTION

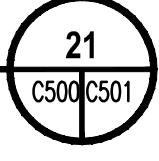
KARUK TRIBE HOUSING AUTHORITY
SITE CIVIL IMPROVEMENT PLANS
EROSION CONTROL DETAILS
ORLANDS, HUMBOLDT COUNTY, CALIFORNIA
APN: 529-111-007-000

DATE OF ISSUE:	DECEMBER 2023
SCALE:	AS SHOWN
PROJECT NO:	0236.02
DRAWING NO:	C602

PLAN VIEW
1"=30'
SCALE IN FEET



ROAD INTERSECTION
DETAIL



STOP SIGN W/
ROAD NAME SIGN

STOP

HWY 96

APN: 529-111-007

ORLEANS ELEMENTARY SCHOOL

275' LINE OF SIGHT

24' PAVED ROAD
HWY 96
25 MPH ZONE

12.0' FUTURE PEDESTRIAN CORRIDOR

HWY 96
25 MPH ZONE

TABLE 405.1 A CORNER SIGHT DISTANCE
(7-1/2 SECOND CRITERIA)

DESIGN SPEED (MPH)	CORNER SIGHT DISTANCE (FT)
25	275
30	330
35	385
40	440
45	495
50	550
55	605
60	660
65	715
70	770



REV	DATE	DESCRIPTION	APP'D BY	CHK'D BY
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12	12/18/2023	100% CD SET		

KARUK TRIBE HOUSING AUTHORITY
SITE CIVIL IMPROVEMENT PLANS
LINE OF SITE & ENCROACHMENT EXHIBIT
APN: 529-111-007-000
ORLEANS, HUMBOLDT COUNTY, CALIFORNIA

DATE OF ISSUE:

SCALE:
AS SHOWN

PROJECT NO:
0236.02

DRAWING NO:
C700

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