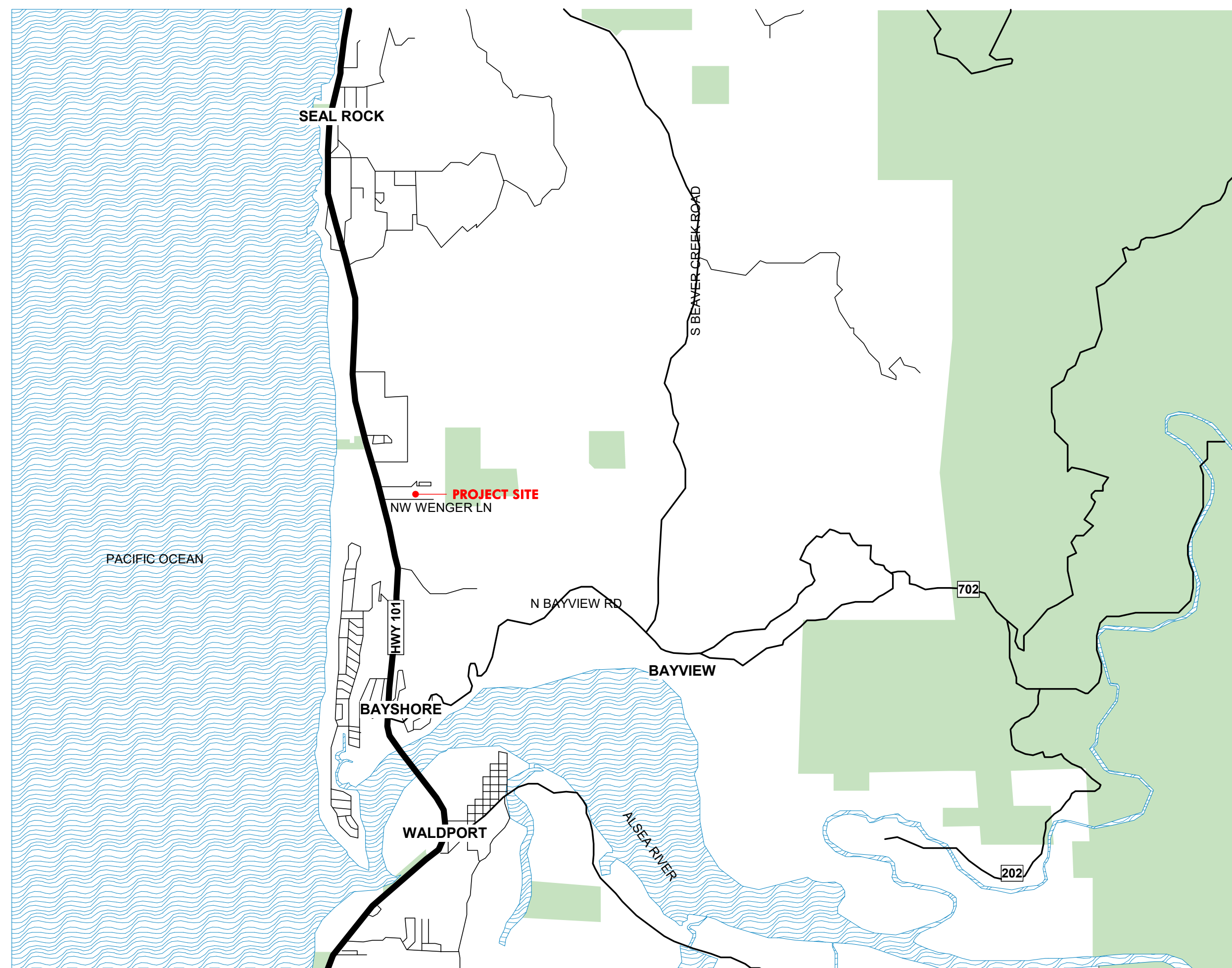


1 BIRDS EYE SITE
G0.00 SCALE:



3 SITE ENTRY PERSPECTIVE
G0.00 SCALE:



2 VICINITY MAP OVERALL
G0.00 SCALE: 1" = 1500'



UTILITY CONNECTION & MONITORING FACILITY



POWER CONDITIONING BUILDING
SWITCHGEAR BUILDING
CONTROL BUILDING

SEAL ROCK, OREGON

SHEET INDEX

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G2.10	EROSION CONTROL PLAN & NOTES
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E1.10	SITE PLAN - ELECTRICAL

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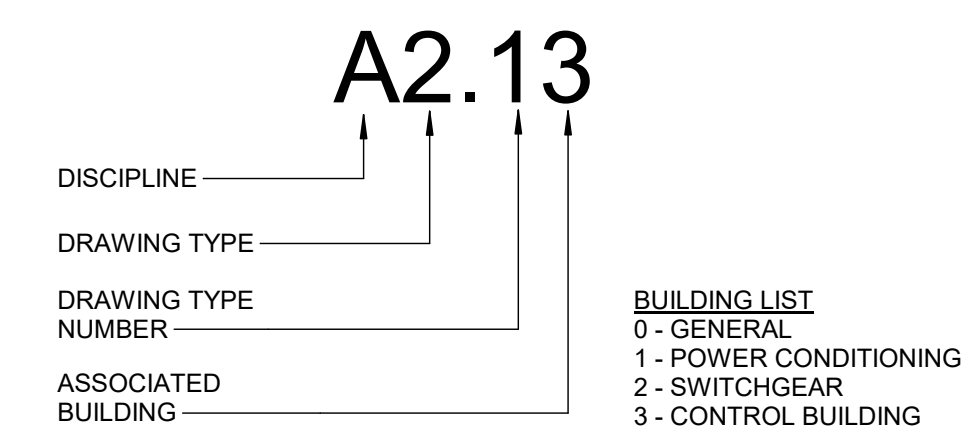
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SHEET NUMBER DIAGRAM



CONSTRUCTION

REVISIONS:	#	DATE	DESCRIPTION

DATE: MARCH 2020

SHEET TITLE:
TITLE SHEET

G0.00

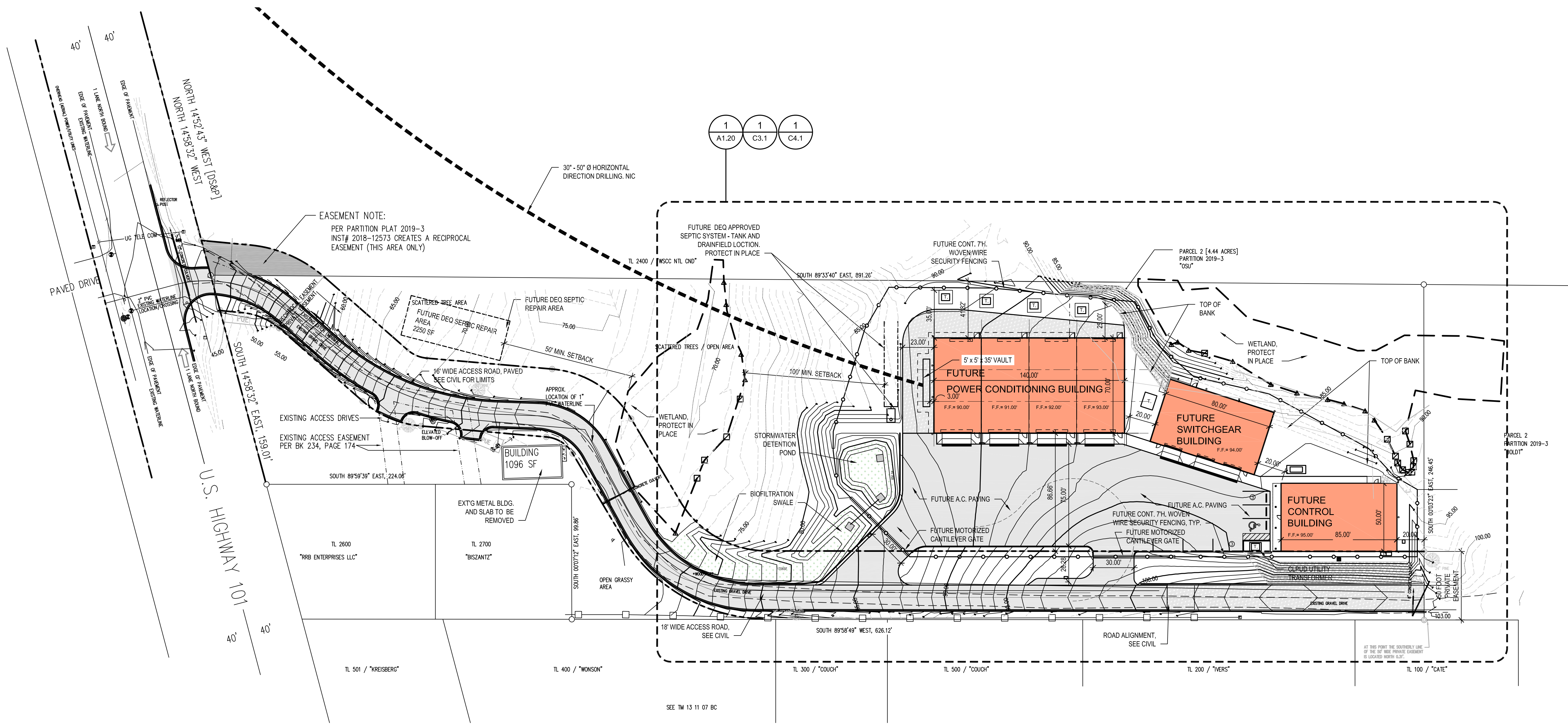
CONSTRUCTION DOCS

REVISIONS:
DATE DESCRIPTION

DATE: MARCH 2020

SHEET TITLE:
OVERALL SITE PLAN

G1.10



1 OVERALL SITE PLAN

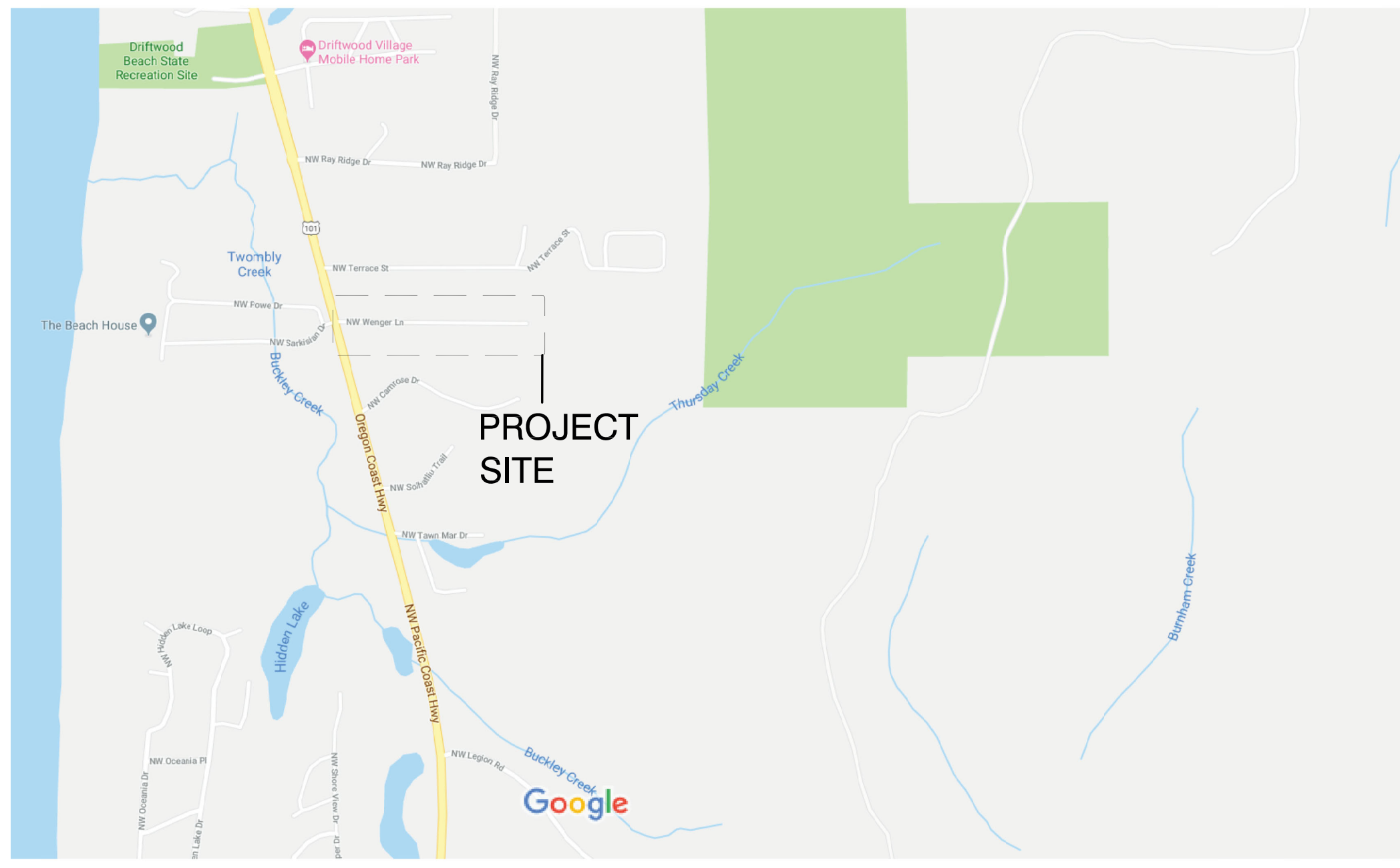
G1.10 SCALE: 1" = 20'

NOTE: THIS PLAN REFLECTS TOTAL SITE PREPARATION. BUILDING WORK TO BE PERFORMED IN FUTURE PHASE(S).

SCOPE OF WORK:

- SITE CLEARING & TREE REMOVAL WITHIN LIMITS OF CONSTRUCTION BOUNDARY. DO NOT DISTURB WETLAND AREAS - PROTECT IN PLACE.
- EXISTING METAL BUILDING & SLAB TO BE REMOVED.
- EROSION CONTROL: PROVIDE EROSION CONTROL MEASURES AS REQUIRED PER 1200-C PERMIT. SEE SHEET G2.10 ESC PLAN - PREGRADING. CONTRACTOR TO PROTECT ALL EXPOSED EARTH AREAS AS REQUIRED. PROVIDE RIPRAP AT SLOPE PROTECTION AREAS, EXCEPT AT FUTURE RAIN DRAIN OUTFALLS AT FUTURE SWITCHGEAR BUILDING.
- GRADING: EXCAVATION AND FILL OF ENTIRE PROJECT SITE TO SUBGRADE ELEVATIONS PER PLAN. EXPORT MATERIALS AS NECESSARY. ALL BUILDING PADS AND DRIVE AREAS TO INCLUDE 8 INCHES OF BASEROCK AT FUTURE PAVED AREAS AND 8" OF BASEROCK AT BUILDING PAD LOCATIONS.
- WENGER LANE IMPROVEMENTS TO INCLUDING PAVING TO STATION 3+47.
- UTILITIES: CONTRACTOR TO INSTALL ALL UNDERGROUND UTILITIES AS SHOWN ON DRAWINGS INCLUDING COMPLETE INSTALLATION OF WATERLINE, HYDRANTS, STORM DRAIN CULVERTS, DRAINAGE SWALES AND ELECTRICAL CONDUIT AND VAULTS. CONTRACTOR TO COORDINATE WITH CENTRAL LINCOLN PUD (POWER UTILITY) TO SET TRANSFORMER AND PROVIDE TEMPORARY POWER TO THE SITE.
- GRADING: ALL BUILDING PADS AND DRIVE AREAS TO INCLUDE 8 INCHES OF BASEROCK AT FUTURE PAVED AREAS AND 8" OF BASEROCK AT BUILDING PAD LOCATIONS. NO AC PAVING THIS PHASE.
- STORMWATER IMPROVEMENTS: INSTALL STORMWATER DETENTION POND, BIOFILTRATION SWALE AND FLOW CONTROL STRUCTURES AS SHOWN ON DRAWINGS. SEED WITH BIOFILTRATION SEED MIX PER SPECIFICATION. PROVIDE EROSION CONTROL MEASURES UNTIL VEGETATION IS ESTABLISHED.
- HWY 101 DRIVEWAY ACCESS IMPROVEMENTS: PAVE FROM HWY 101 TO EXISTING METAL BUILDING LOCATION, STA. 3+47, AS SHOWN ON DRAWINGS. REFER TO SHEET C2.1 NW WENGER LANE PLAN & PROFILE.
- CONTRACTOR TO FURNISH A COMPLETE SET OF AS-BUILT DRAWINGS UPON COMPLETION. REFER TO PROJECT MANUAL DIVISION 1 REQUIREMENTS.

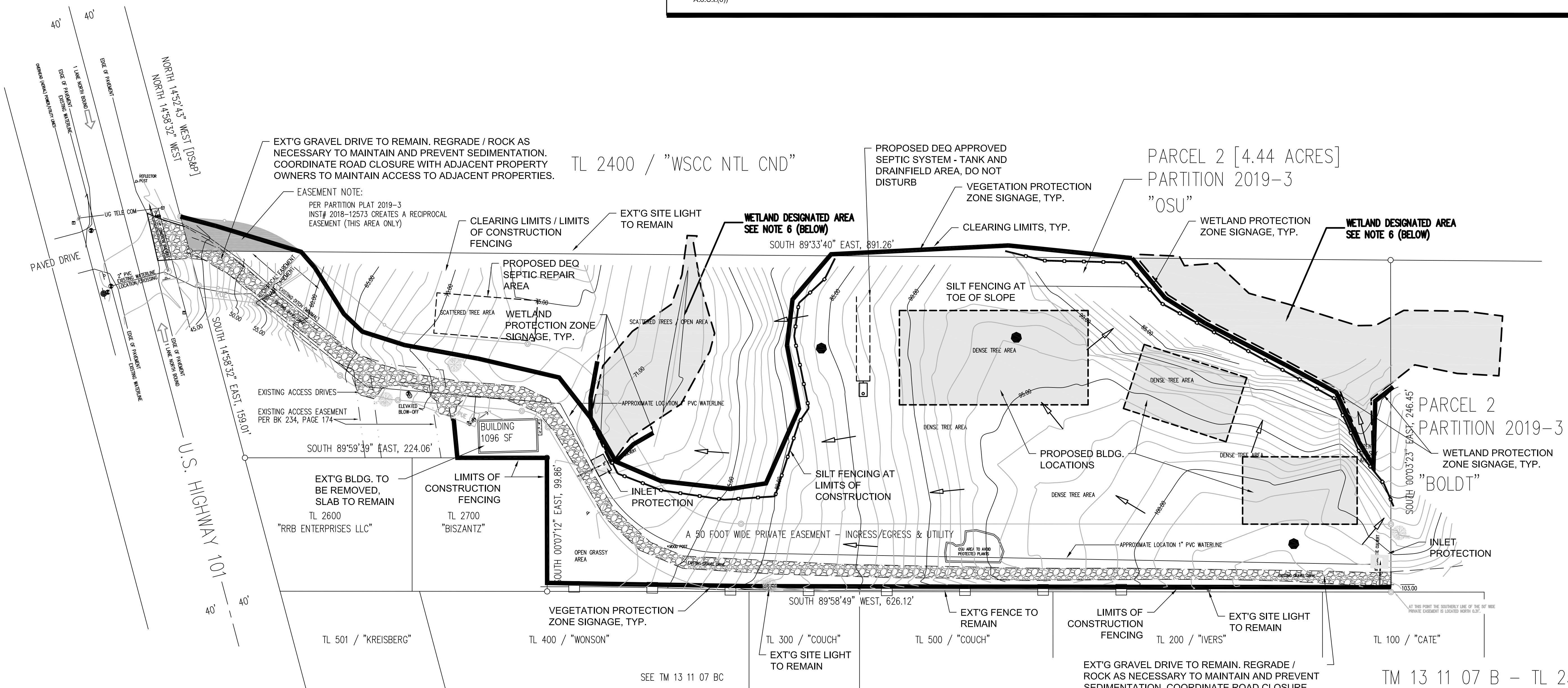
Seal Rock



1 VICINITY MAP
 CO.10 SCALE: NOT TO SCALE

EROSION & SEDIMENT CONTROL NOTES PER OREGON DEQ:

- HOLD A PRE-CONSTRUCTION MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE INSPECTOR TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS. (SCHEDULE A.8.C.I.(3))
- ALL INSPECTIONS MUST BE MADE IN ACCORDANCE WITH DEQ 1200-C PERMIT REQUIREMENTS. (SCHEDULE A.12.B AND SCHEDULE B.1)
- INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200-C PERMIT REQUIREMENTS. (SCHEDULE B.1.C AND B.2)
- RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY. DURING INACTIVE PERIODS OF GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS, THE ABOVE RECORDS MUST BE RETAINED BY THE PERMIT REGISTRANT BUT DO NOT NEED TO BE AT THE CONSTRUCTION SITE. (SCHEDULE B.2.C)
- ALL PERMIT REGISTRANTS MUST IMPLEMENT THE ESCP. FAILURE TO IMPLEMENT ANY OF THE CONTROL MEASURES OR PRACTICES DESCRIBED IN THE ESCP IS A VIOLATION OF THE PERMIT. (SCHEDULE A.8.A)
- THE ESCP MUST BE ACCURATE AND REFLECT SITE CONDITIONS. (SCHEDULE A.12.C.I)
- SUBMISSION OF ALL ESCP REVISIONS IS NOT REQUIRED. SUBMITTAL OF THE ESCP REVISIONS IS ONLY UNDER SPECIFIC CONDITIONS. SUBMIT ALL NECESSARY REVISION TO DEQ OR AGENT WITHIN 10 DAYS. (SCHEDULE A.12.C.IV AND V)
- PHASE CLEARING AND GRADING TO THE MAXIMUM EXTENT PRACTICAL TO PREVENT EXPOSED INACTIVE AREAS FROM BECOMING A SOURCE OF EROSION. (SCHEDULE A.7.A.III)
- IDENTIFY, MARK, AND PROTECT (BY CONSTRUCTION FENCING OR OTHER MEANS) CRITICAL RIPARIAN AREAS AND VEGETATION INCLUDING IMPORTANT TREES AND ASSOCIATED ROOTING ZONES, AND VEGETATION AREAS TO BE PRESERVED. IDENTIFY VEGETATIVE BUFFER ZONES BETWEEN THE SITE AND SENSITIVE AREAS (E.G., WETLANDS), AND OTHER AREAS TO BE PRESERVED, ESPECIALLY IN PERIMETER AREAS. (SCHEDULE A.8.C.I.(1) AND (2))
- PRESERVE EXISTING VEGETATION WHEN PRACTICAL AND RE-VEGETATE OPEN AREAS. RE-VEGETATE OPEN AREAS WHEN PRACTICABLE BEFORE AND AFTER GRADING OR CONSTRUCTION. IDENTIFY THE TYPE OF VEGETATIVE SEED MIX USED. (SCHEDULE A.7.A.V)
- MAINTAIN AND DELINEATE ANY EXISTING NATURAL BUFFER WITHIN THE 50-FOOT OF WATERS OF THE STATE. (SCHEDULE A.7.B.I AND (2)(A)(B))
- INSTALL PERIMETER SEDIMENT CONTROL, INCLUDING STORM DRAIN INLET PROTECTION AS WELL AS ALL SEDIMENT BASINS, TRAPS, AND BARRIERS PRIOR TO LAND DISTURBANCE. (SCHEDULE A.8.C.I.(5))
- CONTROL BOTH PEAK FLOW RATES AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS AND DOWNSTREAM CHANNELS AND STREAMBANKS. (SCHEDULE A.7.C)
- CONTROL SEDIMENT AS NEEDED ALONG THE SITE PERIMETER AND AT ALL OPERATIONAL INTERNAL STORM DRAIN INLETS AT ALL TIMES DURING CONSTRUCTION, BOTH INTERNALLY AND AT THE SITE BOUNDARY. (SCHEDULE A.7.D.I)
- ESTABLISH CONCRETE TRUCK AND OTHER CONCRETE EQUIPMENT WASHOUT AREAS BEFORE BEGINNING CONCRETE WORK. (SCHEDULE A.8.C.I.(6))
- APPLY TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS AS GRADING PROGRESSES. TEMPORARY OR PERMANENT STABILIZATIONS MEASURES ARE NOT REQUIRED FOR AREAS THAT ARE INTENDED TO BE LEFT UNVEGETATED, SUCH AS DIRT ACCESS ROADS OR UTILITY POLE PADS. (SCHEDULE A.8.C.II.(3))
- ESTABLISH MATERIAL AND WASTE STORAGE AREAS, AND OTHER NON-STORMWATER CONTROLS. (SCHEDULE A.8.C.II.(7))
- PREVENT TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADS USING BMPs SUCH AS: CONSTRUCTION ENTRANCE, GRAVELED (OR PAVED) EXITS PAVED ROADS LOCATED ONSITE, OR USE AN EXIT TIRE WASH. THESE BMPs MUST BE IN PLACE PRIOR TO LAND-DISTURBING ACTIVITIES. (SCHEDULE A.7.D.II AND A.8.C.II.(4))
- WHEN TRUCKING SATURATED SOILS FROM THE SITE, EITHER USE WATER-TIGHT TRUCKS OR DRAIN LOADS ON SITE. (SCHEDULE A.7.D.II.(5))
- CONTROL PROHIBITED DISCHARGES FROM LEAVING THE CONSTRUCTION SITE, I.E., CONCRETE WASH-OUT, WASTEWATER FROM CLEANOUT OF STUCCO, PAINT AND CURING COMPOUNDS. (SCHEDULE A.8)
- USE BMPs TO PREVENT OR MINIMIZE STORMWATER EXPOSURE TO POLLUTANTS FROM SPILLS; VEHICLE AND EQUIPMENT FUELING, MAINTENANCE, AND STORAGE; OTHER CLEANING AND MAINTENANCE ACTIVITIES; AND WASTE HANDLING ACTIVITIES. THESE POLLUTANTS INCLUDE FUEL, HYDRAULIC FLUID, AND OTHER OILS FROM VEHICLES AND MACHINERY, AS WELL AS DEBRIS, FERTILIZER, PESTICIDES AND HERBICIDES, PAINTS, SOLVENTS, CURING COMPOUNDS AND ADHESIVES FROM CONSTRUCTION OPERATIONS. (SCHEDULE A.7.E.I.(2))
- IMPLEMENT THE FOLLOWING BMPs WHEN APPLICABLE: WRITTEN SPILL PREVENTION AND RESPONSE PROCEDURES, EMPLOYEE TRAINING ON SPILL PREVENTION AND PROPER DISPOSAL PROCEDURES, SPILL KITS IN ALL VEHICLES, REGULAR MAINTENANCE SCHEDULE FOR VEHICLES AND MACHINERY, MATERIAL DELIVERY AND STORAGE CONTROLS, TRAINING AND SIGNAGE, AND COVERED STORAGE AREAS FOR WASTE AND SUPPLIES. (SCHEDULE A.7.E.III.)
- USE WATER, SOIL-BINDING AGENT OR OTHER DUST CONTROL TECHNIQUE AS NEEDED TO AVOID WIND-BLOWN SOIL. (SCHEDULE A.7.A.IV)
- THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS TO MINIMIZE NUTRIENT RELEASES TO SURFACE WATERS. EXERCISE CAUTION WHEN USING TIME-RELEASE FERTILIZERS WITHIN ANY WATERWAY RIPARIAN ZONE. (SCHEDULE A.9.B.III)
- IF AN ACTIVE TREATMENT SYSTEM (FOR EXAMPLE, ELECTRO-COAGULATION, FLOCCULATION, FILTRATION, ETC.) FOR SEDIMENT OR OTHER POLLUTANT REMOVAL IS EMPLOYED, SUBMIT AN OPERATION AND MAINTENANCE PLAN (INCLUDING SYSTEM SCHEMATIC, LOCATION OF SYSTEM, LOCATION OF INLET, LOCATION OF DISCHARGE, DISCHARGE DISPERSION DEVICE DESIGN, AND A SAMPLING PLAN AND FREQUENCY) BEFORE OPERATING THE TREATMENT SYSTEM. OBTAIN AGRICULTURAL APPROVAL BEFORE OPERATING THE TREATMENT SYSTEM. OPERATE AND MAINTAIN THE TREATMENT SYSTEM ACCORDING TO MANUFACTURER'S SPECIFICATIONS. (SCHEDULE A.9.D)
- TEMPORARILY STABILIZE SOILS AT THE END OF THE SHIFT BEFORE HOLIDAYS AND WEEKENDS, IF NEEDED. THE REGISTRANT IS RESPONSIBLE FOR ENSURING THAT SOILS ARE STABLE DURING RAIN EVENTS AT ALL TIMES OF THE YEAR. (SCHEDULE A.7.B)
- AS NEEDED BASED ON WEATHER CONDITIONS, AT THE END OF EACH WORKDAY SOIL STOCKPILES MUST BE STABILIZED OR COVERED, OR OTHER BMPs MUST BE IMPLEMENTED TO PREVENT DISCHARGES TO SURFACE WATERS OR CONVEYANCE SYSTEMS LEADING TO SURFACE WATERS. (SCHEDULE A.7.E.II.(2))
- CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVATION AND BARE GROUND ACTIVITIES DURING WET WEATHER. (SCHEDULE A.7.A.I)
- SEDIMENT FENCE: REMOVE TRAPPED SEDIMENT BEFORE IT REACHES ONE THIRD OF THE ABOVE GROUND FENCE HEIGHT AND BEFORE FENCE REMOVAL. (SCHEDULE A.9.C.I)
- OTHER SEDIMENT BARRIERS (SUCH AS BIOBAGS); REMOVE SEDIMENT BEFORE IT REACHES TWO INCHES DEPTH ABOVE GROUND HEIGHT AND BEFORE BMP REMOVAL. (SCHEDULE A.9.C.II)
- CATCH BASINS: CLEAN BEFORE RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT. SEDIMENT BASINS AND SEDIMENT TRAPS: REMOVE TRAPPED SEDIMENTS BEFORE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT AND AT COMPLETION OF PROJECT. (SCHEDULE A.9.C.III & IV)
- WITHIN 24 HOURS, SIGNIFICANT SEDIMENT THAT HAS LEFT THE CONSTRUCTION SITE, MUST BE REMEDIATED. INVESTIGATE THE CAUSE OF THE SEDIMENT RELEASE AND IMPLEMENT STEPS TO PREVENT A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. ANY IN-STREAM CLEAN-UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DIVISION OF STATE LANDS REQUIRED TIMEFRAME. (SCHEDULE A.9.B.I)
- THE INTENTIONAL WASHING OF SEDIMENT INTO STORM SEWERS OR DRAINAGE WAYS MUST NOT OCCUR. VACUUMING OR DRY SWEEPING AND MATERIAL PICKUP MUST BE USED TO CLEANUP RELEASED SEDIMENTS. (SCHEDULE A.9.B.II)
- THE ENTIRE SITE MUST BE TEMPORARILY STABILIZED USING VEGETATION OR A HEAVY MULCH LAYER, TEMPORARY SEEDING, OR OTHER METHOD SHOULD ALL CONSTRUCTION ACTIVITIES CEASE FOR 30 DAYS OR MORE. (SCHEDULE A.7.F.I)
- PROVIDE TEMPORARY STABILIZATION FOR THAT PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITIES CEASE FOR 14 DAYS OR MORE WITH A COVERING OF BLOWN STRAW AND A TACKIFIER, LOOSE STRAW, OR AN ADEQUATE COVERING OF COMPOST MULCH UNTIL WORK RESUMES ON THAT PORTION OF THE SITE. (SCHEDULE A.7.F.II)
- DO NOT REMOVE TEMPORARY SEDIMENT CONTROL PRACTICES UNTIL PERMANENT VEGETATION OR OTHER COVER OF EXPOSED AREAS IS ESTABLISHED. ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED, ALL TEMPORARY EROSION CONTROLS AND RETAINED SOILS MUST BE REMOVED AND DISPOSED OF PROPERLY, UNLESS DOING SO CONFLICTS WITH LOCAL REQUIREMENTS. (SCHEDULE A.8.C.II.(1) AND D.3.C.II AND III)



1 ESC PLAN - PREGRADING
 CO.10 SCALE: 1"= 40'

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 Stephen A. Martell
 OREGON
 LANDSCAPE ARCHITECT
 EXPIRES: 06/1/2020

PROJECT NO.: 19.08
PACWAVE - UTILITY MONITORING & CONNECTIONS FACILITY - PHASE 1: SITE PREP
 OREGON STATE UNIVERSITY
 SEAL ROCK, OREGON

CONSTRUCTION DOCS	
REVISIONS:	DESCRIPTION
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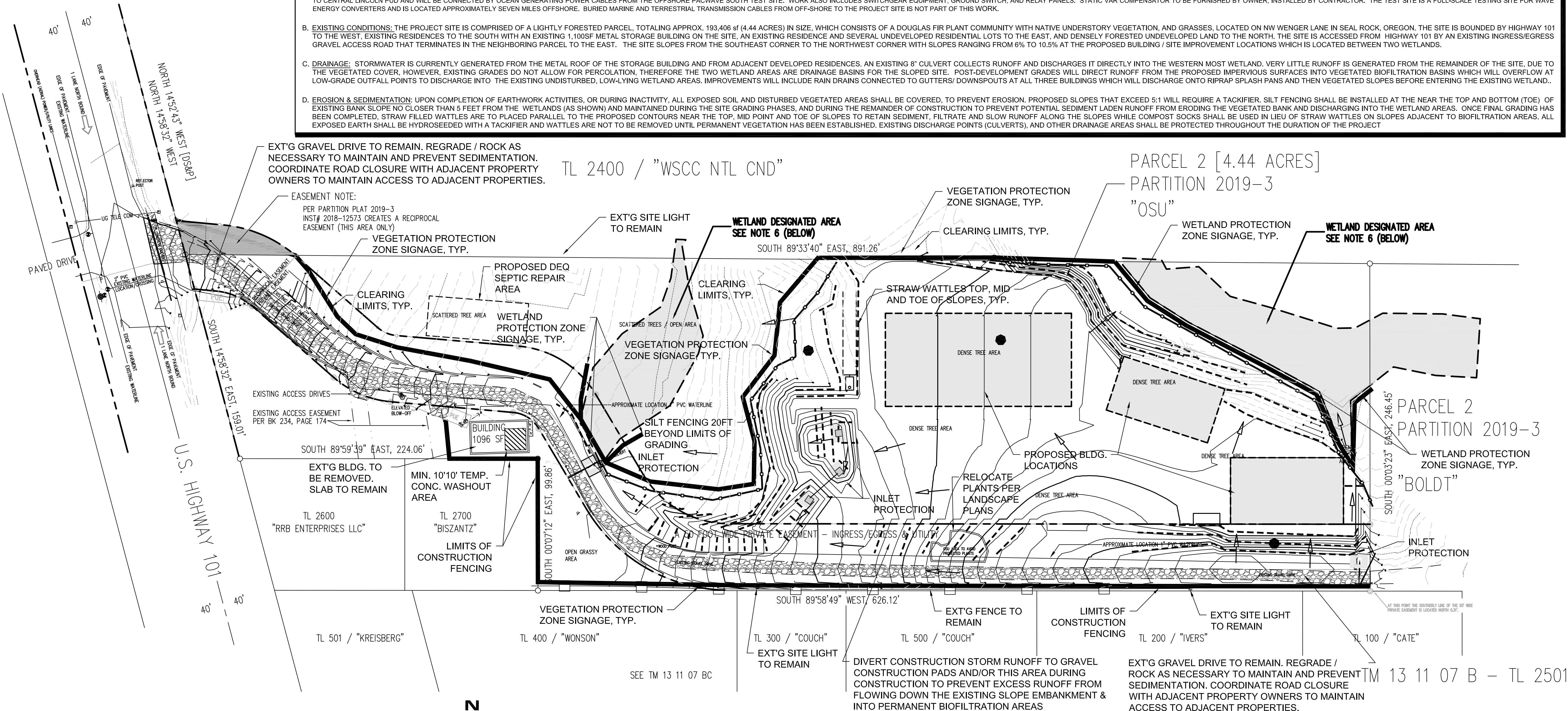
DATE: MARCH 2020
 SHEET TITLE:
EROSION CONTROL NOTES & VICINITY MAP

G2.10

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PROJECT NARRATIVE:

- A. PURPOSE:** THE PROJECT CONSISTS OF THE CONSTRUCTION OF THREE BUILDINGS AND SITE IMPROVEMENTS ON A 4.44 ACRE UNIMPROVED PARCEL OF PROPERTY, NEAR SEAL ROCK, LINCOLN COUNTY, ON HIGHWAY 101, APPROXIMATELY 10 MILES SOUTH OF NEWPORT, OREGON. SITE IMPROVEMENTS INCLUDE CLEARING, EARTHWORK, GRADING, AND TYPICAL SITE PREPARATION FOR BUILDING CONSTRUCTION, PAVING, STORM DRAINAGE, WATERLINE IMPROVEMENTS, SIDEWALKS AND FENCING. THE EXISTING PRIVATE GRAVEL DRIVE, WENGER LANE, WHICH EXTENDS THRU THE SITE TO ADJACENT PROPERTIES WILL BE REGRADED, WIDENED AND PAVED INCLUDING A REPLACEMENT WATERLINE. THE BUILDINGS CONSIST OF A POWER CONDITIONING BUILDING, 140 FEET BY 80 FEET, AND A SWITCHGEAR BUILDING, 80 FEET X 48 FEET, BOTH TO BE CONSTRUCTED AS PRE-ENGINEERED METAL BUILDINGS (PEMB). THE THIRD BUILDING WILL BE A CONTROL BUILDING, 85 FEET X 50', WOOD FRAMED SLAB-ON-GRADE. SPECIALTY ELECTRICAL EQUIPMENT TO BE HOUSED IN THE BUILDINGS AND IS ALSO PART OF THE WORK. THIS FACILITY WILL BE GRID CONNECTED TO CENTRAL LINCOLN PUD AND WILL BE CONNECTED BY OCEAN GENERATING POWER CABLES FROM THE OFFSHORE PACWAVE SOUTH TEST SITE. WORK ALSO INCLUDES SWITCHGEAR EQUIPMENT, GROUND SWITCH, AND RELAY PANELS. STATIC VAR COMPENSATOR TO BE FURNISHED BY OWNER, INSTALLED BY CONTRACTOR. THE TEST SITE IS A FULL-SCALE TESTING SITE FOR WAVE ENERGY CONVERTERS AND IS LOCATED APPROXIMATELY SEVEN MILES OFFSHORE. BURIED MARINE AND TERRESTRIAL TRANSMISSION CABLES FROM OFF-SHORE TO THE PROJECT SITE IS NOT PART OF THIS WORK.
- B. EXISTING CONDITIONS:** THE PROJECT SITE IS COMPRISED OF A LIGHTLY FORESTED PARCEL, TOTALING APPROX. 193,406 sf (4.44 ACRES) IN SIZE, WHICH CONSISTS OF A DOUGLAS FIR PLANT COMMUNITY WITH NATIVE UNDERSTORY VEGETATION, AND GRASSES, LOCATED ON NW WENGER LANE IN SEAL ROCK, OREGON. THE SITE IS BOUNDED BY HIGHWAY 101 TO THE WEST, EXISTING RESIDENCES TO THE SOUTH WITH AN EXISTING 1,100SF METAL STORAGE BUILDING ON THE SITE, AND DENSELY FORESTED UNDEVELOPED LAND TO THE NORTH. THE SITE IS ACCESSED FROM HIGHWAY 101 BY AN EXISTING INGRESS/EGRESS GRAVEL ACCESS ROAD THAT TERMINATES IN THE NEIGHBORING PARCEL TO THE EAST. THE SITE SLOPES FROM THE SOUTHEAST CORNER TO THE NORTHWEST CORNER WITH SLOPES RANGING FROM 6% TO 10.5% AT THE PROPOSED BUILDING / SITE IMPROVEMENT LOCATIONS WHICH IS LOCATED BETWEEN TWO WETLANDS.
- C. DRAINAGE:** STORMWATER IS CURRENTLY GENERATED FROM THE METAL ROOF OF THE STORAGE BUILDING AND FROM ADJACENT DEVELOPED RESIDENCES. AN EXISTING 8" CULVERT COLLECTS RUNOFF AND DISCHARGES IT DIRECTLY INTO THE WESTERN MOST WETLAND. VERY LITTLE RUNOFF IS GENERATED FROM THE REMAINDER OF THE SITE, DUE TO THE VEGETATED COVER, HOWEVER, EXISTING GRADES DO NOT ALLOW FOR PERCOLATION, THEREFORE THE TWO WETLAND AREAS ARE DRAINAGE BASINS FOR THE SLOPED SITE. POST-DEVELOPMENT GRADES WILL DIRECT RUNOFF FROM THE PROPOSED IMPERVIOUS SURFACES INTO VEGETATED BIOFILTRATION BASINS WHICH WILL OVERFLOW AT LOW-GRADE OUTFALL POINTS TO DISCHARGE INTO THE EXISTING UNDISTURBED, LOW-LYING WETLAND AREAS. IMPROVEMENTS WILL INCLUDE RAIN DRAINS CONNECTED TO GUTTERS/ DOWNSPOUTS AT ALL THREE BUILDINGS WHICH WILL DISCHARGE ONTO RIPRAP SPLASH PANS AND THEN VEGETATED SLOPES BEFORE ENTERING THE EXISTING WETLAND..
- D. EROSION & SEDIMENTATION:** UPON COMPLETION OF EARTHWORK ACTIVITIES, OR DURING INACTIVITY, ALL EXPOSED SOIL AND DISTURBED VEGETATED AREAS SHALL BE COVERED, TO PREVENT EROSION. PROPOSED SLOPES THAT EXCEED 5:1 WILL REQUIRE A TACKIFIER. SILT FENCING SHALL BE INSTALLED AT THE NEAR THE TOP AND BOTTOM (TOE) OF EXISTING BANK SLOPE NO CLOSER THAN 5 FEET FROM THE WETLANDS (AS SHOWN) AND MAINTAINED DURING THE SITE GRADING PHASES, AND DURING THE REMAINDER OF CONSTRUCTION TO PREVENT POTENTIAL SEDIMENT LADEN RUNOFF FROM ERODING THE VEGETATED BANK AND DISCHARGING INTO THE WETLAND AREAS. ONCE FINAL GRADING HAS BEEN COMPLETED, STRAW FILLED WATTLES ARE TO BE PLACED PARALLEL TO THE PROPOSED CONTOURS NEAR THE TOP, MID POINT AND TOE OF SLOPES TO RETAIN SEDIMENT, FILTRATE AND SLOW RUNOFF ALONG THE SLOPES WHILE COMPOST SOCKS SHALL BE USED IN LIEU OF STRAW WATTLES ON SLOPES ADJACENT TO BIOFILTRATION AREAS. ALL EXPOSED EARTH SHALL BE HYDROSEEDED WITH A TACKIFIER AND WATTLES ARE NOT TO BE REMOVED UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. EXISTING DISCHARGE POINTS (CULVERTS), AND OTHER DRAINAGE AREAS SHALL BE PROTECTED THROUGHOUT THE DURATION OF THE PROJECT



1 EROSION & SEDIMENT CONTROL PLAN
 CO.10 SCALE: 1" = 40'

SEED MIXTURE:

SEED MIXTURE: (OR APPROVED) NATIVE SALT TOLERANT EROSION CONTROL MIX AT 2LB. PER 1,000SF

SEEDING RATE:
 50% MEADOW BARLEY
 30% CALIFORNIA BROME
 8% ROEMER'S FESCUE
 5.5% STRAWBERRY CLOVER
 2% FAREWELL TO SPRING
 2% HOOKER'S EVENING PRIMROSE
 1.5% TUFTED HAIRGRASS
 1% SPICE BENTGRASS

INSPECTION SCHEDULE:

SITE CONDITION	MINIMUM FREQUENCY
ACTIVE PERIOD	1. DAILY, WHEN STORMWATER RUNOFF, INCLUDING RUNOFF FROM SNOW MELT, IS OCCURRING. 2. AT LEAST ONCE EVERY 14 DAYS, REGARDLESS OF WHETHER STORMWATER RUNOFF IS OCCURRING.
PRIOR TO THE SITE BECOMING INACTIVE OR IN ANTICIPATION OF SITE INACTIVITY	ONCE TO ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES ARE IN WORKING ORDER. ANY NECESSARY MAINTENANCE AND REPAIR MUST BE MADE PRIOR TO LEAVING THE SITE.
INACTIVE PERIODS GREATER THAN (14) CONSECUTIVE CALENDAR DAYS	ONCE EVERY MONTH.
PERIODS DURING WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER	IF PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT AND ACCESSIBLE DISCHARGE POINT OR DOWNSTREAM LOCATION.
PERIODS DURING WHICH DISCHARGE IS UNLIKELY DUE TO FROZEN CONDITIONS	MONTHLY, RESUME MONITORING IMMEDIATELY UPON MELT, OR WHEN WEATHER CONDITIONS MAKE DISCHARGES LIKELY.

BMP MATRIX:

PART II: BMPs WITH ESC IMPLEMENTATION SCHEDULE FORM

The following controls and practices (BMPs), if appropriate for the site, are required in the ESC-P. Submission of all ESC-P revisions to DBQ are not required. ESC-P revisions must be submitted in 10 days for specific conditions. See 120A-C permit (Schedule A, 12 a-c).

BMPs	YEAR: 2020															
	MONTH:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Bioswales																
Check Dams																
Compost Bars																
Compost Blankets																
Compost Socks																
Concrete Truck Washout																
Construction Entrances																
Dewatering (treatment location, schematic, & sampling plan required)																
Drainage Swales																
Earth Dikes (Stabilized)																
Erosion Control Blankets & Mats (Specify type)																
Hydroseeding																
Inlet Protection																
Mulches (Specify Type) STRAW																
Mycorrhizae/Biofertilizers																
Natural Buffer Zone																
Orange Fencing (protecting sensitive/preserved areas)																
Outlet Protection																
Permanent Seeding and Planting																
Pipe Slope Drains																
Plastic Sheetpiling																
Protective Seeding/Vegetation																
Sediment Fencing																
Sediment Barrier																
Sediment Trap																
Sodding																
Soil Tackifiers																
Storm Drain Inlet Protection																
Straw Wattles (or other materials)																
Temporary Diversion Dikes																
Temporary or Permanent Sedimentation Basins																
Temporary Seeding and Planting																
Treatment Systems (O & M plan required)																
Unpaved roads gravelled or other BMP on the road																
Vegetative Buffer Strips																

SYMBOL SCHEDULE:

	LIMITS OF CONSTRUCTION		INLET PROTECTION
	SEDIMENT FENCING		EXISTING DRAINAGE
	STRAW WATTLES		CONSTRUCTION GRAVEL AREA

- ESC PLAN NOTES:**
- ALL BASE ESC PLAN BMPs MUST BE IN PLACE (SEDIMENT FENCE, INLET PROTECTION), FUNCTIONAL, AND APPROVED IN INITIAL INSPECTION, PRIOR TO THE COMMENCEMENT OF SITE PREPARATION (DEMOLITION, CLEARING, UTILITY TRENCHING, GRADING, ETC.) CONSTRUCTION ACTIVITIES.
 - CONTRACTOR TO ADAPT AND UPDATE THIS EROSION CONTROL PLAN AS NECESSARY TO PREVENT EROSION AND SEDIMENT LADEN STORMWATER FROM EXITING THE PROJECT SITE.
 - DO NOT SEED AFTER NOVEMBER 1 DUE TO LACK OF GERMINATION. USE TEMPORARY HYDRO-MULCH, WEED-FREE STRAW MULCH, OR OTHER APPROVED EROSION CONTROL METHODS.
 - MAINTAIN CUT SLOPES AT 2:1 MAXIMUM. COVER EXPOSED AREAS WITH MULCH AS NEEDED TO PREVENT EROSION. ALL STOCKPILE LOCATION SHALL REMAIN COVERED WHEN NOT IN ACTIVE USE AND AT END OF EACH DAY.
 - CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT AND EROSION CONTROL INSPECTOR OF CHANGES TO SITE CONDITIONS OR CONSTRUCTION SCHEDULES.

RATIONALE STATEMENT:

REFER TO THE DEQ GUIDANCE MANUAL FOR A COMPREHENSIVE LIST OF AVAILABLE BEST MANAGEMENT PRACTICES (BMP) OPTIONS. THESE BMPs HAVE BEEN REVIEWED TO COMPLETE THE EROSION AND SEDIMENT CONTROL PLAN. SOME OF THE LISTED BMPs WERE NOT CHOSEN BECAUSE THEY WERE DETERMINED TO NOT EFFECTIVELY MANAGE EROSION PREVENTION AND SEDIMENT CONTROL FOR THIS PROJECT BASED ON SPECIFIC SITE CONDITIONS, INCLUDING SOIL CONDITIONS, TOPOGRAPHIC CONSTRAINTS, ACCESSIBILITY TO THE SITE, AND OTHER RELATED CONDITIONS. AS THE PROJECT PROGRESSES AND THERE IS A NEED TO REVISE THE ESC PLAN, AN ACTION PLAN SHALL BE SUBMITTED BY THE CONTRACTOR.

HGE ARCHITECTS

333 S. 4TH STREET
 COOS BAY, OR 97420
 P: 541.269.1166
 general@hge1.com
 www.hge1.com

REGISTERED
 0932
 Stephanie A. Martell
 OREGON
 08/18/2007
 LANDSCAPE ARCHITECT
 EXPIRES: 08/1/2020

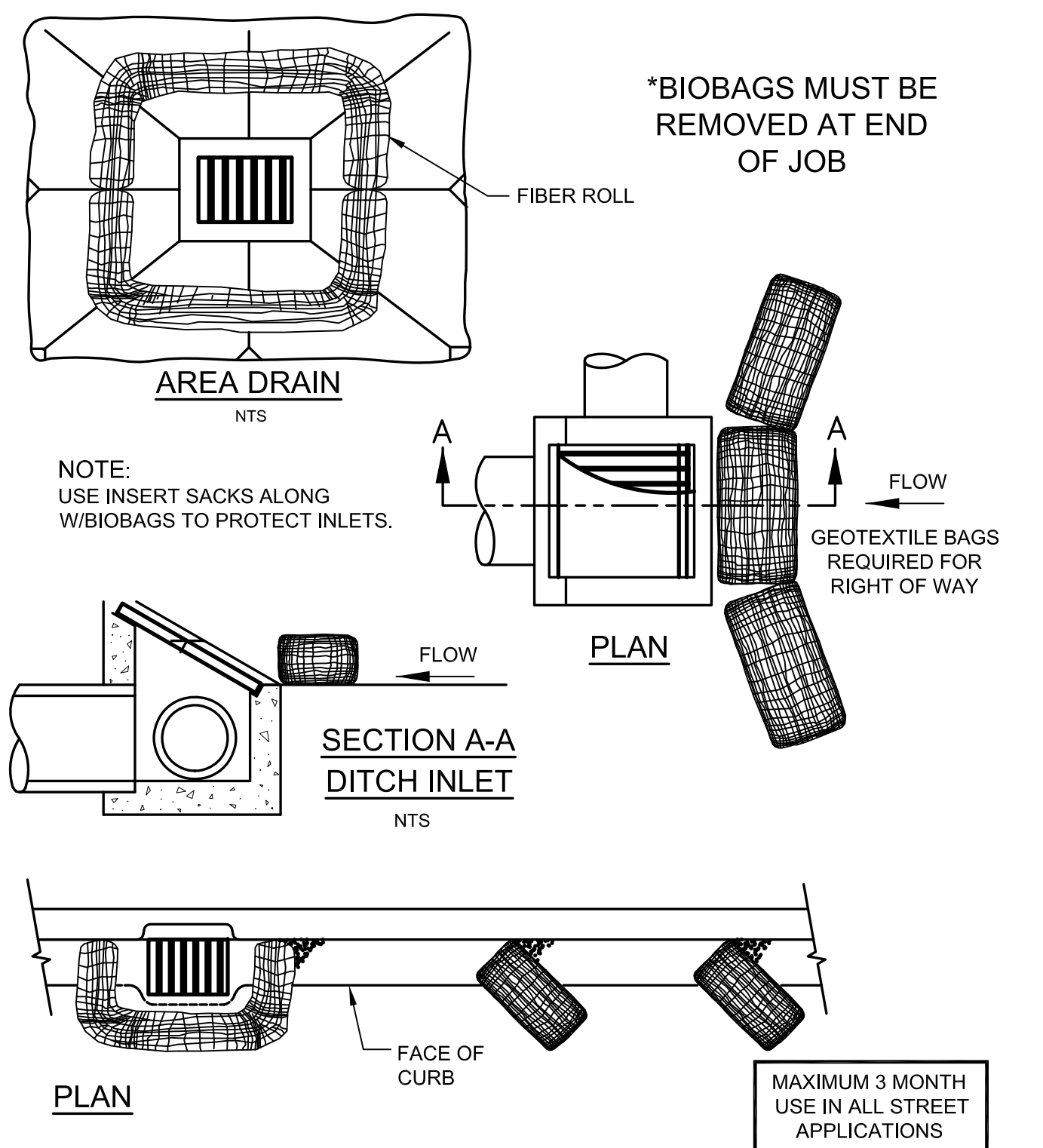
PROJECT NO.: 19.08
PACWAVE - UTILITY MONITORING & CONNECTIONS FACILITY - PHASE 1: SITE PREP
 OREGON STATE UNIVERSITY
 SEAL ROCK, OREGON

CONSTRUCTION DOCS

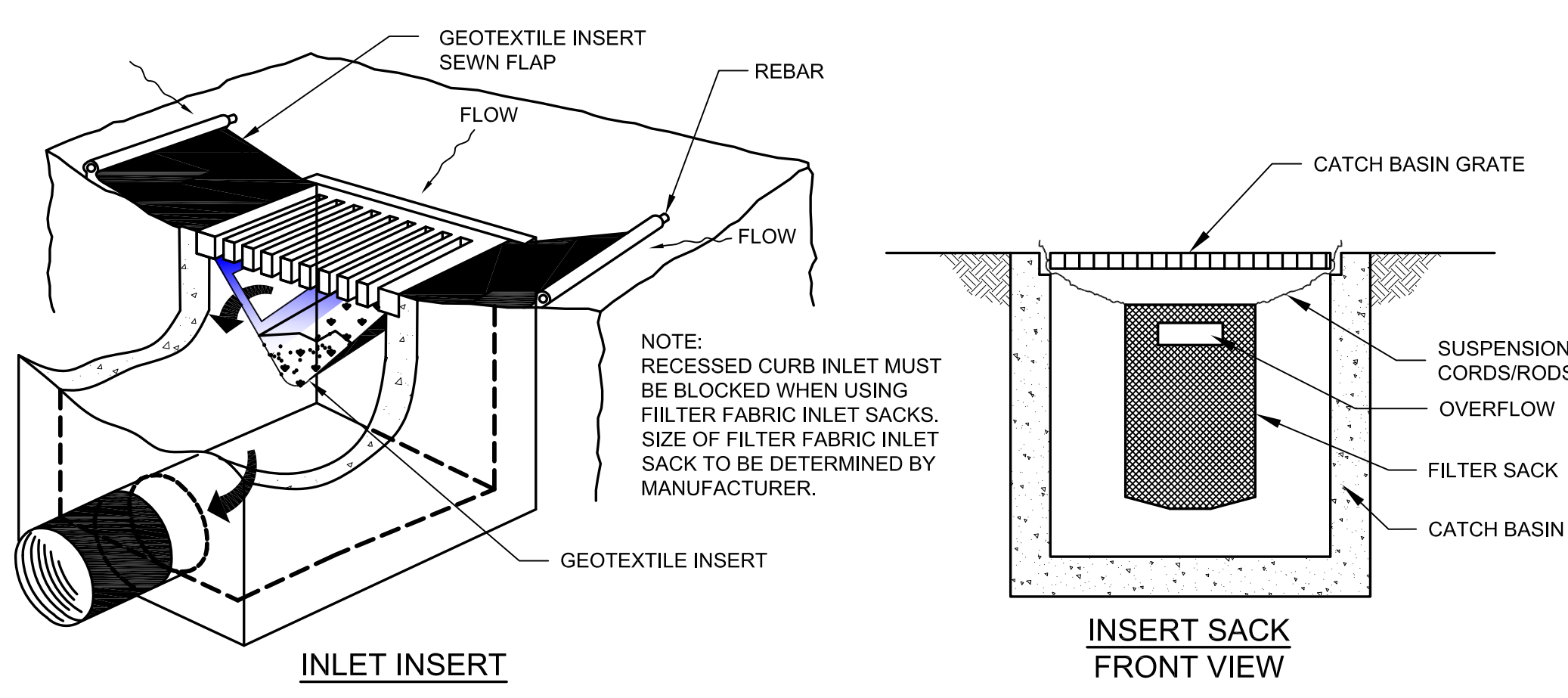
REVISIONS:

#	DATE	DESCRIPTION
	MARCH 2020	

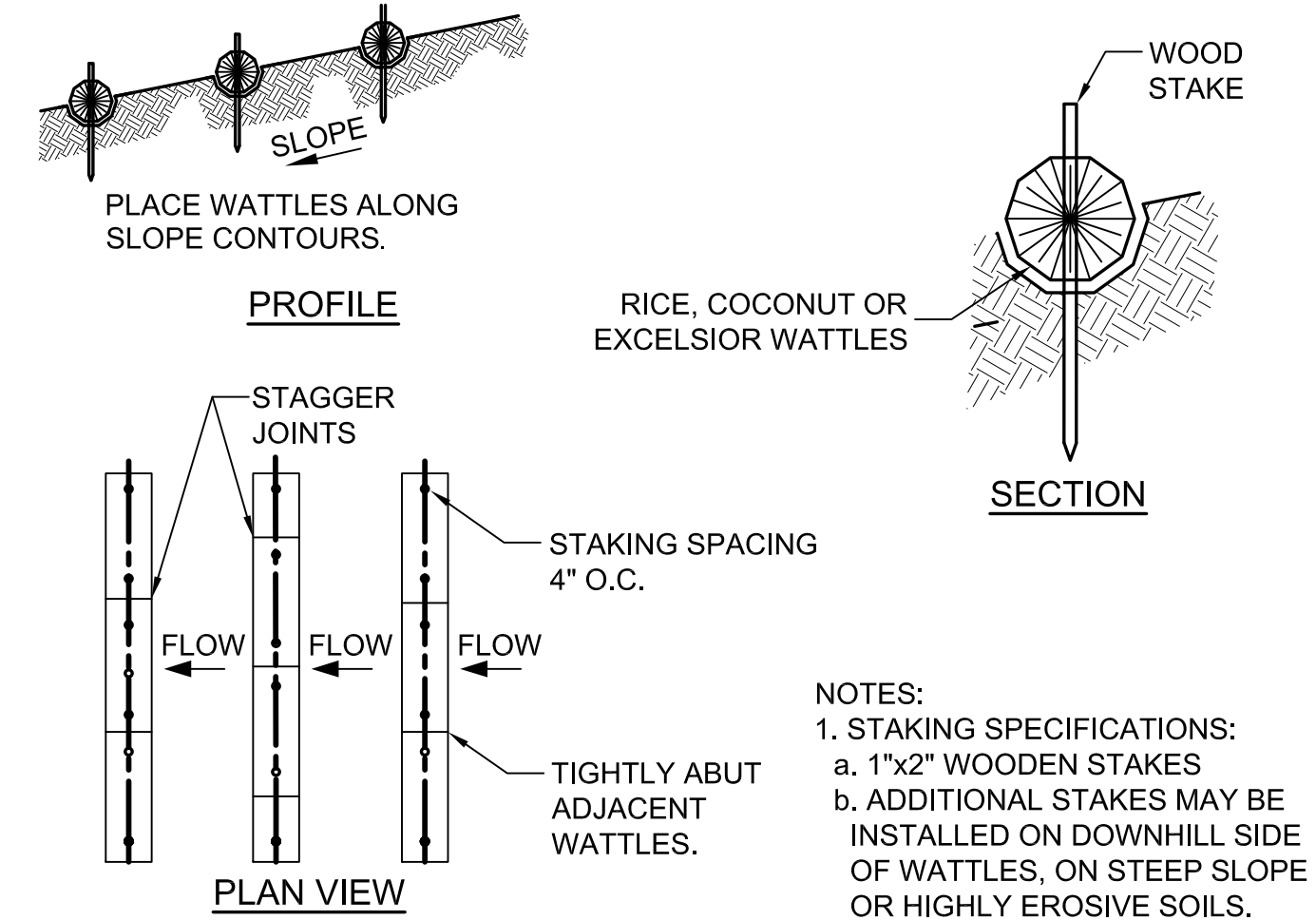
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EROSION CONTROL PLAN



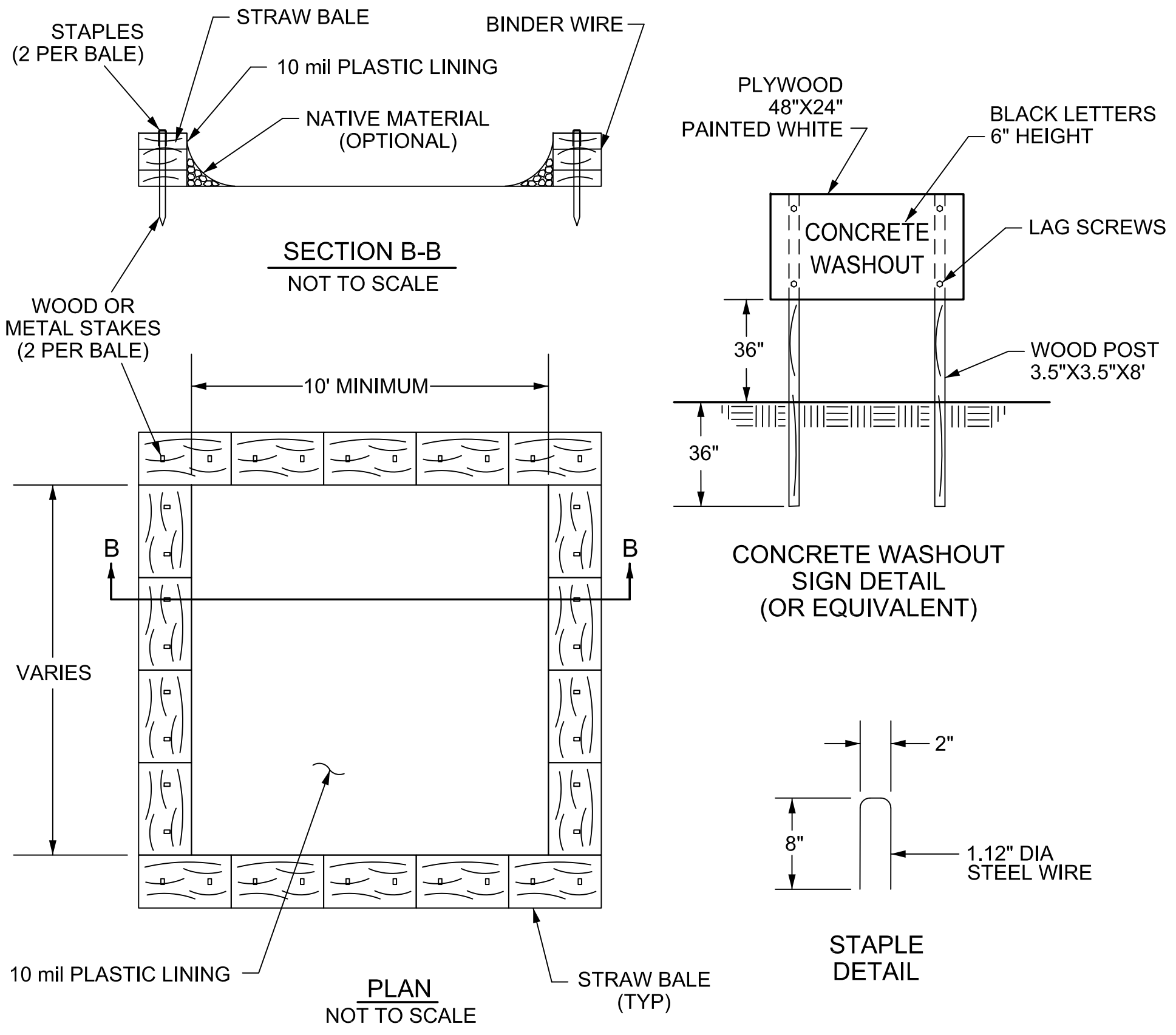
7 CURBSIDE SEDIMENT ATTENUATOR
G2.30 NOT TO SCALE



4 INLET PROTECTION
G2.30 NOT TO SCALE



3 FILTRATION BAGS, SOCKS & ROLLS, TYP.
G2.30 NOT TO SCALE

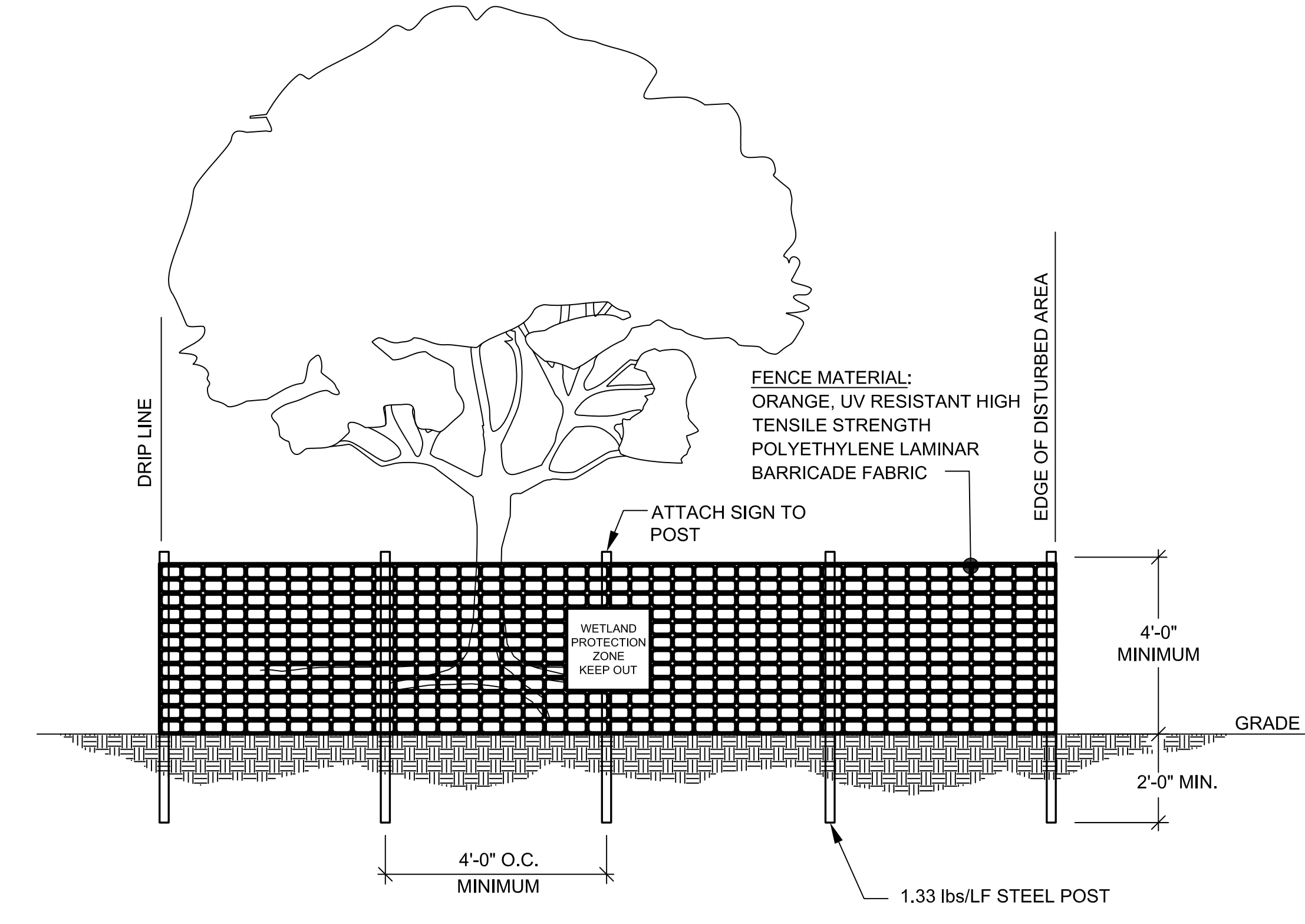


TYPE "ABOVE GRADE" WITH STRAW BALES

NOTES

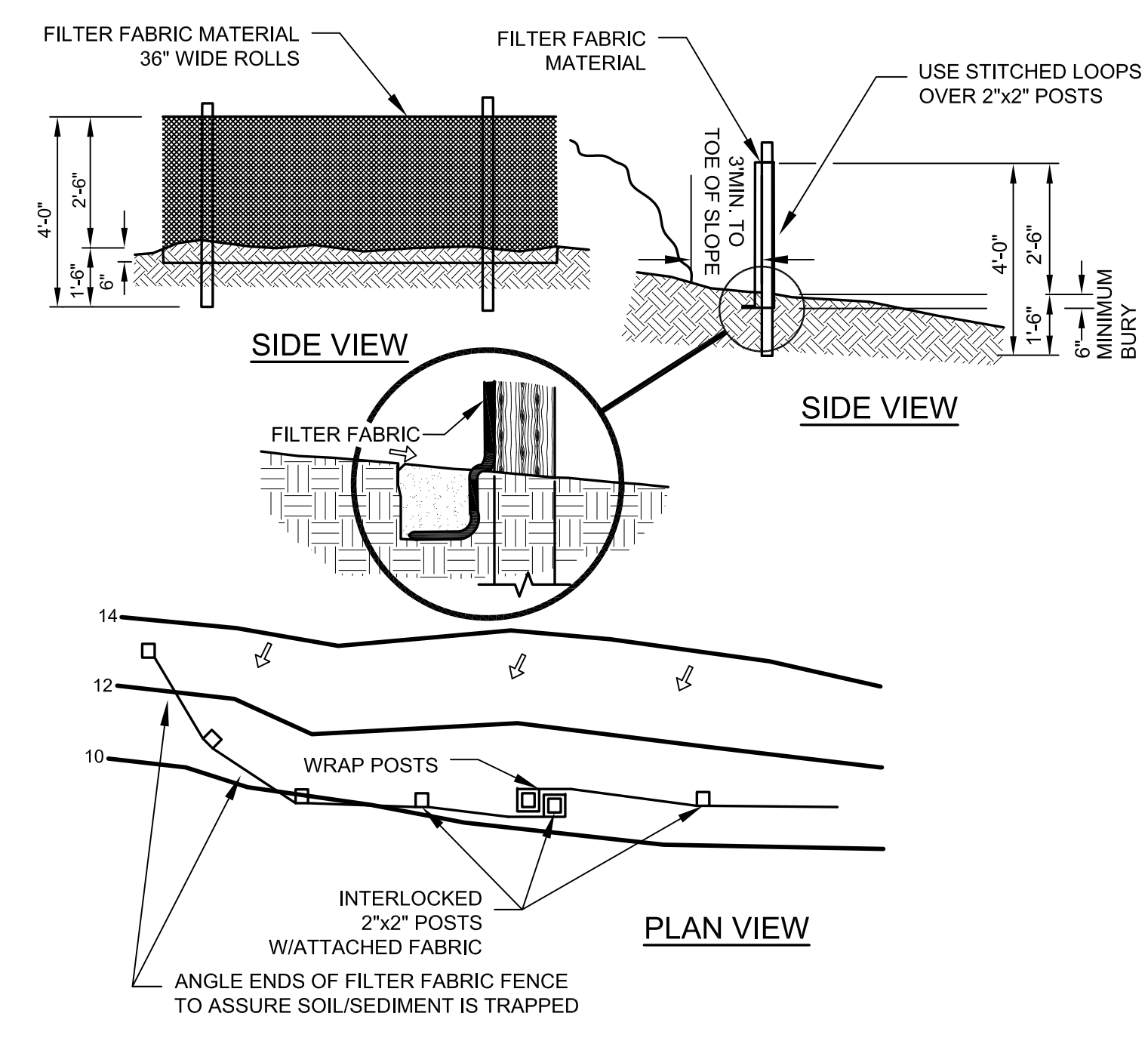
1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD.
2. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF OR RECYCLED.
4. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION.

6 TEMP. CONCRETE WASHOUT
G2.30 NOT TO SCALE

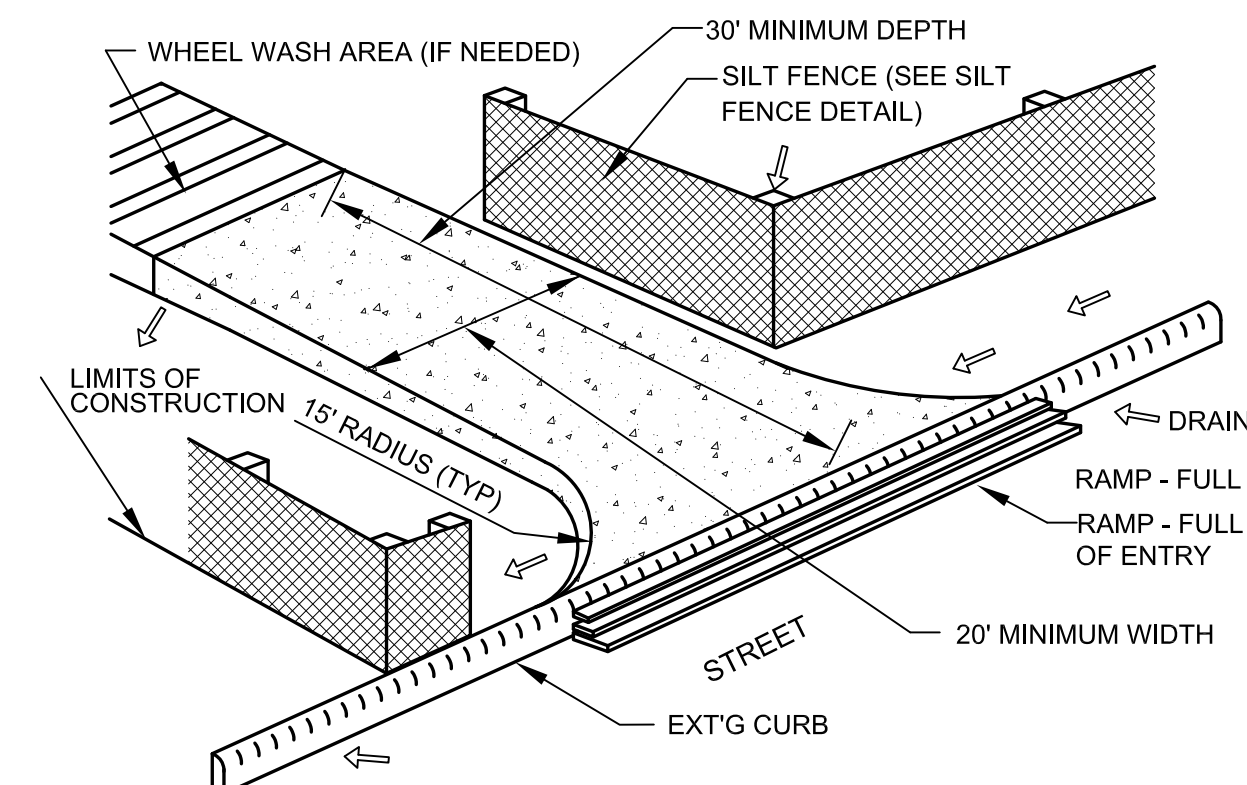


- NOTES:**
1. ALL PLANTS DESIGNATED TO BE SAVED SHALL BE PROTECTED BY FENCING, AS ILLUSTRATED.
 2. INSTALL TREE PROTECTION FENCE AT TREE DRIP LINE OR AT EDGE OF DISTURBED AREA, AS SHOWN ON PLANS, PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 3. SPACE TREE PROTECTION ZONE SIGNS A MINIMUM OF ONE EVERY 300 FEET. THE SIZE OF EACH SIGN MUST BE A MINIMUM OF 2' x 2' AND BE VISIBLE FROM BOTH SIDES OF THE FENCE. THE SIGN MUST CONTAIN THE FOLLOWING LANGUAGE IN BOTH ENGLISH & SPANISH:
"WETLAND PROTECTION ZONE, KEEP OUT"
"VEGETATION PROTECTION ZONE, KEEP OUT"
 3. THERE SHALL BE NO STORAGE OF MATERIAL WITHIN THE BOUNDARIES OF THE TREE PROTECTION FENCING.
 4. TREE PROTECTION FENCING SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.

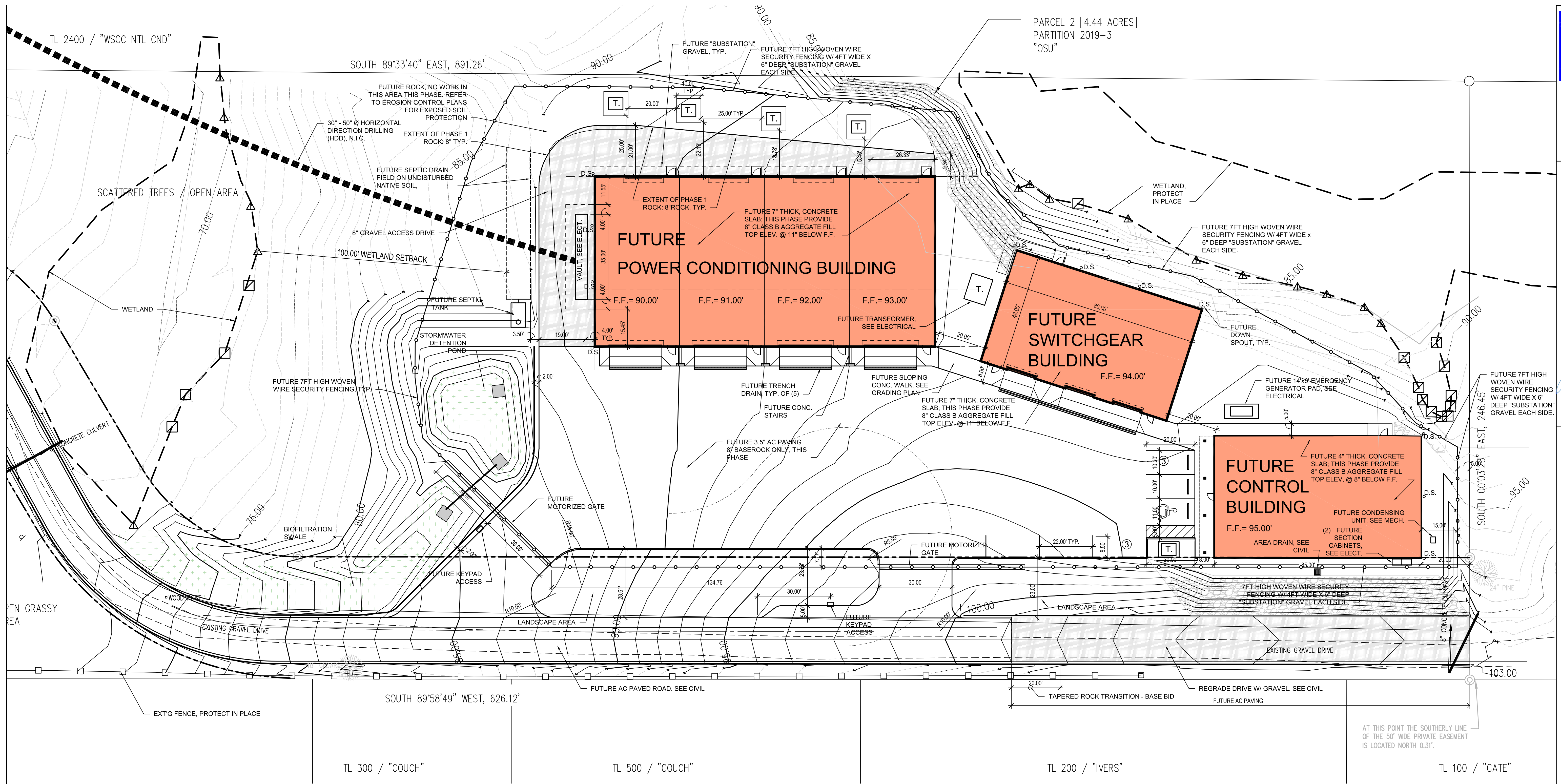
5 WETLAND / TREE PROTECTION FENCING
G2.30 NOT TO SCALE



2 TEMP. SEDIMENT FENCING, TYP.
G2.30 NOT TO SCALE



1 CONSTRUCTION ENTRANCE
G2.30 NOT TO SCALE



1 PARTIAL SITE LAYOUT PLAN

A1.20 SCALE: 1" = 20'

NOTES:

1. THIS PLAN REFLECTS TOTAL SITE PREPARATION. BUILDING WORK TO BE PERFORMED IN FUTURE PHASE(S).
2. REFER TO EROSION CONTROL PLAN AND DEQ 1200-C FOR PROTECTION OF EXPOSED SOIL REQUIREMENTS

REVISIONS:	
#	DATE DESCRIPTION

DATE: MARCH 2020

SHEET TITLE:

CIVIL LEGENDS

C0.0

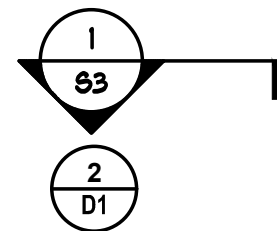
LEGEND

	ROAD CENTERLINE
	PROPERTY LINE
	RIGHT OF WAY LINE
	EASEMENT LINE
	EG CONTOURS
	FG CONTOURS
	OVERHEAD WIRE
	UNDERGROUND ELECTRIC UTILITY
	UNDERGROUND CABLE TV UTILITY
	UNDERGROUND TELE-COMM UTILITY
	UNDERGROUND WATER UTILITY
	UNDERGROUND FIRE WATER SUPPLY
	UNDERGROUND SANITARY SEWER UTILITY
	UNDERGROUND STORM DRAIN UTILITY
	CULVERT
	UNDERGROUND NATURAL GAS UTILITY
	WATER METER
	WATER VALVE
	WATER CHECK VALVE, BOV OR VAULT
	CATCH BASIN/STORM INLET
	PROPERTY CORNER MONUMENT
	GUY WIRE
	POWER POLE
	TREE/HEDGE/BUSH
	SANITARY/STORM SEWER CLEAN OUT
	SANITARY SEWER MANHOLE
	STORM MANHOLE
	STANDPIPE
	FIRE HYDRANT
	ELECTRICAL BOX OR VAULT
	TELEPHONE/COMM BOX OR VAULT
	SIGN
	TO BE REMOVED OR DEMOLISHED
	ASPHALT AREAS
	CONCRETE AREAS
	LANDSCAPE AREAS

EXISTING SHOWN FADED BACK

ABBREVIATIONS

AC	ASPHALT CONCRETE
A/E	ARCHITECT/ENGINEER
BOC	BACK OF CURB
BC	BOTTOM OF CURB
BOV	BLOW OFF VALVE
CB	CATCH BASIN
CF	CUBIC FEET
CL	CENTER LINE
CLR	CLEAR
CY	CUBIC YARD
DEMO	DEMOLITION
D1	DUCTILE IRON
DIA	DIAMETER
DW	DRIVEWAY
E	ELECTRICAL
EC	EDGE OF CONCRETE
EG	EXISTING GRADE
EOG	EDGE OF GRAVEL
EL	ELEVATION
EP EOP	EDGE OF PAVEMENT
EQ	EQUAL
EX	EXISTING
FDC	FIRE DEPARTMENT
FOC	FACE OF CURB
FF	FINISH FLOOR
FG	FINISH GRADE
FL	FLOW LINE
HDG	HOT DIPPED GALVANIZED
IE	INVERT ELEVATION
INV	INVERT
L	LEFT
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
N	NEW
N.T.S.	NOT TO SCALE
OC (O.C.)	ON CENTER
OH	OVERHEAD
PCC	PORTLAND CEMENT CONCRETE
PCF	POUNDS PER CUBIC FOOT
PP	POWER POLE
PSF	POUNDS PER SQUARE FOOT
R	RADIUS/RIGHT
SD, STM	STORM DRAIN
SS	SANITARY SEWER
SST	SIMPSON STRONG TIE
T&B	TOP AND BOTTOM
TBM	TOP OF BENCH MARK
TOC	TOP OF CURB
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
W	WATER
W/	WITH
WM	WATER METER
WV	WATER VALVE
W/O	WITHOUT



SECTION CUT
DETAIL/SHEET

DETAIL
DETAIL/SHEET

SHEET INDEX	
Sheet Number	Sheet Title
C0.0	CIVIL LEGENDS
C0.1	CIVIL NOTES
C1.1	EXISTING SITE AND DEMO
C2.1	NW WENGER LN PLAN AND PROFILE
C2.2	HIGHWAY 101 APPROACH
C3.1	SITE DRAINAGE
C4.1	SITE GRADING
C4.2	GRADING DETAILS
C9.1	DETAILS

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
1-800-332-2344
CALL TWO BUSINESS DAYS BEFORE YOU DIG

OR

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS BEFORE YOU DIG

CONTRACTORS NOTIFICATION REQUIREMENTS LAW

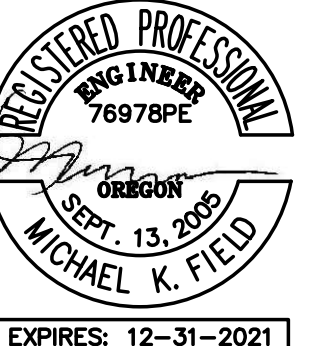
ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR-952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER.

PROJECT LOCATION:
939 NW WENGER LANE,
SEAL ROCK, OREGON

LEGAL DESCRIPTION:
THE N4 1/4 OF SECTION 7 TOWNSHIP 13 SOUTH,
RANGE 11 WEST, TAXLOT 2501
TAX MAP REFERENCE: 13 11 07 B

PROPERTY OWNER:
OREGON STATE UNIVERSITY

PROJECT CIVIL ENGINEER:
FIELD ENGINEERING
320 NW 56TH ST.
NEWPORT, OREGON 97365
(541) 265-2896
(541) 961-3596 CELL



EXPIRES: 12-31-2021

PROJECT NO.: 19-08
PACWAVE - UTILITY MONITORING & CONNECTIONS FACILITY - PHASE 1: SITE PREP
OREGON STATE UNIVERSITY
SEAL ROCK, OREGON

CONSTRUCTION DOCS

REVISIONS:
DATE DESCRIPTION

DATE: MARCH 2020

SHEET TITLE:
CIVIL NOTES

C0.1

SPECIAL NOTE
GENERAL NOTES REQUIRING COUNTY APPROVAL, ADVISORY, STANDARDS OR INSPECTION ALSO REQUIRE ODOT APPROVAL, ADVISORY, STANDARDS OR INSPECTION WHEN WORK IS PERFORMED WITHIN ODOT JURISDICTION.

GENERAL GRADING NOTES:

- ADJUST ALL INCIDENTAL STRUCTURES TO PROPOSED GRADE AND TO AVOID CONFLICT WITH OTHER STRUCTURES AND UTILITIES. INCIDENTAL STRUCTURES INCLUDE, BUT ARE NOT LIMITED TO: METERBOXES, VALVE BOXES, MANHOLE LIDS, CLEANOUTS, STORM CATCH BASIN GRATES, FIRE HYDRANTS, MAIL BOXES, TRAFFIC SIGNS ETC.
- CONTRACTOR TO COORDINATE ALL WATER SYSTEM STRUCTURE ADJUSTMENT AND INSTALLATION WITH THE LOCAL WATER DISTRICT.
- CONTRACTOR TO COORDINATE ALL TRAFFIC SIGN TYPE AND PLACEMENT WITH THE COUNTY/ODOT.
- PUBLIC UTILITY STRUCTURE REPLACEMENT, SUCH AS MANHOLE LIDS, METER BOXES AND CLEANOUTS SHALL BE COORDINATED THROUGH THE COUNTY/ODOT FOR TYPE, LOCATION AND INSTALLATION.
- CONTRACTOR TO COORDINATE WITH APPLICABLE UTILITY PRIOR TO WORKING AROUND, OR ADJUSTING PRIVATE UTILITY STRUCTURES.
- LOCATIONS AND DETAILS FOR NEW PROPOSED APPURTENANCES, SUCH AS BIKE RACKS AND TREE WELLS SHOWN ON ARCHITECTURAL AND LANDSCAPE PLANS.
- DAMAGED EXISTING STRIPING SHALL BE REPLACED PER COUNTY/ODOT STANDARDS.
- WHERE PROPOSED GRADE, ROADWAY OR SIDEWALK MEETS EXISTING PRIVATE DRIVEWAY, WALKWAY, STAIRS, OR ANY PRIVATE PROPERTY FEATURE; CONTRACTOR SHALL NOT MAKE ANY ADJUSTMENTS TO PRIVATE PROPERTY FEATURES WITHOUT WRITTEN PERMISSION FROM THE PROPERTY OWNER. ANY ADJUSTMENTS SHALL NOT CREATE ANY HAZARDS OR DIVERT OR INCREASE DRAINAGE ONTO PRIVATE PROPERTY. CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR ANY DAMAGE TO PRIVATE PROPERTY FEATURES, AND ANY DAMAGE TO PRIVATE PROPERTY OR DISPUTED ADJUSTMENTS WITHOUT OWNERS WRITTEN PERMISSION SHALL BE REMEDIATED AT THE CONTRACTOR'S EXPENSE. CONFLICTS REQUIRING CHANGE TO THESE GRADING PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND THE CITY.
- SIDEWALK AND ADA RAMP GRADING SHALL MEET CURRENT ADA STANDARDS. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH CURRENT ADA STANDARDS AND INSURE THAT ALL GRADING MEETS SAID STANDARDS. GRADING ELEVATIONS AND SLOPES SHOWN ON PLANS ARE APPROXIMATE AND BASED ON COMPUTER GENERATED SURFACES. DUE TO POTENTIAL DEVIATIONS AND GAPS IN SURVEY DATA, SOME FIELD ADJUSTMENT MAY BE NECESSARY TO INSURE GRADES MEET CURRENT ADA STANDARDS AND DRAINAGE AND TRAFFIC REQUIREMENTS. ALL FORM WORK TO BE INSPECTED BY THE ENGINEER AND CITY PRIOR TO POURING. CONTRACTOR SHALL ADJUST FORM WORK AS DIRECTED BY THE COUNTY/ODOT AND ENGINEER. CONTRACTOR SHALL INCLUDE FORM WORK ADJUSTMENT COSTS AND TIME IN HIS INITIAL BID AND SHALL SCHEDULE CONSTRUCTION TAKING INTO ACCOUNT POTENTIAL REDESIGN AND RE-GRADING DELAYS OF UP TO TWO WEEKS.
- RE-SEED ALL UNIMPROVED DISTURBED AREAS PER LANDSCAPE PLAN AND/OR AS DIRECTED BY THE JURISDICTION.

ROADWAY NOTES:

- ROADWAY SUBBASE SHALL BE GRADED, CLEANED OF ALL ROOT AND ORGANIC MATERIAL. SUBGRADE AND CRUSHED ROCK SHALL BE COMPACTED TO 95% MAX DENSITY PER ASTM D1557, MODIFIED PROCTER. COMPACTION TESTING SHALL BE PER COUNTY/ODOT STANDARDS.
- PAVING SHALL BE COMPACTED IN 2" LIFTS TO A 3.5-INCH MINIMUM COMPACTED DEPTH LEVEL (OR AS SHOWN ON PLANS) TO 92% MINIMUM DENSITY. PAVING SHALL BE PER LATEST OREGON STANDARD SPECIFICATIONS, SECTION 00745-LEVEL 2 HOT MIX ASPHALT CONCRETE (HMAC) INCLUSIVE OF ALL REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE TO PERFORM ALL TESTING REQUIRED BY THESE PLANS. TRENCH AND ROADWAY COMPACTION AND ALL PIPE TESTING RESULTS TO BE SUBMITTED AND APPROVED PRIOR TO PAVING. SUBMIT A COPY OF ALL TESTING REPORTS TO THE COUNTY/ODOT AND THE ENGINEER. PAVING CANNOT BEGIN UNTIL ALL UTILITY TESTS AND COMPACTION MEET COUNTY/ODOT STANDARDS.
- ALL CONCRETE IS CLASS 3000 PSI @ 28 DAYS. OR AS REQUIRED BY THE COUNTY/ODOT. ALL REINFORCEMENT SHALL BE 60 KSI DEFORMED BAR.
- CONTRACTOR TO PROOF ROLL ROADWAY SUBGRADE FOLLOWING PLACEMENT AND COMPACTION OF BASE MATERIALS WITH A LOADED DUMP TRUCK IN THE PRESENCE OF COUNTY/ODOT AND/OR THE ENGINEER. CONTRACTOR SHALL STABILIZE ALL SOFT AREAS AS DIRECTED BY THE ENGINEER BY OVEREXCAVATING 2' AND PLACING 3"-0" AGGREGATE BALLAST MATERIAL IN THE HOLE. PROCESS SHALL BE REPEATED UNTIL DEFLECTION IS LESS THAN 2" UNDER THE REAR AXLE ALONG ENTIRE ROADWAY SUBGRADE.
- CUT STRAIGHT MATCH LINES TO MEET EXISTING PAVEMENT WITH NEW PAVEMENT. SKIN PATCH WITH WEARING COURSE OR AS DIRECTED BY THE CITY. SAND SEAL ALL NEW PAVEMENT JOINTS.

GENERAL NOTES CONT'D

ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR-952-001-0010 THROUGH OAR-952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS 503-232-1987.). IN ADDITION, THE CONTRACTOR MUST CONTACT "ONE-CALL" AT 1-800-322-2344 FOR UTILITY LOCATES AT LEAST 48 HOURS BEFORE ANY EXCAVATION. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS ESPECIALLY AT CONNECTIONS AND AT POTENTIAL UTILITY CONFLICTS.

UNDERGROUND/OVERHEAD TV CABLE, TELEPHONE AND ELECTRIC POWER MAY EXIST AT LOCATIONS THROUGHOUT THE PROJECT, THE CONTRACTOR IS TO COORDINATE WITH ALL PRIVATE UTILITIES FOR LOCATIONS PRIOR TO CONSTRUCTION.

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS, IS BASED ON FIELD LOCATES AND RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE MEASUREMENTS IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE.

THE OWNER WILL SECURE SITE DEVELOPMENT PERMITS. THE CONTRACTOR WILL BECOME FAMILIAR WITH AND COMPLY WITH ALL PERMITS FOR THE PROJECT. THE CONTRACTOR WILL SECURE ALL OTHER PERMITS, LICENSES, BONDS AND INSURANCE REQUIRED BY CONTRACT AND TO PERFORM THE WORK. IF REQUIRED BY CONTRACT, THE CONTRACTOR WILL OBTAIN A PERFORMANCE BOND.

THE CONTRACTOR SHALL PERFORM ALL WORK AS SHOWN ON THESE PLANS AND ALL INCIDENTAL WORK AS NECESSARY TO COMPLETE THE PROJECT IN AN ACCEPTABLE MANNER AS DETERMINED BY THE JURISDICTION OR AGENCY, THE OWNER AND THE ENGINEER.

ANY PROPOSED CHANGES ARE TO BE SUBMITTED IN WRITING AND APPROVED BY THE ENGINEER PRIOR TO ANY WORK BEING DONE ON THE PROPOSED CHANGE. NO PAYMENT WILL BE MADE FOR UNAPPROVED CHANGES.

CUT STRAIGHT MATCH LINES TO MEET EXISTING PAVEMENT WITH NEW PAVEMENT. SKIN PATCH WITH WEARING COURSE OR AS DIRECTED BY THE COUNTY/ODOT. SAND SEAL ALL NEW PAVEMENT JOINTS.

ALL STATIONING IS BASED ON THE CENTERLINE STATIONING OF THE PROPOSED STREET OR UTILITY UNLESS NOTED OTHERWISE.

DURING CONSTRUCTION, CONTINUED ACCESS SHALL BE PROVIDED TO ALL BUSINESSES DURING ALL BUSINESS HOURS.

ADJUSTMENT OF INCIDENTAL STRUCTURES TO GRADE SHALL CONFORM TO APPLICABLE STANDARD SPECIFICATIONS. THIS WORK CONSISTS OF ADJUSTING THE TOPS OF MANHOLES, SUMPS, CATCH BASINS, INLETS, VALVE BOXES, METER BOXES, MONUMENT BOXES AND SIMILAR STRUCTURES TO THE REQUIRED ELEVATION AND/OR HORIZONTAL ALIGNMENT.

CLEAN UP: ALL WORK PERFORMED BY THE CONTRACTOR SHALL BE CLEANED AT JOB COMPLETION, INCLUDING THE REMOVAL OF ALL DEBRIS AND UNINCORPORATED MATERIALS. DAILY CLEANING AND STREET MAINTENANCE IS REQUIRED.

NOTIFICATION: CONTRACTOR SHALL NOTIFY ALL AFFECTED RESIDENTS/BUSINESSES IN WRITING A MINIMUM OF 24 HOURS PRIOR TO DISRUPTING ANY UTILITY SERVICE.

MAINTENANCE OF THE WORK AREA AND APPROACH ROADS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE WORK AREA AND APPROACH ROADS SHALL BE MAINTAINED IN A CLEAN CONDITION, FREE FROM OBSTRUCTIONS AND HAZARDS. A COPY OF THE PERMIT HOLDERS CERTIFICATE OF INSURANCE SHALL BE AVAILABLE AT THE WORK AREA.

EFFECTIVE DRAINAGE CONTROL IS REQUIRED. DRAINAGE SHALL BE CONTROLLED WITHIN THE WORK SITE AND SHALL BE SO ROUTED THAT ADJACENT PRIVATE PROPERTY, PUBLIC PROPERTY AND THE RECEIVING SYSTEM IS NOT ADVERSELY IMPACTED. THE COUNTY/ODOT AND/OR THE ENGINEER MAY AT ANY TIME ORDER CORRECTIVE ACTION AND STOPPAGE OF WORK TO ACCOMPLISH EFFECTIVE DRAINAGE CONTROL AT THE CONTRACTOR'S EXPENSE. SEE ALSO THE EROSION CONTROL NOTE ON THIS SHEET.

THE CONTRACTOR IS TO CONTROL DUST AND MUD FROM CONSTRUCTION ACTIVITIES.

EROSION CONTROL IS REQUIRED, EROSION CONTROL DEVICES MUST BE INSTALLED AND MAINTAINED MEETING COUNTY/ODOT AND D.E.Q. REQUIREMENTS. THE COUNTY/ODOT AND/OR THE ENGINEER MAY AT ANY TIME ORDER CORRECTIVE ACTION AND STOPPAGE OF WORK TO ACCOMPLISH EFFECTIVE EROSION CONTROL AT THE CONTRACTOR'S EXPENSE.

CONTRACTOR TO MAINTAIN AS-BUILT RECORDS INCLUDING PHOTOGRAPHS OF ALL UNDERGROUND ASSEMBLIES AND PROVIDE TO THE ENGINEER AT TIME OF ACCEPTANCE. ALL AS-BUILT INFORMATION SHALL BE PROVIDED BY THE CONTRACTOR TO THE ENGINEER WITHIN 30 DAY OF PROJECT COMPLETION.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND ABIDING BY WORKING HOUR LIMITATIONS FROM APPLICABLE JURISDICTIONS.

ANY PROPERTY, ON-SITE OR OFF-SITE, DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE SEEDED AND REESTABLISHED TO PRE-DISTURBANCE CONDITION. EXISTING SIGNS, PAVEMENT MARKINGS, MAILBOXES, ETC. SHALL BE REESTABLISHED, REINSTALLED OR REPLACED, WITH LIKE KIND AND MATERIAL.

IF FIELD CONDITIONS DIFFER FROM THE CONTRACT DOCUMENTS, THE ENGINEER IS TO BE NOTIFIED WITHIN 72 HOURS OF DISCOVERY.

THE CONTRACTOR SHALL COORDINATE ALL PRIVATE UTILITY WORK; AND SHALL COORDINATE LOCATION AND CONSTRUCTION REQUIREMENTS WITH PRIVATE UTILITY COMPANY; AND SHALL NOTIFY THE ENGINEER IN ACCORDANCE WITH GENERAL REQUIREMENTS IF CONFLICTS OCCURS.

GENERAL NOTES

THE INFORMATION CONTAINED IN THIS SET OF PLANS COMPLEMENTS, BUT DOES NOT REPLACE THAT CONTAINED IN THE WRITTEN CONTRACT AND ANY WRITTEN SPECIFICATIONS PROVIDED WITH THE COMPLETE CONTRACT DOCUMENT PACKAGE. PROSPECTIVE BIDDERS, SUPPLIERS, CONTRACTORS AND SUBCONTRACTORS SHALL REVIEW AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AND REQUIREMENTS OF THE CONTRACT AND THESE PLANS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH ALL PARTS OF THE CONTRACT DOCUMENTS.

A COPY OF THE PERMIT AND ALL ATTACHMENTS, A COPY OF THE APPROVED CONSTRUCTION PLANS AND ALL AMENDMENTS, AND A COPY OF COUNTY/ODOT OR APPLICABLE CONSTRUCTION STANDARDS SHALL BE SUPPLIED BY THE CONTRACTOR AND AVAILABLE AT THE WORK AREA. ALL WORK SHALL CONFORM TO THE PERMIT TERMS, CONDITIONS AND PROVISIONS AND TO CITY APPROVED PERMIT PLANS, APPROVED PLAN AMENDMENTS, APPLICABLE STANDARDS AND SPECIFICATIONS AND TO THESE GENERAL CONDITIONS. CHANGES TO ANY OF THE AFORESAID MUST BE APPROVED BY THE COUNTY IN ADVANCE OF WORK PERFORMANCE.

THE CONTRACTOR SHALL KEEP THE COUNTY/ODOT AND THE ENGINEER ADVISED OF PROGRESS AND GIVE NOTICE FIVE (5) DAYS PRIOR TO COMMENCING WORK AND PROVIDE 72 HOURS NOTIFICATION FOR INSPECTIONS. CONTRACTOR WILL UNCOVER AT CONTRACTOR'S EXPENSE ALL WORK COVERED UP FOR WHICH THE COUNTY/ODOT INSPECTOR OR THE ENGINEER WERE NOT NOTIFIED TO CONDUCT OBSERVATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR ALL EXISTING UTILITIES ENCOUNTERED. SHOWN LOCATION OF EXISTING UNDERGROUND UTILITIES ARE ASSUMED AND DO NOT NECESSARILY INDICATE ACTUAL LOCATION. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES, OBTAINING ANY SPECIAL PERMITS AND MAKING ALL NECESSARY ARRANGEMENTS TO CUT, MOVE, RELOCATE, OR RECONNECT EXISTING UTILITIES IN COMPLIANCE WITH THE REQUIREMENTS OF THE RESPECTIVE UTILITY.

CONTRACTOR SHALL CONSTRUCT PUBLIC INFRASTRUCTURE IMPROVEMENTS TO LATEST COUNTY/ODOT STANDARDS AND/OR LATEST STANDARDS ADOPTED BY THE JURISDICTIONS INCLUDING ALL SUBSEQUENT REVISIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE STANDARDS AND FOR NOTING ANY DEVIATION ON THESE PLANS AND BRINGING ANY DEVIATIONS TO THE ATTENTION OF THE ENGINEER.

THE CONTRACTOR IS RESPONSIBLE FOR ALL SAFETY ON THE PROJECT AND SHALL ERECT AND MAINTAIN BARRICADES, WARNING SIGNS, AND TRAFFIC CONES PER COUNTY/ODOT REQUIREMENTS. DRIVEWAY ACCESS(ES) ARE TO BE MAINTAINED AT ALL TIMES AND ANY CLOSURES ARE TO BE COORDINATED WITH THE OWNER(S) INVOLVED. IF REQUIRED BY THE COUNTY/ODOT, THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN AT NO ADDITIONAL COST TO THE OWNER OR COUNTY PRIOR TO COMMENCING CONSTRUCTION. ALL TRAFFIC CONTROL MEASURES TO BE APPROVED BY THE COUNTY/ODOT AND IN PLACE PRIOR TO CONSTRUCTION ACTIVITY. DAMAGE TO THE EXISTING ROADWAYS WILL BE REPLACED AT NO ADDITIONAL CHARGE TO THE OWNER OR COUNTY.

ADVANCE WARNING OF IMMINENT TRAFFIC DISRUPTION SHALL BE PROVIDED TO THE GENERAL MOTORING PUBLIC BY PLACEMENT OF AN ADVANCE NOTIFICATION SIGN AT EACH END OF THE CONSTRUCTION AREA 72 HOURS (MIN.) BEFORE INITIATION OF CONSTRUCTION WORK.

MINIMUM TRAVEL LANE WIDTH SHALL BE TWELVE (12) FEET; PEDESTRIAN TRAVEL SHALL ALSO BE PROVIDED FOR.

PUBLIC ROADWAYS SHALL NOT BE CLOSED TO TRAFFIC, AT ANY TIME, WITHOUT HAVING FIRST OBTAINED WRITTEN APPROVAL FROM THE COUNTY/ODOT. THE CONTRACTOR IS RESPONSIBLE FOR PROVISION OF TIMELY NOTIFICATION OF TRAFFIC FLOW DISRUPTIONS TO AREA WIDE EMERGENCY SERVICES, POLICE DEPT., FIRE AND RESCUE AND TO THE SCHOOL DISTRICT.

ALL OPEN CUTTING OF EXISTING STREETS AND DRIVEWAYS TO BE PATCHED WITH A COLD OR HOT AC MIX; OR COVERED WITH A STEEL PLATE WITH AN AC LIP TO PREVENT SLIPPAGE OF THE STEEL PLATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES DUE TO PLATE SLIPPAGE.

CONTRACTOR IS RESPONSIBLE FOR THE PRESERVATION OF SURVEY MONUMENTS AND PROPERTY CORNERS. THE CONTRACTOR MUST NOTIFY THE PROJECT SURVEYOR NOT LESS THAN SEVEN (7) WORKING DAYS PRIOR TO STARTING WORK TO INSURE PRESERVATION OF SURVEY MONUMENTS AND PROPERTY CORNERS. THE CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE PROJECT ENGINEER, AND SHALL NOTIFY THE PROJECT SURVEYOR OF ANY THAT ARE DISTURBED. REPLACEMENT SHALL BE DONE BY A PROFESSIONAL LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.

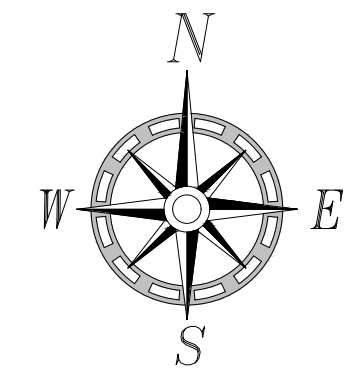
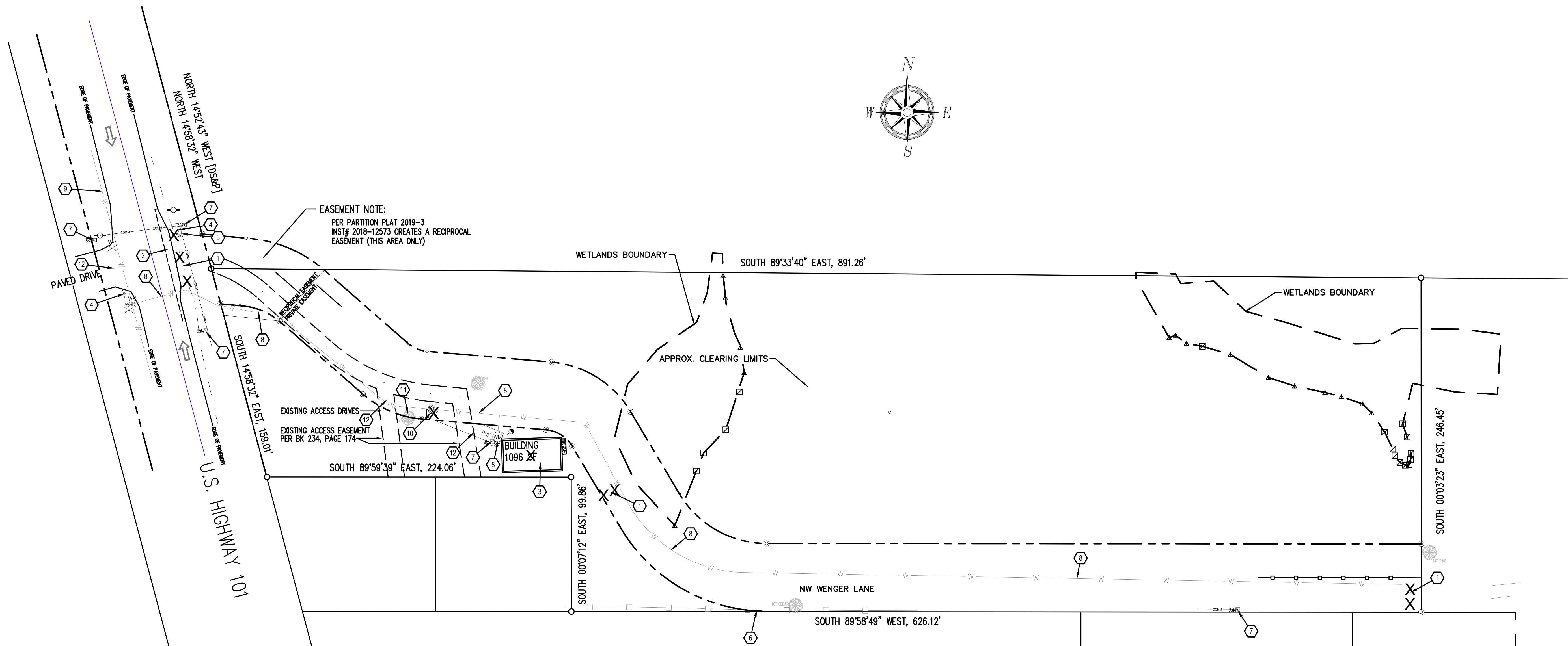
THE CONTRACTOR SHALL TAKE NO ADVANTAGE OF ANY ERRORS, OMISSIONS OR DISCREPANCIES IN THE PLANS. WHEN ERRORS, OMISSIONS OR DISCREPANCIES ARE FOUND, THE ENGINEER SHALL BE NOTIFIED. WORK PERFORMED BY THE CONTRACTOR AS A RESULT OF AN ERROR, OMISSION OR DISCREPANCY IN THE PLANS SHALL BE AT THE CONTRACTOR'S RISK AND EXPENSE WHEN SUCH ERROR, OMISSION OR DISCREPANCY HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE ENGINEER.

EXACT AC PAVEMENT SAW-CUT LIMITS MAY DIFFER FROM PLANS AND WILL DEPEND ON UTILITY LOCATIONS.

IF THE OWNER HIRES THE SURVEYOR, THE SURVEYOR WILL PROVIDE ONE SET OF ALL CONSTRUCTION STAKING. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING STAKING PROVIDED AND TRANSFERRING TO THE RESPECTIVE FACILITIES. CONTROL LOST OR DAMAGED THAT REQUIRES RE-ESTABLISHMENT WILL BE PROVIDED AT CONTRACTOR'S EXPENSE.

ALL OVERHEAD ELECTRICAL DISTRIBUTION SYSTEMS AND INDIVIDUAL SERVICE LINES ARE NOT SPECIFICALLY INDICATED ON THE DRAWINGS, BUT MAY EXIST WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL EXERCISE CAUTION WHILE WORKING NEAR, OR UNDER, ALL ELECTRICAL LINES.

FILE NAME: 126.19 osu pacwave site-site prep phase 1.dwg SAVE DATE AND TIME: 3/20/2020 1:01:38 PM PLOT DATE AND TIME: 3/20/2020 1:07:23 PM



DEMOLITION NOTES:

1. CONTRACTOR TO REMOVE AND PROPERLY DISPOSE OF ALL DEMOLITION DEBRIS.
2. CONTRACTOR SHALL TAKE STEPS TO KEEP DUST TO A MINIMUM.
3. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING DEMOLITION.
4. CONTRACTOR SHALL COORDINATE WITH THE COUNTY, ODOT AND ALL UTILITIES PRIOR TO DEMOLITION ACTIVITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SERVICES AND REMOVING/REPAIRING/RELOCATING ANY UTILITIES.
5. SAWCUT AND DEMO LIMITS SHOWN ARE APPROXIMATE.
6. CONTRACTOR TO COORDINATE WITH THE OWNER FOR SALVAGE OF ANY DEMOLITION MATERIAL OR DEBRIS.
7. CONTRACTOR SHALL TAKE STEPS TO AVOID AND PROTECT WETLAND AREAS DURING CONSTRUCTION AND DEMOLITION ACTIVITIES.

EXISTING SITE AND DEMO PLAN

SCALE: 1"=40'

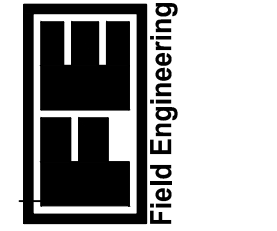


= DEMO

X = DEMO

1
C1.1

- GENERAL NOTES**
- 1 DEMO AND REMOVE EX CULVERT.
 - 2 SAWCUT, DEMO AND REMOVE APPROXIMATELY 400 SF OF EX PAVEMENT AT THE INTERSECTION OF NW WENGER LANE AND HWY 101.
 - 3 DEMO AND REMOVE EX BUILDING. SLAB TO REMAIN.
 - 4 PROTECT EX SIGN.
 - 5 PROTECT EX MAILBOXES.
 - 6 PROTECT EX FENCE.
 - 7 PROTECT UTILITY COMM BOXES. COORDINATE WITH RESPECTIVE UTILITY IF THERE IS A CONFLICT.
 - 8 EX WATER MAIN AND SERVICES TO REMAIN IN SERVICE DURING CONSTRUCTION. CONNECT EX SERVICES TO NEW WATER MAIN ONCE INSTALLED. EX WATER MAIN TO BE ABANDONED IN PLACE.
 - 9 EX 12" PVC WATER MAIN.
 - 10 REMOVE EX BLOW-OFF ASSEMBLY AFTER INSTALLATION OF NEW WATER MAIN.
 - 11 COORDINATE WITH PROPERTY OWNER FOR DISPOSITION OF EXISTING TREE. TREE MAY HAVE TO BE REMOVED DUE TO ROOT ENCROACHMENT.
 - 12 EX DRIVEWAY APPROACHES TO REMAIN IN SERVICE DURING CONSTRUCTION.

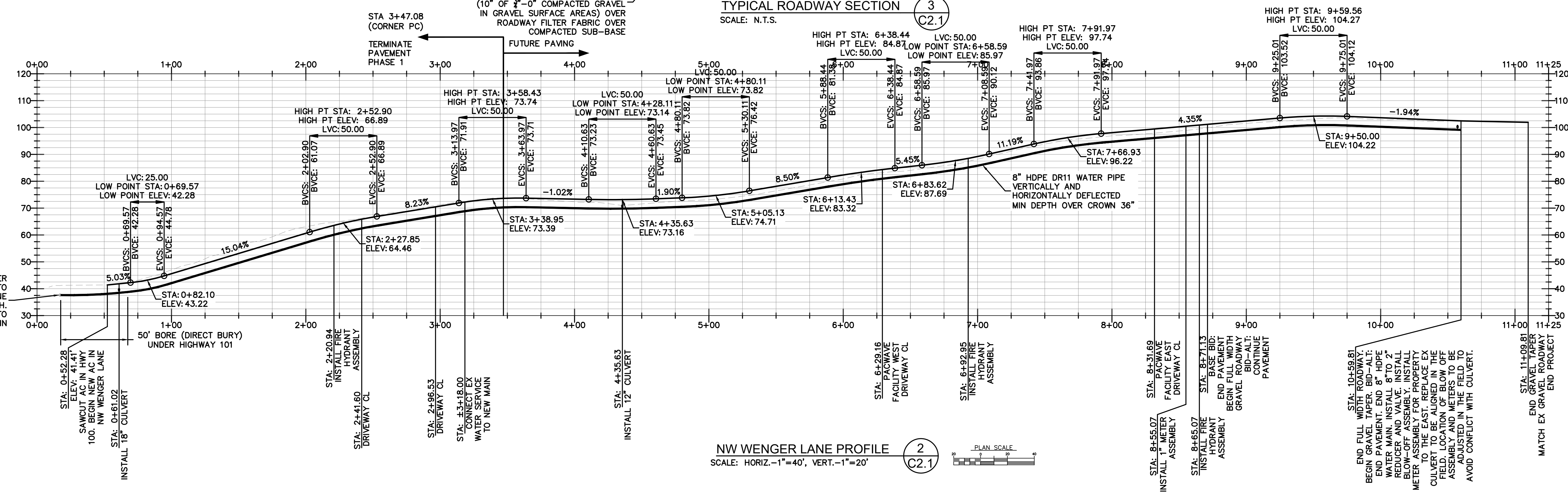
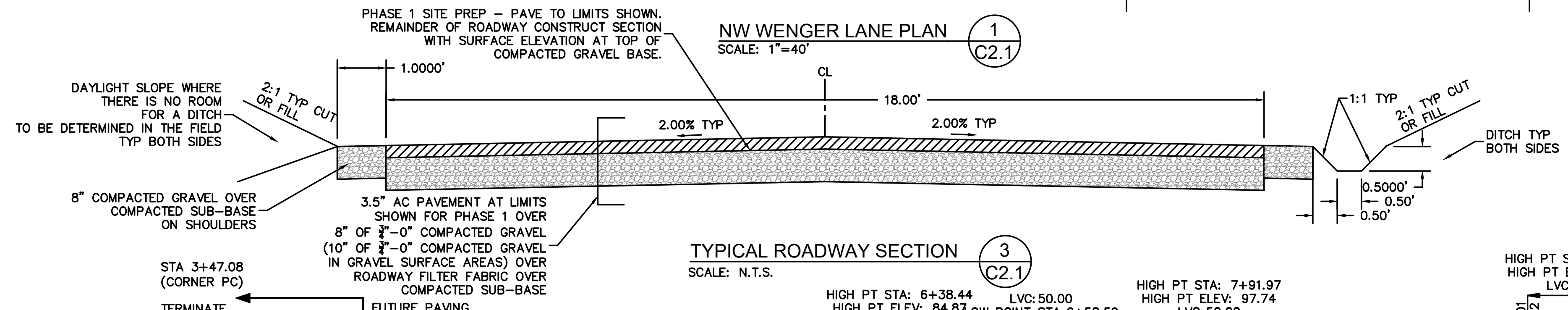
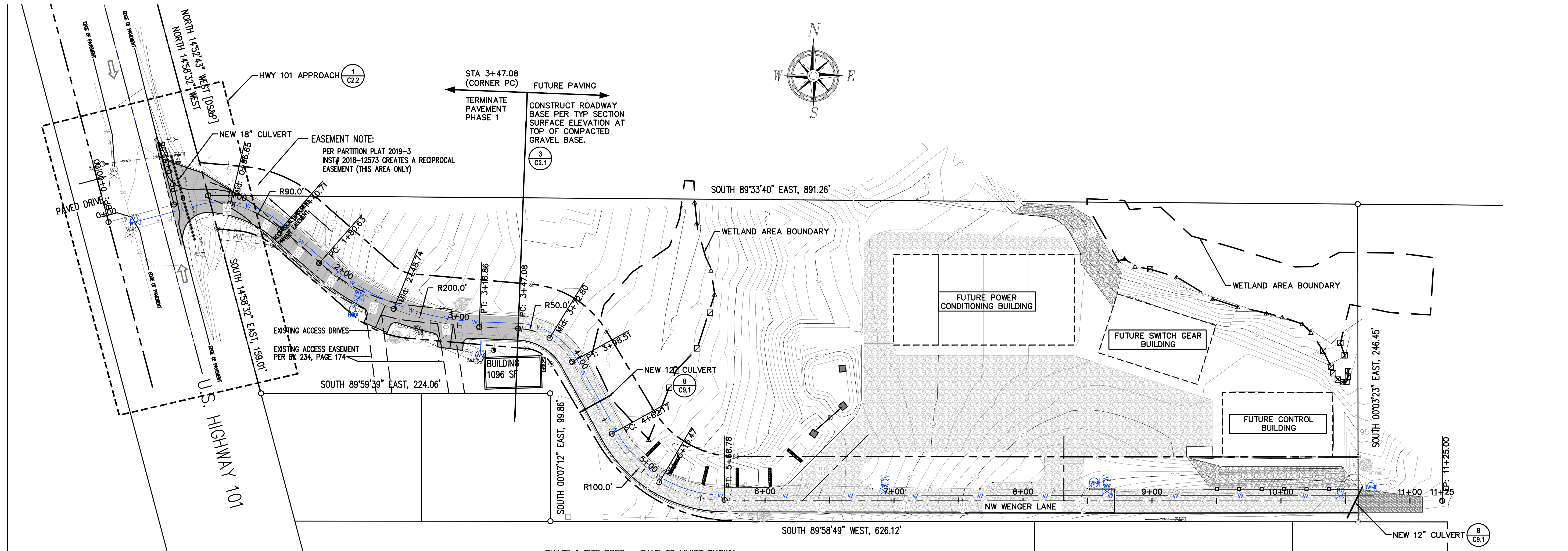


CONSTRUCTION DOCS

REVISIONS:	#	DATE	DESCRIPTION


DATE: MARCH 2020

SHEET TITLE:
EXISTING SITE AND DEMO PLAN




NW WENGER LANE PROFILE
SCALE: HORIZ.-1"=40', VERT.-1"=20'

PLAN SCALE: 1"=40'



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REGISTERED PROFESSIONAL ENGINEER
16978PE
MICHAEL K. FIELD
EXPIRES: 12-31-2021

PACWAVE - UTILITY MONITORING & CONNECTIONS FACILITY - PHASE 1: SITE PREP

OREGON STATE UNIVERSITY
SEAL ROCK, OREGON

PROJECT NO.: 19.08

CONSTRUCTION DOCS

REVISIONS:	
#	DATE DESCRIPTION

DATE: MARCH 2020

SHEET TITLE:
NW WENGER LANE PLAN AND PROFILE

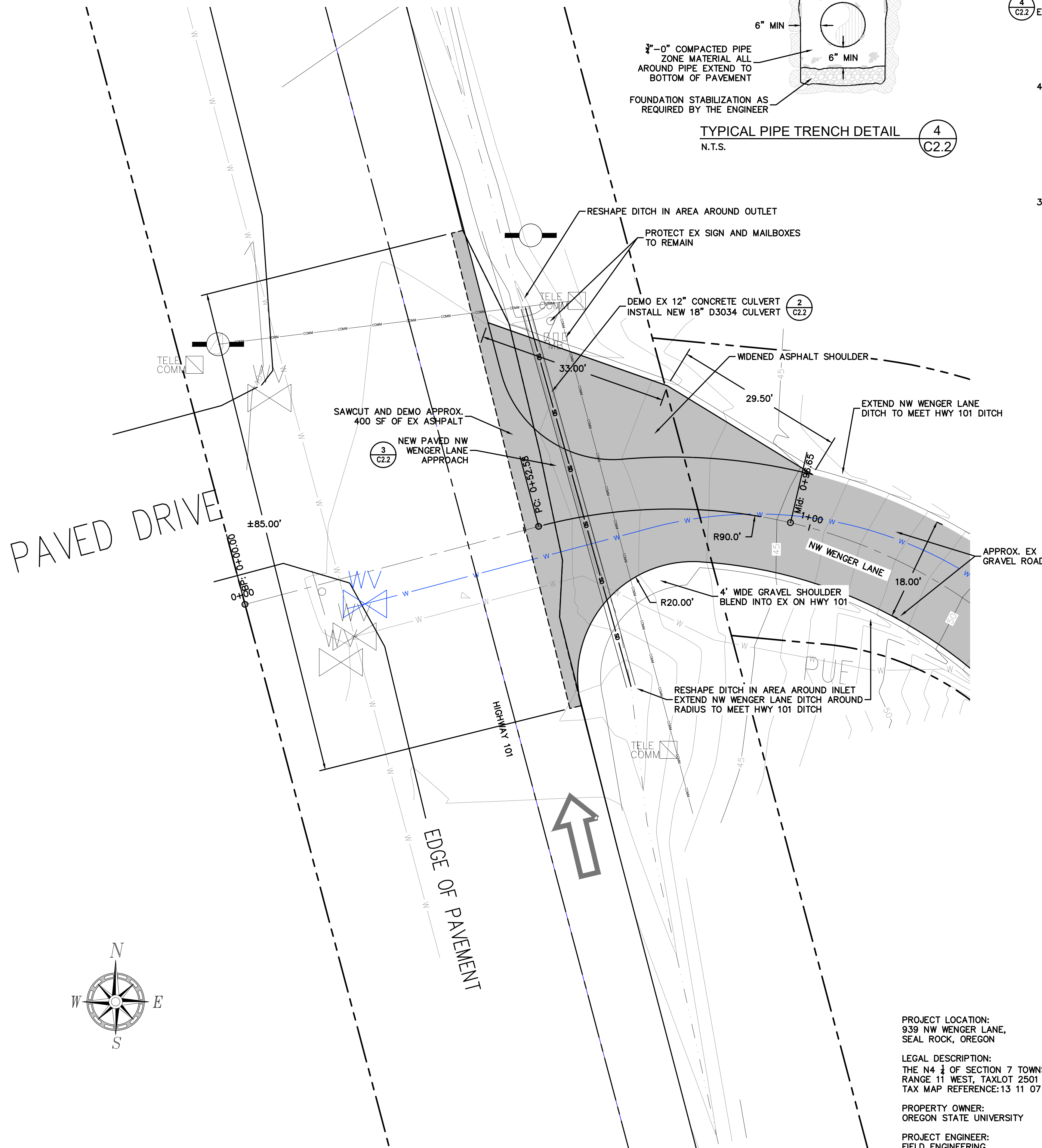
C2.1

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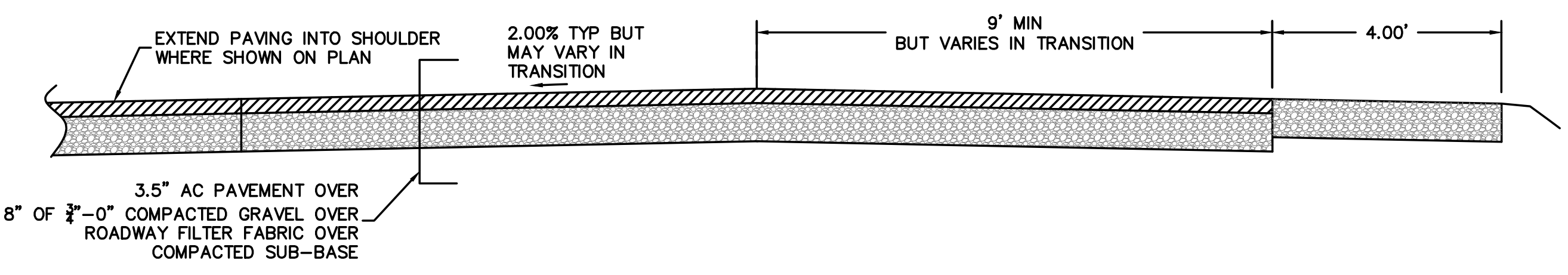
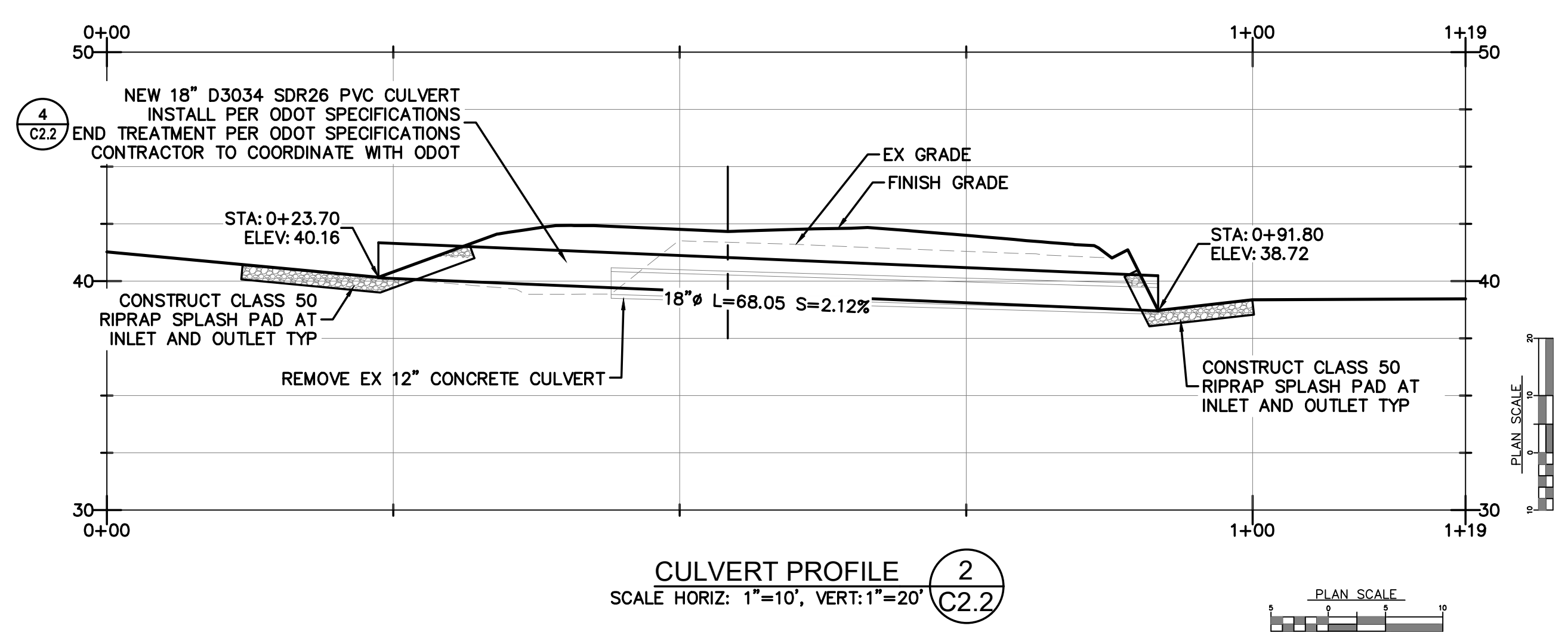
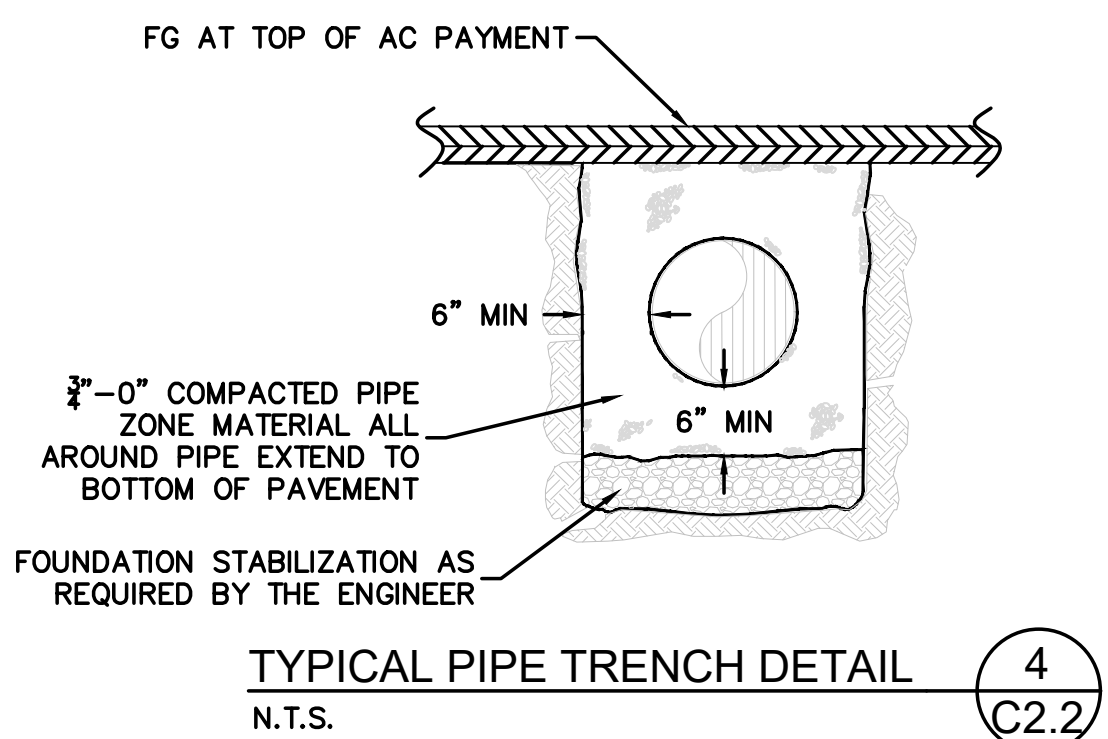
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FILE NAME: 126.19 osu pacwave site-site prep phase 1.dwg



SW WENGER LANE AND HWY 101 APPROACH (1) C2.2
SCALE: 1"=10'



ROADWAY NOTES:

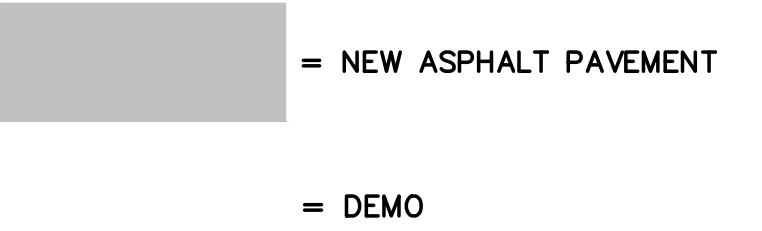
- ROADWAY SUBBASE SHALL BE GRADED, CLEANED OF ALL ROOT AND ORGANIC MATERIAL SUBGRADE AND CRUSHED ROCK SHALL BE COMPACTED TO 95% MAX DENSITY PER ASTM D1557, MODIFIED PROCTER. COMPACTION TESTING SHALL BE PER COUNTY/ODOT STANDARDS.
- PAVING SHALL BE COMPACTED IN 2" LIFTS TO A 3.5-INCH MINIMUM COMPACTED DEPTH LEVEL (OR AS SHOWN ON PLANS) TO 92% MINIMUM DENSITY. PAVING SHALL BE PER OREGON STANDARD SPECIFICATIONS, SECTION 00745-LEVEL 2 HOT MIX ASPHALT CONCRETE (HMAC) INCLUSIVE OF ALL REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE TO PERFORM ALL TESTING REQUIRED BY THESE PLANS. TRENCH AND ROADWAY COMPACTION AND ALL PIPE TESTING RESULTS TO BE SUBMITTED AND APPROVED PRIOR TO PAVING. SUBMIT A COPY OF ALL TESTING REPORTS TO THE COUNTY/ODOT AND THE ENGINEER. PAVING CANNOT BEGIN UNTIL ALL UTILITY TESTS AND COMPACTION MEET COUNTY/ODOT STANDARDS.
- ALL CONCRETE IS CLASS 3000 PSI @ 28 DAYS. OR AS REQUIRED BY THE COUNTY/ODOT. ALL REINFORCEMENT SHALL BE 60 KSI DEFORMED BAR.
- CONTRACTOR TO PROOF ROLL ROADWAY SUBGRADE FOLLOWING PLACEMENT AND COMPACTION OF BASE MATERIALS WITH A LOADED DUMP TRUCK IN THE PRESENCE OF COUNTY/ODOT AND/OR THE ENGINEER. CONTRACTOR SHALL STABILIZE ALL SOFT AREAS AS DIRECTED BY THE ENGINEER BY OVEREXCAVATING 2' AND PLACING 3"-0" AGGREGATE BALLAST MATERIAL IN THE HOLE. PROCESS SHALL BE REPEATED UNTIL DEFLECTION IS LESS THAN 2" UNDER THE REAR AXLE ALONG ENTIRE ROADWAY SUBGRADE.
- CUT STRAIGHT MATCH LINES TO MEET EXISTING PAVEMENT WITH NEW PAVEMENT. SKIN PATCH WITH WEARING COURSE OR AS DIRECTED BY THE CITY. SAND SEAL ALL NEW PAVEMENT JOINTS.

TRAFFIC CONTROL PLAN

IF REQUIRED BY THE APPLICABLE AGENCY, THE CONTRACTOR SHALL PREPARE AND SUBMIT A TRAFFIC CONTROL PLAN TO THE COUNTY AND ODOT PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES. THE TRAFFIC CONTROL PLAN SHALL BE PREPARED ACCORDING TO LATEST STATE OF OREGON REQUIREMENTS UTILIZING INFORMATION AND RESOURCES AVAILABLE ON THE ODOT TRAFFIC CONTROL WEB SITE:
<http://www.oregon.gov/ODOT/Engineering/Pages/Work-Zone.aspx>
 ANY TRAFFIC CONTROL PLAN SHALL BE DESIGNED TO PROTECT THE PUBLIC AND HIGHWAY WORKERS WHILE LIMITING CLOSURES AND ALLOWING CONTROLLED TRAFFIC MOVEMENT THROUGH THE WORK AREA.

CONTRACTORS NOTIFICATION REQUIREMENTS LAW

ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR-952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER.



WATER SYSTEM GENERAL CONSTRUCTION NOTES

- WATER SYSTEM SHALL CONFORM TO SEAL ROCK WATER DISTRICT STANDARDS AND SPECIFICATIONS. EXCEPT AS NOTED, DRAWING IS SCHEMATIC. LOCATE PIPE AND APPURTENANCES TO MAINTAIN SEPARATION REQUIREMENTS AND AVOID CONFLICTS.
- PIPE BEDDING, PIPE ZONE MATERIALS SHALL BE 3/4"-0 CRUSHED ROCK. PIPE BACK FILL MATERIAL TO CONFORM TO LATEST SEAL ROCK WATER DISTRICT STANDARD SPECIFICATIONS. CLASS B BACKFILL REQUIRED WITHIN ROADWAY, CLASS A WITHIN LANDSCAPED AREAS. COMPACT PIPE BEDDING AND BACK FILL MATERIALS TO 95% RELATIVE DENSITY PER AASHTO T-99. PIPE ZONE MATERIAL SHALL BE THOROUGHLY COMPACTED IN 6-INCH LAYERS TO PROVIDE COMPLETE SUPPORT OF THE PIPE. THE CONTRACTOR SHALL PREVENT THE PIPE FROM MOVEMENT EITHER HORIZONTALLY OR VERTICALLY DURING PLACEMENT AND COMPACTION OF MATERIAL. THE ROCK BEDDING SHALL EXTEND A MINIMUM OF 6 INCHES BELOW THE BARREL OF THE PIPE. BE ADVISED, IF WET WEATHER CONDITIONS EXIST ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE GRADE IS MAINTAINED.
- WATER PIPE TO BE HDPE DR11 IPS PIPE (MAIN) OR AS SHOWN ON PLANS AND/OR PER SEAL ROCK WATER DISTRICT STANDARD SPECIFICATIONS. ALL TEES, CROSSSES, ELBOWS, REDUCERS, ADAPTERS, SLEEVES, AND OTHER APPURTENANCES TO BE COMPATIBLE WITH THE PIPE. SHALL BE WATER DISTRICT AND AWWA APPROVED AND OF SAME OR BETTER PRESSURE RATING THAN THE PIPE. CONTRACTOR TO COORDINATE WITH THE WATER DISTRICT FOR VALVE AND VALVE BOX TYPE, SIZE AND PLACEMENT FOR ALL WORK WITHIN THE ROW. CONTRACTOR TO LIST ALL VALVE AND APPURTENANCES INSTALLED FOR INCLUSION IN ASBUILT DRAWINGS AND SHALL SUPPLY ALL MANUALS AND MAINTENANCE INSTRUCTIONS.
- CONTRACTOR IS RESPONSIBLE TO FLUSH, CLEAN, DISINFECT, AND PRESSURE TEST WATERLINES AND SERVICES PER SEAL ROCK WATER DISTRICT STANDARD SPECIFICATIONS. TESTING IS TO BE PERFORMED BY THE CONTRACTOR AND WITNESSED BY WATER DISTRICT PERSONNEL. TEST SAMPLES ARE TO BE TRANSPORTED TO A LAB APPROVED BY THE WATER DISTRICT. THE WATER DISTRICT SHALL RECEIVE COPIES OF TEST REPORTS.
- ALL REQUIRED VALVES AND APPURTENANCES MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE WITH THE WATER DISTRICT, THE FIRE DEPARTMENT AND THE VALVE/APPURTENANCE PROVIDER FOR NUMBER, TYPE, LOCATION AND INSTALLATION OF ANY REQUIRED VALVE OR APPURTENANCE TO ENSURE CONSTRUCTION OF AN OPERABLE WATER SYSTEM.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
1-800-332-2344
CALL TWO BUSINESS DAYS BEFORE YOU DIG

OR

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS BEFORE YOU DIG

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REGISTERED PROFESSIONAL ENGINEER
16978PE
OR REG. 13, 2006
MICHAEL K. FIELD
EXPIRES: 12-31-2021

PROJECT NO.: 19.08

PACWAVE - UTILITY MONITORING & CONNECTIONS FACILITY - PHASE 1: SITE PREP

OREGON STATE UNIVERSITY
SEAL ROCK, OREGON

CONSTRUCTION DOCS

REVISIONS:	#	DATE	DESCRIPTION

DATE: MARCH 2020

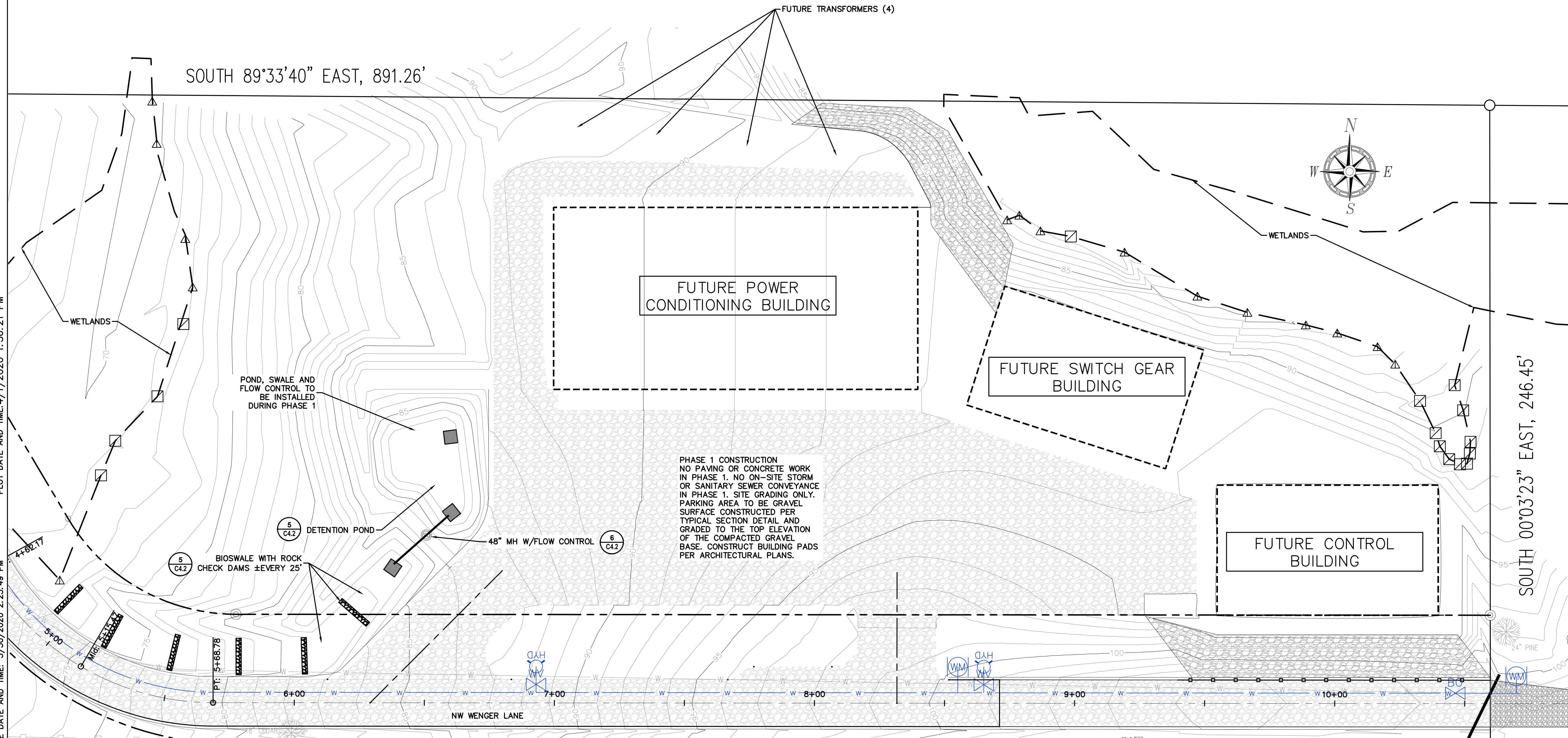
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HWY 101 APPROACH

C2.2

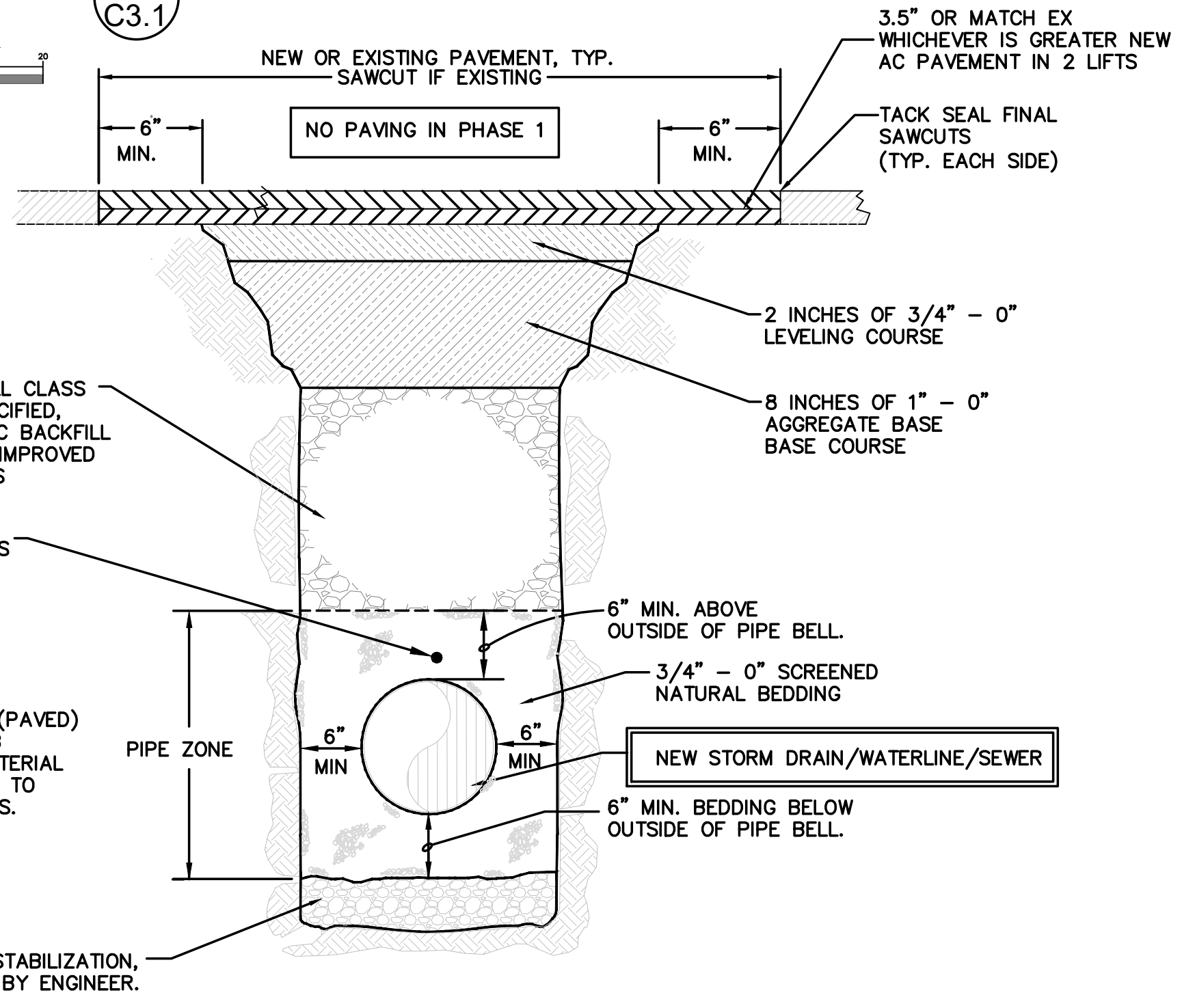
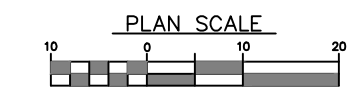
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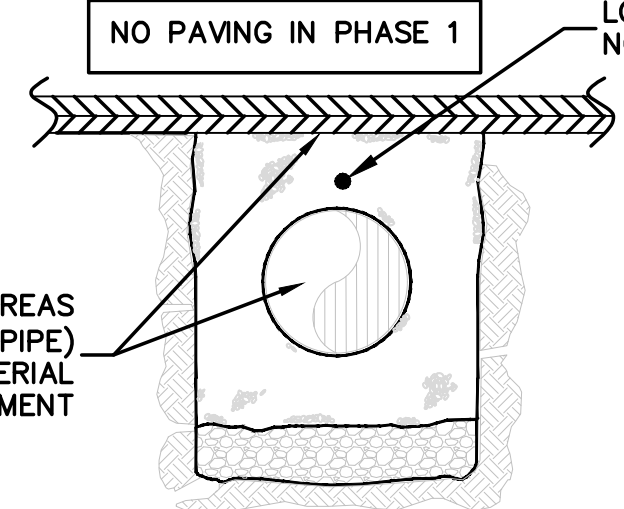
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SITE DRAINAGE PLAN 1
 SCALE: 1"=20'



FOR SHALLOW STORM PIPE INSTALLATION IN AC PAVEMENT AREAS (24" OR LESS COVER OVER TOP OF PIPE) USE C900 DR25 PIPE. EXTEND PIPE ZONE MATERIAL TO BOTTOM OF AC PAVEMENT



SHALLOW STORM PIPE INSTALLATION

TYPICAL PIPE TRENCH DETAIL 3
 N.T.S.

C3.1

FOUNDATION STABILIZATION, AS REQUIRED BY ENGINEER.

CONSTRUCTION DOCS

REVISIONS:

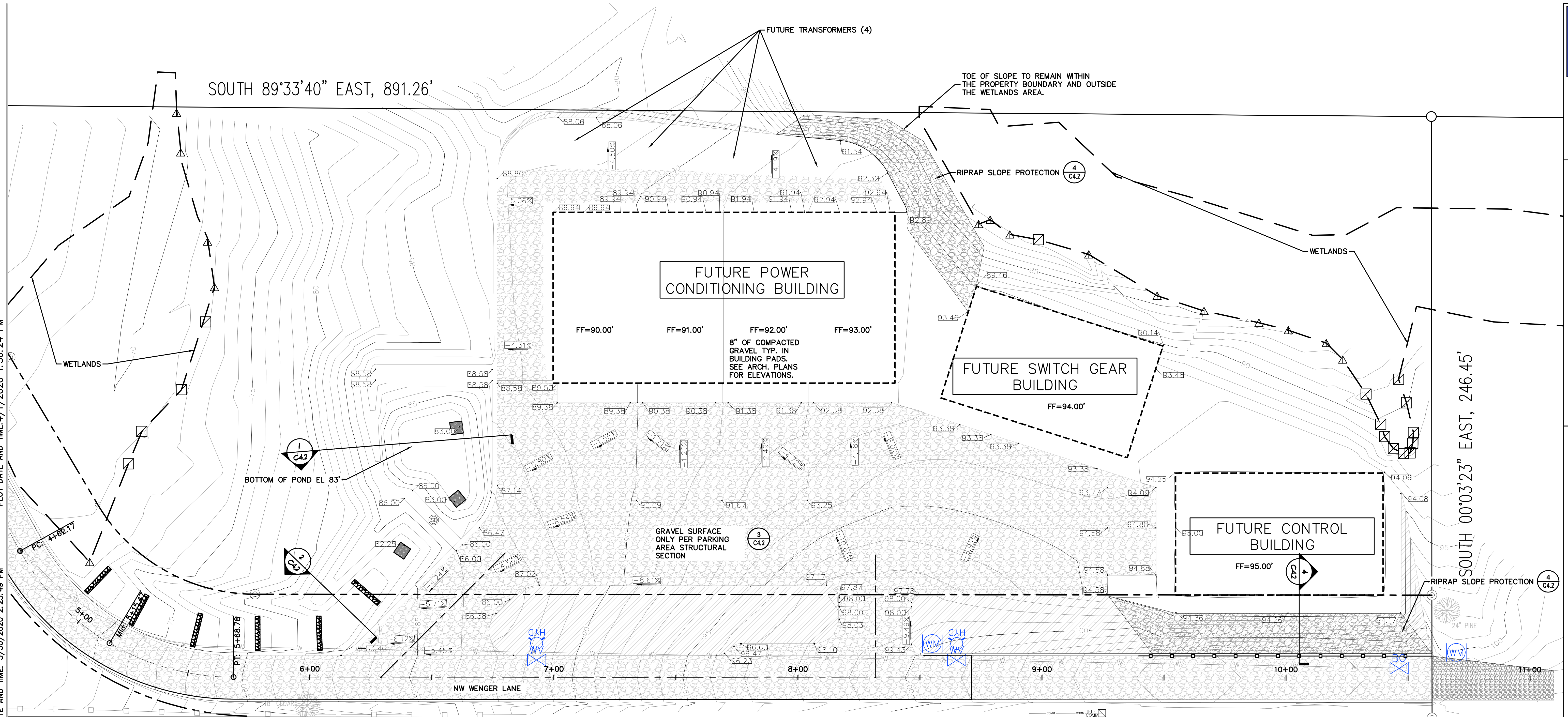
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C3.1

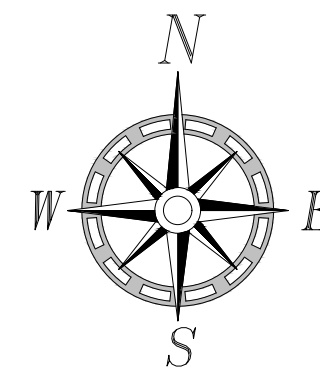
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GENERAL GRADING NOTES:

- ADJUST ALL INCIDENTAL STRUCTURES TO PROPOSED GRADE AND TO AVOID CONFLICT WITH OTHER STRUCTURES AND UTILITIES. INCIDENTAL STRUCTURES INCLUDE, BUT ARE NOT LIMITED TO: METER BOXES, VALVE BOXES, MANHOLE LIDS, CLEANOUTS, STORM CATCH BASIN GRATES, FIRE HYDRANTS, MAIL BOXES, TRAFFIC SIGNS ETC.
- ALL UNPROTECTED CUT AND FILL SLOPES 2:1 MAX TYP.
- SPOT ELEVATIONS ARE AT THE TOP OF FG SURFACE.
- CONTRACTOR TO COORDINATE WITH APPLICABLE UTILITY PRIOR TO WORKING AROUND, OR ADJUSTING PRIVATE UTILITY STRUCTURES.
- LANDSCAPE AREAS BETWEEN BUILDINGS SHALL BE GRADED TO POSITIVELY FLOW AWAY FROM THE BUILDING FOUNDATIONS TYPICALLY AT A MINIMUM OF 2.00%.
- CONTOURS SHOWN ARE FINISH GRADE.
- WHERE PROPOSED GRADE, ROADWAY OR SIDEWALK MEETS EXISTING PRIVATE DRIVEWAY, WALKWAY, STAIRS, OR ANY PRIVATE PROPERTY FEATURE; CONTRACTOR SHALL NOT MAKE ANY ADJUSTMENTS TO PRIVATE PROPERTY FEATURES WITHOUT WRITTEN PERMISSION FROM THE PROPERTY OWNER. ANY ADJUSTMENTS SHALL NOT CREATE ANY HAZARDS OR DIVERT OR INCREASE DRAINAGE ONTO PRIVATE PROPERTY. CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR ANY DAMAGE TO PRIVATE PROPERTY FEATURES, AND ANY DAMAGE TO PRIVATE PROPERTY OR DISPUTED ADJUSTMENTS WITHOUT OWNERS WRITTEN PERMISSION SHALL BE REMEDIATED AT THE CONTRACTOR'S EXPENSE. CONFLICTS REQUIRING CHANGE TO THESE GRADING PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND THE COUNTY.



BUILDING AND PARKING AREA GRADING

SCALE: 1"=20'



1
C4.1

PHASE 1 CONSTRUCTION
NO PAVING OR CONCRETE WORK
IN PHASE 1. NO ON-SITE STORM
OR SANITARY SEWER CONVEYANCE
IN PHASE 1. SITE GRADING ONLY.
PARKING AREA TO BE GRAVEL
SURFACE CONSTRUCTED PER
TYPICAL SECTION DETAIL AND
GRADED TO THE TOP ELEVATION
OF THE COMPACTED GRAVEL
BASE. CONSTRUCT BUILDING PADS
PER ARCHITECTURAL PLANS.

LEGEND

- SPOT ELEVATION
- GRADE
- CUT
- AT FUTURE FINISH GRADE WITH PAVEMENT

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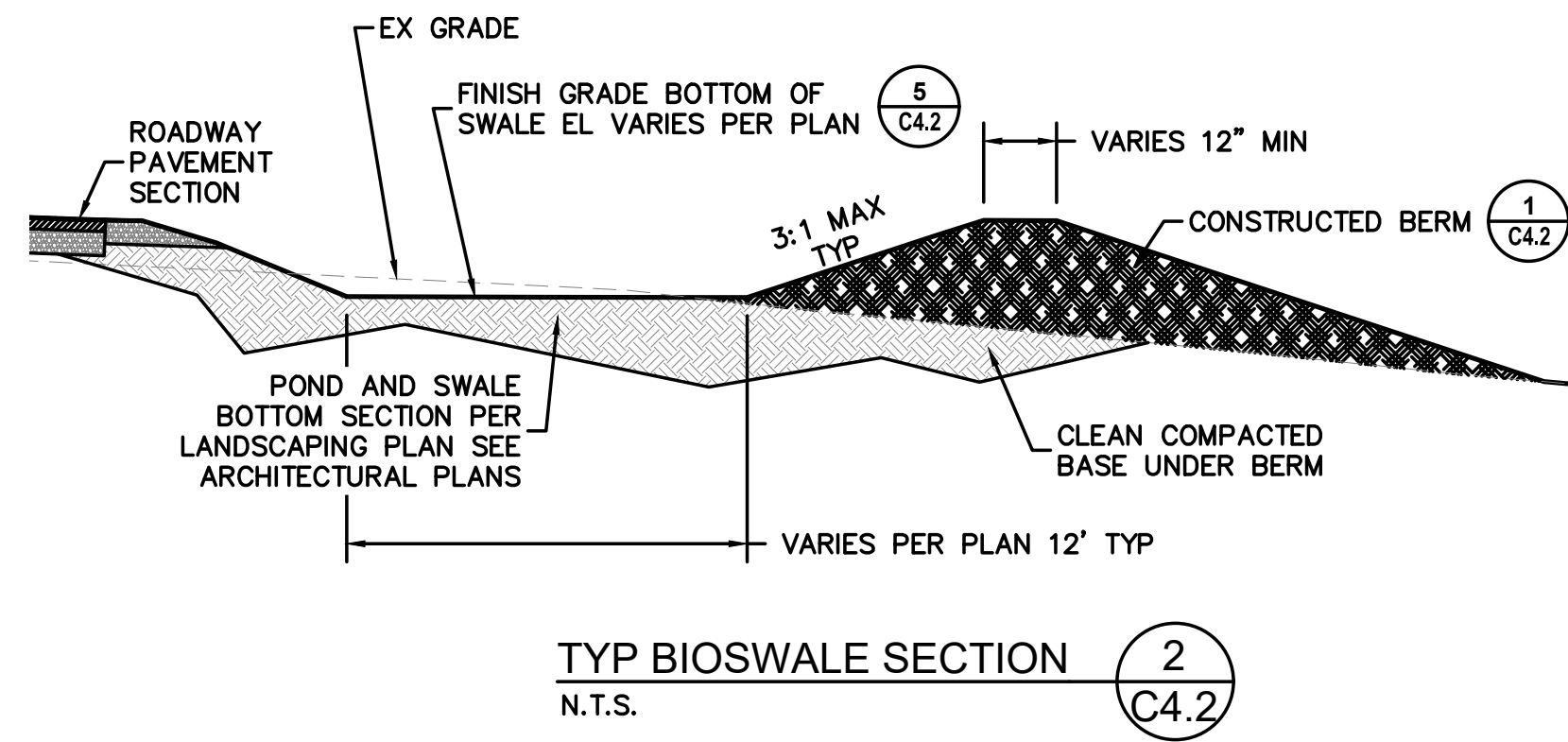
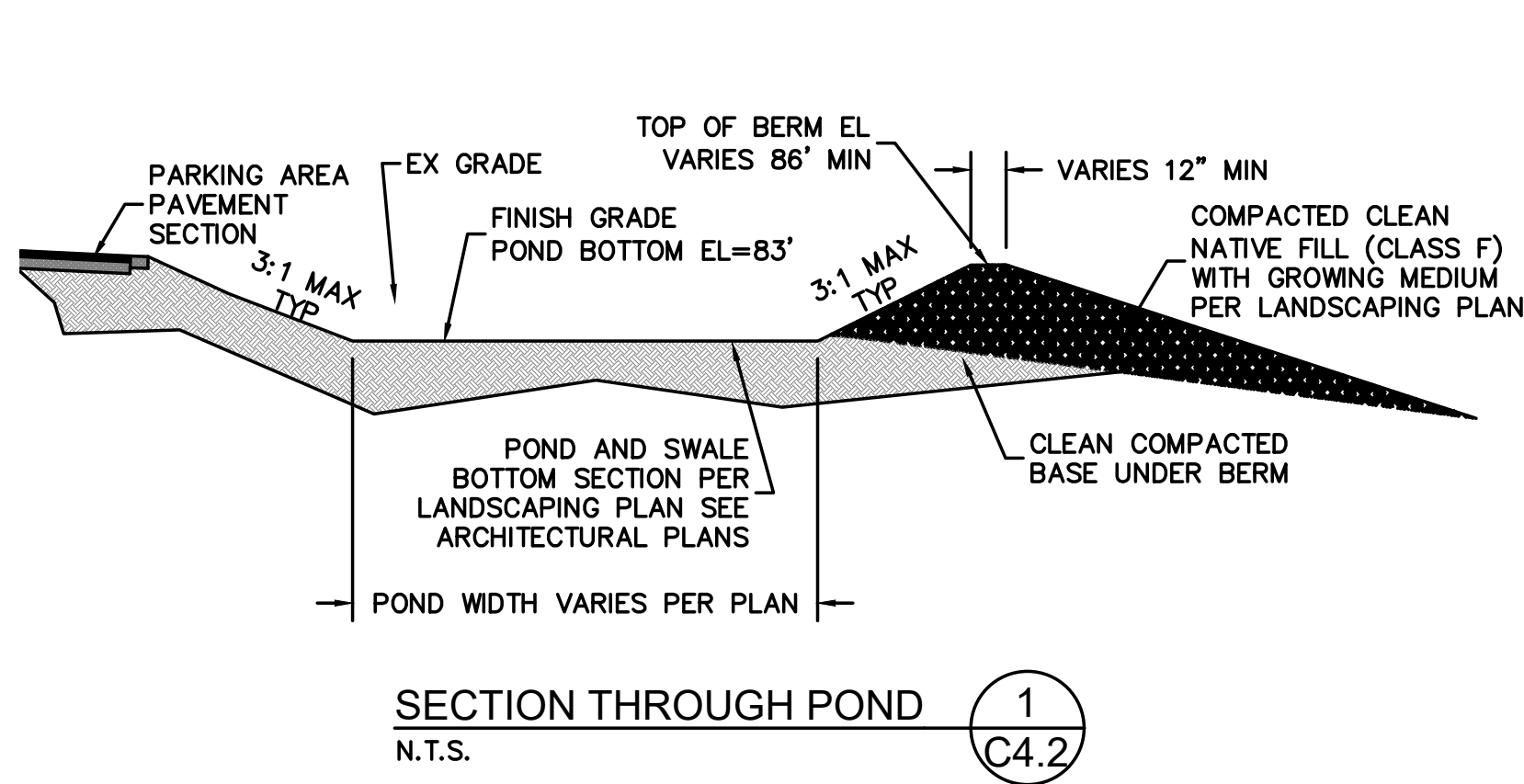
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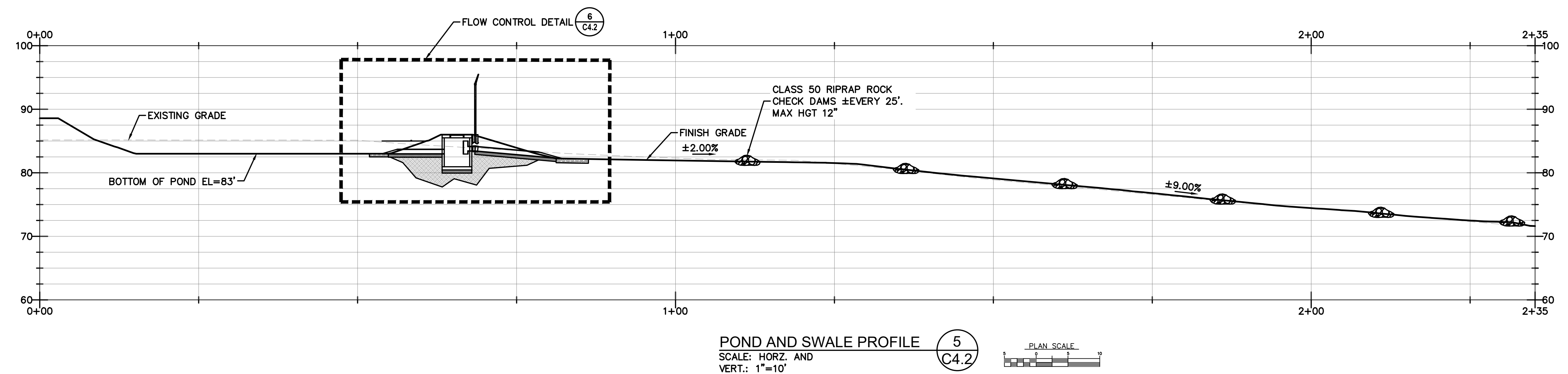
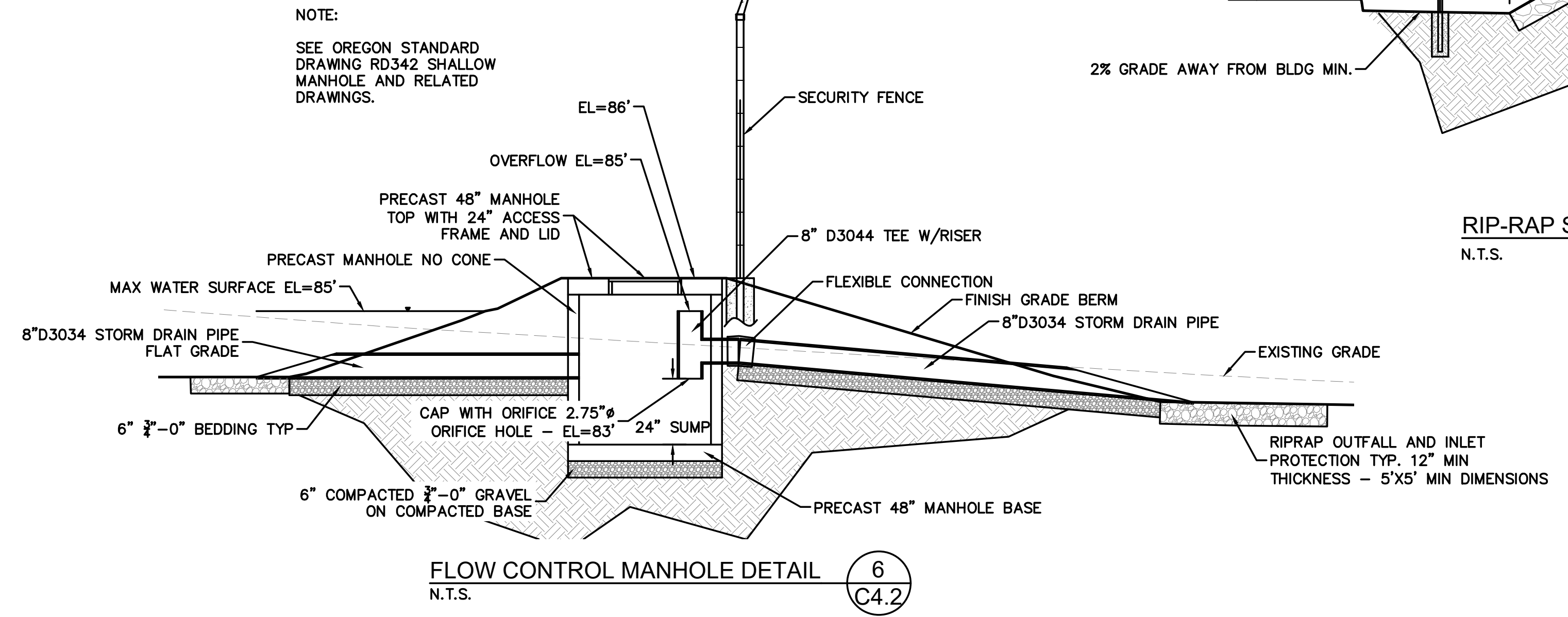
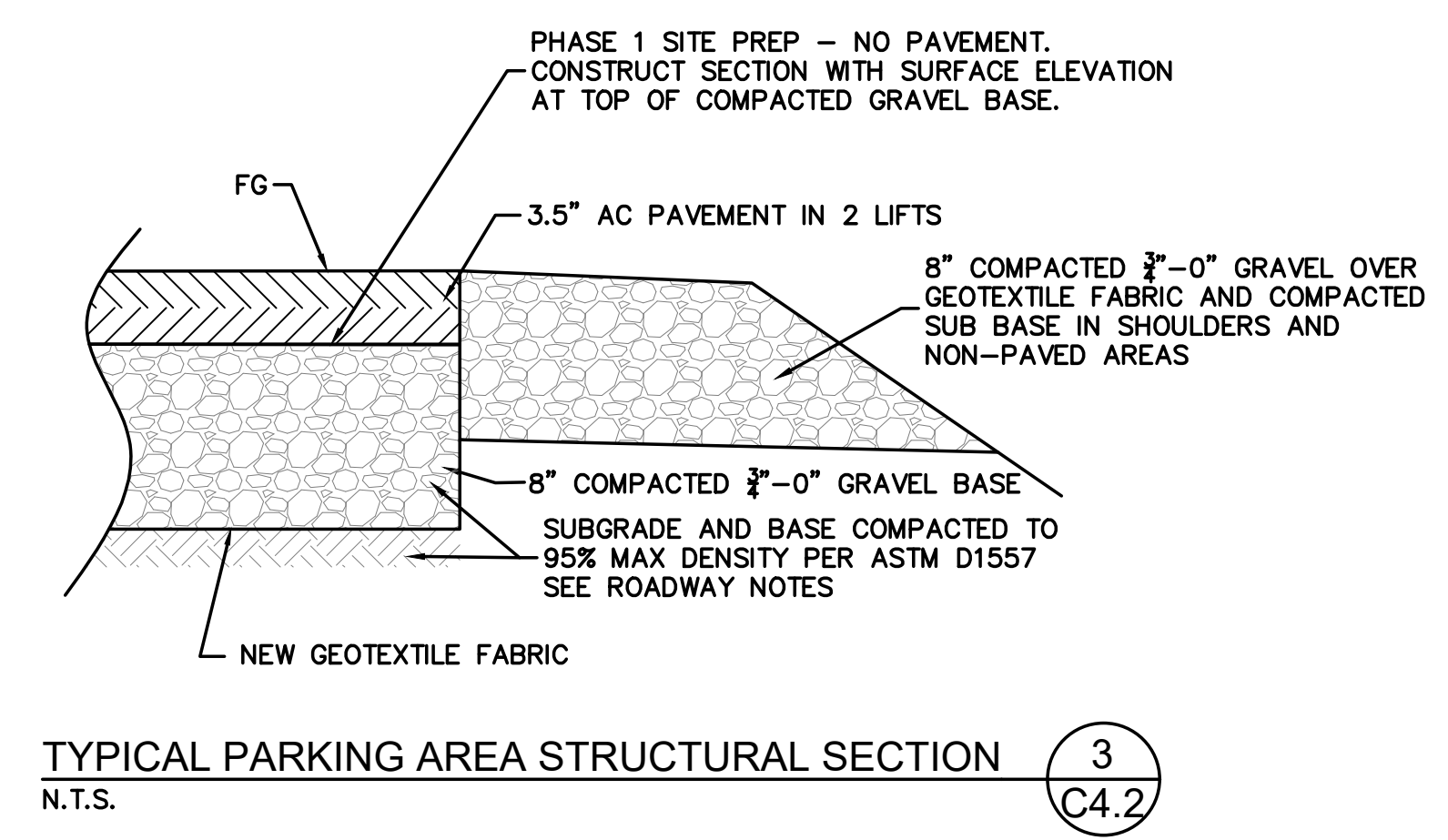
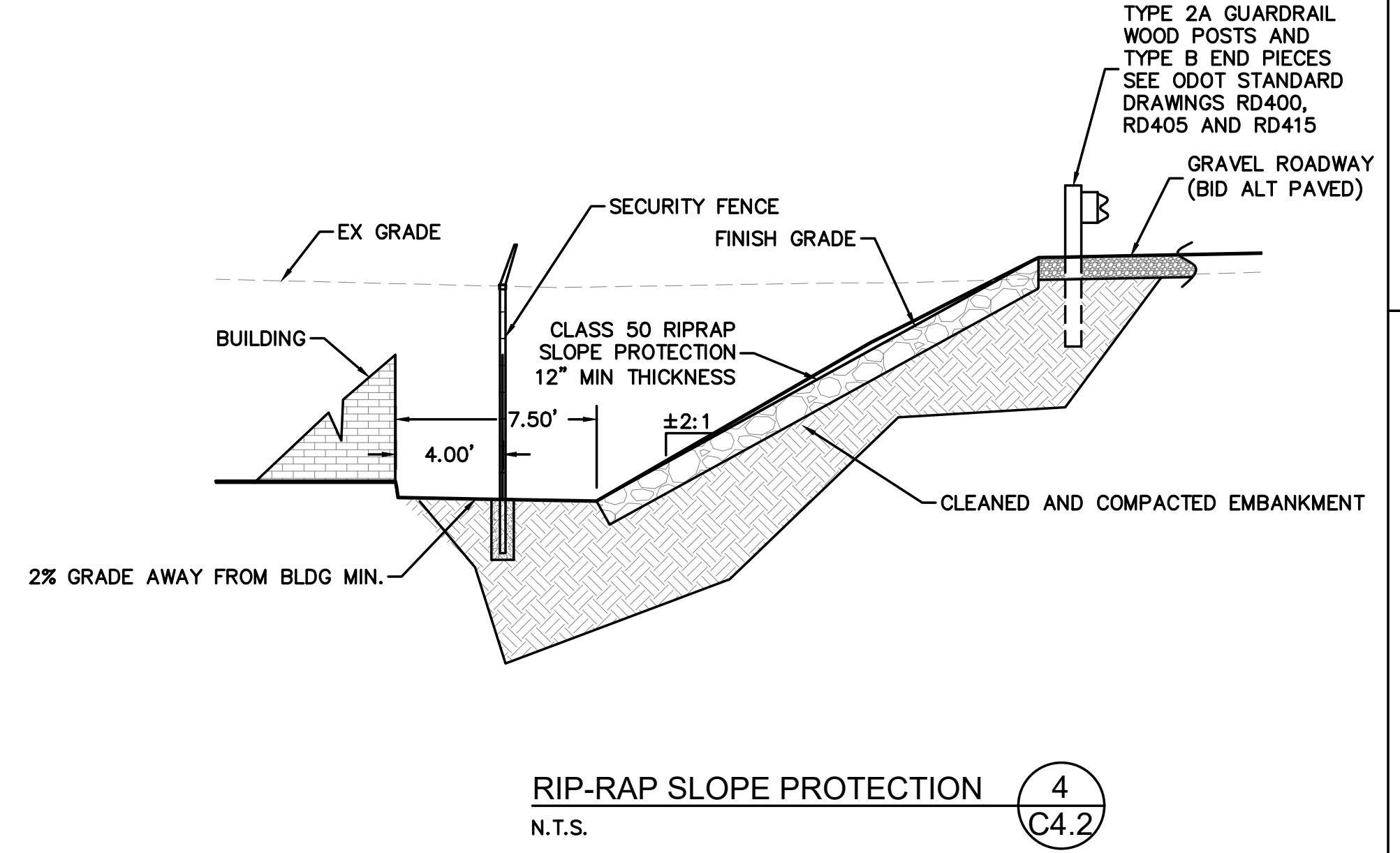
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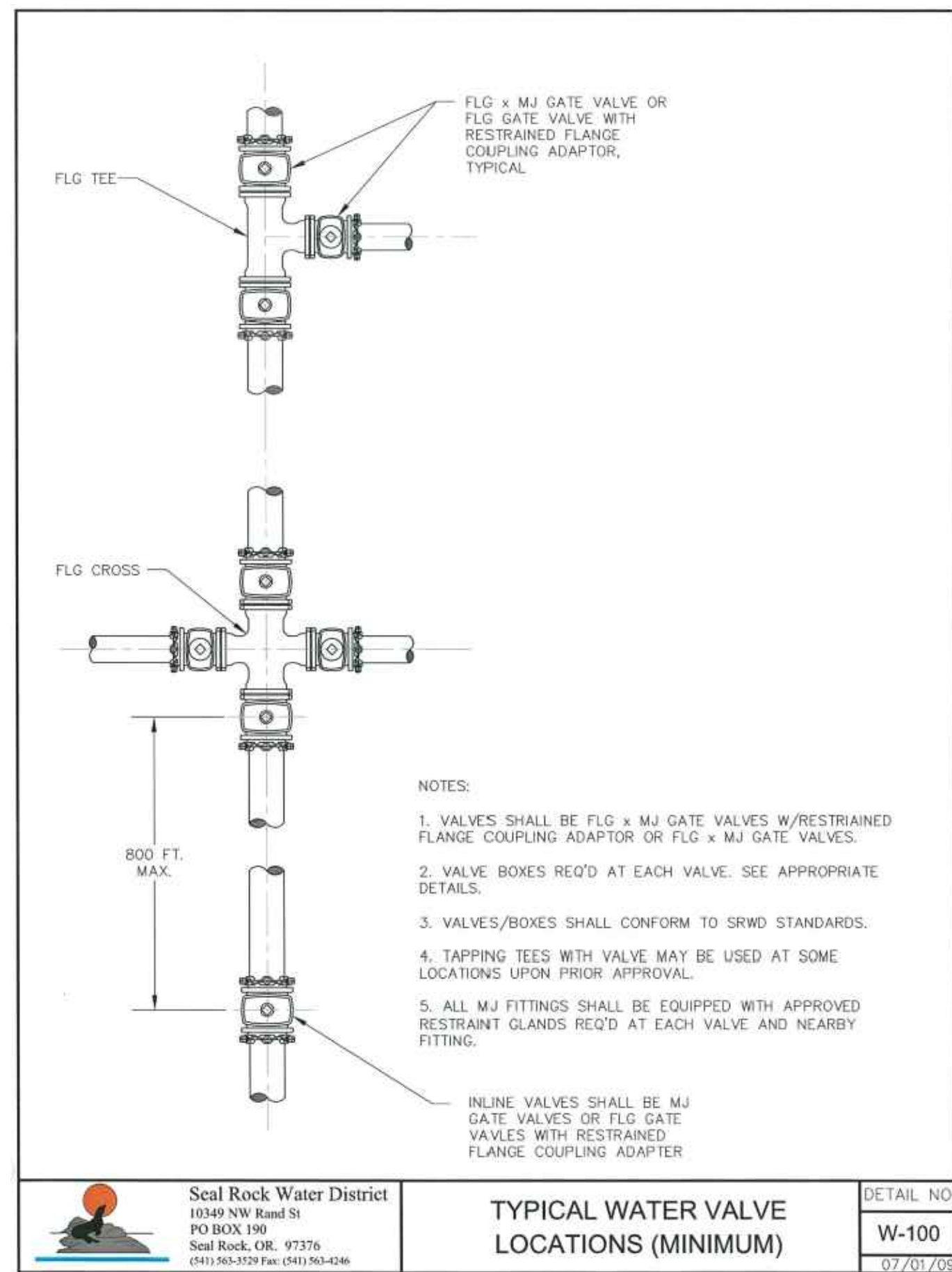
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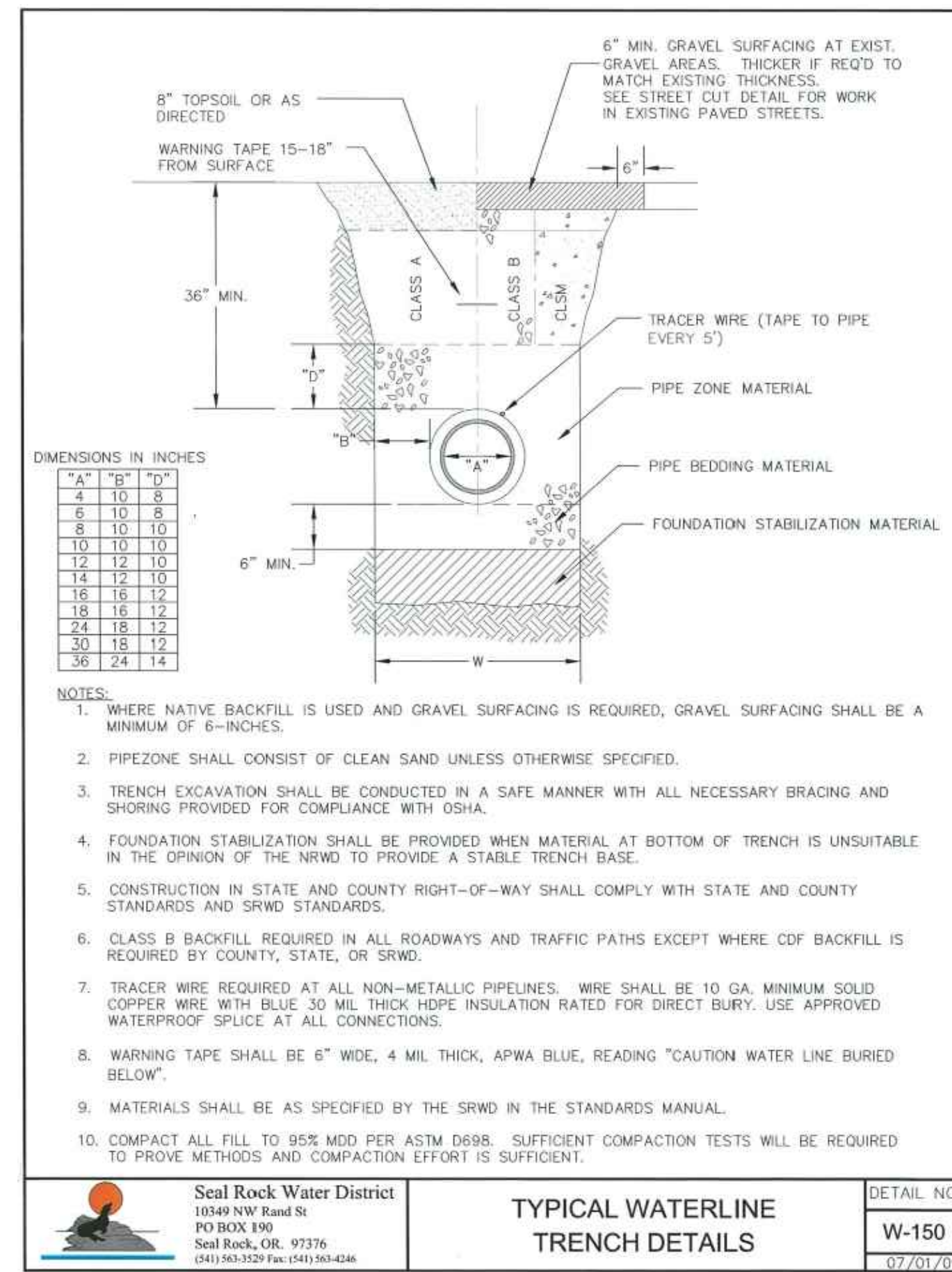
NOTE:

1. ALL BUILDING DOORWAYS SHALL HAVE A MIN 4'X4' LANDING WITH SLOPES NOT TO EXCEED 1.5%.
2. THRESHOLD LIP VARIES 0" TO 3/4" TYP. SEE ARCHITECTURAL PLANS.

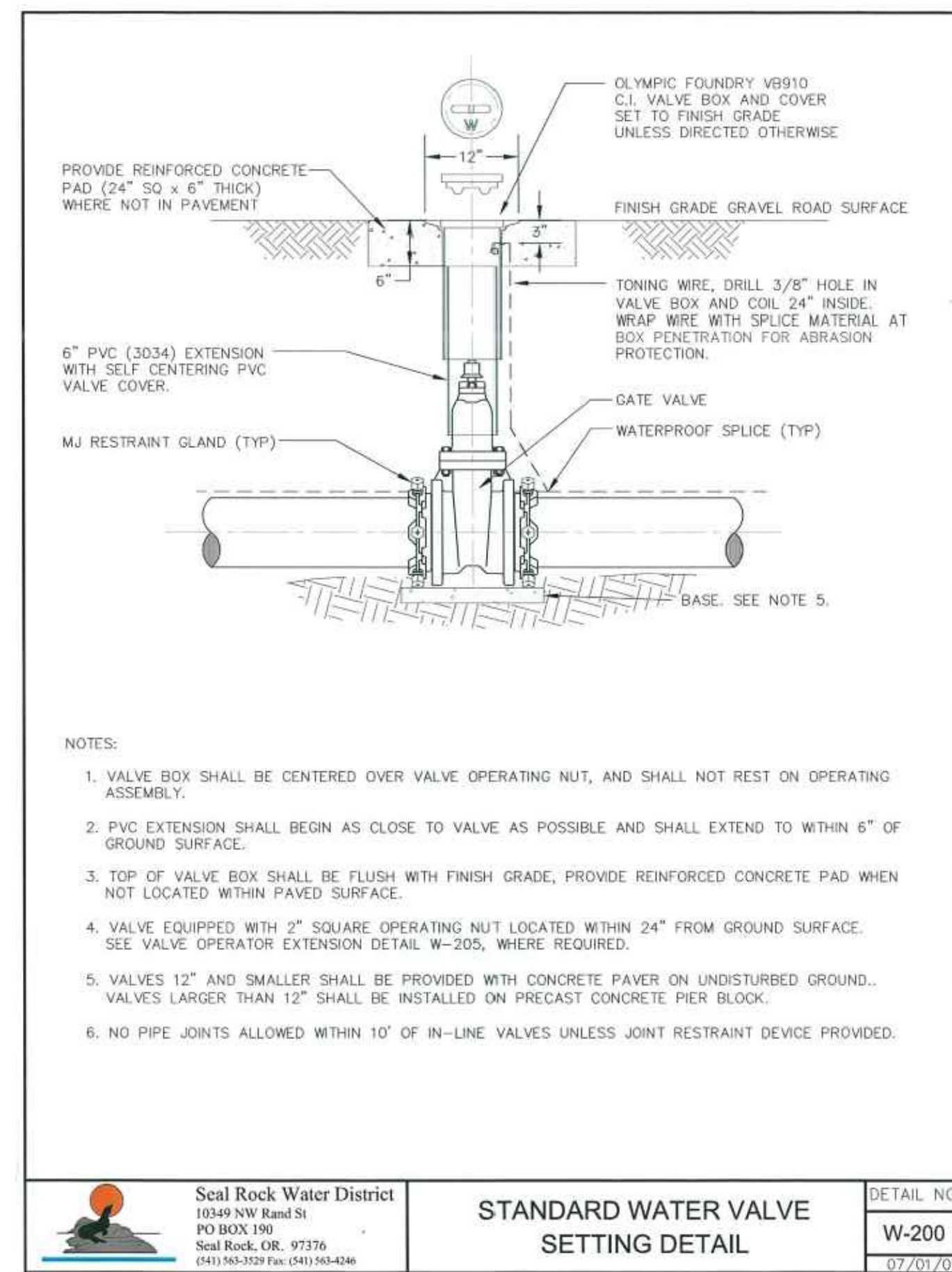




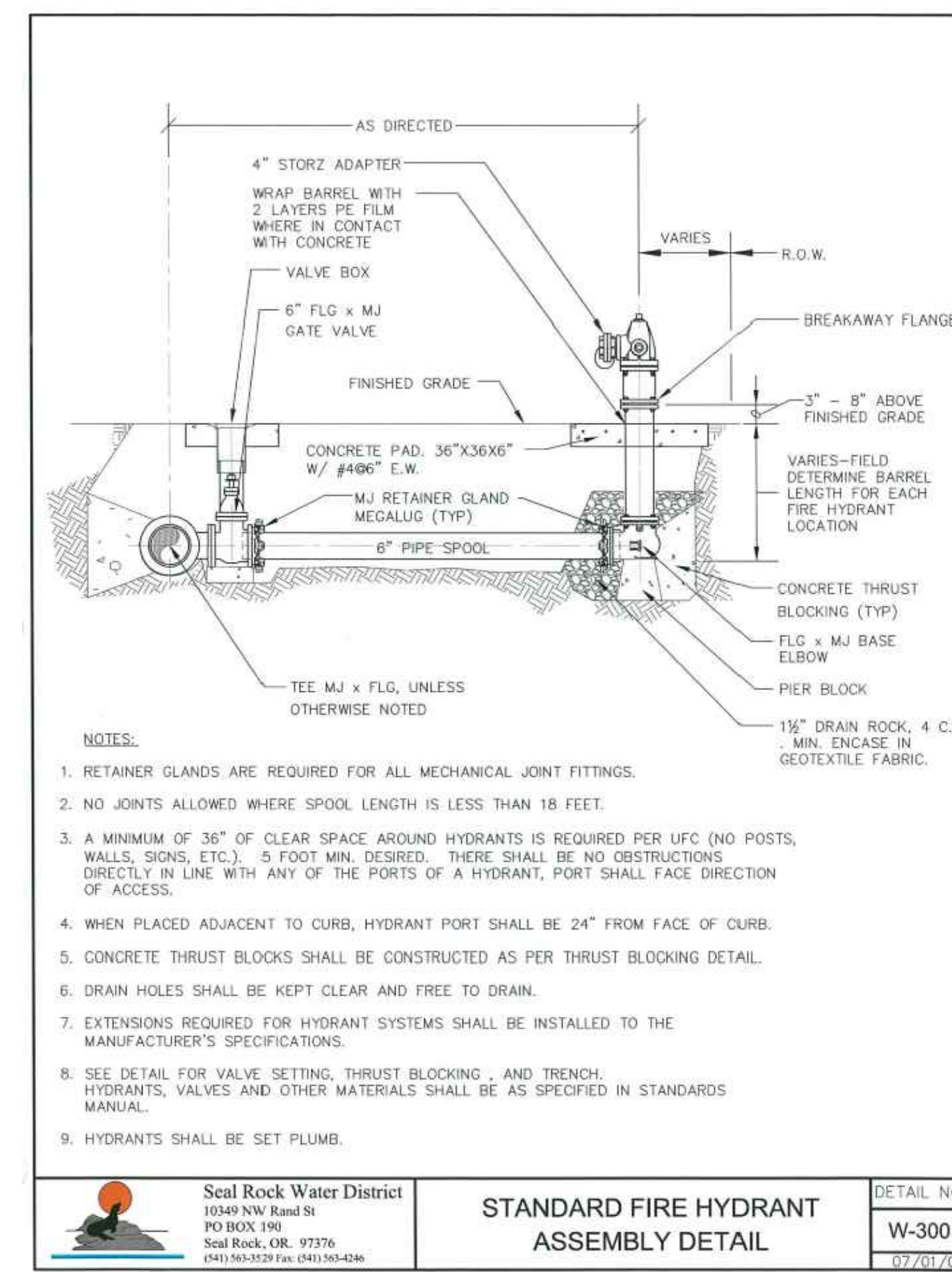
W-100 WATER VALVE LOCATIONS
N.T.S. C9.1



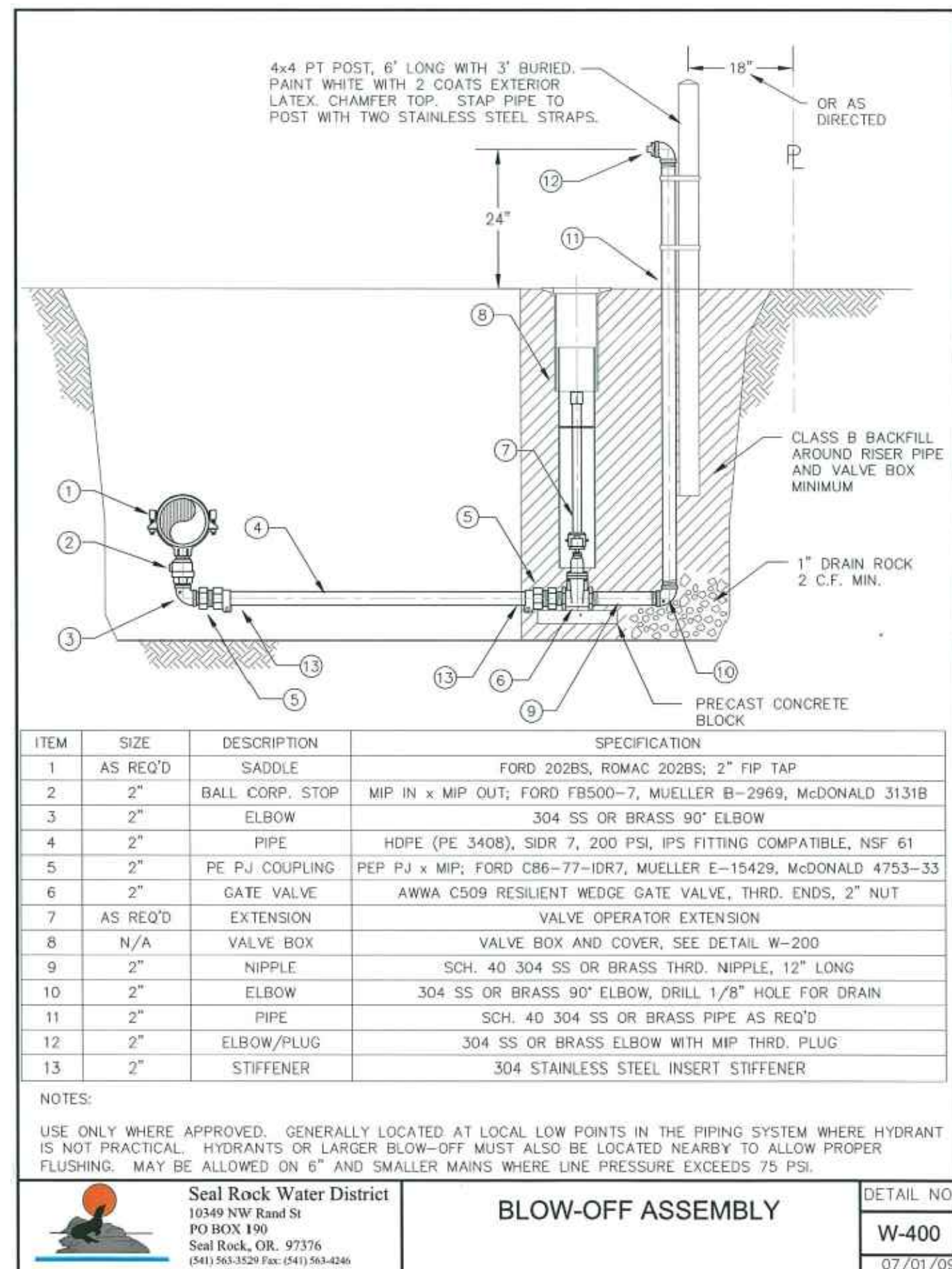
W-150 WATERLINE TRENCH DETAIL
N.T.S. C9.1



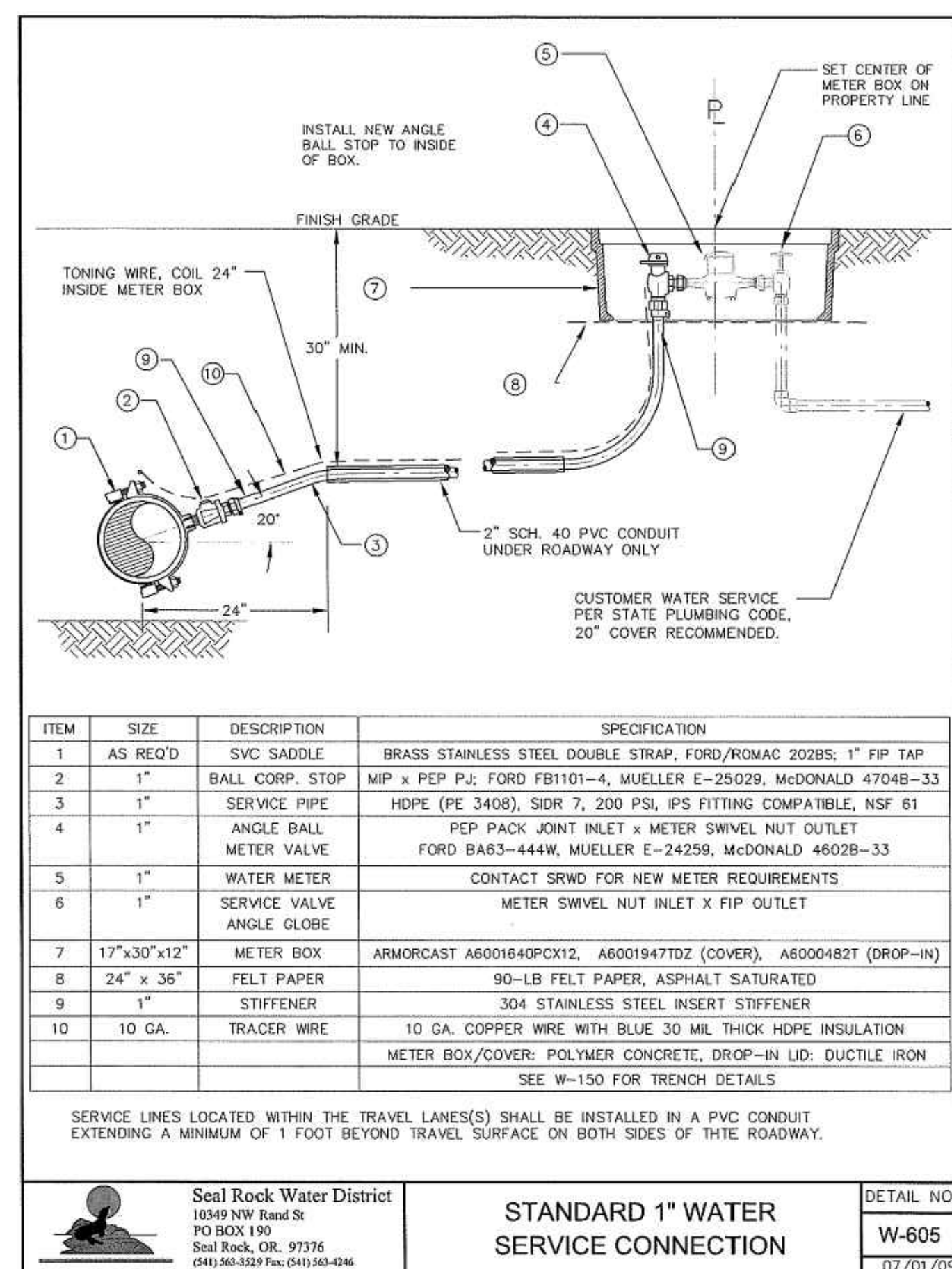
W-200 VALVE SETTING DETAIL
N.T.S. C9.1



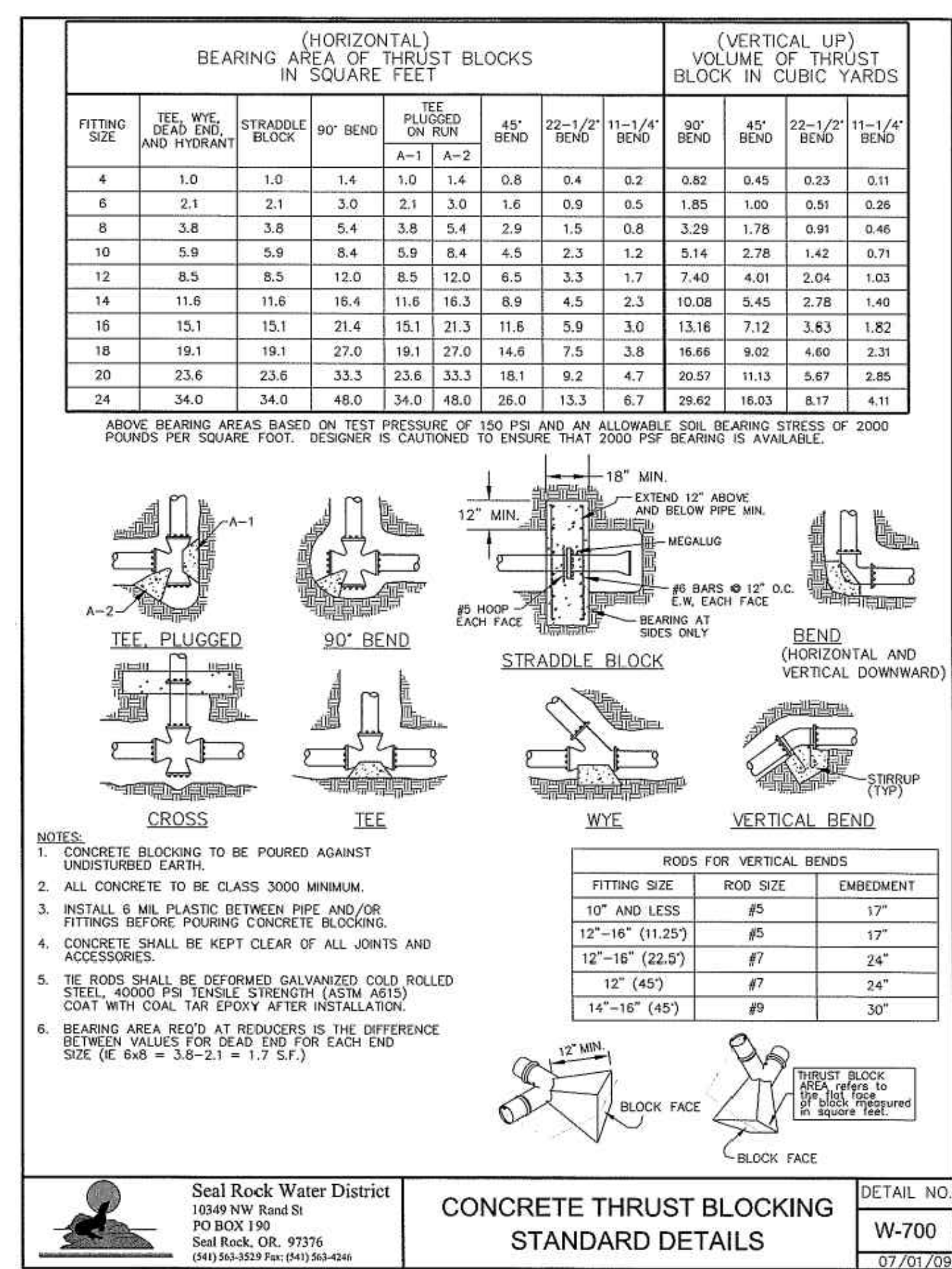
W-300 FIRE HYDRANT DETAIL
N.T.S. C9.1



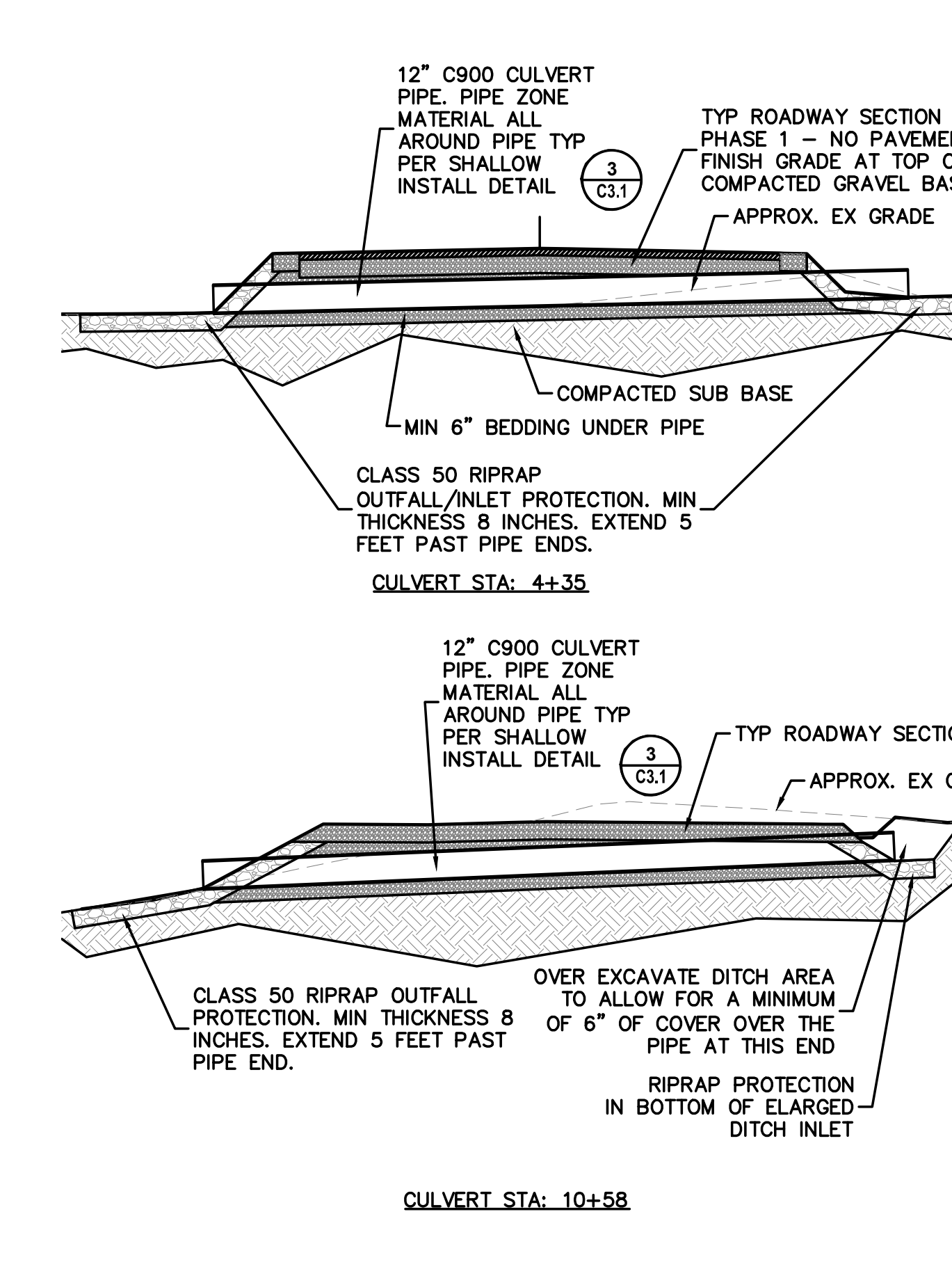
W-400 BLOW-OFF ASSEMBLY
N.T.S. C9.1



W-605 1" WATER SERVICE DETAIL
N.T.S. C9.1



W-700 THRUST BLOCKING DETAIL
N.T.S. C9.1



NW WENGER LANE CULVERTS
N.T.S. C9.1

GENERAL ELECTRICAL NOTES

- A. VAULTS TO BE PRECAST, REINFORCED CONCRETE SECTIONS (TOP, BASE AND WHERE REQUIRED, EXTENSION SECTIONS) WITH KNOCKOUTS OR DUCT TERMINATORS WITH PVC END BELLS FOR MAIN CONDUIT ENTRANCES WITH RECESSED KEYWAYS AND SUBSIDIARY DUCT ENTRANCES.
- B. CONCRETE INSERTS TO BE SET IN INTERIOR SURFACES OF WALLS OF EACH VAULT SECTION TO PROVIDE FOR CABLE RACK MOUNTING. BASE SECTION WILL BE EQUIPPED WITH PULLING IRONS.
- C. VAULT COVERS TO BE MANUFACTURED FROM METAL CASTING, CONFORMING TO ASTM A48-83. COVERS TO BE CLASS 35B GRAY CAST IRON, WITH MACHINE FINISHED FLAT BEARING SURFACE.
- D. DURING VAULT PREPARATION, EXCAVATE TO REQUIRED DEPTH AND REMOVE MATERIALS THAT ARE UNSTABLE OR UNSUITABLE FOR GOOD FOUNDATION. PREPARE LEVEL, COMPACTED FOUNDATION EXTENDING 6-INCHES BEYOND BASE.
- E. SET VAULT BASE PLUMB AND LEVEL.
- F. PROVIDE MINIMUM 18-INCHES OF PEA GRAVEL BELOW MANHOLE/VAULT FOR STABILITY AND DRAINAGE.
- G. WHEN RECOMMENDED BY MANUFACTURER, FILL VOID BETWEEN HORIZONTAL JOINT SURFACES WITH SAND CEMENT GROUT AROUND THE OUTSIDE PERIMETER OF VAULT.
- H. USE PRECAST NECK AND SHAFT SECTIONS TO BRING MANHOLE/VAULT COVER TO FINISHED ELEVATION.
- I. PROVIDE CABLE RACKS IN EACH MANHOLE/VAULT FOR SUPPORT OF CONDUCTORS. ATTACH CABLE RACKS TO INSERTS AFTER MANHOLE/VAULT INSTALLATION IS COMPLETE.
- J. POWER AND SYSTEM DUCT BANK RACEWAYS: PVC, FIBERGLASS (RTRC) OR PVC COATED RIGID METAL CONDUIT.
- K. ELBOWS FOR POWER AND SYSTEM RACEWAYS; FIBERGLASS (RTRC) ELBOWS OR PVC COATED RIGID METAL CONDUIT ELBOWS.
- L. PROVIDE ALL EXCAVATION AND BACKFILL REQUIRED TO SUPPORT DIVISION 01 AND THIS DIVISION OF WORK FOR RACEWAYS. COORDINATE TRENCH SPECS FOR CONCRETE, SOIL OR SAND BACKFILL.
- M. EXCAVATE TRENCHES SIX INCHES DEEPER AND WIDER THAN DUCTBANK BURIAL AND CROSS-SECTIONAL REQUIREMENTS. REMOVE FROM THE SITE ALL EXCAVATED MATERIALS NOT SUITABLE OR SPECIFIED FOR BACKFILL.
- N. BACKFILL RACEWAY TRENCHES WITH SAND, TAMPED FIRM AND EVEN TO TRENCH DEPTH LEVEL.
- O. PROVIDE SHEETING, SHORING, DEWATERING, AND CLEANING REQUIRED TO KEEP THE RACEWAY TRENCHES AND THEIR GRADES IN PROPER CONDITION FOR THE WORK TO BE CARRIED ON.
- P. SLOPE RACEWAYS AWAY FROM BUILDINGS AND DRAIN TOWARDS MANHOLES OR VAULTS WITH A MINIMUM SLOPE OF 3 PERCENT. DRAIN RACEWAYS INTO MANHOLES OR VAULTS, NOT INTO BUILDING STRUCTURES OR PANELS. WHERE SLOPING CANNOT BE FULLY PROVIDED AND THERE IS A SECTION OF RACEWAY WHERE WATER WOULD FLOW TO A PANEL, SWITCHBOARD, TRANSFORMER, OR BUILDING, PROVIDE A MEANS TO DISCHARGE THE EXCESS WATER FROM THE RACEWAY, OR RACEWAY SYSTEM, CONSISTING OF A BOX OR FITTING AT A LOW POINT PRIOR TO EQUIPMENT ENTRY, OR AT A BUILDING ENTRY, WITH A FITTING OR PLUG THAT CAN BE REMOVED TO ALLOW DRAINAGE.
- Q. CUT RACEWAY SQUARE USING SAW OR PIPE CUTTER; DE-BURR CUT ENDS.
- R. INSERT RACEWAY TO SHOULDER OF FITTINGS, FASTEN SECURELY.
- S. JOIN PVC RACEWAY USING ADHESIVE AS RECOMMENDED BY MANUFACTURER.
- T. WIPE PVC RACEWAY USING ADHESIVE AS RECOMMENDED BY MANUFACTURER.
- U. WIPE PVC RACEWAY DRY AND CLEAN BEFORE JOINING. APPLY FULL EVEN COAT OF ADHESIVE TO ENTIRE AREA INSERTED IN FITTING. ALLOW JOINT TO CURE FOR 20-MINUTES, MINIMUM.
- V. NUMBER OF EQUIVALENT 90-DEGREE BENDS PERMITTED IN RACEWAY BETWEEN PULL POINTS: MAXIMUM OF THREE BENDS FOR POWER SYSTEM CONDUIT BANKS.
- W. PROVIDE SUITABLE FITTINGS TO ACCOMODATE EXPANSION AND DEFLECTION OF RACEWAY WHERE REQUIRED.
- X. PROVIDE 1/4-INCH POLYPROPYLENE PULL ROPE IN EACH EMPTY RACEWAY.
- Y. TERMINATE RACEWAY AT MANHOLE ENTRIES USING END BELLS.
- Z. USE SUITABLE RACEWAY SEPARATORS AND CHAIRS INSTALLED NOT GREATER THAN 5 FEET ON CENTERS.
- AA. INTERFACE INSTALLATION OF UNDERGROUND WARNING TAPE WITH BACKFILLING ABOVE RACEWAYS. INSTALL TAPE 6 INCHES BELOW FINISHED SURFACE.
- BB. DUCT BANK ROUTING IS SHOWN ON DRAWINGS IN APPROXIMATE LOCATIONS UNLESS DIMENSIONS ARE INDICATED. VERIFY ROUTING AND TERMINATION LOCATIONS OF DUCT BANKS PRIOR TO EXCAVATION FOR ROUGH-IN. COORDINATE WITH ADDITIONAL SITE UTILITY SYSTEMS AND BUILDING FOUNDATION DEPTHS.
- CC. CLEAN VAULTS FOLLOWING INSTALLATION, LEAVING THEM FREE OF DEBRIS, SILT, AND ROCKS.

SHEET INDEX

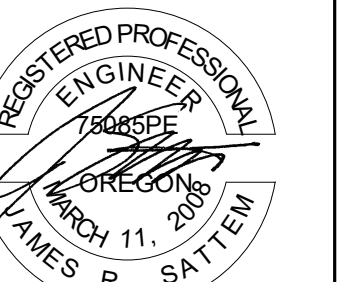
- E0.10 GENERAL NOTES - ELECTRICAL
- E1.10 SITE PLAN - SITE PREP ELECTRICAL

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EXPIRES: 06/30/20

PROJECT NO.: 19.08
PACWAVE - UTILITY CONNECTION & MONITORING FACILITY - PHASE 1: SITE PREP
 OREGON STATE UNIVERSITY
 SEAL ROCK, OR

CONSTRUCTION

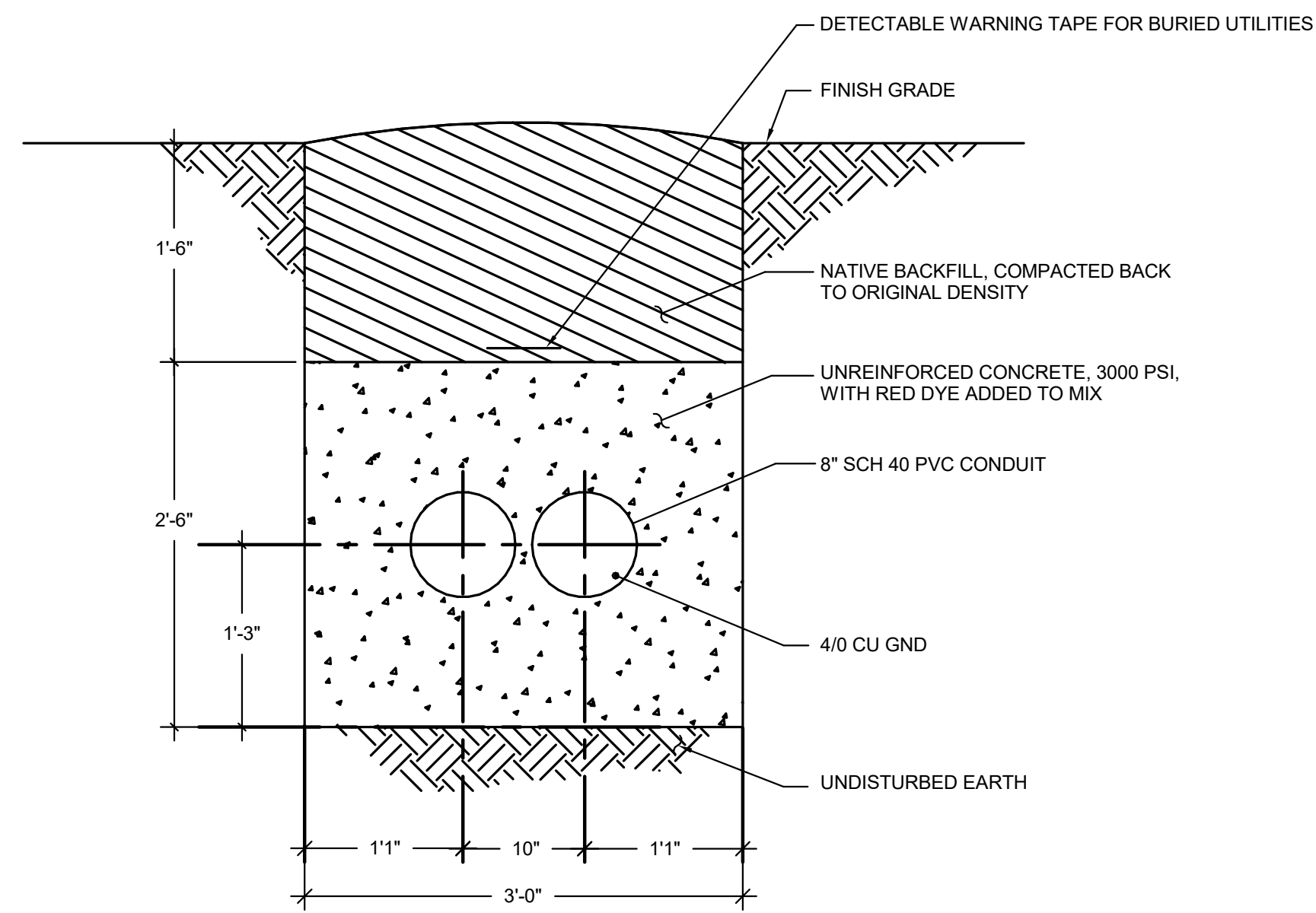
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DATE: MARCH 2020

SHEET TITLE:
GENERAL NOTES - ELECTRICAL

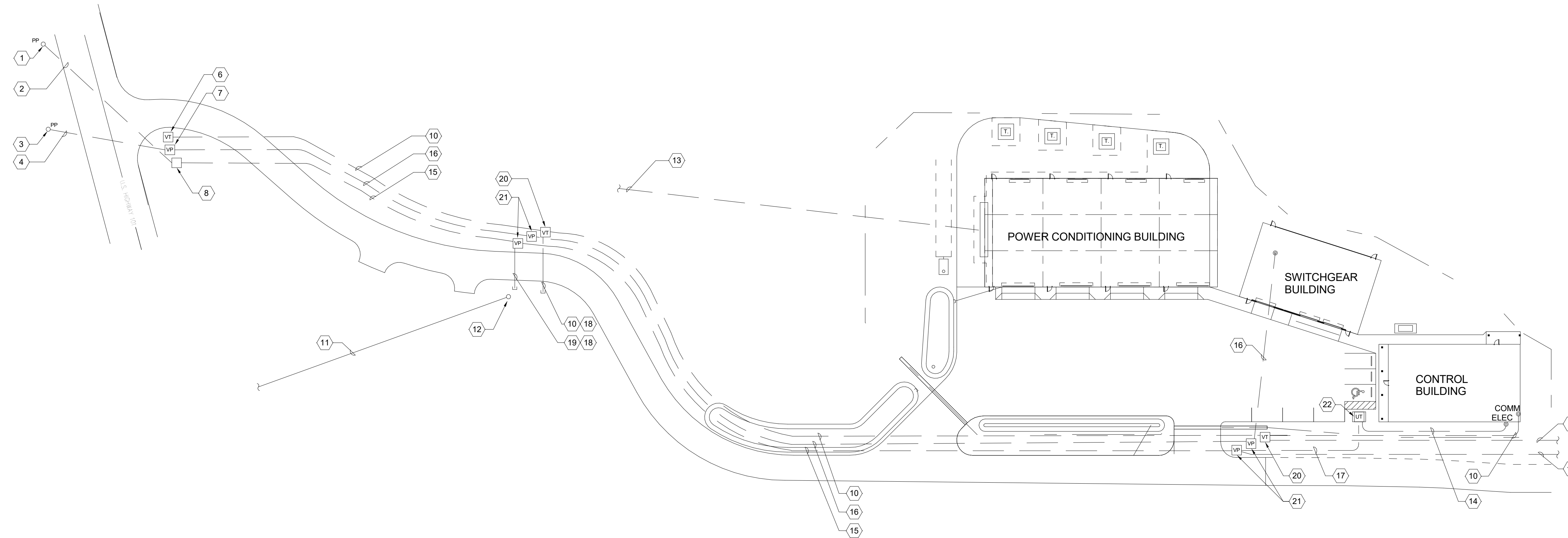
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2 CONCRETE ENCASED CONDUIT DETAIL

NO SCALE



1 SITE PLAN - SITE PREP ELECTRICAL

1" = 40'-0"

SHEET KEYNOTES

1. (E) UTILITY POLE WITH NEW RISER BY CLPUD.
2. PROVIDE (3) 2" C. FOR 12.5KV PRIMARY. DIRECT BORE BELOW HIGHWAY 101 TO EXISTING POLE LOCATION. EXTEND CONDUITS AT POLE 3'-0" AFG FOR CONNECTION BY CLPUD.
3. NEW UTILITY POLE AND RISER TO BE PROVIDED BY CLPUD. LOCATION TO BE COORDINATED WITH CLPUD PRIOR TO STUBBING UP CONDUITS.
4. PROVIDE (2) 8" CONDUITS FOR 12.5KV CONNECTION TO CLPUD BENEATH HIGHWAY 101. DIRECT BORE BELOW HIGHWAY 101 BY CONTRACTOR. CONDUITS TO BE ENCASED IN CONCRETE, USING SLURRY INJECTION. EXTEND CONDUITS 3'-0" AFG AT NEW UTILITY POLE LOCATION FOR CONNECTION BY CLPUD.
5. NOT USED.
6. PROVIDE 3'-0" x 5'-0" UTILITY VAULT FOR TELECOM.
7. PROVIDE 5'-0" x 7'-0" UTILITY VAULT FOR MEDIUM VOLTAGE.
8. INSTALL ABOVE GRADE FIBERGLASS CABINET FURNISHED BY UTILITY.
9. PROVIDE (3) 2" C. FOR TELECOM, STUB AND CAP 5'-0" BEYOND PROPERTY LINE FOR EXTENSION BY OTHERS.
10. PROVIDE (3) 2" C. FOR TELECOM.
11. (E) 7.2KV AERIAL PRIMARY.
12. (E) UTILITY POLE TO REMAIN.
13. 30' DIRECT BORE FROM DRIFTWOOD STATE PARK FOR OFFSHORE FEEDERS BY PACWAVE.
14. PROVIDE (3) 4" CONDUITS FOR SECONDARY SERVICE TO CONTROL BUILDING.
15. PROVIDE (3) 2" C. FOR 12.5KV PRIMARY SERVICE.
16. PROVIDE (2) 8" CONDUITS FOR 12.5KV CONNECTION TO CLPUD. CONDUITS TO BE ENCASED IN CONCRETE. SEE DETAIL 2/E1.10.
17. PROVIDE (3) 2" C. FOR 12.5KV PRIMARY SERVICE TO BLDG XFMR.
18. STUB AND CAP CONDUIT 5'-0" PAST ROADWAY FOR EXTENSION BY OTHERS.
19. PROVIDE (1) 2" C. FOR 12.5KV PRIMARY SERVICE. STUB AND CAP CONDUIT 5'-0" BEYOND PROPERTY LINE FOR EXTENSION BY OTHERS.
20. PROVIDE 3'-0" x 5'-0" UTILITY VAULT FOR TELECOM.
21. PROVIDE 5'-0" x 7'-0" UTILITY VAULT FOR POWER.
22. PROVIDE 8'-0" X 8'-0" CONCRETE PAD FOR CLPUD TRANSFORMER.



CONSTRUCTION

REVISIONS:	#	DATE	DESCRIPTION

DATE: MARCH 2020

SHEET TITLE:
SITE PLAN - SITE PREP ELECTRICAL