GENERAL NOTES

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2010 EDITION OF THE OREGON STRUCTURAL SPECIALTY CODE, CITY STANDARDS AND SPECIFICATIONS, LOCAL RULES AND STANDARDS OF GOVERNING AGENCIES HAVING JURISDICTION.

2. PRIOR TO DIGGING VERIFY LOCATION AND DEPTH OF UTILITIES AND ANY OTHER UNDERGROUND INTERFERENCE. CALL TWO BUSINESS DAYS BEFORE YOU DIG AT 811.

3. STATEMENT OF ERRORS, AMBIGUITIES AND OMISSIONS: ANY ERRORS, AMBIGUITIES, AND OMISSION IN DRAWINGS AND/OR SPECIFICATIONS SHALL BE REPORTED TO KNUTZEN ENGINEERING FOR CORRECTION BEFORE ANY PART OF THE WORK IS STARTED. UNLESS EXPRESSLY STIPULATED NO ADDITIONAL ALLOWANCE WILL BE MADE IN THE CONTRACTOR AND/OR MANUFACTURE'S FAVOR BY VIRTUE OF ERRORS, AMBIGUITIES, AND/OR OMISSIONS WHICH SHOULD HAVE BEEN DISCOVERED DURING THE PREPARATION OF BID ESTIMATE AND DIRECTED TO THE ATTENTION OF KNUTZEN ENGINEERING IN A TIMELY MANNER. KNUTZEN ENGINEERING ACCEPTS NO RESPONSIBILITY FOR WORK DONE BY THE CONTRACTOR OR SUBCONTRACTORS CONTRARY TO THE PLANS OR SPECIFICATIONS. SUBSTITUTION OR CHANGES WILL NOT BE ACCEPTED UNLESS APPROVED IN WRITING. THE SUBCONTRACTOR SHALL REVIEW ALL SECTIONS OF SPECIFICATIONS AND ALL SHEETS OF THE PLANS FOR ANY INFORMATION OR DETAILS PERTAINING TO THEIR SPECIFIC TRADE.

4. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF SITE CONDITIONS, INSTALLATION STANDARDS AND CONSTRUCTION CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO SHOP FABRICATION AND/OR FIELD ERECTION. DISCREPANCIES BETWEEN SITE CONDITIONS AND THE CONSTRUCTION DRAWINGS SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER. WORK DONE WITHOUT THE ENGINEERS APPROVAL IS THE RESPONSIBILITY OF THE CONTRACTOR. LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE ONLY. CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE WHICH MIGHT OCCUR TO EXISTING UTILITIES.

5. CONTRACTOR IS TO PROVIDE A METHOD OF CONSTRUCTION WHICH WILL ALLOW FOR OWNER TO REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION WITH AS LITTLE DISRUPTION AS POSSIBLE.

6. CONTRACTOR IS TO PROVIDE A METHOD OF CONSTRUCTION OF OFF–SITE WORK THAT WILL ALLOW MINIMAL DISTURBANCE TO TRAFFIC FLOWS ON PUBLIC AND PRIVATE WAYS.

7. ALL SPECIAL INSPECTION AND TESTING SHALL BE PERFORMED BY AN INDEPENDENT INSPECTION AND TESTING AGENCY HIRED BY THE OWNER. CONTRACTOR TO COORDINATE WITH INSPECTION AND TESTING AGENCY FOR REQUIRED CONSTRUCTION INSPECTIONS AND MATERIAL TESTING.

8. HANDICAPPED SIGNS, SYMBOLS, ETC. SHALL BE IN ACCORDANCE WITH THE 2010 ISSUE OF THE OREGON STATE RULES AND REGULATIONS IN CHAPTER 11 OF THE OREGON STRUCTURAL SPECIALTY CODE.

EARTHWORK

1. ALL FILL OR BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557 FOR COHESIVE SOILS, OR 75% OF RELATIVE DENSITY IN ACCORDANCE WITH ASTM D4254 FOR COHESIONLESS SOILS.

2. REMOVE ALL DEBRIS FROM THE AREA TO BE BACKFILLED PRIOR TO BACKFILLING.

3. PLACE LOAD BEARING BACKFILL IN LAYERS NOT MORE THAN 8" THICK, LOOSE MEASUREMENT. SPREAD AND COMPACT EACH LAYER UNIFORMLY TO THE REQUIRED DENSITY.

4. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE IN KIND ANY UTILITIES AND OR IRRIGATION PIPING DISTURBED AND OR DAMAGED DURING THE WORK.

5. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE SOD AND LANDSCAPE FEATURES REMOVED OR DAMAGED DURING THE WORK.

SITE UTILITIES

1. A PRE–CONSTRUCTION CONFERENCE SHALL BE SCHEDULED WITH THE CONTRACTOR, ENGINEER, ARCHITECT, CITY PERSONNEL, AND ANY AFFECTED UTILITIES PRIOR TO START OF UTILITY WORK.

2. MAINTAIN A MINIMUM OF 5' HORIZONTAL SEPARATION OF WATER LINE FROM BURIED POWER LINES. MAINTAIN 1' HORIZONTAL SEPARATION OF GAS LINES FROM BURIED POWER LINES.

3. FOR BUILDING SERVICES MAINTAIN A MINIMUM OF 1' HORIZONTAL AND VERTICAL SEPARATION OF WATER SERVICE AND SANITARY SEWER SERVICE LINES. WATER SERVICE SHALL BE PLACED ABOVE SANITARY SEWER SERVICE.

4. MAINTAIN A MINIMUM OF 10' HORIZONTAL AND 1.5' VERTICAL SEPARATION OF WATER AND SANITARY SEWER MAIN LINES. WATER MAINS SHALL BE PLACED ABOVE SANITARY SEWER MAIN.

5. POLYVINYL CHLORIDE (PVC) WATER PIPE SHALL BE CLASS 235 DR18. PIPE SHALL BE PUSH ON JOINTS CONFORMING TO ASTM D1784 CLASS 12454. PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA C900. THE PIPE SHALL HAVE FLEXIBLE RUBBER GASKETED JOINTS.

6. DUCTILE IRON (DI) WATER PIPE SHALL BE CLASS 50, UNLESS NOTED OTHERWISE. PIPE SHALL BE CEMENT MORTAR LINED PER AWWA C104. PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA C151 WITH AN ASPHALTIC COATING.

7. FIRE LINES SHALL BE DUCTILE IRON, CLASS 50 OR PVC, CLASS 235 DR 18.

8. PIPE FITTINGS FOR PVC AND DI PIPE SHALL BE MORTAR LINED CAST OR DUCTILE IRON AND SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA C110 OR C153. FITTING CLASS AND JOINTS SHALL BE COMPATIBLE TO CONNECTING PIPE.

9. COPPER WATER SERVICE LINE SHALL BE SEAMLESS SOFT TYPE K CONFORMING TO ASTM B88.

10. POLYETHYLENE TUBING (PE) WATER SERVICE LINE SHALL BE RATED AT 200 PSI WITH COPPER TUBING OUTSIDE DIAMETER AND SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM D2737.

11. GATE VALVES 2" TO 8" SHALL CONFORM TO AWWA C515. VALVES SHALL BE DESIGNED FOR A MINIMUM OF 200 PSI, WITH IRON BODY, RESILIENT WEDGES, NRS 2" SQUARE WRENCH NUT WITH O–RING SEALS, AND SHALL OPEN WHEN THE STEM IS ROTATED COUNTERCLOCKWISE. APPROVED VALVE MANUFACTURES ARE CLOW, KENNEDY, MUELLER, M&H, WATEROUS OR UTILITY DEPARTMENT APPROVED EQUAL.

12. BUTTERFLY VALVES 10" AND LARGER SHALL BE OF THE RUBBER–SEATED TIGHT–CLOSING TYPE. VALVES SHALL CONFORM TO AWWA C504. THE VALVE SHALL BE FOR BURIED SERVICE WITH A SEALED GEAR OPERATOR HAVING A 2" SQUARE NUT AND SHALL OPEN WHEN THE STEM IS ROTATED COUNTERCLOCKWISE. APPROVED VALVES ARE MUELLER LINE–SEAL III, M&H STYLE 450, PRATT GROUND HOG OR UTILITY DEPARTMENT APPROVED EQUAL.

13. VALVE BOXES SHALL BE ADJUSTABLE CAST IRON SLIDING TYPE. VALVE BOXES SHALL BE IN ACCORDANCE WITH AWWA C600, SECTION 10.3. VALVE BOXES SHALL BE TYLER DOMESTIC #6855 OR UTILITY DEPARTMENT APPROVED EQUAL.

14. FIRE HYDRANTS SHALL CONFORM TO AWWA C502. HYDRANTS SHALL HAVE 5 1/4" MAIN OPERATING VALVE WITH TWO 2 1/2" NST NOZZLES AND ONE 4" NST PUMPER NOZZLE. HYDRANT OPERATING NUT SHALL BE A 1 1/2" PENTAGON. FIRE HYDRANTS SHALL BE MUELLER CENTURION, M&H RELIANT, OR CLOW 2500. HYDRANTS SHALL HAVE A MINIMUM BURY DEPTH OF 48" AND SHALL BE PAINTED SAFETY YELLOW.

15. CONCRETE FOR THRUST BLOCKS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.

16. SANITARY SEWER LINES SHALL BE PLACED WITH A CONSISTENT SLOPE OF 2 PERCENT OR MORE WITH AT LEAST 12" OF COVER, UNLESS NOTED OTHERWISE.

17. SANITARY SEWER PIPE SHALL BE PVC MANUFACTURED TO ASTM D3034–SDR 35 WITH RUBBER GASKETED JOINTS.

18. STORM DRAINAGE PIPE SHALL BE PVC OR CORRUGATED POLYETHYLENE (PE). PVC PIPE SHALL BE MANUFACTURED TO ASTM D3034–SDR 35 WITH RUBBER GASKETED JOINTS. PE PIPE SHALL BE MANUFACTURED TO ASTM F405 AND/OR F667 WITH SMOOTH INTERIOR.

19. PERFORATED STORM DRAINAGE PIPE SHALL BE CORRUGATED POLYETHYLENE (PE) TUBING AND FITTINGS WITH SMOOTH INTERIOR MANUFACTURED TO ASHTO M–252 AND M–294.

20. STORM DESIGN CRITERIA: 24 HOUR RAINSTORM WITH 10 YEAR RETURN PERIOD.

21. INFILTRATION RATE OF 0.5 IN/MIN USED IN DESIGN OF INFILTRATION SYSTEMS. VERIFY INFILTRATION RATE PRIOR TO PURCHASE OF STORM DRAIN SYSTEM BY ON SITE TESTING APPROVED BY THE LOCAL BUILDING OFFICIAL. NOTIFY ENGINEER OF RESULTS.

22. ALL BEDDING AND BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557. REMOVE ALL DEBRIS FROM THE AREA TO BE BACKFILLED PRIOR TO BACKFILLING. PLACE BACKFILL IN LAYERS NOT MORE THAN 12" THICK, LOOSE MEASUREMENT. SPREAD AND COMPACT EACH LAYER UNIFORMLY TO THE REQUIRED DENSITY.

23. COSTS FOR GENERAL CONSTRUCTION ITEMS WHICH ARE NOT SHOWN ON THESE DRAWINGS, BUT ARE NECESSARY AND NORMAL FOR COMPLETION OF THIS PROJECT, SHALL BE CONSIDERED INCIDENTAL AND INCLUDED IN THE CONTRACTORS BID FOR THIS PROJECT.

24. CONTRACTOR'S SURVEYOR TO SUBMIT SURVEYED AS BUILTS FOR THE WATER MAIN LINE, FIRE HYDRANTS AS WELL AS LEGAL DESCRIPTIONS REQUIRED TO RECORD NEW WATER EASEMENT BENEFITING THE CITY. CONTRACTOR'S SURVEYOR TO PREPARE LEGAL DESCRIPTION FOR MAIN POWER TO TRANSFORMER TO BE RECORDED BY UTILITY PRIOR TO COMMENCEMENT OF ANY UTILITY WORK.

ASPHALT PAVEMENT

1. PRIOR TO BEGINNING WORK, CONTACT THE OWNER/CITY OR COUNTY OFFICIAL TO COORDINATE TRAFFIC FLOW, WORK SCHEDULES AND UTILITY INTERFACES.

2. PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE 2008 EDITION OF THE ODOT STANDARD SPECIFICATIONS. CONTRACTOR SHALL USE SOLVENT–BORNE, READY–MIXED TRAFFIC PAINT MEETING AASHTO M248 STANDARDS. PREPARE THE SURFACES, APPLY THE PAINT, AND BE WITHIN THE TOLERANCES AS SPECIFIED IN THE ODOT STANDARD SPECIFICATIONS.

3. WHERE NEW ASPHALT JOINS EXISTING, THE EXISTING ASPHALT SHALL BE CUT TO A VERTICAL EDGE AND TACKED WITH ASPHALT EMULSION TYPE CSS–1. THE NEW ASPHALT SHALL BE FEATHERED BACK OVER THE EXISTING TO SEAL THE JOINT.

4. ASPHALT PAVING MATERIALS AND CONSTRUCTION PRACTICES SHALL BE IN ACCORDANCE WITH SECTION 00745 HOT MIXED ASPHALT CONCRETE, OF THE 2008 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION. HMAC SHALL BE LEVEL 2,1/2" DENSE PG 64–28.

5. ALL ASPHALT AND BASE THICKNESSES NOTED ARE COMPACTED THICKNESS.

6. ONE DAY PRIOR TO PLACEMENT OF BITUMINOUS MATERIAL ON THE BASE, THE SURFACE SHALL BE STERILIZED WITH A SOIL HERBICIDE.

FOUNDATIONS

1. FOR SLAB ON GRADE AND FOUNDATION SUBGRADE PREPARATION THE CONTRACTOR SHALL REFERENCE RECOMMENDATIONS OF THE GEO–TECHNICAL ENGINEERS SOILS REPORT.

2. SEE STRUCTURAL DRAWINGS FOR FOUNDATION EXCAVATION REQUIREMENTS. UNLESS NOTED OTHERWISE EXCAVATE FOOTING TRENCHES AND AREA BELOW SLABS TO BOTTOM OF GRAVEL BASE OR FOOTING. COMPACT THE TOP 1'–0 OF SUBGRADE TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D–1557.

CONCRETE

1. CONCRETE FOR WALKS, CURBS AND GUTTERS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS.

2. REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED. FABRICATE REINFORCEMENT PER ACI 318–02, CLASS "B" SPLICES UNLESS NOTED OTHERWISE.

3. WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185.

4. TOOL ALL EXPOSED EDGES WITH A CONCAVE TOOLING DEVICE.

5. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 301 AND ACI 305 OR 306 FOR HOT AND COLD WEATHER CONCRETING.

6. TOLERANCES FOR CONCRETE CONSTRUCTION SHALL BE BASED ON A 10'–0 STRAIGHT EDGE. GRADE SHALL NOT DEVIATE MORE THAN 1/8" AND ALIGNMENT SHALL NOT VARY MORE THAN 1/4".

SPECIAL INSPECTION

1. PER IBC 1705.6, PRIOR TO PLACEMENT OF PREPARED FILL, THE SPECIAL INSPECTOR SHALL DETERMINE THAT THE SITE HAS BEEN PREPARED IN ACCORDANCE WITH THE APPROVED SOILS REPORT.

2. PER IBC 1705.6, WHERE LOAD BEARING FILL EXCEEDS 12" IN DEPTH, THE SPECIAL INSPECTOR SHALL HAVE CONTINUOUS INSPECTION OF FILL PLACEMENT AND COMPACTION.

3. TESTING AGENCY WILL TEST COMPACTION OF SOILS IN PLACE ACCORDING TO ASTM D 1557, ASTM D 2167, ASTM D 2922, AND ASTM D 2937, AS APPLICABLE. TESTS WILL BE PERFORMED AT THE FOLLOWING LOCATIONS AND FREQUENCIES:

   A. FOUNDATION, PAVING, AND ADJACENT: AT SUBGRADE AND AT EACH COMPACTED FILL AND BACKFILL LAYER, AT LEAST 3 TESTS FOR EVERY 5,000 SQ. FT. OR LESS OF PAVED AREA OR BUILDING SLAB.

   B. TRENCH BACKFILL: AT EACH COMPACTED INITIAL AND FINAL BACKFILL LAYER, AT LEAST 3 TESTS FOR EACH 150 FEET OR LESS OF TRENCH LENGTH.

4. COMPACTION TESTING IS REQUIRED AT THE ABOVE SCHEDULE UNLESS GREATER TESTING IS RECOMMENDED BY STRUCTURAL DRAWINGS. LESS TESTING WOULD BE ACCEPTABLE IF APPROVED IN WRITING BY GEOTECHNICAL ENGINEER, SPECIAL INSPECTOR, FOUNDATION ENGINEER, AND KNUTZEN ENGINEERING.

EROSION CONTROL

1. PROVIDE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE 2008 EDITION OF THE ODOT STANDARD SPECIFICATIONS AND ROADWAY DRAWINGS TO PREVENT SOIL EROSION AND DISCHARGE OF SOIL–BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES AND WALKWAYS ACCORDING TO REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.

2. ESTABLISH CONSTRUCTION ACCESS.

   A. CONSTRUCTION VEHICLE ACCESS AND EXIT SHALL BE LIMITED TO ONLY NECESSARY LOCATIONS AND SHALL BE IN ACCORDANCE WITH ODOT STANDARD ROADWAY DRAWING RD1000. ACCESS POINTS SHALL BE STABILIZED WITH QUARRY SPALL OR CRUSHED ROCK TO MINIMIZE THE TRACKING OF SEDIMENT ONTO PUBLIC ROADS.

   B. WHEEL WASH OR TIRE BATHS SHOULD BE LOCATED ON–SITE, IF NEEDED TO PREVENT EXCESSIVE TRACKING OF SEDIMENT ON ROADS AND SHALL BE IN ACCORDANCE WITH ODOT STANDARD ROADWAY DRAWING RD1060.

   C. PUBLIC ROADS SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM ROADS BY SHOVELING OR PICKUP SWEEPING AND SHALL BE TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. STREET WASHING WILL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.

   D. STREET WASH WASTEWATER SHALL BE CONTROLLED BY PUMPING BACK ON–SITE, OR OTHERWISE BE PREVENTED FROM DISCHARGING INTO SYSTEMS TRIBUTARY TO STATE SURFACE WATERS.

   E. A SEPARATION GEOTEXTILE SHALL BE PLACED UNDER THE SPALLS TO PREVENT FINE SEDIMENT FROM PUMPING UP INTO THE ROCK PAD. THE GEOTEXTILE SHALL MEET THE FOLLOWING STANDARDS:

      I. GRAB TENSILE STRENGTH (ASTM D4632) 200 PSI MINIMUM.

      II. GRAB TENSILE ELONGATION (ASTM D4632) 30% MAXIMUM.

      III. MULLEN BURST STRENGTH (ASTM D3786–80A) 400 PSI MINIMUM.

      IV. AOS (ASTM D4751) 20 TO 45 (US STANDARD SIEVE SIZE).

   F. CONSIDER EARLY INSTALLATION OF THE FIRST LIFT OF ASPHALT IN AREAS THAT WILL BE PAVED; THIS CAN BE USED AS A STABILIZED ENTRANCE. ALSO CONSIDER THE INSTALLATION OF EXCESS CONCRETE AS A STABILIZED ENTRANCE. DURING LARGE CONCRETE POURS, EXCESS CONCRETE IS OFTEN AVAILABLE FOR THIS PURPOSE.

   G. WHENEVER POSSIBLE, THE ENTRANCE SHALL BE CONSTRUCTED ON A FIRM, COMPACTED SUBGRADE. THIS CAN SUBSTANTIALLY INCREASE THE EFFECTIVENESS OF THE PAD AND REDUCE THE NEED FOR MAINTENANCE.

   H. QUARRY SPALLS SHALL BE ADDED IF THE PAD IS NO LONGER IN ACCORDANCE WITH THE SPECIFICATIONS.

   I. IF THE ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, THEN ALTERNATIVE MEASURES TO KEEP THE STREETS FREE OF SEDIMENT SHALL BE USED. THIS MAY INCLUDE STREET SWEEPING, AN INCREASE IN THE DIMENSIONS OF THE ENTRANCE, OR THE INSTALLATION OF A WHEEL WASH.

   J. ANY QUARRY SPALLS THAT ARE LOOSENED FROM THE PAD, WHICH END UP ON THE ROADWAY, SHALL BE REMOVED IMMEDIATELY.

   K. UNTIL PROJECT COMPLETION AND SITE STABILIZATION, ALL CONSTRUCTION ACCESSES INTENDED AS PERMANENT ACCESS FOR MAINTENANCE SHALL BE PERMANENTLY STABILIZED.

3. CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY SILT FENCING IN ACCORDANCE WITH ODOT STANDARD ROADWAY DRAWING RD1040 TO PREVENT ANY WATER RUNOFF FROM ANY DISTURBED AREAS. AT A MINIMUM, SILT FENCE WILL BE ALONG THE DOWN SLOPE PROPERTY LINES. THE SILT FENCES SHALL BE CONSTRUCTED IN THE AREAS OF CLEARING, GRADING, OR DRAINAGE PRIOR TO STARTING THOSE ACTIVITIES. THE SILT FENCE SHALL PREVENT SOIL CARRIED BY RUNOFF WATER FROM GOING BENEATH, THROUGH, OR OVER THE TOP OF THE SILT FENCE, BUT SHALL ALLOW THE WATER TO PASS THROUGH THE FENCE.

4. INSPECT, REPAIR, AND MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED.

5. REMOVE EROSION AND SEDIMENTATION CONTROLS ONCE THEY ARE NO LONGER NEEDED AND RESTORE AND STABILIZE AREAS DISTURBED DURING REMOVAL.

STORMWATER NOTES

1. SEE THE GEOTECHNICAL REPORT FOR SITE GEOLOGY AND WATER TABLE.

2. STORM DESIGN CRITERIA:
   A. 24 HOUR STORM EVENT WITH 25 YEAR RETURN PERIOD FOR CONVEYANCE PIPE.
   B. 24 HOUR STORM EVENT WITH 10 YEAR RETURN PERIOD FOR INFILTRATION SYSTEM.
   C. INFILTRATION RATE OF __ IN/HOUR USED FOR DESIGN OF INFILTRATION SYSTEM.

STORMWATER SYSTEM OPERATION AND MAINTENANCE

1. CATCH BASINS

   A. REMOVE SEDIMENT, TRASH AND DEBRIS WHEN GRATE BECOMES CLOGGED MORE THAN 10%.

   B. REMOVE SEDIMENT, TRASH AND DEBRIS IN SUMP THAT EXCEEDS 60% OF SUMP DEPTH AS MEASURED FROM BOTTOM OF BASIN TO INVERT OF LOWEST PIPE, BUT IN NO CASE SHALL THE CLEARANCE FROM TOP OF DEBRIS TO INVERT OF LOWEST PIPE BE LESS THAN 6". NO VEGETATION SHALL BE ALLOWED TO GROW IN SUMP. AT A MINIMUM, REMOVE SEDIMENT, TRASH AND DEBRIS IN SUMP ANNUALLY.

   C. STRUCTURAL DAMAGE TO FRAME, GRATE, TOP SLAB, OR SUMP, SHALL BE REPAIRED OR REPLACED. STRUCTURAL DAMAGE INCLUDES CRACKS GREATER THAN 1/4" OR HOLES GREATER THAN 2" IN TOP SLAB, FRAME NOT SITTING FLUSH ON TOP SLAB (MORE THAN 3/4" SEPARATION) OR NOT SECURELY ATTACHED, CRACKS GREATER THAN 1/4" IN SUMP WALLS, SOIL ENTERING SUMP, CRACKS AT GROUT FILLET AROUND PIPES IN EXCESS OF 1/2", SETTLEMENT OF ENTIRE BASIN SUCH THAT IT CREATES A SAFETY, FUNCTION OR DESIGN PROBLEM.

D. REPLACE ANY MISSING GRATE OR REPAIR IF GRATE IS DIFFICULT TO REMOVE. REPLACE GRATE IF OPENINGS GREATER THAN 7/8" OR GRATE HAS MISSING OR BROKEN BARS.

2. INFILTRATION BASINS

   A. REMOVE TRASH AND DEBRIS AT LEAST 2 TIMES PER YEAR AND WHEN ACCUMULATION EXCEEDS 1 CUBIC FOOT PER 1000 SQUARE FOOT OF POND.

   B. REMOVE SEDIMENT ACCUMULATIONS IN POND IN EXCESS OF 2" AND AT LEAST ONCE PER YEAR.

   C. IF EROSION OR SETTLEMENT OF POND SIDE SLOPES OCCURS, REPAIR TO MATCH ORIGINAL DESIGN CONDITIONS. IF POND SIDE SLOPES CONTINUE TO SETTLE, CONSULT A REGISTERED ENGINEER SINCE THIS COULD INDICATE A SEVERE UNDERLYING PROBLEM.

   D. TREES ARE NOT ALLOWED IN POND AREAS INCLUDING POND SIDE SLOPES. IF POOR VEGETATION COVER OCCURS OVER GREATER THAN 10% OF POND AREA, REPLACE VEGETATION AND DETERMINE WHY. CUT VEGETATION SUCH THAT IT DOES NOT EXCEED 10"

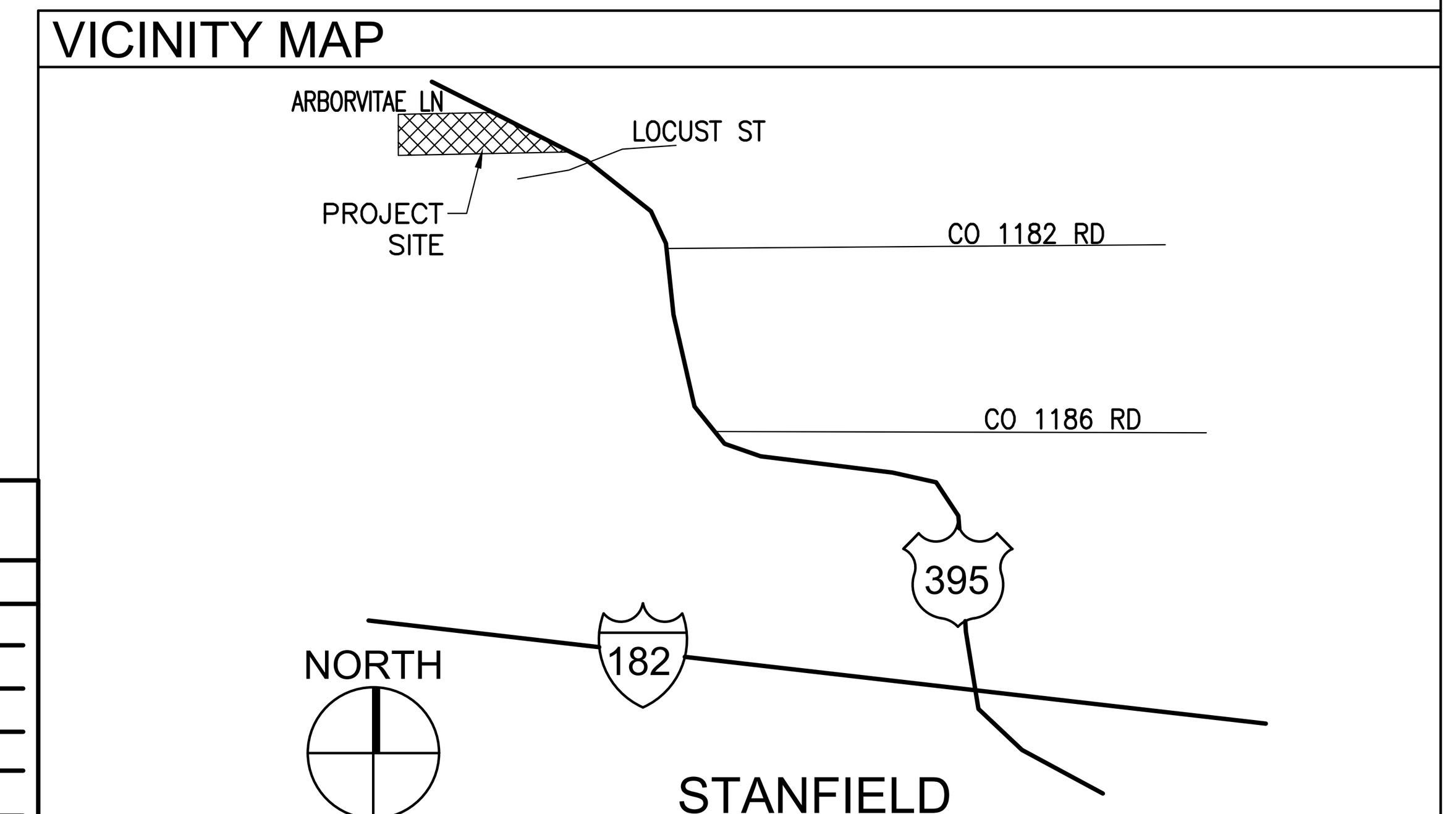
   E. IF RODENT HOLES OCCUR OR IF ANY EVIDENCE OF WATER PIPING OCCURS, REMOVE RODENTS AND COMPLETELY FILL VOIDS WITH BENTONITE CLAY, LEAN MIX CONCRETE, OR CONSOLIDATED DENSITY FILL.

   F. IF WATER REMAINS MORE THAN 72 HOURS AFTER CESSATION OF RAINFALL, A PERCOLATION TEST MUST DONE AND A REGISTERED ENGINEER CONSULTED.

STANFIELD SIGNATURE BLOCK

OWNER	APPROVED	DATE
CASCADE NATURAL GAS		
CENTURY LINK		
WINDWAVE COMMUNICATIONS		
UMATILLA ELECTRIC		
CITY OF STANFIELD		

VICINITY MAP



LEGEND AND ABBREVIATIONS

NEW	EXISTING	
(symbol)	(symbol)	ACCESSIBLE PARKING MARKER
AVR	(E)AVR	AIR VAC RELIEF
AD	(E)AD	AREA DRAIN
GUY	(E)GUY	GUY WIRE
BOA	(E)BOA	BLOW OFF ASSEMBLY
BO	(E)BO	BOLLARD
		CAP
CB	(E)CB	CATCH BASIN ROUND/SQUARE
CB		CATCH BASIN SOLID
CO	(E)CO	CLEAN OUT
DS	(E)DS	DOWN SPOUT
DW	(E)DW	DRY WELL
EM	(E)EM	ELECTRICAL METER
EV	EV	ELECTRICAL VAULT
GM	(E)GM	GAS METER
FDC	(E)FDC	FIRE DEPARTMENT CONNECTION
FH	(E)FH	FIRE HYDRANT
FP	(E)FP	FLAG POLE
IV	(E)IV	IRRIGATION VALVE
LP	(E)LP	LIGHT POLE
SD SS MH	SD SS (E)MH	MANHOLE
		PAVEMENT ARROWS
PIV	(E)PIV	POST INDICATOR VALVE
PP	(E)PP	POWER POLE
		REDUCER
		SHRUB
		SLOPE DIRECTION/PIPE SLOPE
SB	(E)SB	STORM BUBBLER
SIGN	(E)SIGN	STREET SIGN
SL	(E)SL	STREET LIGHT
TP	(E)TP	TELEPHONE PEDESTAL
		THRUST BLOCK
XFMR	(E)XFMR	TRANSFORMER
		TREE
T C P J	T C P J	UTILITY BOX
VAN		VAN PAVEMENT MARKING
WV	(E)WV	WATER VALVE
WM/IM	(E)WM/IM	WATER/IRRIGATION METER
WP	MON	WORK/MONUMENT POINT

NEW ASPHALT	EXISTING ASPHALT
NEW HEAVY ASPHALT	EXISTING CONCRETE
NEW HEAVY CONCRETE	EXISTING GRAVEL
NEW CONCRETE	EXISTING LAWN
NEW GRAVEL	EXISTING LANDSCAPE
NEW LAWN	EXISTING UNDEVELOPED
NEW LANDSCAPE	REMOVE LANDSCAPE
NEW PLAY ASPHALT	REMOVE ASPHALT
NEW NATIVE	REMOVE CONCRETE
NEW ADA	REMOVE GRAVEL
NEW RIP RAP	REMOVE LAWN
	REMOVE UNDEVELOPED

ABAND	ABANDONED		
BOT	BOTTOM		
BW	BOTTOM OF WALL ELEVATION	PDP	PERFORATED DRAIN PIPE
COM	COMMUNICATIONS	PE	POLYETHYLENE
(E)	EXISTING	PS	PRESSURE SEWER
FO	FIBER OPTICS LINE	ROW	RIGHT–OF–WAY
FF	FINISH FLOOR	R	RADIUS
FG	FINISH GRADE	RWL	RAIN WATER LEADER
FR	FIRE RISER	SS	SANITARY SEWER
FW	FIRE WATER	SLV	PIPE SLEEVE
GL	GUTTER LINE	XXX.XX	SPOT ELEVATION
IE	INVERT ELEVATION	SD	STORM DRAIN
IR	IRRIGATION	T	TELEPHONE
LS	LANDSCAPE	TV	TELEVISION
MON	MONUMENT	TA	TOP OF ASPHALT ELEVATION
NG	NATURAL GAS	TC	TOP OF CONCRETE ELEVATION
NIC	NOT IN CONTRACT	TG	TOP OF GRAVEL ELEVATION
NTS	NOT TO SCALE	TW	TOP OF WALL ELEVATION
OHP	OVERHEAD POWER	TYP	TYPICAL
P	POWER	W	WATER
DDCA	DOUBLE DETECTOR CHECK ASSEMBLY		
SDCA	SINGLE DETECTOR CHECK ASSEMBLY		
SCVA	SINGLE CHECK VALVE ASSEMBLY		
RPBA	REDUCED PRESSURE BACKFLOW ASSEMBLY		

SAWCUT LINE
NEW EASEMENT LINE
PROPERTY LINE
100 EXISTING CONTOUR
100 NEW CONTOUR
EXISTING FENCE
NEW FENCE
REMOVE FENCE
REMOVE SURFACE FEATURE
REMOVE UNDERGROUND UTILITY
ABANDONED UNDERGROUND UTILITY
EXISTING UNDERGROUND UTILITY
NEW UNDERGROUND UTILITY
RAIL ROAD TRACKS

DRAWING INDEX

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REGISTERED PROFESSIONAL ENGINEER
83108PE
OREGON
JULY 14, 2009
PAUL T. KNUTZEN
EXPIRATION DATE: 06/30/2021

STANFIELD ADDITION

1120 N Main St, Stanfield, OR

DATE
01-27-20

SHEET NAME
GENERAL NOTES AND LEGEND

SHEET
C0.01

SITE SURVEY

LOCATED IN THE NORTHEAST 1/4 OF SECTION 31 AND THE NORTHWEST 1/4 OF SECTION 32, TOWNSHIP 4 NORTH, RANGE 29, EAST OF THE WILLAMETTE MERIDIAN, UMATILLA COUNTY, OREGON.

CLIENT: ***BETH BURTON***
STANFIELD ELEMENTARY SCHOOL
1120 NORTH MAIN STREET
STANFIELD, OREGON 97875

SURVEYOR'S NARRATIVE

THIS SURVEY WAS UNDERTAKEN IN JULY OF 2019 AT THE REQUEST OF DION ZIMMERMAN WITH DESIGN WEST ARCHITECTS, P.A. ALONG WITH THE APPROVAL OF BETH BURTON WITH STANFIELD SCHOOL DISTRICT.

THE PURPOSE OF THE SURVEY IS TO PERFORM AN SITE SURVEY ALONG WITH CONTOUR LINES ON A PORTION OF THE STANFIELD ELEMENTARY SCHOOL AND A PORTION OF THE STANFIELD SECONDARY SCHOOL LOCATED IN THE NORTHEAST 1/4 OF SECTION 31 AND THE NORTHWEST 1/4 OF SECTION 32, TOWNSHIP 4 NORTH, RANGE 29 EAST OF THE WILLAMETTE MERIDIAN, UMATILLA COUNTY, OREGON.

THE CLIENT REQUESTED TO LOCATE THE FEATURES AND CREATE CONTOUR LINES AS SHOWN ON A PORTION OF THE ABOVE MENTIONED SCHOOLS FOR POTENTIAL FUTURE CONSTRUCTION ACTIVITIES. THE AREA SURVEYED IS HIGHLIGHTED IN RED ON THE VICINITY MAP AS SHOWN IN THE UPPER RIGHT CORNER OF THIS MAP.

I PERFORMED A PARTITION SURVEY ON THE STANFIELD ELEMENTARY SCHOOL IN 2019. PLEASE SEE PARTITION PLAT 2019-17 FOR MY METHODS AND PROCEDURES OF SUBDIVIDING THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 31 OF TOWNSHIP 4 NORTH, RANGE 29, EAST OF THE WILLAMETTE MERIDIAN.

THE PROPERTY BOUNDARIES AS SHOWN UPON THIS SURVEY HAVE BEEN RECOVERED OR COMPUTED AS FOLLOWS:

THE NORTH LINE OF STANFIELD ELEMENTARY SCHOOL WAS HELD FROM THE FOUND BRASS CAP MARKING THE EAST 1/16 CORNER FOR SECTION 31 AND THE FOUND BRASS CAP MARKING THE NORTHEAST CORNER FOR SECTION 31.

THE EAST LINE OF STANFIELD ELEMENTARY SCHOOL WAS HELD FROM THE FOUND BRASS CAP MARKING THE NORTHEAST CORNER FOR SECTION 31 AND THE FOUND 5/8 INCH IRON ROD WITH A YELLOW PLASTIC CAP STAMPED "PLS LS 48509" SET BY THIS FIRM FOR PARTITION PLAT 2019-17.

THE NORTH LINE OF STANFIELD SECONDARY SCHOOL WAS HELD FROM THE FOUND BRASS CAP MARKING THE NORTHWEST CORNER FOR SECTION 32 AND THE FOUND BRASS CAP MARKING THE NORTH 1/4 CORNER FOR SECTION 32.

THE EAST LINE OF THE STANFIELD SECONDARY SCHOOL WAS COMPUTED FROM THE FOUND OREGON DEPARTMENT OF TRANSPORTATION MONUMENTS MARKING THE CENTER-LINE LOCATION OF HIGHWAY #395 AND OFFSETTING THIS LINE IN AN SOUTHWESTERLY DIRECTION.

THE SOUTH LINE OF THE STANFIELD SECONDARY SCHOOL WAS COMPUTED FROM THE FOUND 1/2 INCH IRON RODS ALONG THE NORTH LINE OF STANFIELD HEIGHTS.

THE BASIS OF BEARING FOR THIS PARTITION PLAT IS OREGON NORTH ZONE (3601) STATE PLANE COORDINATES IN INTERNATIONAL FEET. THE BEARINGS AND DISTANCES AS SHOWN ARE GRID.

THE FEATURES AND UNDER GROUND LOCATES AS SHOWN ON THE FACE OF THIS MAP HAVE BEEN LOCATED OVER A 5 DAY PERIOD FROM 09 JULY 2019 TO 12 JULY 2019 AND ON 19 JULY 2019 FROM SET CONTROL POINTS, SAID FEATURES AND LOCATES HAVE BEEN LOCATED ON A FIXED SOLUTION ONLY.

ONCE ALL THE FEATURES HAVE BEEN LOCATED I DELINEATED OUT 5 SEPARATE AREAS TO CREATE A SURFACE MODEL FOR THE GENERATION OF CONTOUR LINES.

IT SHOULD BE NOTED THAT THERE ARE NUMEROUS UNDER GROUND LOCATES IDENTIFIED BY THE LOCATING COMPANIES THAT FALL WITHIN THE BOUNDS OF THE PROPERTY SURVEYED. PLEASE REFER TO THE UG UTILITY STATEMENT.

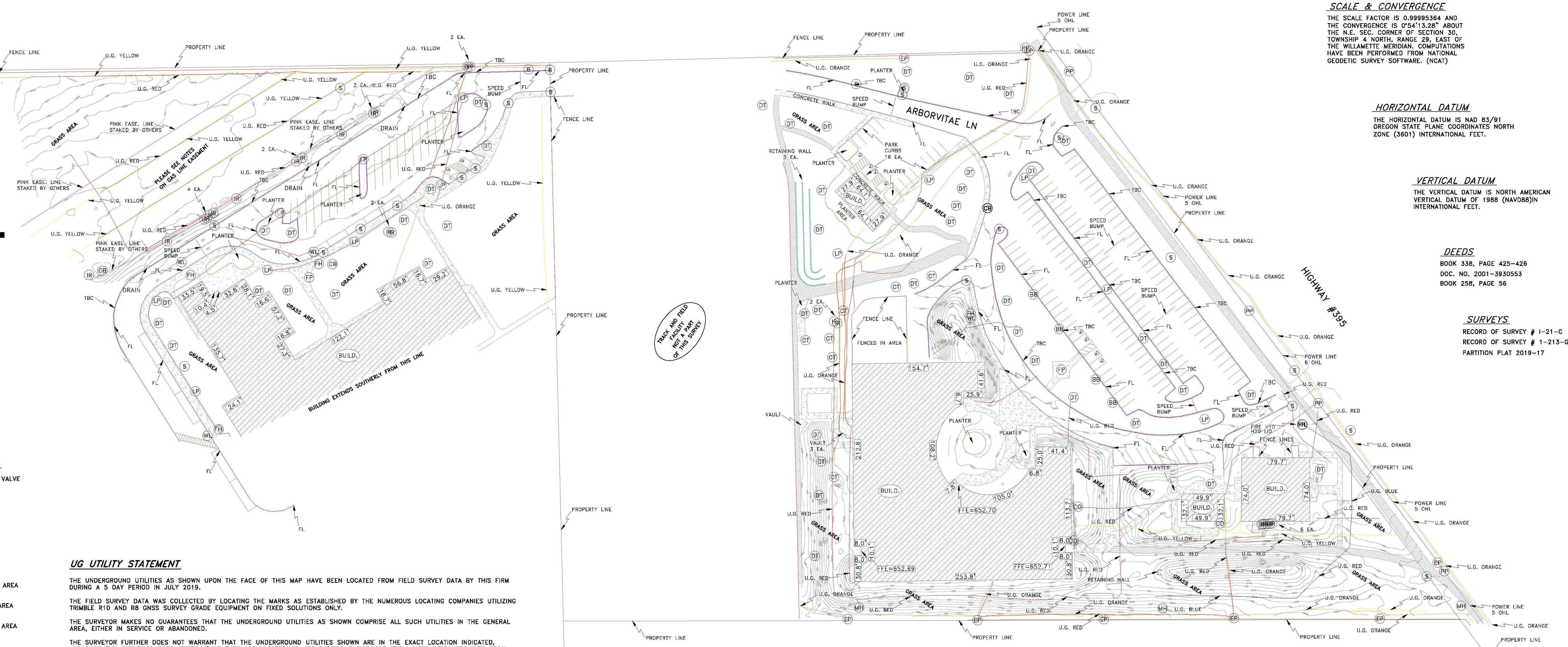
THE DRAFTING AND CALCULATIONS WAS ACCOMPLISHED BY UTILIZING A COMBINATION OF TRIMBLE BUSINESS CENTER AND AUTOCAD LT.

THE SURVEY WAS ACCOMPLISHED UTILIZING A COMBINATION OF TRIMBLE R10 & R8 GNSS SYSTEMS AND A TRIMBLE S6 ROBOTIC TOTAL STATION. THE NORTH 1/4 CORNER FOR SECTION 31 WAS OCCUPIED AND 2 CONTROL POINTS WERE THEN ESTABLISHED FOR THE GPS BASE UNITS.

GENERAL NOTES

1. THE PROPERTY ADDRESS IS: 1120 NORTH MAIN STREET
   STANFIELD, OREGON 97875
2. THE PROPERTY CONTAINS 180 AUTOMOBILE PARKING SPACES.
3. THE PROPERTY CONTAINS 10 HANDICAP PARKING SPACES.
4. THE DIMENSIONS ON THE BUILDINGS ARE TO THE CORNERS OF THE OUTSIDE WALL.
5. THE UNDERGROUND LOCATES MAY OR MAY NOT BE IN THE EXACT LOCATION AS SHOWN.
6. THE SURVEYOR ASSUME NO LIABILITY IN THE UTILIZATION OF ANY DATA AS SHOWN ON THIS SURVEY OR THE DIGITAL FILES CONTAINED WITHIN.

VICINITY MAP



SCALE & CONVERGENCE

THE SCALE FACTOR IS 0.99995364 AND THE CONVERGENCE IS 0°54'13.28" ABOUT THE N.E. SEC. CORNER OF SECTION 30, TOWNSHIP 4 NORTH, RANGE 29, EAST OF THE WILLAMETTE MERIDIAN. COMPUTATIONS HAVE BEEN PERFORMED FROM NATIONAL GEODETIC SURVEY SOFTWARE. (NCAT)

HORIZONTAL DATUM

THE HORIZONTAL DATUM IS NAD 83/91 OREGON STATE PLANE COORDINATES NORTH ZONE (3601) INTERNATIONAL FEET.

VERTICAL DATUM

THE VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)IN INTERNATIONAL FEET.

DEEDS

BOOK 338, PAGE 425-426
DOC. NO. 2001-3930553
BOOK 258, PAGE 56

SURVEYS

RECORD OF SURVEY # I-21-C
RECORD OF SURVEY # 1-213-G
PARTITION PLAT 2019-17

LEGEND

FL = FLOW LINE
TBC = TOP BACK OF CURB
♿ = HANDICAP PARKING
(LP) LIGHT POLE
(DT) DECIDUOUS TREE
(CB) CATCH BASIN
(CT) CONIFEROUS TREE
(S) STREET SIGN
(PP) POWER POLE
(B) BOLLARD BARRIER
(MH) MANHOLE LID
(FH) FIRE HYDRANT
(EP) ELECTRICAL PEDESTAL
(IR) IRRIGATION CONTROL VALVE
(BB) BASKETBALL HOOP
(FP) FLAG POLE
(WL) WATER LID
(CO) CLEAN OUT

HATCHED AREAS

CONCRETE SIDEWALK AREA
ASPHALT SIDEWALK AREA
BUILDING FOOTPRINT AREA

UG UTILITY STATEMENT

THE UNDERGROUND UTILITIES AS SHOWN UPON THE FACE OF THIS MAP HAVE BEEN LOCATED FROM FIELD SURVEY DATA BY THIS FIRM DURING A 5 DAY PERIOD IN JULY 2019.

THE FIELD SURVEY DATA WAS COLLECTED BY LOCATING THE MARKS AS ESTABLISHED BY THE NUMEROUS LOCATING COMPANIES UTILIZING TRIMBLE R10 AND R8 GNSS SURVEY GRADE EQUIPMENT ON FIXED SOLUTIONS ONLY.

THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES AS SHOWN COMPRISE ALL SUCH UTILITIES IN THE GENERAL AREA, EITHER IN SERVICE OR ABANDONED.

THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION PROVIDED FROM LOCATING COMPANIES FROM PAINTED LINES AND OR PIN FLAGS MARKING SAID UNDERGROUND UTILITIES.

THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. SURVEYOR ASSUMES NO LIABILITY.

NOTES ON GAS LINE EASEMENT

THERE ARE 2 EXISTING GAS LINES THAT HAVE BEEN MARKED IN THE NEW PROPOSED PARKING AREA FOR THE STANFIELD ELEMENTARY SCHOOL BY THE LOCATING COMPANY. THE LOCATING COMPANY VERBALLY INFORMED ME 24 JULY 2019 THAT THE INITIAL GAS LINE FROM ± 1960 FALLS 15 FEET SOUTHERLY FROM THE EXISTING NORTH GAS LINE.

IN BOOK 258 PAGE 56 IT STATES IN PART THE FOLLOWING "That portion of the lands of first party above described lying between lines parallel to and situate THIRTY (30) feet to the right and SEVENTY (70) feet to the left (going in a general southerly direction through the State of OREGON) measured at right angles from the center line (or tangent thereof if a curve) of the initial pipe as actually laid by the second party across the said lands of the first party, or adjacent thereto if the initial pipe is not actually laid on the said lands of the first party, such parallel line or lines being extended to the boundary lines of the said lands so as to enclose the right-of-way and easement.

THE GAS LINES AND EASEMENT LINES AS SHOWN ARE FROM THE PAINTED LINES AND PIN FLAGS PROVIDED BY THE LOCATING COMPANY.

IT IS MY RECOMMENDATION THAT IN ORDER TO ESTABLISH BOTH THE SOUTHERLY AND NORTHERLY EASEMENT LINES OF THE INITIAL GAS LINE AS PER BOOK 258 PAGE 56 ONE MUST OFFSET THE EXISTING NORTHERLY GAS LINE 15 FEET IN A SOUTHERLY DIRECTION FOR THE COMPUTED LOCATION OF SAID INITIAL GAS LINE. FROM THIS COMPUTED LOCATION OF THE INITIAL GAS LINE THE NORTHERLY EASEMENT LINE SHOULD BE AT A PERPENDICULAR OFFSET IN A NORTHERLY DIRECTION OF 30 FEET AND AT A PERPENDICULAR OFFSET IN A SOUTHERLY DIRECTION OF 70 FEET, THIS IN TURN WILL MAKE THE WIDTH OF THE GAS LINE EASEMENT AT 100 FEET AS CALLED FOR IN BOOK 258 PAGE 56.

REGISTERED PROFESSIONAL LAND SURVEYOR
OREGON
JULY 13, 1999
BRIT L. PRIMM
48509
EXPIRATION DATE: 12/31/20

DATE: ______________

SURVEYOR'S CERTIFICATION

I, BRIT L. PRIMM, A PROFESSIONAL LAND SURVEYOR IN THE STATE OF OREGON HEREBY CERTIFY THAT THIS MAP CORRECTLY REPRESENTS A SURVEY CONDUCTED UNDER MY DIRECT SUPERVISION IN JULY OF 2019. I FURTHER HEREBY CERTIFY THAT I HAVE PERSONALLY LOCATED THE FEATURES AS SHOWN UPON THE FACE OF THIS MAP, NO PROPERTY LINES HAVE BEEN ESTABLISHED, PROPERTY LINES HAVE BEEN RECOVERED ONLY.

SITE SURVEY PROVIDED FOR INFORMATION ONLY

PRIMM LAND SURVEYING, INC.
P.O. BOX 1322, 1340 N.E. 4TH
HERMISTON, OR 97838
BUI (541) 564-7887
FAX (541) 567-8020
brit@primmlandsurveying.com
keith@primmlandsurveying.com

CLIENT: **BETH BURTON, STANFIELD ELEMENTARY SCHOOL**

PORTION OF THE NE 1/4 OF SEC 31, TWP. 4 N. RNG. 29 E. WM
PORTION OF THE NW 1/4 OF SEC 32, TWP. 4 N. RNG. 29 E. WM

PROJECT:
LOCATED IN THE NORTHEAST 1/4 OF SECTION 31 AND THE NORTHWEST 1/4 OF SECTION 32, TOWNSHIP 4 NORTH, RANGE 29, EAST OF THE WILLAMETTE MERIDIAN, UMATILLA COUNTY, OREGON.

JOB #:	1907001
DATE:	24 JUL 19
FB/PG:	040/41
SHEET:	1 OF 1
DRAWN:	BLP
APPROVED:	BLP

A1 SURVEY
SCALE: NOT TO SCALE

DESIGN WEST
ARCHITECTS, P.A.
• MERIDIAN, IDAHO • PULLMAN, WASHINGTON •
• KENNEWICK, WASHINGTON • ONTARIO OREGON •
www.designwestpa.com

DRAWN BY
SJT

CHECKED BY
PTK/ASW

JOB NUMBER
19153

REVISIONS

KNUTZEN ENGINEERING
5401 RIDGELINE DR.
SUITE 160
KENNEWICK, WA 99338
1-509-222-0959
www.knutzenengineering.com

CADFILE: 19153C001

STANFIELD ADDITION

1120 N Main St, Stanfield, OR

DATE
01-27-20

SHEET NAME
SURVEY

SHEET
C0.03

LEGEND

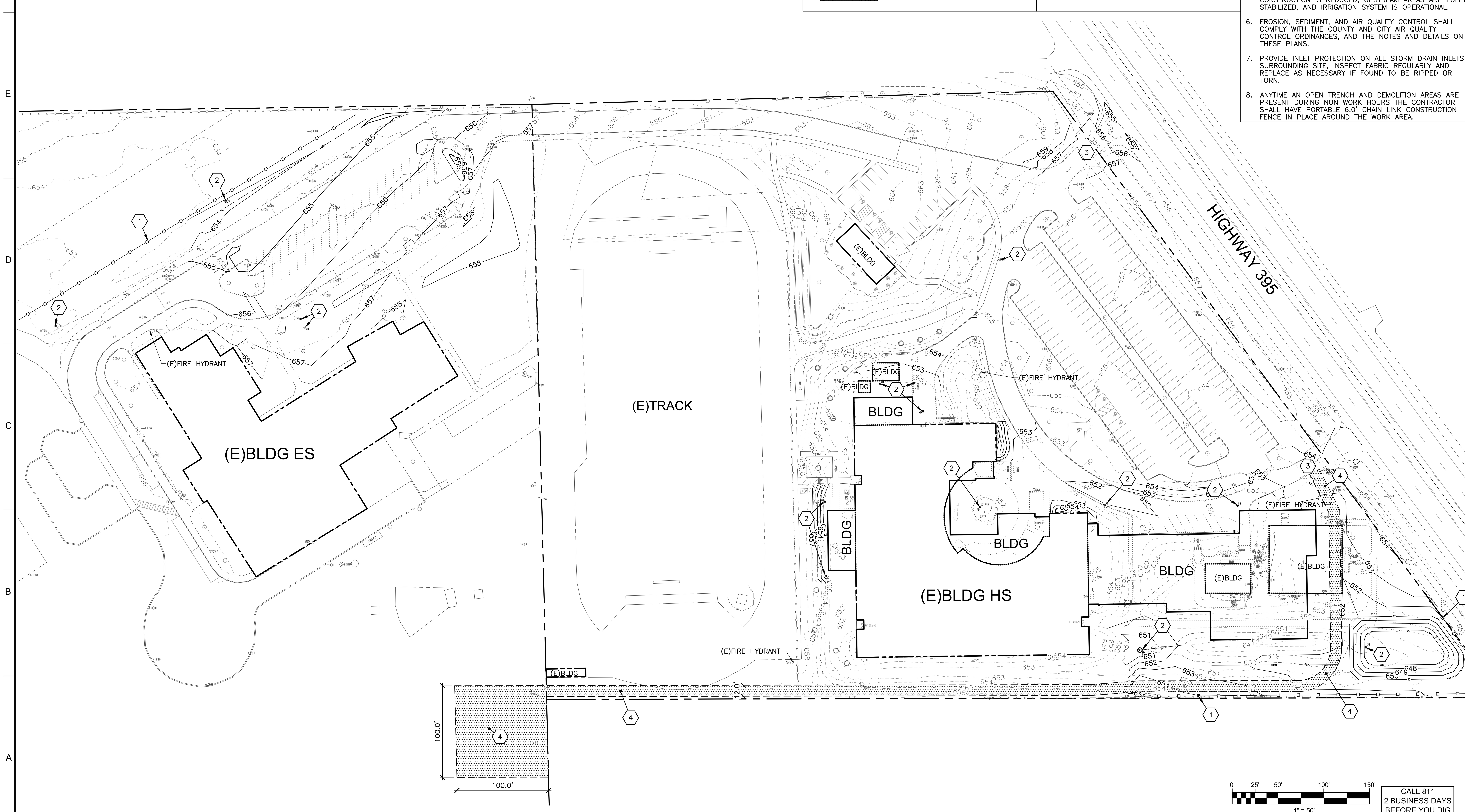
(dashed arrow)	EXISTING STORMWATER FLOW PATH
(solid arrow)	NEW STORMWATER FLOW PATH
(dotted hatch)	CONTRACTOR ACCESS ROAD, LAYDOWN AND STORAGE AREA
(dash-dot line)	LIMITS OF CONSTRUCTION LINE
(line with circles)	SILT FENCE
(arrow)	CONSTRUCTION VEHICLE ACCESS POINTS TO PUBLIC ROADS
(crosshatch)	CONSTRUCTION ACCESS EROSION CONTROL

KEY NOTES

1. SILT FENCING SHALL BE INSTALLED AT LOCATIONS SHOWN AND AS NEEDED AT ANY LOCATIONS OF SITE WHERE SURFACE RUNOFF MAY ERODE SOILS AWAY FROM SITE, CONTRACTOR SHALL INSTALL ADDITIONAL SILT FENCING AS NECESSARY, REFER TO DETAIL E1/C5.01
2. EXISTING AND PROPOSED DRAINAGE STRUCTURE TO BE PROTECTED WITH FILTER FABRIC, SEE DETAIL E2/C5.01
3. CONSTRUCTION ACCESS, SEE GENERAL NOTES ON SHEET C0.01
4. CONSTRUCTION ACCESS ROAD TO LAYDOWN AREA

NOTES

1. SEE SHEET C0.01 FOR GENERAL NOTES AND LEGEND.
2. MOST SUITABLE LOCATION FOR CONSTRUCTION ENTRANCE TO BE DETERMINED BY GENERAL CONTRACTOR. CONSTRUCTION ENTRANCE SHOWN ON DRAWING IS A SUGGESTED LOCATION ONLY.
3. FINAL CONSTRUCTION LAY–DOWN AREA AND STOCKPILE AREA LOCATION AND SIZE TO BE DETERMINED BY THE GENERAL CONTRACTOR WITH APPROVAL OF OWNER.
4. CUT & FILL SLOPES SHOULD BE CONSTRUCTED WITH INCLINATION NO STEEPER THEN 2H:1V AND MUST BE PROTECTED FROM WIND AND EROSION.
5. PLACE TOPSOIL, COMPACT, AND PROVIDE TEMPORARY SOIL STABILIZATION. PERMANENT LANDSCAPING CAN BE INSTALLED ONCE LIKELIHOOD OF SEDIMENTATION DURING CONSTRUCTION IS REDUCED, UPSTREAM AREAS ARE FULLY STABILIZED, AND IRRIGATION SYSTEM IS OPERATIONAL.
6. EROSION, SEDIMENT, AND AIR QUALITY CONTROL SHALL COMPLY WITH THE COUNTY AND CITY AIR QUALITY CONTROL ORDINANCES, AND THE NOTES AND DETAILS ON THESE PLANS.
7. PROVIDE INLET PROTECTION ON ALL STORM DRAIN INLETS SURROUNDING SITE, INSPECT FABRIC REGULARLY AND REPLACE AS NECESSARY IF FOUND TO BE RIPPED OR TORN.
8. ANYTIME AN OPEN TRENCH AND DEMOLITION AREAS ARE PRESENT DURING NON WORK HOURS THE CONTRACTOR SHALL HAVE PORTABLE 6.0' CHAIN LINK CONSTRUCTION FENCE IN PLACE AROUND THE WORK AREA.



CALL 811
2 BUSINESS DAYS
BEFORE YOU DIG

A1 EROSION CONTROL PLAN
SCALE: 1" = 50'-0"

DESIGN WEST ARCHITECTS, P.A.
MERIDIAN, IDAHO • PULLMAN, WASHINGTON • KENNEWICK, WASHINGTON • ONTARIO OREGON
www.designwestpa.com

DRAWN BY: SJT
CHECKED BY: PTK/ASW
JOB NUMBER: 19153
REVISIONS

KNUTZEN ENGINEERING
CADFILE: 19153C001

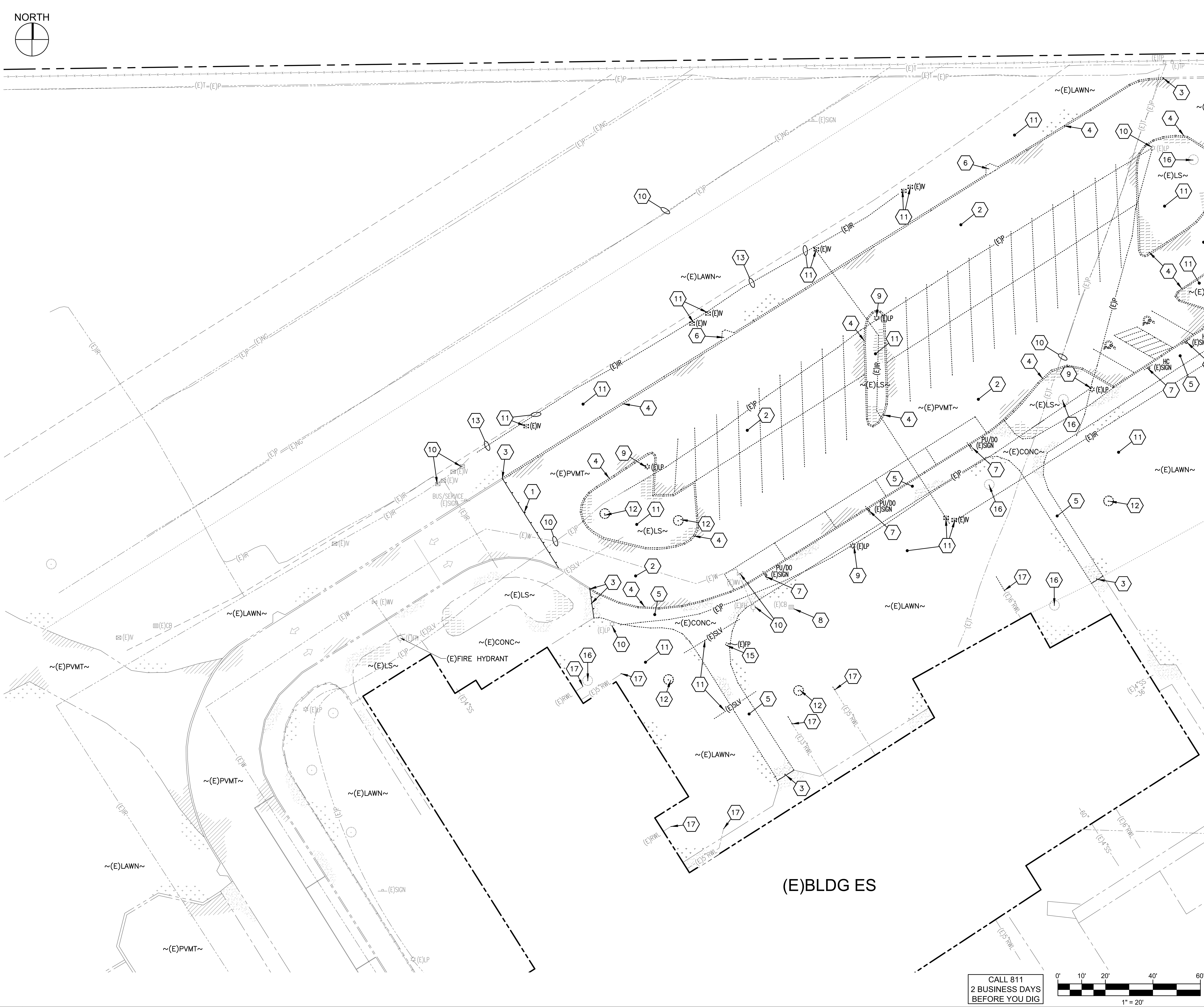
REGISTERED PROFESSIONAL ENGINEER 83108PE OREGON PAUL T. KNUTZEN
EXPIRATION DATE: 06/30/2021

STANFIELD ADDITION
1120 N Main St, Stanfield, OR

DATE: 01-27-20

SHEET NAME: EROSION CONTROL PLAN

SHEET: C0.05



CALL 811
2 BUSINESS DAYS
BEFORE YOU DIG

0' 10' 20' 40' 60'
1" = 20'

A1 PARTIAL DEMOLITION PLAN
SCALE: 1" = 20'-0"

KEY NOTES

1. SAWCUT ASPHALT, PROVIDE NEAT CUT EDGE
2. REMOVE ASPHALT AND DISPOSE OF PROPERLY, REMOVE GRAVEL BASE AND SALVAGE FOR REUSE
3. SAWCUT, CONCRETE SIDEWALK, AND CONCRETE CURBING AS NECESSARY FOR NEW CONSTRUCTION AT NEAREST EXPANSION/CONTROL JOINT AS INDICATED, PROVIDE NEAT CUT EDGE
4. REMOVE CONCRETE CURBING AND DISPOSE OF PROPERLY
5. REMOVE CONCRETE AND DISPOSE OF PROPERLY, REMOVE GRAVEL BASE AND SALVAGE FOR REUSE
6. REMOVE CONCRETE INLET
7. REMOVE SIGN, POLE AND BASE THEN BACKFILL
8. REMOVE CATCH BASIN LID AND REPLACE WITH SOLID LID AT NEW GRADE
9. ELECTRICAL EQUIPMENT TO BE REMOVED BY ELECTRICAL. REMOVE ALL REMAINING CONCRETE PADS AND FENCING AS NECESSARY FOR NEW CONSTRUCTIONS. SEE ELECTRICAL SITE PLAN FOR INFORMATION
10. PROTECT UTILITY IN PLACE
11. REMOVE LAWN AND/OR LANDSCAPING, IRRIGATION LINES, CONTROLS AND VALVES FOR NEW CONSTRUCTION
12. REMOVE TREE AND ROOTS, THEN BACKFILL WITH STRUCTURAL FILL
13. REMOVE PORTION OF IRRIGATION MAIN FOR RELOCATION
14. REMOVE SPEED BUMP
15. REMOVE FLAG POLE FOR RELOCATION
16. PROTECT TREE DURING CONSTRUCTION, REFER TO LANDSCAPE
17. REMOVE PORTION OF RAINWATER LEADERS TO CONNECT TO NEW STORM SYSTEM

NOTES

1. SEE SHEET C0.01 FOR GENERAL NOTES AND LEGEND.
2. NOT ALL UNDERGROUND UTILITIES ON THESE DRAWINGS MAY BE SHOWN. FIELD LOCATE AND VERIFY ALL UNDERGROUND UTILITIES. COORDINATE ALL RELOCATION WORK WITH THE APPROPRIATE UTILITY COMPANY AND/OR OWNER PRIOR TO ANY EXCAVATION WORK.
3. FIELD VERIFY ALL MEASUREMENTS AND INVERTS PRIOR TO START OF WORK.
4. ACP AND CONCRETE CUT LINES ARE BASED ON NEW SURFACE FEATURES TO BE INSTALLED. CUT LINES DO NOT ACCOUNT FOR GRADING, TRENCHING, GRADE TRANSITIONS, OR OVERLAY WORK. ADJUST ACTUAL CUT AS NECESSARY FOR RELATED NEW WORK.
5. REMOVE ALL EXISTING IRRIGATION SYSTEM COMPONENTS WITHIN NEW CONSTRUCTION AREAS THAT WILL INTERFERE WITH NEW WORK. CUT, CAP, AND SEAL WATERTIGHT EXISTING PIPING TO REMAIN.
6. NOT ALL ELECTRICAL WORK MAY BE SHOWN ON THE CIVIL SITE DRAWINGS, AND IS SHOWN FOR REFERENCE PURPOSES ONLY. REFER TO ELECTRICAL DRAWINGS IN THIS CONSTRUCTION PACKAGE FOR ELECTRICAL DEMOLITION, RELOCATION, AND NEW INSTALLATION. ELECTRICAL SITE DRAWINGS SHALL TAKE PRECEDENCE PERTAINING TO ANY ELECTRICAL WORK WHICH MAY BE SHOWN ON THE CIVIL SITE DRAWINGS.
7. ALL UTILITY MAINS MUST REMAIN OPERATIONAL DURING CONSTRUCTION. COORDINATE WITH THE CITY TO SCHEDULE SERVICE OUTAGES AS NEEDED.
8. CONTRACTOR TO REMOVE ANY ABANDONED UTILITY LINES AS NEEDED FOR NEW CONSTRUCTION AND PROPOSED GRADES.

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• KENNEWICK, WASHINGTON • ONTARIO OREGON •
www.designwestpa.com

DRAWN BY
SJT

CHECKED BY
PTK/ASW

JOB NUMBER
19153

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CADFILE: 19153C001

REGISTERED PROFESSIONAL ENGINEER
83108PE
OREGON
JULY 14, 2009
PAUL T. KNUTZEN
EXPIRATION DATE: 06/30/2021

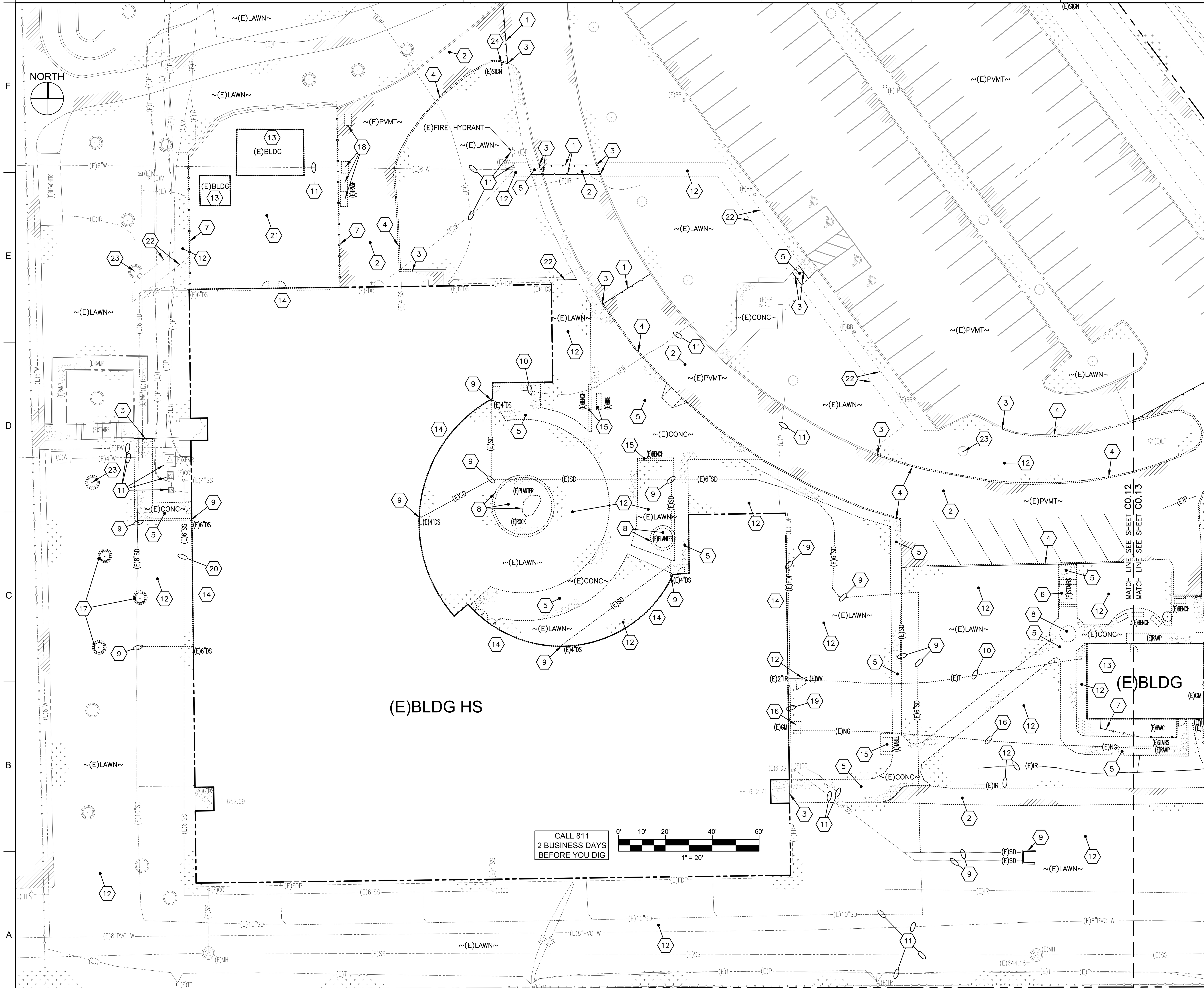
STANFIELD ADDITION

1120 N Main St, Stanfield, OR

DATE
01-27-20

SHEET NAME
PARTIAL DEMOLITION PLAN

SHEET
C0.11



A1 PARTIAL DEMOLITION PLAN
SCALE: 1" = 20'-0"

KEY NOTES

1. SAWCUT ASPHALT, PROVIDE NEAT CUT EDGE
2. REMOVE ASPHALT AND DISPOSE OF PROPERLY, REMOVE GRAVEL BASE AND SALVAGE FOR REUSE
3. SAWCUT, CONCRETE SIDEWALK, AND CONCRETE CURBING AS NECESSARY FOR NEW CONSTRUCTION AT NEAREST EXPANSION/CONTROL JOINT AS INDICATED, PROVIDE NEAT CUT EDGE
4. REMOVE CONCRETE CURBING AND DISPOSE OF PROPERLY
5. REMOVE CONCRETE AND DISPOSE OF PROPERLY, REMOVE GRAVEL BASE AND SALVAGE FOR REUSE
6. REMOVE RAMP AND/OR STAIRS AND HANDRAILS
7. REMOVE FENCE, POSTS, AND GATES AS SHOWN, THEN BACKFILL
8. REMOVE PLANTER AND LANDSCAPE FEATURES THEN BACKFILL WITH STRUCTURAL FILL
9. EXCAVATE AND REMOVE STORM DRAINAGE CATCH BASINS, HEADWALLS, CLEANOUTS, DOWNSPOUTS, AND/OR ASSOCIATED STORM DRAINAGE PIPING
10. ELECTRICAL EQUIPMENT TO BE REMOVED BY ELECTRICAL. REMOVE ALL REMAINING CONCRETE PADS AND FENCING AS NECESSARY FOR NEW CONSTRUCTIONS. SEE ELECTRICAL SITE PLAN FOR INFORMATION
11. PROTECT UTILITY IN PLACE
12. REMOVE LAWN AND/OR LANDSCAPING, IRRIGATION LINES, CONTROLS AND VALVES FOR NEW CONSTRUCTION
13. REMOVE BUILDING AND FOUNDATION IN IT'S ENTIRETY INCLUDING ANY UTILITIES WITH IN 5.0' OF BUILDING FOOT PRINT
14. REMOVE PORTION OF BUILDING AND FOUNDATION INCLUDING ANY UTILITIES UNDER NEW BUILDING FOOTPRINT, REFER TO ARCHITECTURAL FOR LIMITS OF REMOVAL
15. REMOVE BIKE RACK, BENCH AND/OR TABLE, THEN RETURN TO OWNER
16. REMOVE GAS METER AND PIPE AS SHOWN, CAP END FOR FUTURE CONNECTION, COORDINATE WITH GAS COMPANY FOR WORK AND IF METER IS TO BE REUSED IN NEW LOCATION
17. REMOVE LANDSCAPE CURB, TREE AND ROOTS, THEN BACKFILL WITH STRUCTURAL FILL
18. REMOVE TRASH BINS, FOR RELOCATION
19. REMOVE PORTION OF FOUNDATION DRAIN PIPE AT NEW BUILDING ADDITION, CONNECT FOUNDATION DRAIN PIPE TO REMAIN INTO NEW SYSTEM
20. SEE MECHANICAL FOR MODIFICATIONS TO SEWER UNDER NEW BUILDING FLOOR PRINT
21. REMOVE GRAVEL, ASPHALT, CONCRETE EQUIPMENT AND DERBIES WITHIN YARD AREA, COORDINATE WITH OWNER ON ANY EQUIPMENT REMOVAL
22. APPROXIMATE LIMITS OF LAWN REMOVAL
23. PROTECT TREE DURING CONSTRUCTION, REFER TO LANDSCAPE
24. REMOVE SIGN AND POST

NOTES

1. SEE SHEET C0.01 FOR GENERAL NOTES AND LEGEND.
2. NOT ALL UNDERGROUND UTILITIES ON THESE DRAWINGS MAY BE SHOWN. FIELD LOCATE AND VERIFY ALL UNDERGROUND UTILITIES. COORDINATE ALL RELOCATION WORK WITH THE APPROPRIATE UTILITY COMPANY AND/OR OWNER PRIOR TO ANY EXCAVATION WORK.
3. FIELD VERIFY ALL MEASUREMENTS AND INVERTS PRIOR TO START OF WORK.
4. ACP AND CONCRETE CUT LINES ARE BASED ON NEW SURFACE FEATURES TO BE INSTALLED. CUT LINES DO NOT ACCOUNT FOR GRADING, TRENCHING, GRADE TRANSITIONS, OR OVERLAY WORK. ADJUST ACTUAL CUT AS NECESSARY FOR RELATED NEW WORK.
5. REMOVE ALL EXISTING IRRIGATION SYSTEM COMPONENTS WITHIN NEW CONSTRUCTION AREAS THAT WILL INTERFERE WITH NEW WORK. CUT, CAP, AND SEAL WATERTIGHT EXISTING PIPING TO REMAIN.
6. NOT ALL ELECTRICAL WORK MAY BE SHOWN ON THE CIVIL SITE DRAWINGS, AND IS SHOWN FOR REFERENCE PURPOSES ONLY. REFER TO ELECTRICAL DRAWINGS IN THIS CONSTRUCTION PACKAGE FOR ELECTRICAL DEMOLITION, RELOCATION, AND NEW INSTALLATION. ELECTRICAL SITE DRAWINGS SHALL TAKE PRECEDENCE PERTAINING TO ANY ELECTRICAL WORK WHICH MAY BE SHOWN ON THE CIVIL SITE DRAWINGS.
7. ALL UTILITY MAINS MUST REMAIN OPERATIONAL DURING CONSTRUCTION. COORDINATE WITH THE CITY TO SCHEDULE SERVICE OUTAGES AS NEEDED.
8. CONTRACTOR TO REMOVE ANY ABANDONED UTILITY LINES AS NEEDED FOR NEW CONSTRUCTION AND PROPOSED GRADES.

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DRAWN BY: SJT
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JOB NUMBER: 19153
REVISIONS

KNUTZEN ENGINEERING
CADFILE: 19153C001

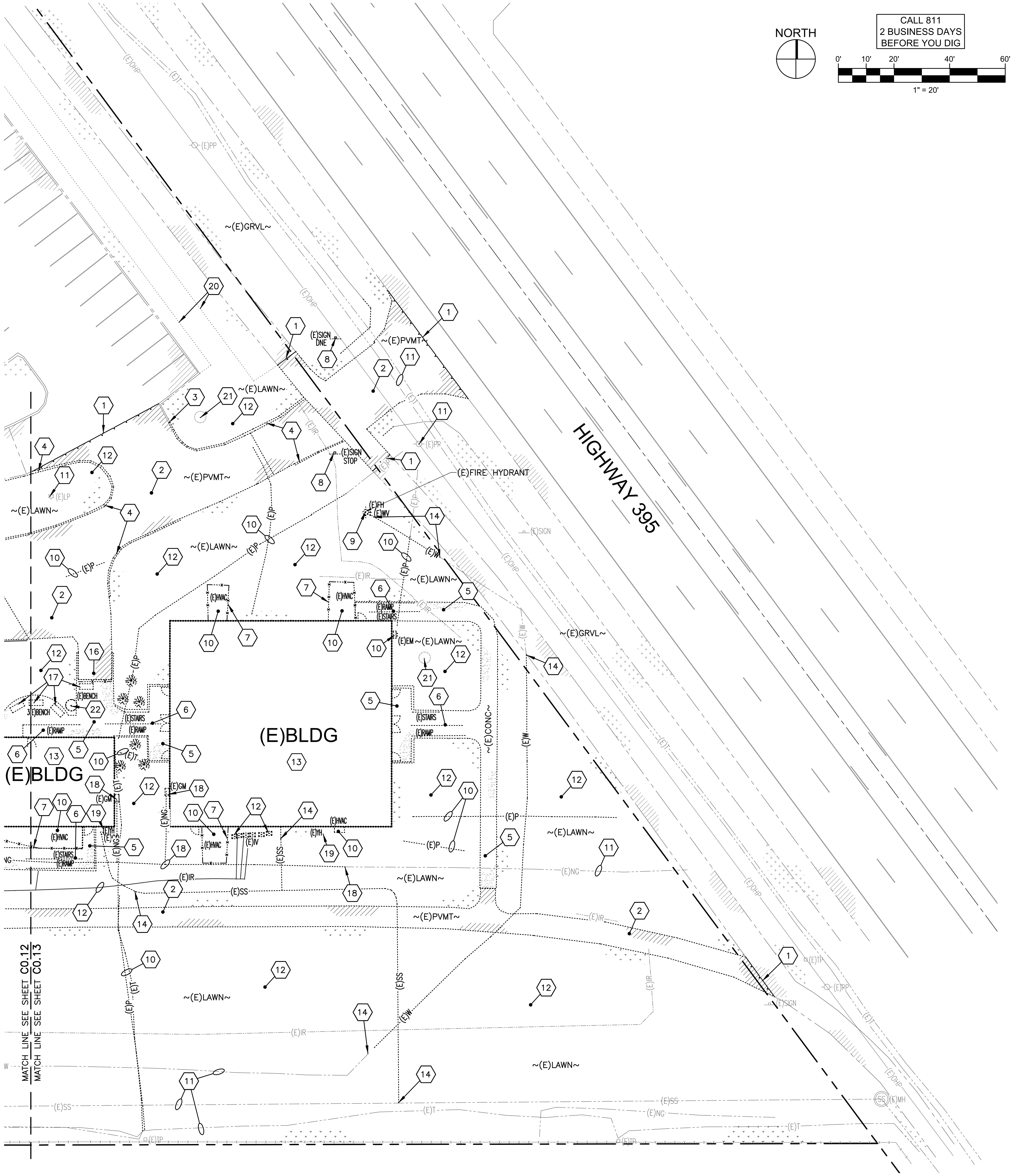
REGISTERED PROFESSIONAL ENGINEER
83108PE
OREGON
PAUL T. KNUTZEN
EXPIRATION DATE: 06/30/2021

STANFIELD ADDITION
1120 N Main St, Stanfield, OR

DATE: 01-27-20

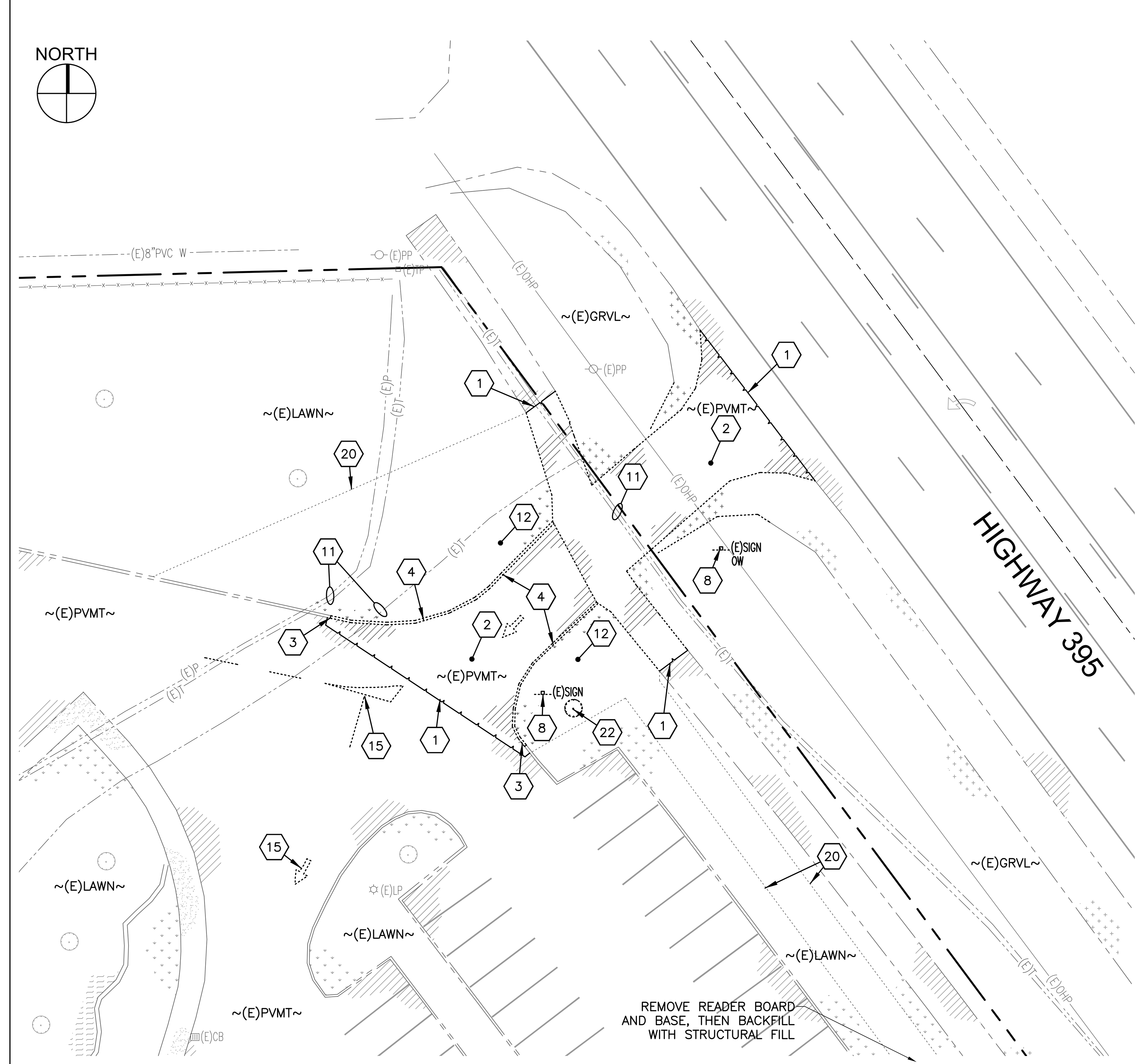
SHEET NAME: PARTIAL DEMOLITION PLAN

SHEET: C0.12



A1 PARTIAL DEMOLITION PLAN

SCALE: 1" = 20'-0"



C6 PARTIAL DEMOLITION PLAN

SCALE: 1" = 20'-0"

KEY NOTES

1. SAWCUT ASPHALT, PROVIDE NEAT CUT EDGE
2. REMOVE ASPHALT AND DISPOSE OF PROPERLY, REMOVE GRAVEL BASE AND SALVAGE FOR REUSE
3. SAWCUT, CONCRETE SIDEWALK, AND CONCRETE CURBING AS NECESSARY FOR NEW CONSTRUCTION AT NEAREST EXPANSION/CONTROL JOINT AS INDICATED, PROVIDE NEAT CUT EDGE
4. REMOVE CONCRETE CURBING AND DISPOSE OF PROPERLY
5. REMOVE CONCRETE AND DISPOSE OF PROPERLY, REMOVE GRAVEL BASE AND SALVAGE FOR REUSE
6. REMOVE RAMP AND/OR STAIRS AND HANDRAILS
7. REMOVE FENCE, POSTS, AND GATES AS SHOWN, THEN BACKFILL
8. REMOVE SIGN, POLE AND BASE THEN BACKFILL
9. REMOVE FIRE HYDRANT ASSEMBLY AND VALVE, USE FOR RELOCATION IF IN GOOD WORKING ORDER
10. ELECTRICAL/MECHANICAL EQUIPMENT TO BE REMOVED BY ELECTRICAL. REMOVE ALL REMAINING CONCRETE PADS AND FENCING AS NECESSARY FOR NEW CONSTRUCTIONS. SEE ELECTRICAL SITE PLAN FOR INFORMATION
11. PROTECT UTILITY IN PLACE
12. REMOVE LAWN AND/OR LANDSCAPING, IRRIGATION LINES, CONTROLS AND VALVES FOR NEW CONSTRUCTION
13. REMOVE BUILDING AND FOUNDATION IN IT'S ENTIRETY INCLUDING ANY UTILITIES WITH IN 5.0' OF BUILDING FOOT PRINT
14. REMOVE PORTION OF UTILITY PIPE AS SHOWN AND CAP PIPE TO REMAIN, ABANDON PIPE UNDER HARDSCAPE TO REMAIN
15. GRIND OR BURN OFF PAINTED STRIPE AND/OR CANALIZATION ARROW
16. REMOVE LOADING DOCK AND ASSOCIATED GUARD RAILS
17. REMOVE BENCH AND RETURN TO OWNER
18. REMOVE GAS METER AND PIPE AS SHOWN, CAP END FOR FUTURE CONNECTION
19. REMOVE YARD HYDRANT AND ASSOCIATED PIPE BACK TO MAIN, THEN CAP
20. APPROXIMATE LIMITS OF LAWN REMOVAL
21. PROTECT TREE DURING CONSTRUCTION, REFER TO LANDSCAPE
22. REMOVE TREE AND ROOTS, THEN BACKFILL WITH STRUCTURAL FILL

NOTES

1. SEE SHEET C0.01 FOR GENERAL NOTES AND LEGEND.
2. NOT ALL UNDERGROUND UTILITIES ON THESE DRAWINGS MAY BE SHOWN. FIELD LOCATE AND VERIFY ALL UNDERGROUND UTILITIES. COORDINATE ALL RELOCATION WORK WITH THE APPROPRIATE UTILITY COMPANY AND/OR OWNER PRIOR TO ANY EXCAVATION WORK.
3. FIELD VERIFY ALL MEASUREMENTS AND INVERTS PRIOR TO START OF WORK.
4. ACP AND CONCRETE CUT LINES ARE BASED ON NEW SURFACE FEATURES TO BE INSTALLED. CUT LINES DO NOT ACCOUNT FOR GRADING, TRENCHING, GRADE TRANSITIONS, OR OVERLAY WORK. ADJUST ACTUAL CUT AS NECESSARY FOR RELATED NEW WORK.
5. REMOVE ALL EXISTING IRRIGATION SYSTEM COMPONENTS WITHIN NEW CONSTRUCTION AREAS THAT WILL INTERFERE WITH NEW WORK. CUT, CAP, AND SEAL WATERTIGHT EXISTING PIPING TO REMAIN.
6. NOT ALL ELECTRICAL WORK MAY BE SHOWN ON THE CIVIL SITE DRAWINGS, AND IS SHOWN FOR REFERENCE PURPOSES ONLY. REFER TO ELECTRICAL DRAWINGS IN THIS CONSTRUCTION PACKAGE FOR ELECTRICAL DEMOLITION, RELOCATION, AND NEW INSTALLATION. ELECTRICAL SITE DRAWINGS SHALL TAKE PRECEDENCE PERTAINING TO ANY ELECTRICAL WORK WHICH MAY BE SHOWN ON THE CIVIL SITE DRAWINGS.
7. ALL UTILITY MAINS MUST REMAIN OPERATIONAL DURING CONSTRUCTION. COORDINATE WITH THE CITY TO SCHEDULE SERVICE OUTAGES AS NEEDED.
8. CONTRACTOR TO REMOVE ANY ABANDONED UTILITY LINES AS NEEDED FOR NEW CONSTRUCTION AND PROPOSED GRADES.

DESIGN WEST ARCHITECTS, P.A.
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DRAWN BY: SJT

CHECKED BY: PTK/ASW

JOB NUMBER: 19153

REVISIONS

KNUTZEN ENGINEERING
KENNEWICK, WA

CADFILE: 19153C0001

REGISTERED PROFESSIONAL ENGINEER 83108PE OREGON PAUL T. KNUTZEN

EXPIRATION DATE: 06/30/2021

STANFIELD ADDITION

1120 N Main St, Stanfield, OR

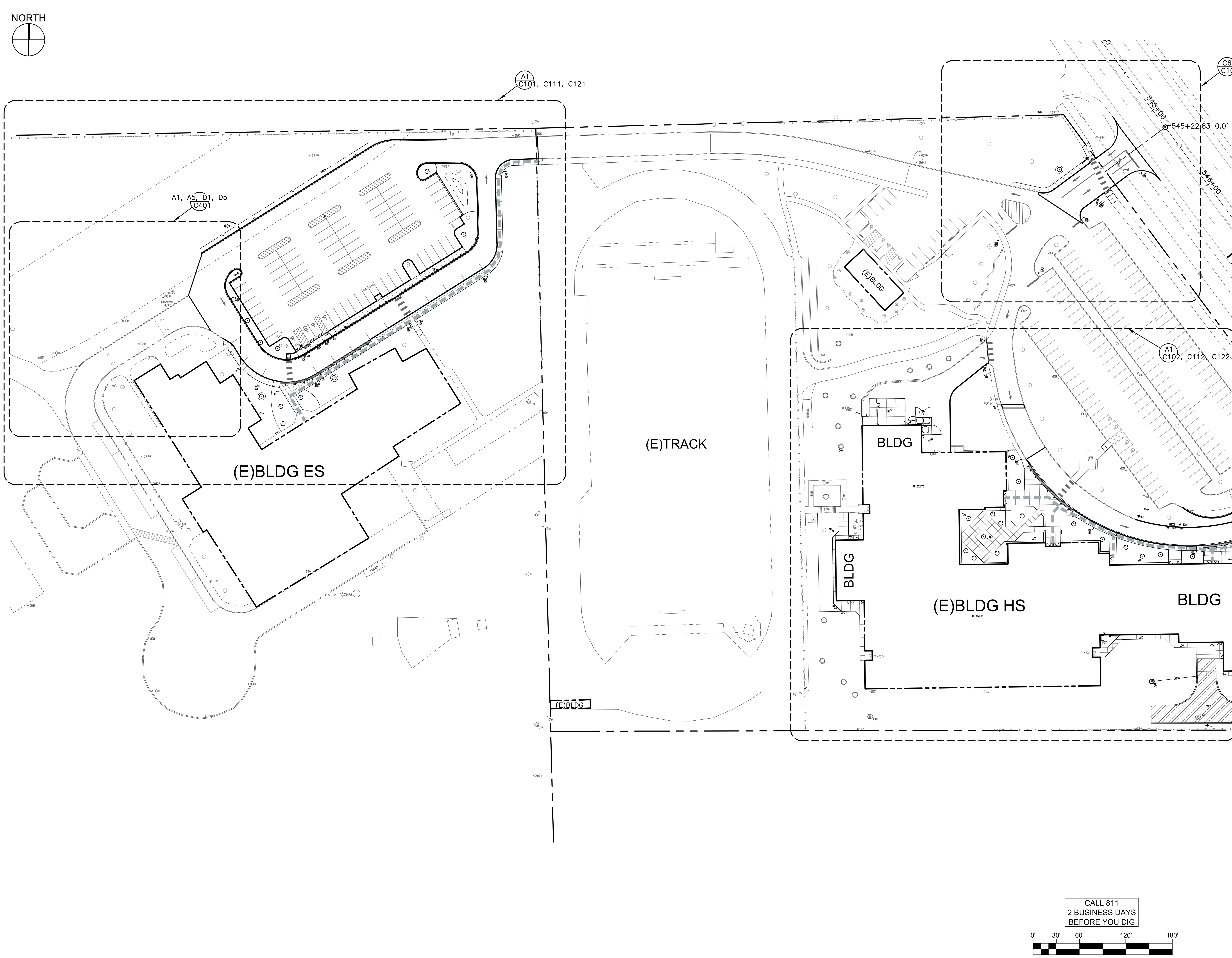
DATE: **01-27-20**

SHEET NAME: **PARTIAL DEMOLITION PLAN**

SHEET: **C0.13**

LEGEND

ADA COMPLIANT PATH TO SIDEWALK



A1 OVERALL SITE PLAN

SCALE: 1" = 60'-0"

NOTES

1. SEE SHEET C0.01 FOR GENERAL NOTES AND LEGEND.
2. PARKING:

ELEMENTARY SCHOOL
66 STANDARD STALLS, 3 ACCESSIBLE STALLS, 1 ACCESSIBLE VAN STALLS, 3 COMPACT STALLS, TOTAL 73 STALLS. BID ALT 1 12 STANDARD STALLS.

HIGH SCHOOL
136 STANDARD (E)STALLS, 8 ACCESSIBLE (E)STALLS, TOTAL 144 (E)STALLS.

DESIGN WEST
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SJT

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PTK/ASW

JOB NUMBER
19153

REVISIONS

KNUTZEN ENGINEERING

CADFILE: 19153C001

REGISTERED PROFESSIONAL ENGINEER
83108PE
OREGON
JULY 14, 2009
PAUL T. KNUTZEN
EXPIRATION DATE: 06/30/2021

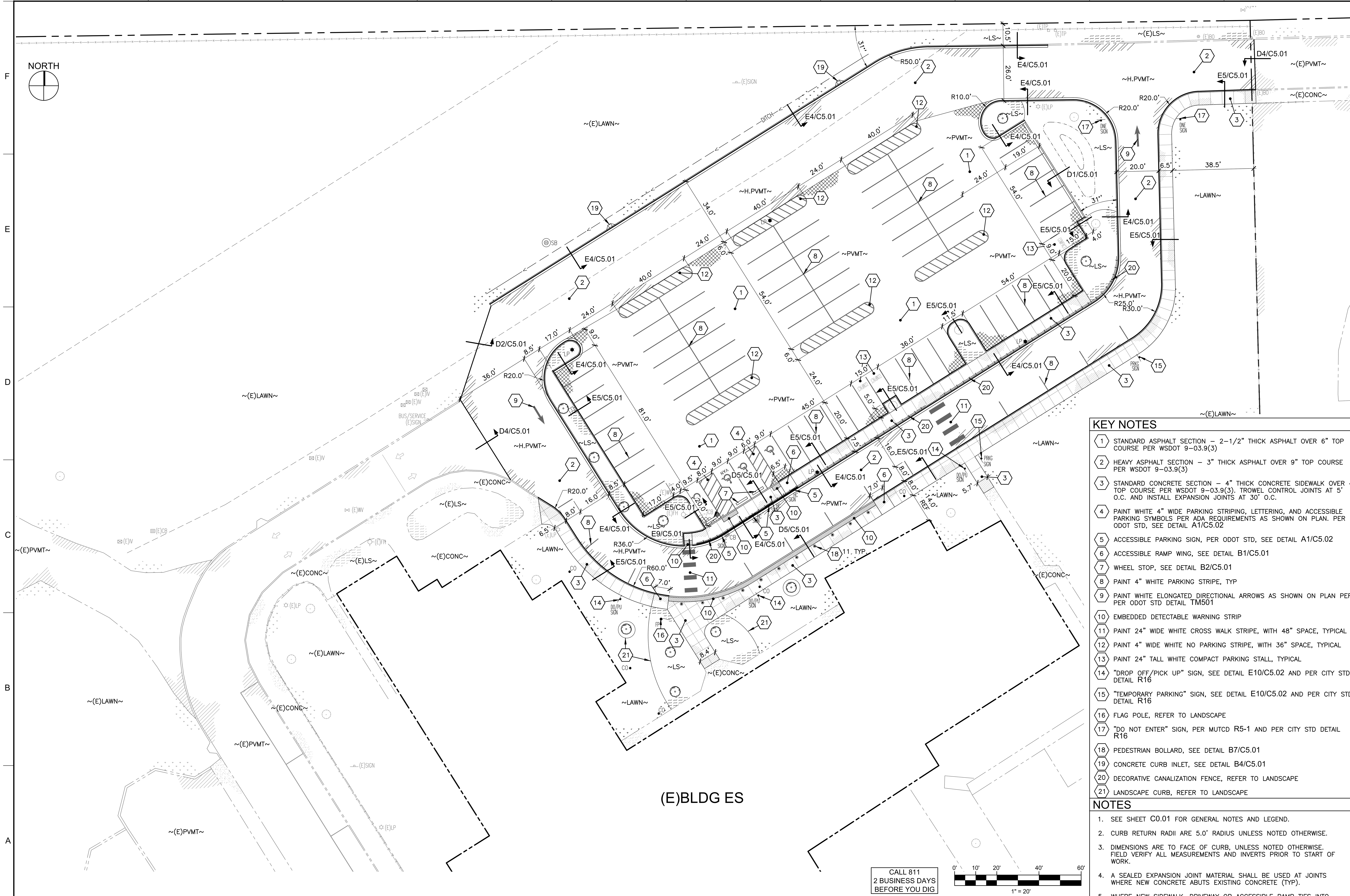
STANFIELD ADDITION

1120 N Main St, Stanfield, OR

DATE
01-27-20

SHEET NAME
OVERALL SITE PLAN

SHEET
C1.00



A1 PARTIAL SITE PLAN
SCALE: 1" = 20'-0"

CALL 811
2 BUSINESS DAYS
BEFORE YOU DIG

1" = 20'

KEY NOTES

1. STANDARD ASPHALT SECTION – 2-1/2" THICK ASPHALT OVER 6" TOP COURSE PER WSDOT 9-03.9(3)
2. HEAVY ASPHALT SECTION – 3" THICK ASPHALT OVER 9" TOP COURSE PER WSDOT 9-03.9(3)
3. STANDARD CONCRETE SECTION – 4" THICK CONCRETE SIDEWALK OVER 4" TOP COURSE PER WSDOT 9-03.9(3). TROWEL CONTROL JOINTS AT 5' O.C. AND INSTALL EXPANSION JOINTS AT 30' O.C.
4. PAINT WHITE 4" WIDE PARKING STRIPING, LETTERING, AND ACCESSIBLE PARKING SYMBOLS PER ADA REQUIREMENTS AS SHOWN ON PLAN. PER ODOT STD, SEE DETAIL A1/C5.02
5. ACCESSIBLE PARKING SIGN, PER ODOT STD, SEE DETAIL A1/C5.02
6. ACCESSIBLE RAMP WING, SEE DETAIL B1/C5.01
7. WHEEL STOP, SEE DETAIL B2/C5.01
8. PAINT 4" WHITE PARKING STRIPE, TYP
9. PAINT WHITE ELONGATED DIRECTIONAL ARROWS AS SHOWN ON PLAN PER, PER ODOT STD DETAIL TM501
10. EMBEDDED DETECTABLE WARNING STRIP
11. PAINT 24" WIDE WHITE CROSS WALK STRIPE, WITH 48" SPACE, TYPICAL
12. PAINT 4" WIDE WHITE NO PARKING STRIPE, WITH 36" SPACE, TYPICAL
13. PAINT 24" TALL WHITE COMPACT PARKING STALL, TYPICAL
14. "DROP OFF/PICK UP" SIGN, SEE DETAIL E10/C5.02 AND PER CITY STD DETAIL R16
15. "TEMPORARY PARKING" SIGN, SEE DETAIL E10/C5.02 AND PER CITY STD DETAIL R16
16. FLAG POLE, REFER TO LANDSCAPE
17. "DO NOT ENTER" SIGN, PER MUTCD R5-1 AND PER CITY STD DETAIL R16
18. PEDESTRIAN BOLLARD, SEE DETAIL B7/C5.01
19. CONCRETE CURB INLET, SEE DETAIL B4/C5.01
20. DECORATIVE CANALIZATION FENCE, REFER TO LANDSCAPE
21. LANDSCAPE CURB, REFER TO LANDSCAPE

NOTES

1. SEE SHEET C0.01 FOR GENERAL NOTES AND LEGEND.
2. CURB RETURN RADII ARE 5.0' RADIUS UNLESS NOTED OTHERWISE.
3. DIMENSIONS ARE TO FACE OF CURB, UNLESS NOTED OTHERWISE. FIELD VERIFY ALL MEASUREMENTS AND INVERTS PRIOR TO START OF WORK.
4. A SEALED EXPANSION JOINT MATERIAL SHALL BE USED AT JOINTS WHERE NEW CONCRETE ABUTS EXISTING CONCRETE (TYP).
5. WHERE NEW SIDEWALK, DRIVEWAY OR ACCESSIBLE RAMP TIES INTO (E)SIDEWALK, REMOVE AND REPLACE ADDITIONAL SIDEWALK PANEL FOR ADA TRANSITION IF REQUIRED.

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JOB NUMBER
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REVISIONS

KNUTZEN ENGINEERING

CADFILE: 19153C001

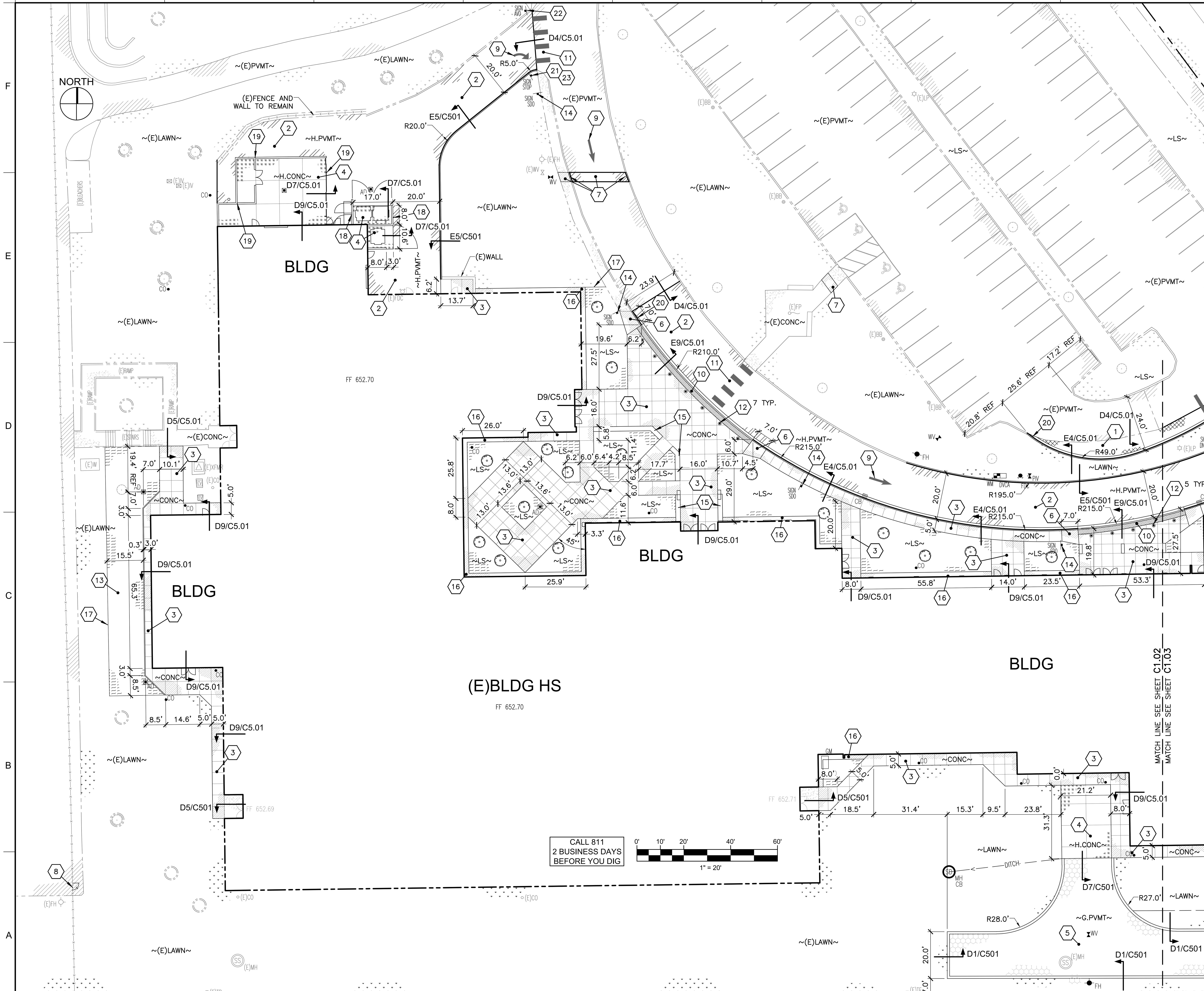
EXPIRATION DATE: 06/30/2021

STANFIELD ADDITION
1120 N Main St, Stanfield, OR

DATE
01-27-20

SHEET NAME
PARTIAL SITE PLAN

SHEET
C1.01



A1 PARTIAL SITE PLAN
SCALE: 1" = 20'-0"

KEY NOTES

1. STANDARD ASPHALT SECTION – 2-1/2" THICK ASPHALT OVER 6" TOP COURSE PER WSDOT 9-03.9(3)
2. HEAVY ASPHALT SECTION – 3" THICK ASPHALT OVER 9" TOP COURSE PER WSDOT 9-03.9(3)
3. STANDARD CONCRETE SECTION – 4" THICK CONCRETE SIDEWALK OVER 4" TOP COURSE PER WSDOT 9-03.9(3). TROWEL CONTROL JOINTS AT 5' O.C. AND INSTALL EXPANSION JOINTS AT 30' O.C.
4. HEAVY CONCRETE SECTION – 6" THICK CONCRETE SIDEWALK OVER 6" TOP COURSE PER WSDOT 9-03.9(3). TROWEL CONTROL JOINTS AT 10' O.C. AND INSTALL EXPANSION JOINTS AT 30' O.C.
5. GRASS PAVE, SEE DETAIL E4/C5.02
6. ACCESSIBLE RAMP WING, SEE DETAIL B1/C5.01
7. PATCH CURB, SIDEWALK AND/OR ASPHALT FOR UTILITY INSTALLATION, MATCH EXISTING CONDITIONS
8. MAN GATE, REFER TO LANDSCAPE
9. PAINT WHITE ELONGATED DIRECTIONAL ARROWS AS SHOWN ON PLAN PER, PER ODOT STD DETAIL TM501
10. EMBEDDED DETECTABLE WARNING STRIP
11. PAINT 24" WIDE WHITE CROSS WALK STRIPE, WITH 48" SPACE, TYPICAL
12. PEDESTRIAN BOLLARD, SEE DETAIL B7/C5.01
13. TIERED LANDSCAPE AREA, REFER TO LANDSCAPE
14. "DROP OFF/PICK UP" SIGN, SEE DETAIL E10/C5.02, AND PER CITY STD DETAIL R16
15. BENCH, REFER TO LANDSCAPE
16. 24" WIDE BY 4" THICK CONCRETE STRIP AROUND BUILDING OVER 4" TOP COURSE PER WSDOT 9-03.9(3). TROWEL CONTROL JOINTS AT 5' O.C. AND INSTALL EXPANSION JOINTS AT 30' O.C.
17. LANDSCAPE CURB, REFER TO LANDSCAPE
18. TRASH/CONTAINER ENCLOSURES, REFER TO STRUCTURAL
19. COVERED ENCLOSURE AREA, REFER TO STRUCTURAL
20. HAND FORM PORTION OF GUTTER TO TAPER INTO EXISTING CURB
21. "STOP" SIGN, PER MUTCD R1-1 AND PER CITY STD DETAIL R16
22. "AUTHORIZED VEHICLES ONLY" SIGN, PER MUTCD R5-11 AND PER CITY STD DETAIL R16
23. "RIGHT TURN ONLY" SIGN, PER MUTCD W1-1R AND PER CITY STD DETAIL R16

NOTES

1. SEE SHEET C0.01 FOR GENERAL NOTES AND LEGEND.
2. CURB RETURN RADII ARE 5.0' RADIUS UNLESS NOTED OTHERWISE.
3. DIMENSIONS ARE TO FACE OF CURB, UNLESS NOTED OTHERWISE. FIELD VERIFY ALL MEASUREMENTS AND INVERTS PRIOR TO START OF WORK.
4. A SEALED EXPANSION JOINT MATERIAL SHALL BE USED AT JOINTS WHERE NEW CONCRETE ABUTS EXISTING CONCRETE (TYP).
5. WHERE NEW SIDEWALK, DRIVEWAY OR ACCESSIBLE RAMP TIES INTO (E)SIDEWALK, REMOVE AND REPLACE ADDITIONAL SIDEWALK PANEL FOR ADA TRANSITION IF REQUIRED.

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JOB NUMBER
19153

REVISIONS

KNUTZEN ENGINEERING

CADFILE: 19153C001

REGISTERED PROFESSIONAL ENGINEER 83108PE OREGON PAUL T. KNUTZEN
EXPIRATION DATE: 06/30/2021

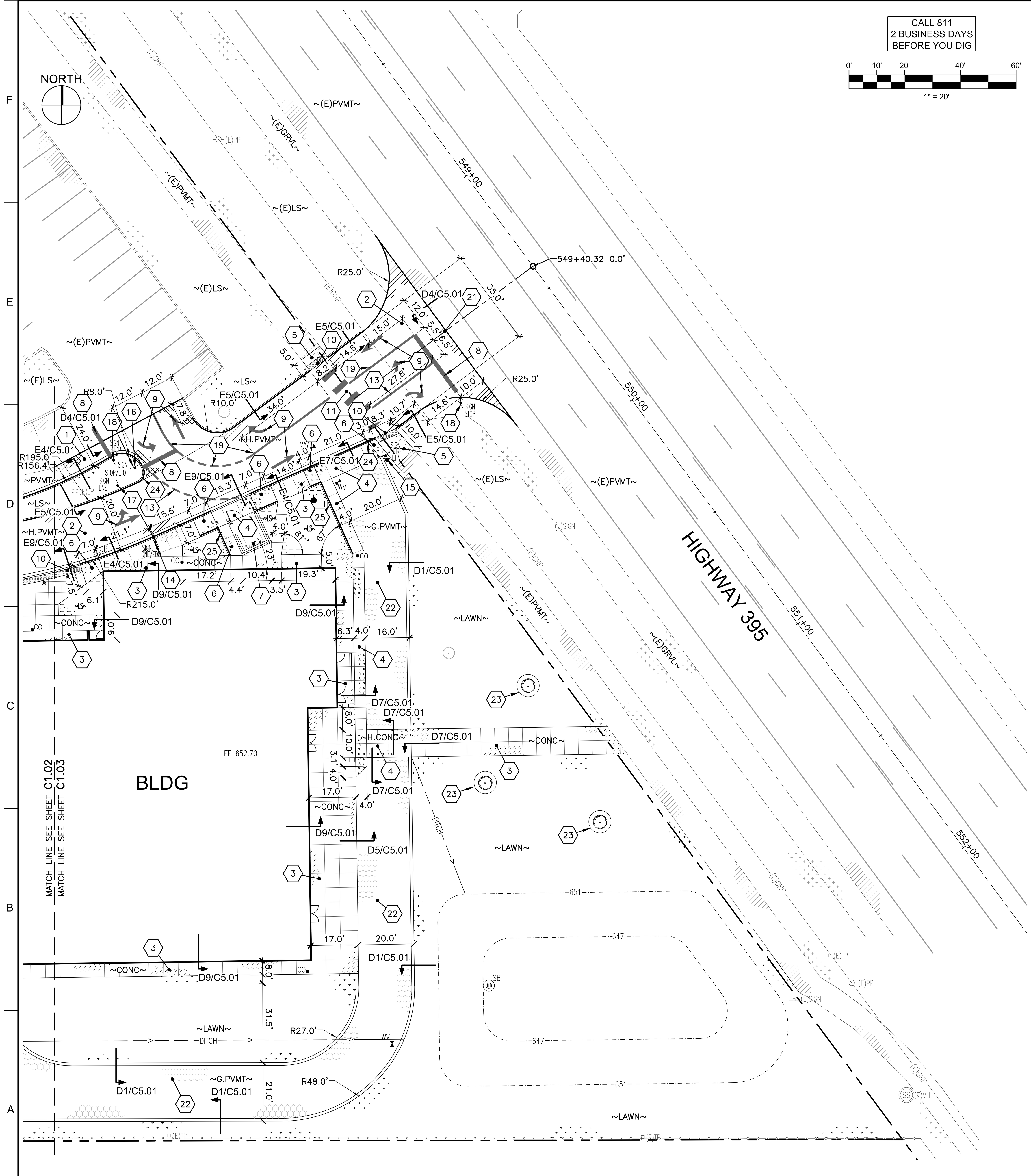
STANFIELD ADDITION

1120 N Main St, Stanfield, OR

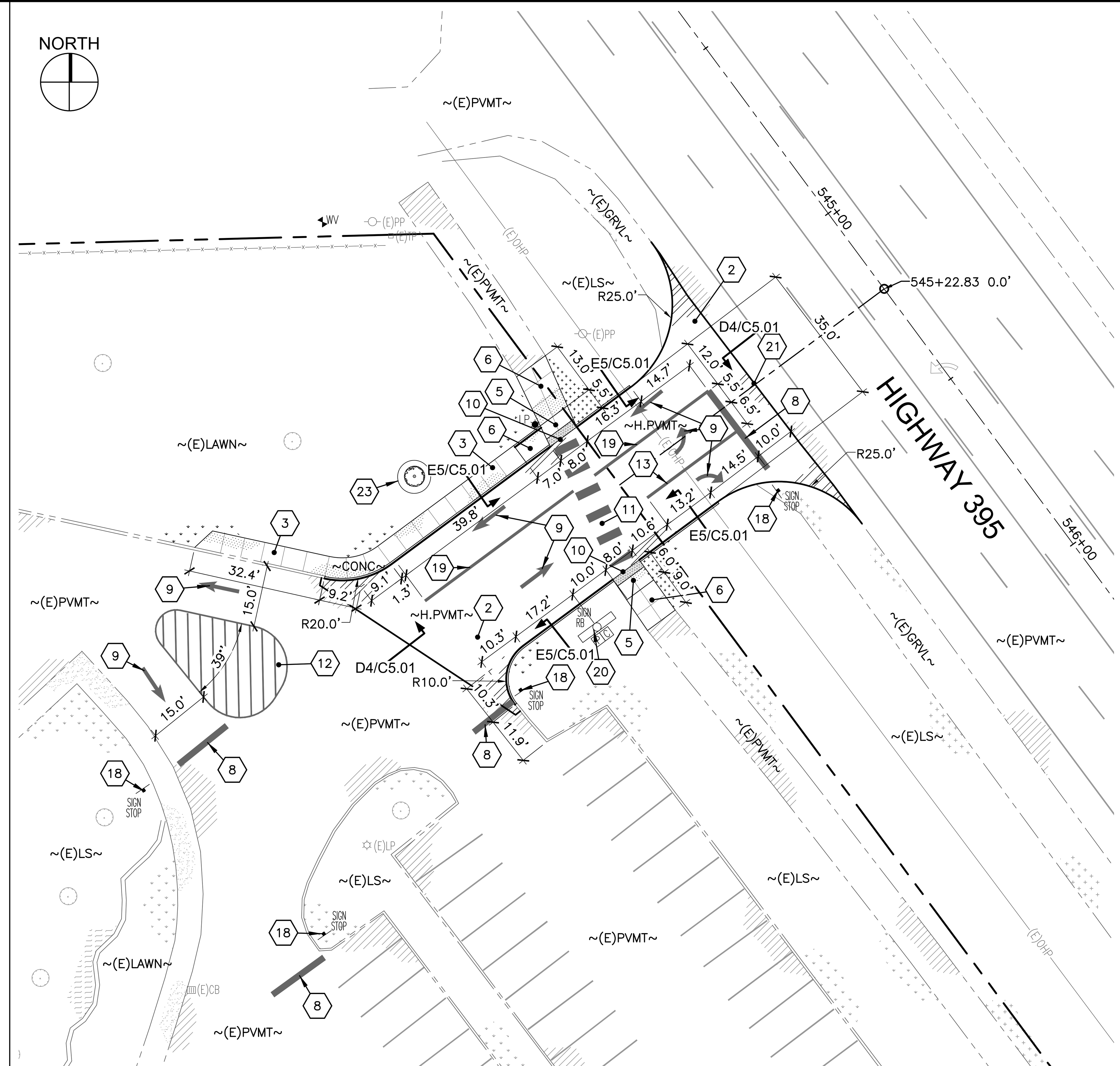
DATE
01-27-20

SHEET NAME
PARTIAL SITE PLAN

SHEET
C1.02



A1 PARTIAL SITE PLAN
SCALE: 1" = 20'-0"



C6 PARTIAL SITE PLAN
SCALE: 1" = 20'-0"

KEY NOTES

1. STANDARD ASPHALT SECTION – 2-1/2" THICK ASPHALT OVER 6" TOP COURSE PER WSDOT 9-03.9(3)
2. HEAVY ASPHALT SECTION – 3" THICK ASPHALT OVER 9" TOP COURSE PER WSDOT 9-03.9(3)
3. STANDARD CONCRETE SECTION – 4" THICK CONCRETE SIDEWALK OVER 4" TOP COURSE PER WSDOT 9-03.9(3). TROWEL CONTROL JOINTS AT 5' O.C. AND INSTALL EXPANSION JOINTS AT 30' O.C.
4. HEAVY CONCRETE SECTION – 6" THICK CONCRETE SIDEWALK OVER 6" TOP COURSE PER WSDOT 9-03.9(3). TROWEL CONTROL JOINTS AT 10' O.C. AND INSTALL EXPANSION JOINTS AT 30' O.C.
5. ACCESSIBLE EDGE OF WALK WING, PER CITY STD DETAIL R9
6. ACCESSIBLE RAMP WING, SEE DETAIL B1/C5.01
7. TRASH ENCLOSURE, SEE DETAIL D2/C5.02
8. 18" WHITE PAINTED STOP BAR, PER ODOT STD DETAIL TM503
9. PAINT WHITE ELONGATED DIRECTIONAL ARROWS AS SHOWN ON PLAN PER, PER ODOT STD DETAIL TM501
10. EMBEDDED DETECTABLE WARNING STRIP
11. PAINT 24" WIDE WHITE CROSS WALK STRIPE, WITH 48" SPACE, TYPICAL
12. PAINT 4" WIDE WHITE NO PARKING STRIPE, WITH 36" SPACE, TYPICAL
13. PAINT 8" WIDE WHITE LANE STRIPE, DASHED THROUGH TURNS
14. "DROP OFF/PICK UP" SIGN, SEE DETAIL E10/C5.02 AND PER CITY STD DETAIL R16
15. "FIRE LANE ONLY" SIGN, SEE DETAIL E10/C5.02 AND PER CITY STD DETAIL R16
16. "LEFT TURN ONLY" SIGN, PER MUTCD W1-1L AND PER CITY STD DETAIL R16
17. "DO NOT ENTER" SIGN, PER MUTCD R5-1 AND PER CITY STD DETAIL R16
18. "STOP" SIGN, PER MUTCD R1-1 AND PER CITY STD DETAIL R16
19. PAINT 8" WIDE YELLOW LANE STRIPE, DASHED THROUGH TURNS
20. READER BOARD SIGN, REFER TO ARCHITECTURAL
21. DRIVE ENTRANCE APPROACH, PER ODOT STD DETAIL RD715, SEE DETAIL D6/C5.02
22. GRASS PAVE, SEE DETAIL E4/C5.02
23. LANDSCAPE CURB, REFER TO LANDSCAPE
24. HAND FORM PORTION OF GUTTER TO TAPER INTO CURB TRANSITION
25. STANDARD CURB, SEE DETAIL E5/C5.01

NOTES

1. SEE SHEET C0.01 FOR GENERAL NOTES AND LEGEND.
2. CURB RETURN RADII ARE 5.0' RADIUS UNLESS NOTED OTHERWISE.
3. DIMENSIONS ARE TO FACE OF CURB, UNLESS NOTED OTHERWISE. FIELD VERIFY ALL MEASUREMENTS AND INVERTS PRIOR TO START OF WORK.
4. A SEALED EXPANSION JOINT MATERIAL SHALL BE USED AT JOINTS WHERE NEW CONCRETE ABUTS EXISTING CONCRETE (TYP).
5. WHERE NEW SIDEWALK, DRIVEWAY OR ACCESSIBLE RAMP TIES INTO (E)SIDEWALK, REMOVE AND REPLACE ADDITIONAL SIDEWALK PANEL FOR ADA TRANSITION IF REQUIRED.

DESIGN WEST
ARCHITECTS, P.A.
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• KENNEWICK, WASHINGTON • ONTARIO OREGON •
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SJT

CHECKED BY
PTK/ASW

JOB NUMBER
19153

REVISIONS

KNUTZEN ENGINEERING

CADFILE: 19153C001

REGISTERED PROFESSIONAL ENGINEER
OREGON
PAUL T. KNUTZEN
EXPIRATION DATE: 06/30/2021

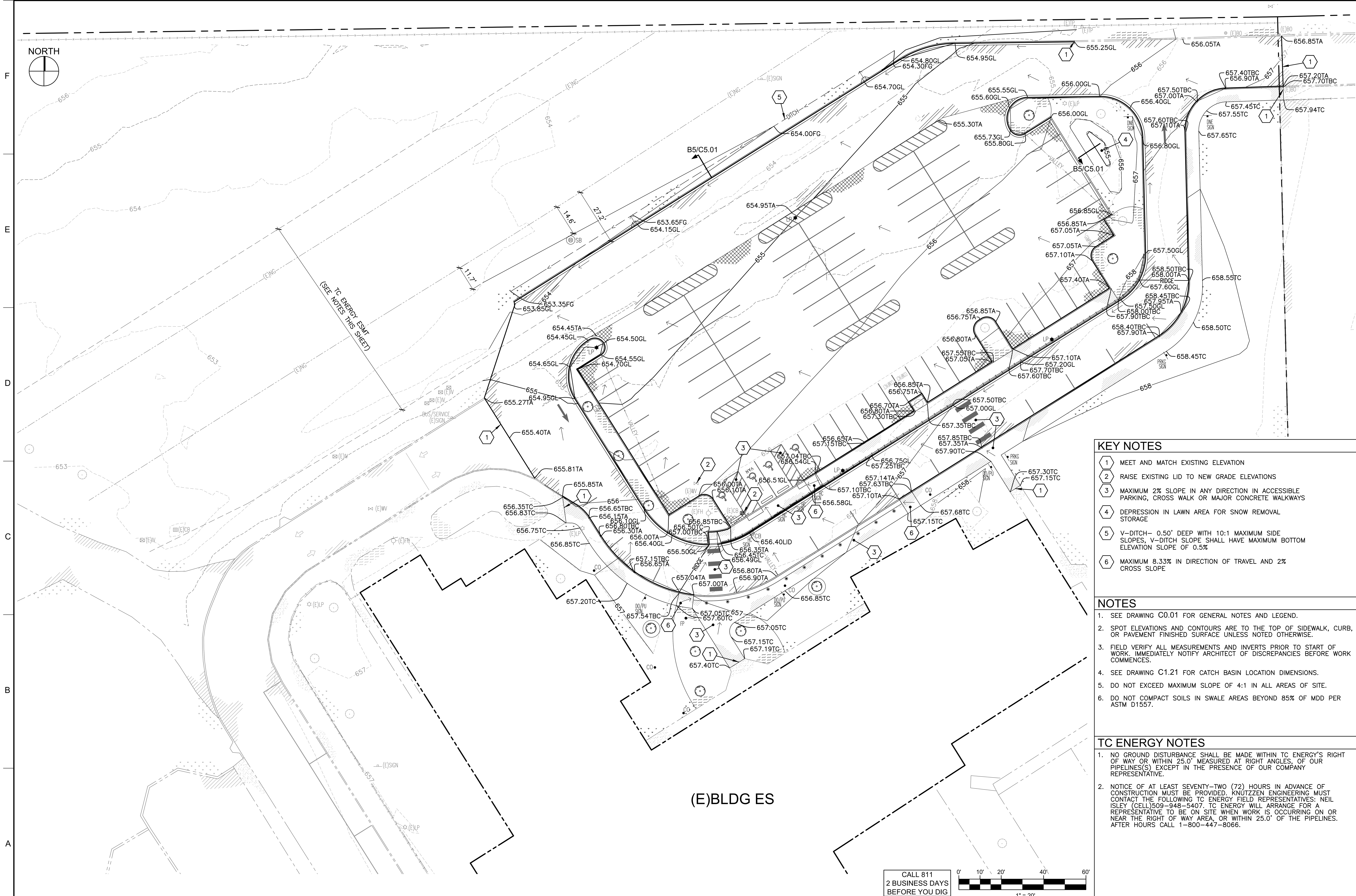
STANFIELD ADDITION

1120 N Main St, Stanfield, OR

DATE
01-27-20

SHEET NAME
PARTIAL SITE PLAN

SHEET
C1.03



A1 PARTIAL GRADING PLAN
SCALE: 1" = 20'-0"

KEY NOTES

1. MEET AND MATCH EXISTING ELEVATION
2. RAISE EXISTING LID TO NEW GRADE ELEVATIONS
3. MAXIMUM 2% SLOPE IN ANY DIRECTION IN ACCESSIBLE PARKING, CROSS WALK OR MAJOR CONCRETE WALKWAYS
4. DEPRESSION IN LAWN AREA FOR SNOW REMOVAL STORAGE
5. V-DITCH- 0.50' DEEP WITH 10:1 MAXIMUM SIDE SLOPES, V-DITCH SLOPE SHALL HAVE MAXIMUM BOTTOM ELEVATION SLOPE OF 0.5%
6. MAXIMUM 8.33% IN DIRECTION OF TRAVEL AND 2% CROSS SLOPE

NOTES

1. SEE DRAWING C0.01 FOR GENERAL NOTES AND LEGEND.
2. SPOT ELEVATIONS AND CONTOURS ARE TO THE TOP OF SIDEWALK, CURB, OR PAVEMENT FINISHED SURFACE UNLESS NOTED OTHERWISE.
3. FIELD VERIFY ALL MEASUREMENTS AND INVERTS PRIOR TO START OF WORK. IMMEDIATELY NOTIFY ARCHITECT OF DISCREPANCIES BEFORE WORK COMMENCES.
4. SEE DRAWING C1.21 FOR CATCH BASIN LOCATION DIMENSIONS.
5. DO NOT EXCEED MAXIMUM SLOPE OF 4:1 IN ALL AREAS OF SITE.
6. DO NOT COMPACT SOILS IN SWALE AREAS BEYOND 85% OF MDD PER ASTM D1557.

TC ENERGY NOTES

1. NO GROUND DISTURBANCE SHALL BE MADE WITHIN TC ENERGY'S RIGHT OF WAY OR WITHIN 25.0' MEASURED AT RIGHT ANGLES, OF OUR PIPELINES(S) EXCEPT IN THE PRESENCE OF OUR COMPANY REPRESENTATIVE.
2. NOTICE OF AT LEAST SEVENTY-TWO (72) HOURS IN ADVANCE OF CONSTRUCTION MUST BE PROVIDED. KNUTZEN ENGINEERING MUST CONTACT THE FOLLOWING TC ENERGY FIELD REPRESENTATIVES: NEIL ISLEY (CELL)509-948-5407. TC ENERGY WILL ARRANGE FOR A REPRESENTATIVE TO BE ON SITE WHEN WORK IS OCCURRING ON OR NEAR THE RIGHT OF WAY AREA, OR WITHIN 25.0' OF THE PIPELINES. AFTER HOURS CALL 1-800-447-8066.

DESIGN WEST ARCHITECTS, P.A.
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JOB NUMBER
19153

REVISIONS

KNUTZEN ENGINEERING
CADFILE: 19153C001

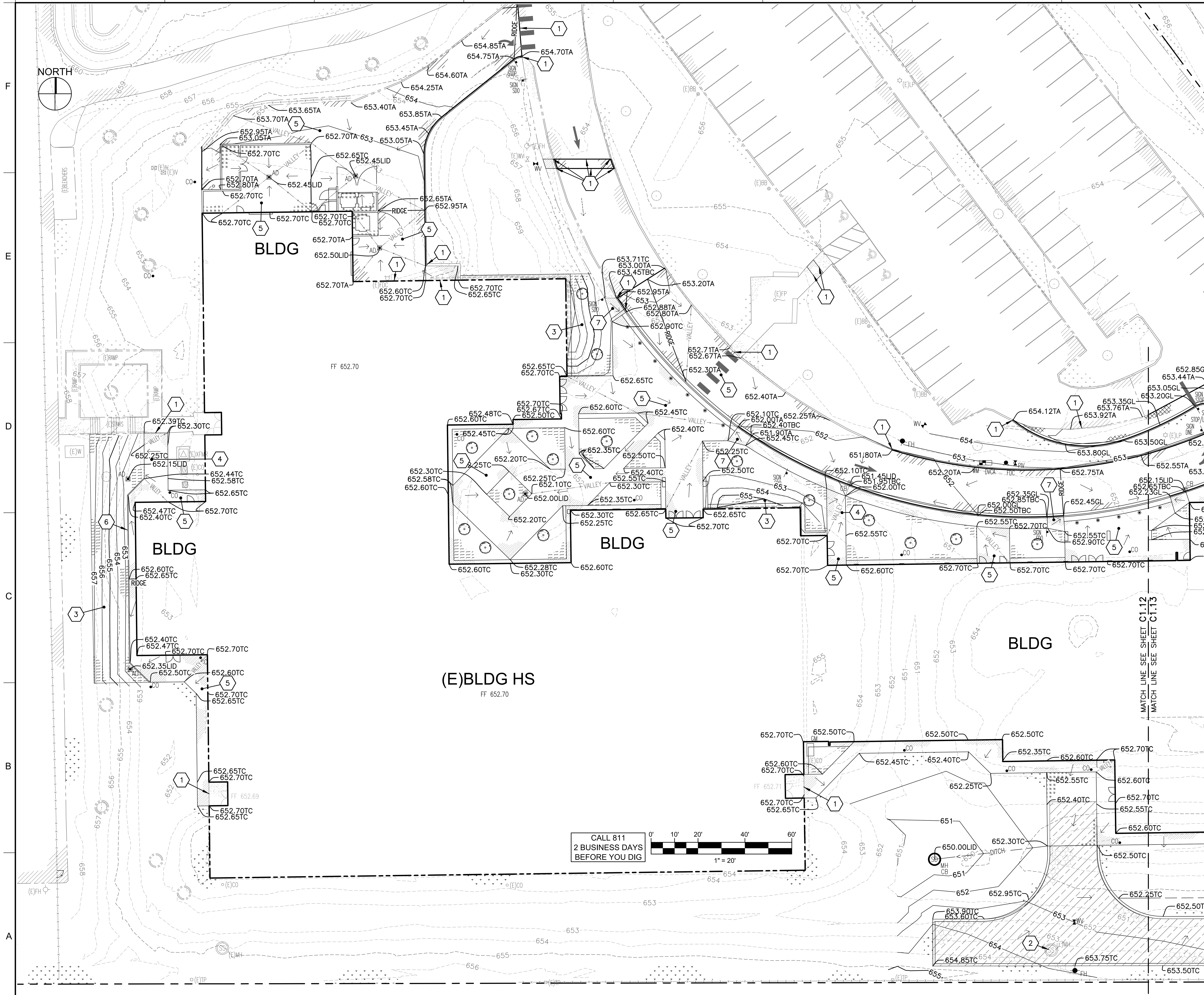
REGISTERED PROFESSIONAL ENGINEER 83108PE OREGON PAUL T. KNUTZEN
EXPIRATION DATE: 06/30/2021

STANFIELD ADDITION
1120 N Main St, Stanfield, OR

DATE
01-27-20

SHEET NAME
PARTIAL GRADING PLAN

SHEET
C1.11



A1 PARTIAL GRADING PLAN
SCALE: 1" = 20'-0"

KEY NOTES

1. MEET AND MATCH EXISTING ELEVATION
2. RAISE EXISTING LID TO NEW GRADE ELEVATIONS
3. MAXIMUM 3:1 SLOPE
4. MAXIMUM 5% IN DIRECTION OF TRAVEL AND 2% CROSS SLOPE
5. MAXIMUM 2% SLOPE IN ANY DIRECTION IN CROSS WALK OR MAIN CONCRETE WALK AREAS
6. V–DITCH ALONG EDGE OF CONCRETE TO AREA DRAINS
7. MAXIMUM 8.33% IN DIRECTION OF TRAVEL AND 2% CROSS SLOPE

NOTES

1. SEE DRAWING C0.01 FOR GENERAL NOTES AND LEGEND.
2. SPOT ELEVATIONS AND CONTOURS ARE TO THE TOP OF SIDEWALK, CURB, OR PAVEMENT FINISHED SURFACE UNLESS NOTED OTHERWISE.
3. FIELD VERIFY ALL MEASUREMENTS AND INVERTS PRIOR TO START OF WORK. IMMEDIATELY NOTIFY ARCHITECT OF DISCREPANCIES BEFORE WORK COMMENCES.
4. SEE DRAWING C1.22 FOR CATCH BASIN LOCATION DIMENSIONS.
5. DO NOT EXCEED MAXIMUM SLOPE OF 4:1 IN ALL AREAS OF SITE.
6. DO NOT COMPACT SOILS IN SWALE AREAS BEYOND 85% OF MDD PER ASTM D1557.

DESIGN WEST ARCHITECTS, P.A.
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REVISIONS

KNUTZEN ENGINEERING

CADFILE: 19153C001

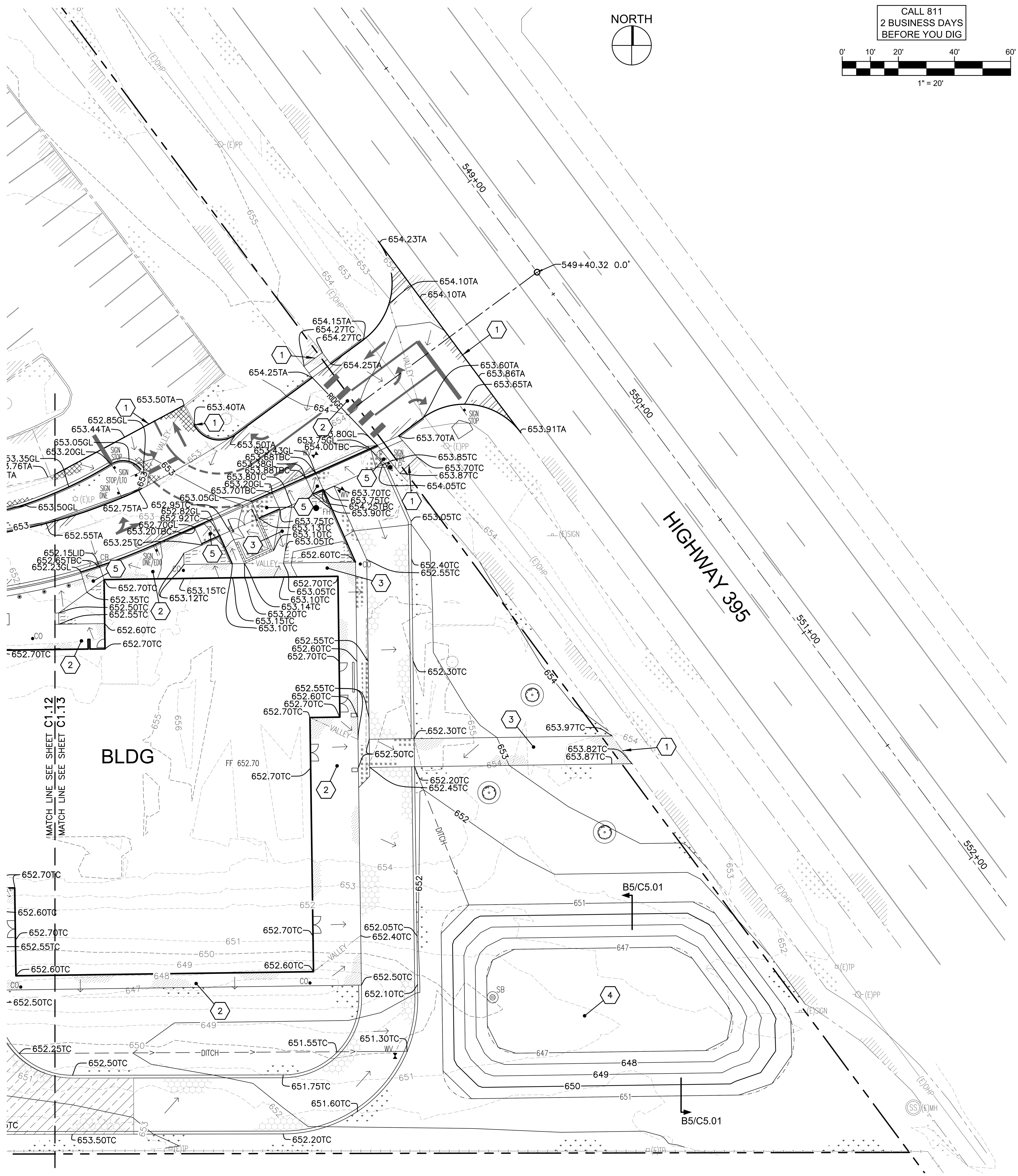
REGISTERED PROFESSIONAL ENGINEER
OREGON
PAUL T. KNUTZEN
EXPIRATION DATE: 06/30/2021

STANFIELD ADDITION
1120 N Main St, Stanfield, OR

DATE
01-27-20

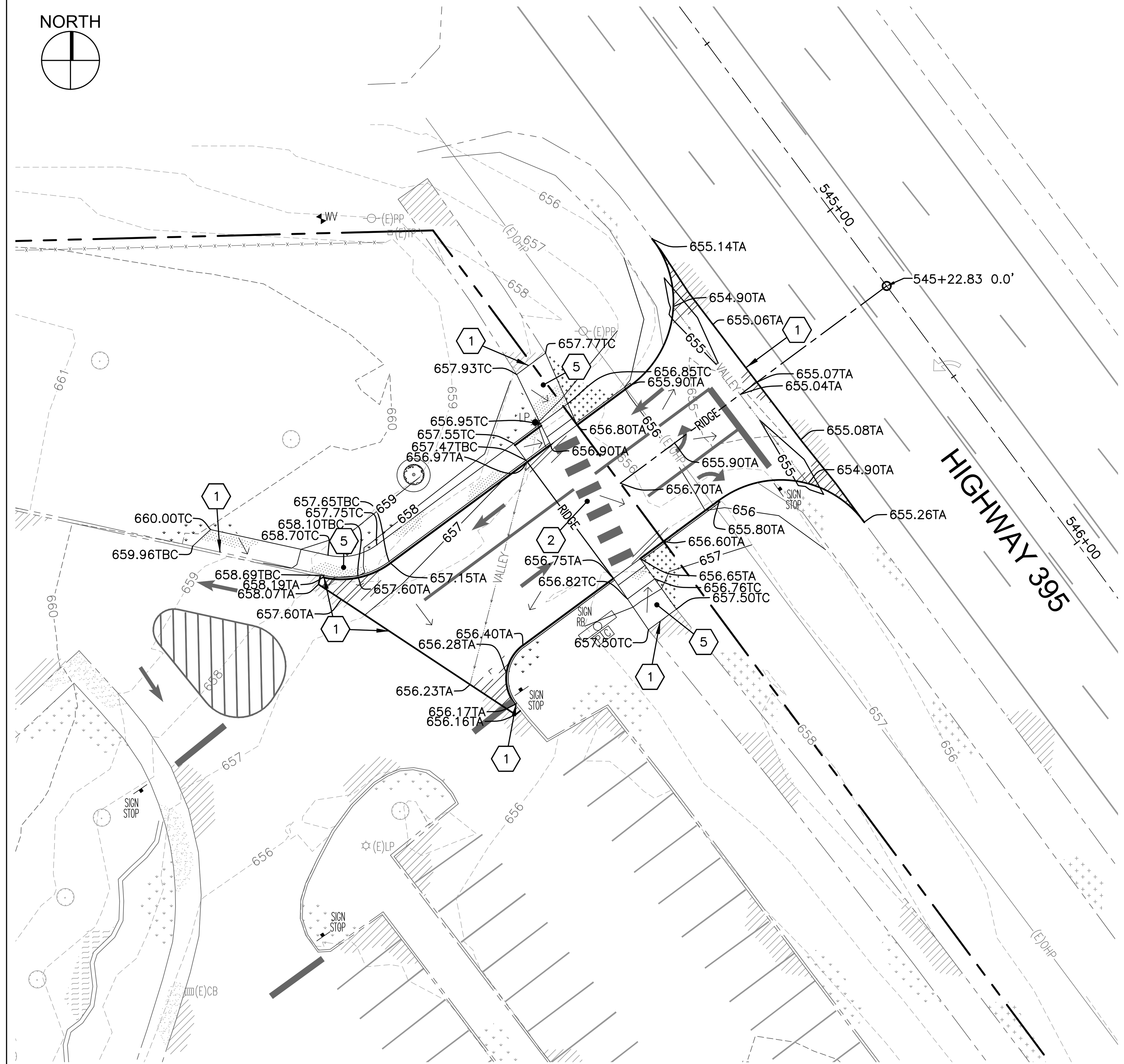
SHEET NAME
PARTIAL GRADING PLAN

SHEET
C1.12



A1 PARTIAL GRADING PLAN

SCALE: 1" = 20'-0"



C6 PARTIAL GRADING PLAN

SCALE: 1" = 20'-0"

KEY NOTES

1. MEET AND MATCH EXISTING ELEVATION
2. MAXIMUM 2% SLOPE IN ANY DIRECTION IN CROSS WALK OR MAIN CONCRETE WALK AREAS
3. MAXIMUM 5% IN DIRECTION OF TRAVEL AND 2% CROSS SLOPE
4. IRREGULAR SHAPED SWALE— APPROXIMATELY 37.0'Wx80.0'Lx4.0' DEEP BOTTOM WITH 4:1 SIDE SLOPES, BOTTOM ELEVATION 647.00
5. MAXIMUM 8.33% IN DIRECTION OF TRAVEL AND 2% CROSS SLOPE

NOTES

1. SEE DRAWING C0.01 FOR GENERAL NOTES AND LEGEND.
2. SPOT ELEVATIONS AND CONTOURS ARE TO THE TOP OF SIDEWALK, CURB, OR PAVEMENT FINISHED SURFACE UNLESS NOTED OTHERWISE.
3. FIELD VERIFY ALL MEASUREMENTS AND INVERTS PRIOR TO START OF WORK. IMMEDIATELY NOTIFY ARCHITECT OF DISCREPANCIES BEFORE WORK COMMENCES.
4. SEE DRAWING C1.23 FOR CATCH BASIN LOCATION DIMENSIONS.
5. DO NOT EXCEED MAXIMUM SLOPE OF 4:1 IN ALL AREAS OF SITE.
6. DO NOT COMPACT SOILS IN SWALE AREAS BEYOND 85% OF MDD PER ASTM D1557.

DESIGN WEST
ARCHITECTS, P.A.
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REVISIONS

KNUTZEN ENGINEERING

CADFILE: 19153C001

REGISTERED PROFESSIONAL ENGINEER
OREGON
PAUL T. KNUTZEN
EXPIRATION DATE: 06/30/2021

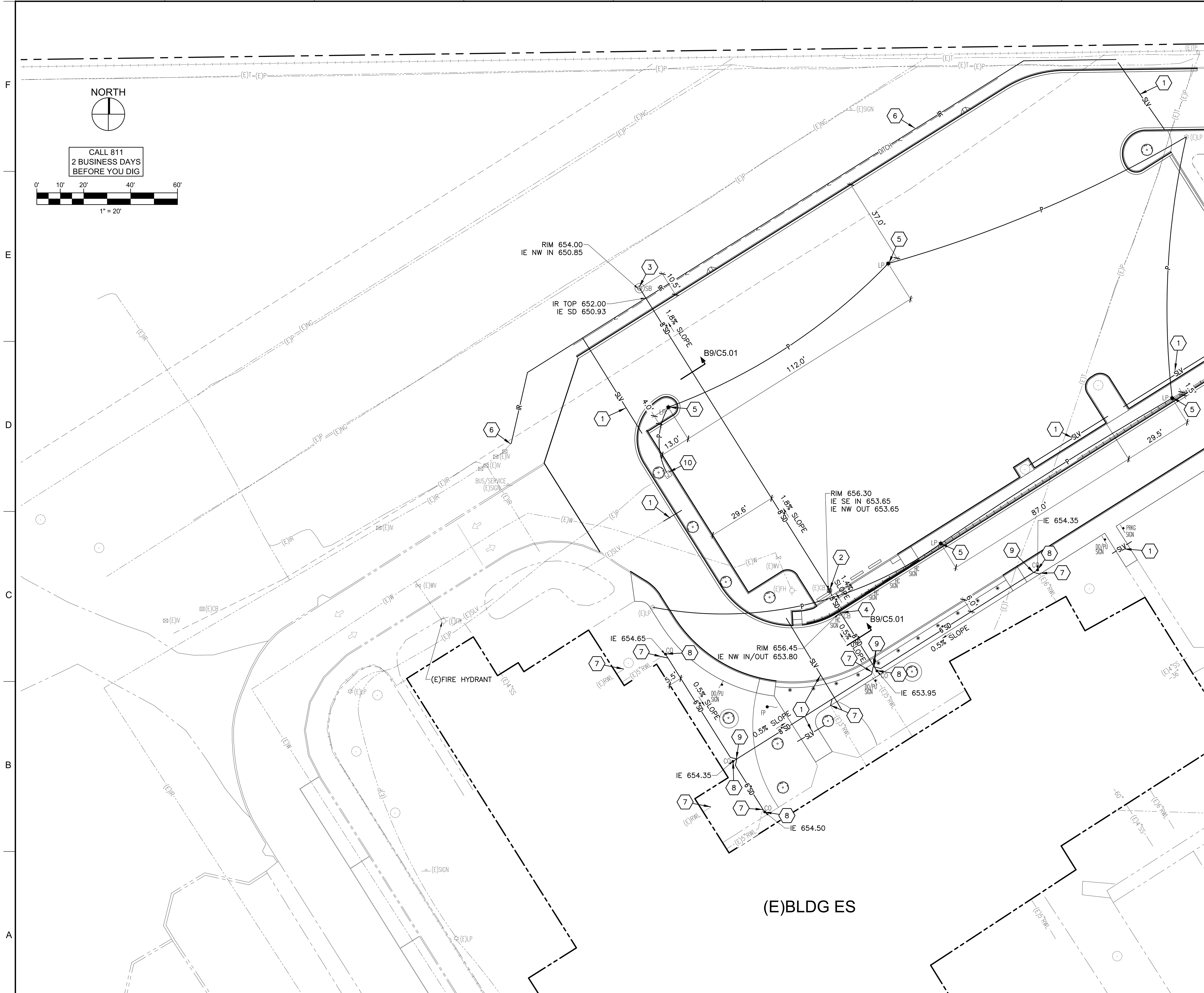
STANFIELD ADDITION

1120 N Main St, Stanfield, OR

DATE
01-27-20

SHEET NAME
PARTIAL GRADING PLAN

SHEET
C1.13



A1 PARTIAL UTILITY PLAN

SCALE: 1" = 20'-0"

KEY NOTES

1. 4" IRRIGATION SLEEVE (SLV), TYPICAL. COORDINATE LOCATIONS WITH LANDSCAPE PLANS
2. TIE NEW STORM LINES INTO EXISTING CATCH BASIN, REPLACE LID WITH SOLID LID AND ADJUST TO NEW GRADE
3. STORM BUBBLER, SEE DETAIL A5/C5.01
4. CATCH BASIN, SEE DETAIL A2/C5.01
5. LIGHT POLE, BASE AND ASSOCIATED CONDUIT, REFER TO ELECTRICAL
6. REROUTE IRRIGATION MAIN OUT OF NEW DRIVE, REFER TO LANDSCAPE
7. FIELD LOCATE EXISTING RAIN WATER LEADERS AND CONNECT TO NEW STORM PIPE WITH WYE CONNECTION
8. CLEAN OUT TO GRADE, SEE DETAIL A1/C5.01
9. WYE CONNECTION
10. J-BOX AT EXISTING LIGHTING POWER CONDUIT END, REFER TO ELECTRICAL
11. EXTEND IRRIGATION SLEEVE TO NEW ISLAND

NOTES

1. SEE DRAWING C0.01 FOR GENERAL NOTES AND LEGEND.
2. ALL UNDERGROUND UTILITIES ON THE SITE MAY NOT BE SHOWN. FIELD LOCATE AND VERIFY ALL UNDERGROUND UTILITIES. COORDINATE ALL RELOCATION WORK WITH THE APPROPRIATE UTILITY COMPANY AND/OR OWNER PRIOR TO ANY EXCAVATION WORK.
3. FIELD VERIFY ALL MEASUREMENTS AND INVERTS PRIOR TO START OF WORK. IMMEDIATELY NOTIFY ARCHITECT OF DISCREPANCIES BEFORE WORK COMMENCES.
4. ALL SITE ELECTRICAL WORK MAY NOT BE SHOWN ON THE CIVIL SITE DRAWINGS, SITE ELECTRICAL IS SHOWN FOR REFERENCE PURPOSES ONLY. REFER TO ELECTRICAL PLANS IN THIS CONSTRUCTION PACKAGE FOR ELECTRICAL DEMOLITION, RELOCATION, AND NEW INSTALLATION.
5. REFER TO ELECTRICAL PLANS FOR TELEPHONE, FIBER OPTICS EQUIPMENT AND CONDUIT, FOR LOCATIONS, DETAILS AND SPECIFICATIONS. COORDINATE WITH UTILITY COMPANY FOR TIE IN LOCATION AND SPECIFICATIONS.

DESIGN WEST
ARCHITECTS, P.A.
• MERIDIAN, IDAHO • PULLMAN, WASHINGTON •
• KENNEWICK, WASHINGTON • ONTARIO OREGON •
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DRAWN BY
SJT

CHECKED BY
PTK/ASW

JOB NUMBER
19153

REVISIONS

KNUTZEN ENGINEERING
5401 RIDGELINE DR.
SUITE 160
KENNEWICK, WA 99338
1-509-222-0959
www.knutzenengineering.com

CADFILE: 19153C001

REGISTERED PROFESSIONAL ENGINEER
83108PE
OREGON
JULY 14, 2009
PAUL T. KNUTZEN
EXPIRATION DATE: 06/30/2021

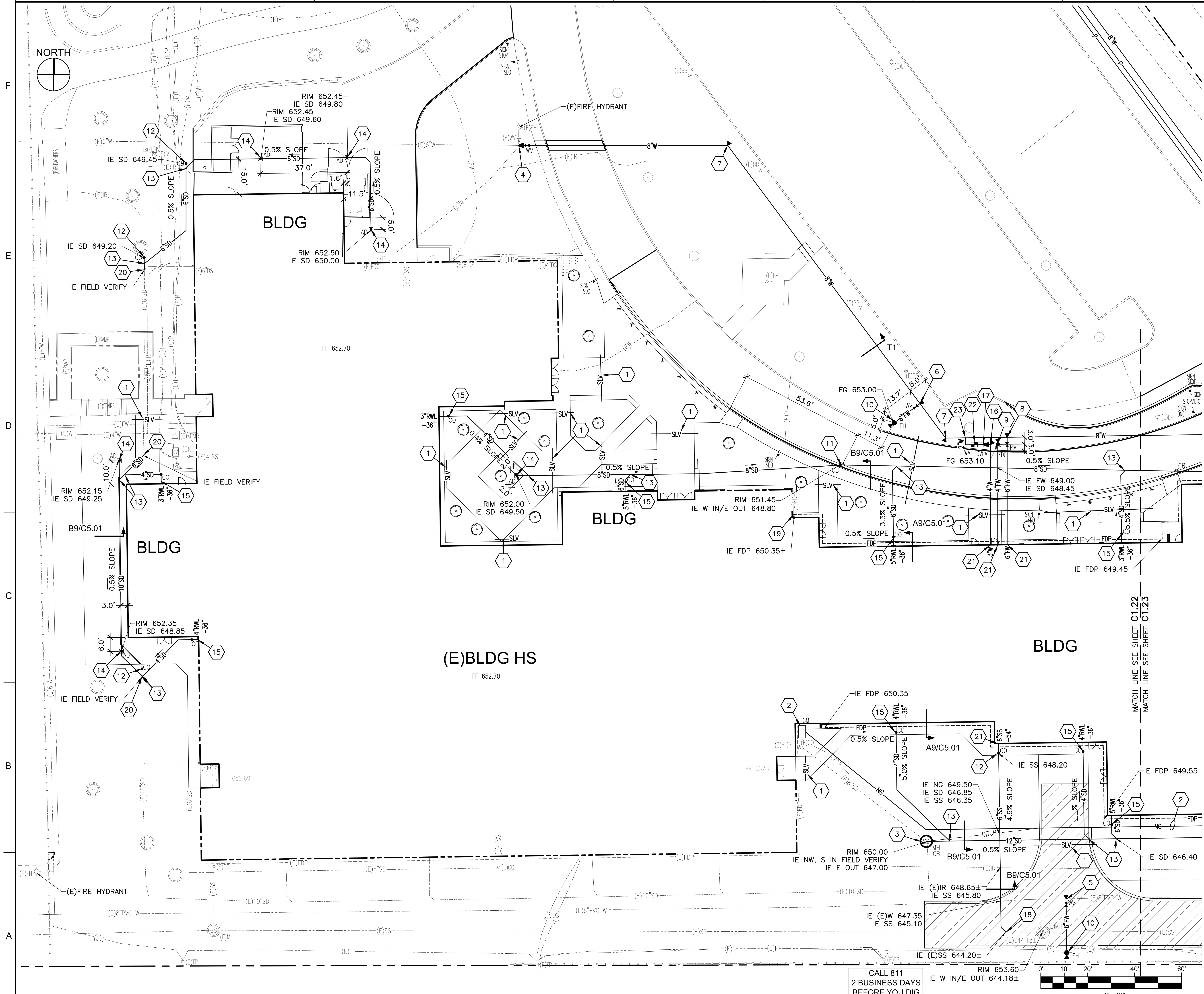
STANFIELD ADDITION

1120 N Main St, Stanfield, OR

DATE
01-27-20

SHEET NAME
PARTIAL UTILITY PLAN

SHEET
C1.21



A1 PARTIAL UTILITY PLAN
SCALE: 1" = 20'-0"

KEY NOTES

1. 4" IRRIGATION SLEEVE (SLV), TYPICAL. COORDINATE LOCATIONS WITH LANDSCAPE PLANS
2. TIE NATURAL GAS METER AND LINE INTO EXISTING, COORDINATE WITH GAS COMPANY AND MECHANICAL FOR METER LOCATION
3. STORM MANHOLE, RECONNECT EXISTING STORM PIPES AND ROUTE TO NEW SWALE, SEE DETAIL D1/C5.02
4. CONNECT NEW 8" WATER MAIN TO EXISTING 6" WATER MAIN WITH NEW 6"TEE, 8"x6" REDUCER, 8" GATE VALVE AND THRUST BLOCK, PER CITY STD DETAILS W4, W5 AND W6
5. CUT IN 8"x6" TEE WITH 6" GATE VALVE AND THRUST BLOCK, PER CITY STD DETAILS W4, W5 AND W6
6. 8"x6" TEE WITH 6" GATE VALVE AND THRUST BLOCK, PER CITY STD DETAILS W4, W5 AND W6
7. 45° BEND WITH THRUST BLOCK, PER CITY STD DETAIL W9
8. 8"x6" TEE WITH 6" PIV VALVE AND THRUST BLOCK, PER CITY STD DETAILS W4, W5 AND W6
9. FIRE DEPARTMENT CONNECTION (FDC), COORDINATE REQUIREMENTS WITH FIRE DEPARTMENT
10. FIRE HYDRANT, PER CITY STD DETAIL W6
11. CATCH BASIN, SEE DETAIL A2/C5.01
12. CLEANOUT TO GRADE, SEE DETAIL A1/C5.01
13. WYE CONNECTION
14. AREA DRAIN, SEE DETAIL A7/C5.01
15. RAINWATER LEADER 3.0' BELOW FINISH FLOOR, COORDINATE WITH ARCHITECTURAL AND MECHANICAL FOR LOCATION
16. 90° BEND WITH THRUST BLOCK, PER CITY STD DETAIL W9
17. 2" DCVA WITH 4"x2" REDUCER, SEE DETAIL A4/C5.01
18. TIE SEWER SERVICE LINE INTO EXISTING SEWER MAIN, CONTRACTOR TO VERIFY INVERT AND LOCATION
19. TIE EXISTING FOUNDATION DRAINS INTO NEW FOUNDATION DRAIN SYSTEM, FIELD VERIFY INVERT AND LOCATION
20. TIE NEW STORM PIPE INTO EXISTING STORM PIPE, FIELD VERIFY INVERT AND LOCATION
21. REFER TO MECHANICAL FOR PIPE CONTINUATION INTO BUILDING
22. 2" WATER METER, PER CITY STD DETAIL W3
23. 8"x2" WATER SERVICE CONNECTION, PER CITY STD DETAIL W1

NOTES

1. SEE DRAWING C0.01 FOR GENERAL NOTES AND LEGEND.
2. ALL UNDERGROUND UTILITIES ON THE SITE MAY NOT BE SHOWN. FIELD LOCATE AND VERIFY ALL UNDERGROUND UTILITIES. COORDINATE ALL RELOCATION WORK WITH THE APPROPRIATE UTILITY COMPANY AND/OR OWNER PRIOR TO ANY EXCAVATION WORK.
3. FIELD VERIFY ALL MEASUREMENTS AND INVERTS PRIOR TO START OF WORK. IMMEDIATELY NOTIFY ARCHITECT OF DISCREPANCIES BEFORE WORK COMMENCES.
4. ALL SITE ELECTRICAL WORK MAY NOT BE SHOWN ON THE CIVIL SITE DRAWINGS, SITE ELECTRICAL IS SHOWN FOR REFERENCE PURPOSES ONLY. REFER TO ELECTRICAL PLANS IN THIS CONSTRUCTION PACKAGE FOR ELECTRICAL DEMOLITION, RELOCATION, AND NEW INSTALLATION.
5. REFER TO ELECTRICAL PLANS FOR TELEPHONE, FIBER OPTICS EQUIPMENT AND CONDUIT, FOR LOCATIONS, DETAILS AND SPECIFICATIONS. COORDINATE WITH UTILITY COMPANY FOR TIE IN LOCATION AND SPECIFICATIONS.
6. REFER TO MECHANICAL FOR GAS METER AND COORDINATE WITH GAS COMPANY FOR CONDUIT LOCATION AND SPECIFICATIONS.
7. BACKFLOW PROTECTION IS INSTALLED INSIDE THE BUILDING.

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STANFIELD ADDITION
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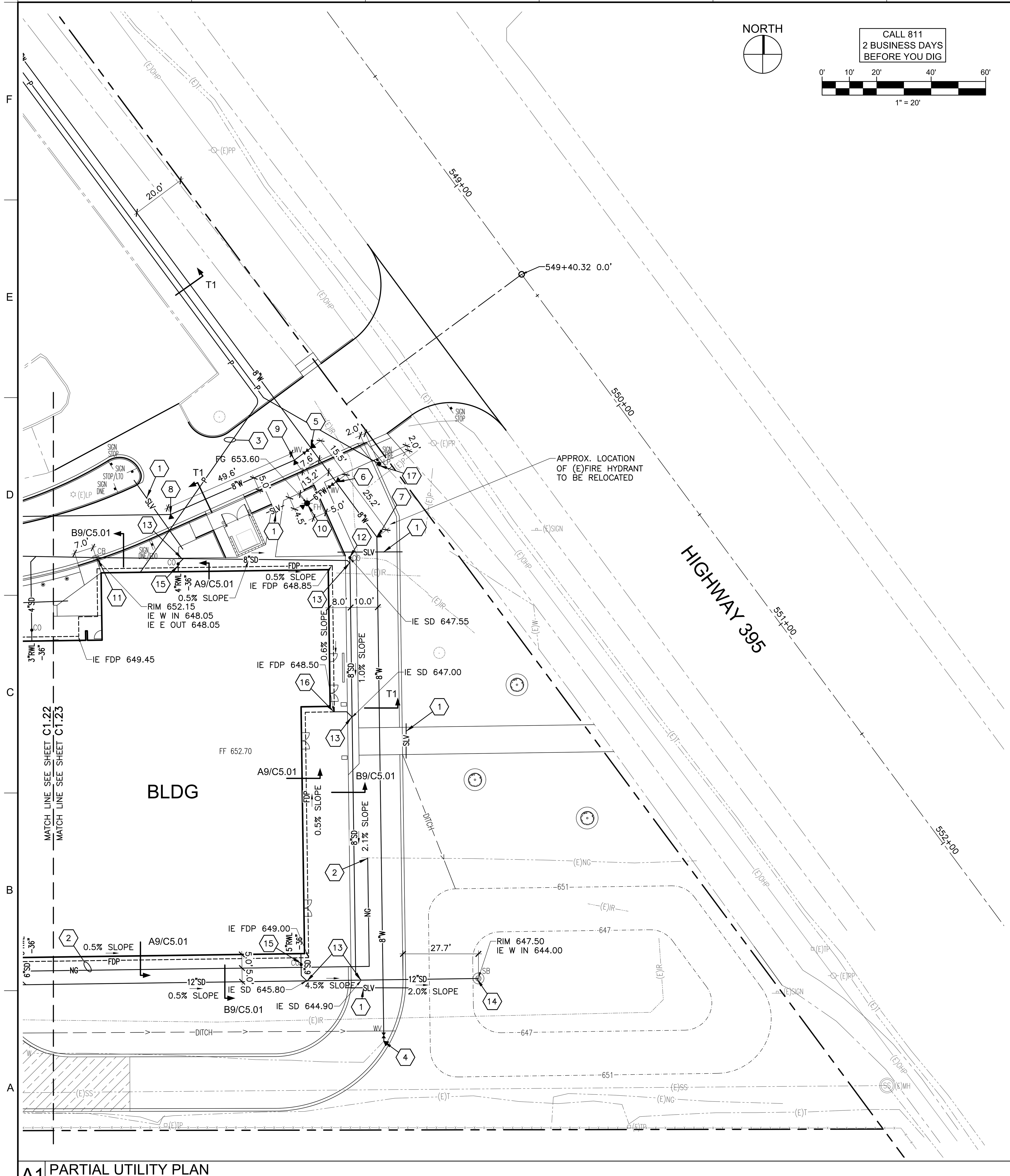
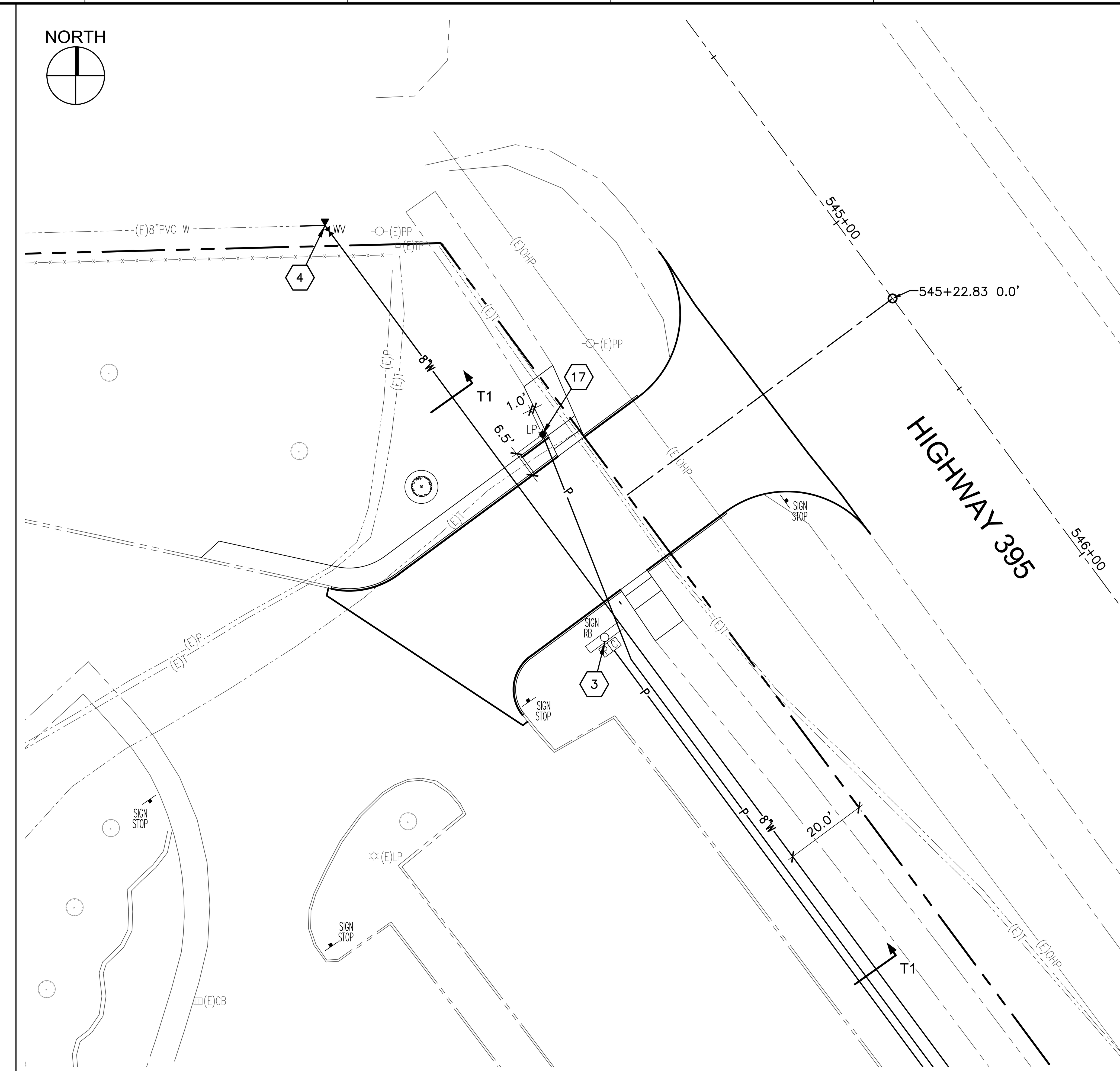
SHEET NAME
PARTIAL UTILITY PLAN

SHEET
C1.22



A1 PARTIAL UTILITY PLAN

SCALE: 1" = 20'-0"



C6 PARTIAL UTILITY PLAN

SCALE: 1" = 20'-0"

KEY NOTES

1. 4" IRRIGATION SLEEVE (SLV), TYPICAL. COORDINATE LOCATIONS WITH LANDSCAPE PLANS
2. TIE NATURAL GAS LINE INTO EXISTING, COORDINATE WITH GAS COMPANY
3. POWER/FIBEROPTICS/TELEPHONE/COMMUNICATIONS/DATA LINE, REFER TO ELECTRICAL FOR CONDUITS, VAULTS AND DETAILS, COORDINATE WORK WITH UTILITY COMPANIES
4. CONNECT NEW 8" WATER MAIN TO EXISTING 8" WATER MAIN WITH 45' BEND, 8" GATE VALVE AND THRUST BLOCK, PER CITY STD DETAILS W4, W5 AND W6
5. 8" TEE WITH 8" GATE VALVE AND THRUST BLOCK, PER CITY STD DETAILS W4, W5 AND W6
6. 8"x6" TEE WITH 6" GATE VALVE AND THRUST BLOCK, PER CITY STD DETAILS W4, W5 AND W6
7. 45' BEND WITH THRUST BLOCK, PER CITY STD DETAIL W9
8. 22.5' BEND WITH THRUST BLOCK, PER CITY STD DETAIL W9
9. 11.25' BEND WITH THRUST BLOCK, PER CITY STD DETAIL W9
10. FIRE HYDRANT, PER CITY STD DETAIL W6
11. CATCH BASIN, SEE DETAIL A2/C5.01
12. CLEANOUT TO GRADE, SEE DETAIL A1/C5.01
13. WYE CONNECTION
14. STORM BUBBLER, SEE DETAIL A5/C5.01
15. RAINWATER LEADER 3.0' BELOW FINISH FLOOR, COORDINATE WITH ARCHITECTURAL AND MECHANICAL FOR LOCATION
16. TIE FOUNDATION DRAIN SYSTEM INTO STORM SYSTEM
17. LIGHT POLE, BASE AND ASSOCIATED CONDUIT, REFER TO ELECTRICAL

NOTES

1. SEE DRAWING C0.01 FOR GENERAL NOTES AND LEGEND.
2. ALL UNDERGROUND UTILITIES ON THE SITE MAY NOT BE SHOWN. FIELD LOCATE AND VERIFY ALL UNDERGROUND UTILITIES. COORDINATE ALL RELOCATION WORK WITH THE APPROPRIATE UTILITY COMPANY AND/OR OWNER PRIOR TO ANY EXCAVATION WORK.
3. FIELD VERIFY ALL MEASUREMENTS AND INVERTS PRIOR TO START OF WORK. IMMEDIATELY NOTIFY ARCHITECT OF DISCREPANCIES BEFORE WORK COMMENCES.
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6. REFER TO MECHANICAL FOR GAS METER AND COORDINATE WITH GAS COMPANY FOR CONDUIT LOCATION AND SPECIFICATIONS.

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CADFILE: 19153C001

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OREGON
PAUL T. KNUTZEN
EXPIRATION DATE: 06/30/2021

STANFIELD ADDITION

1120 N Main St, Stanfield, OR

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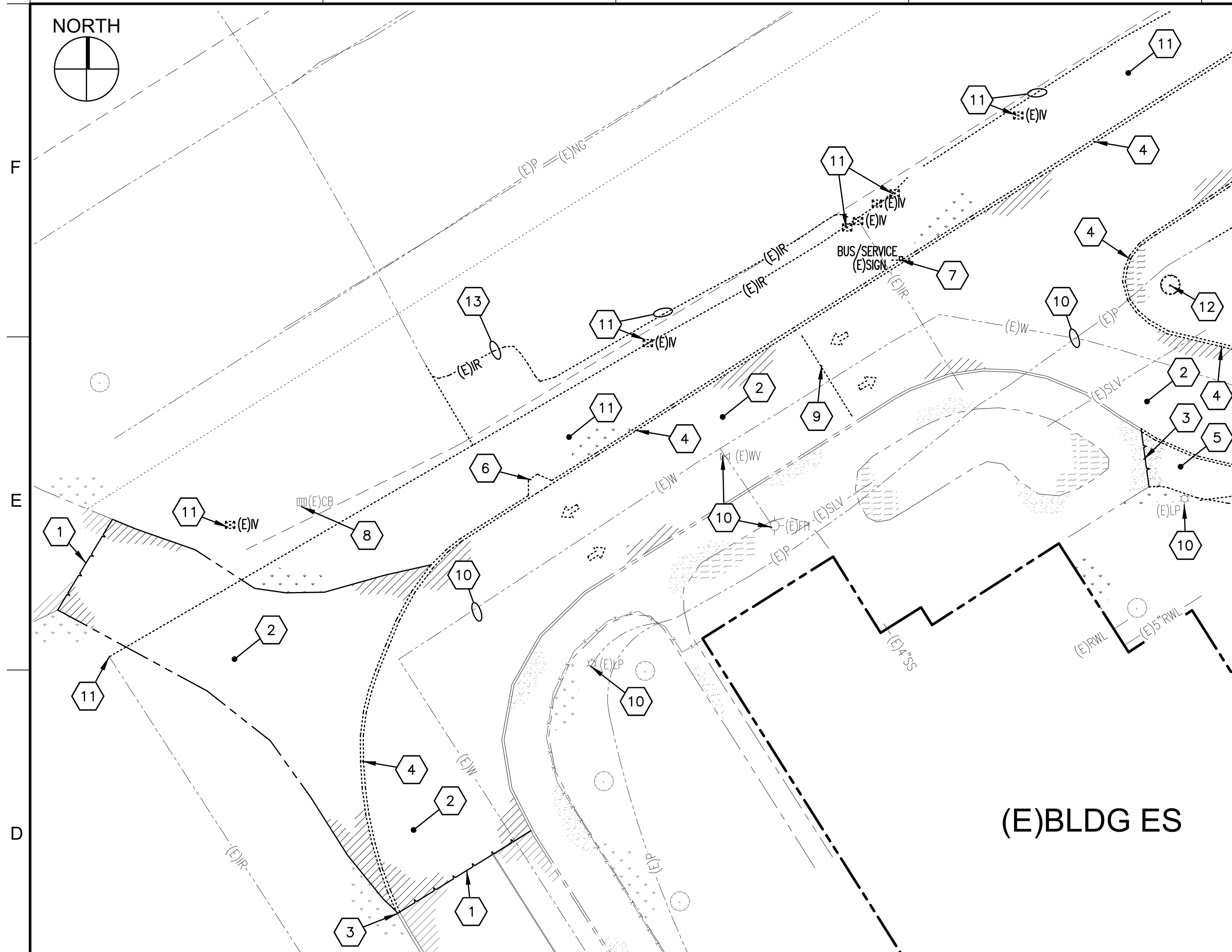
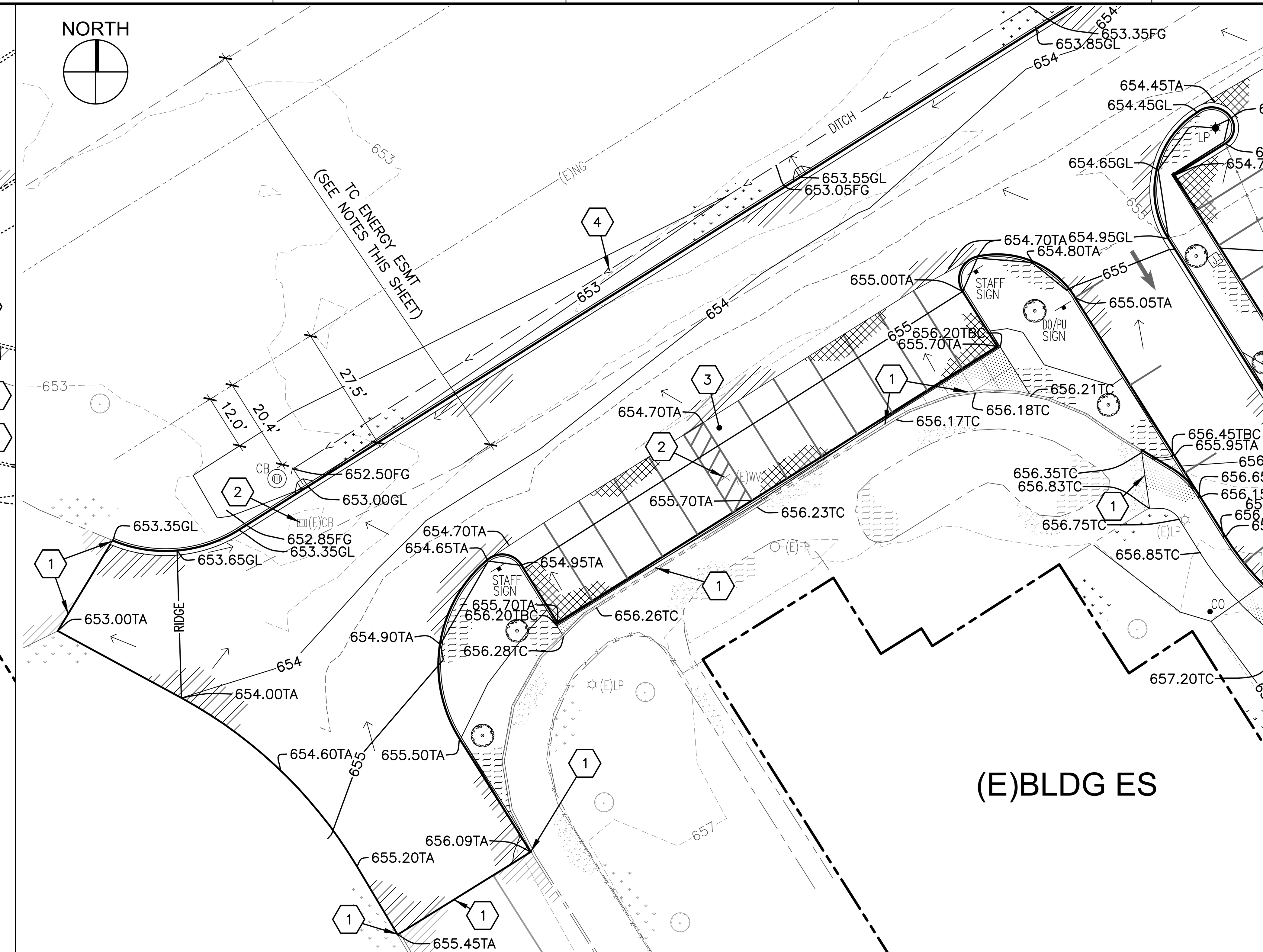
01-27-20

SHEET NAME
PARTIAL UTILITY PLAN

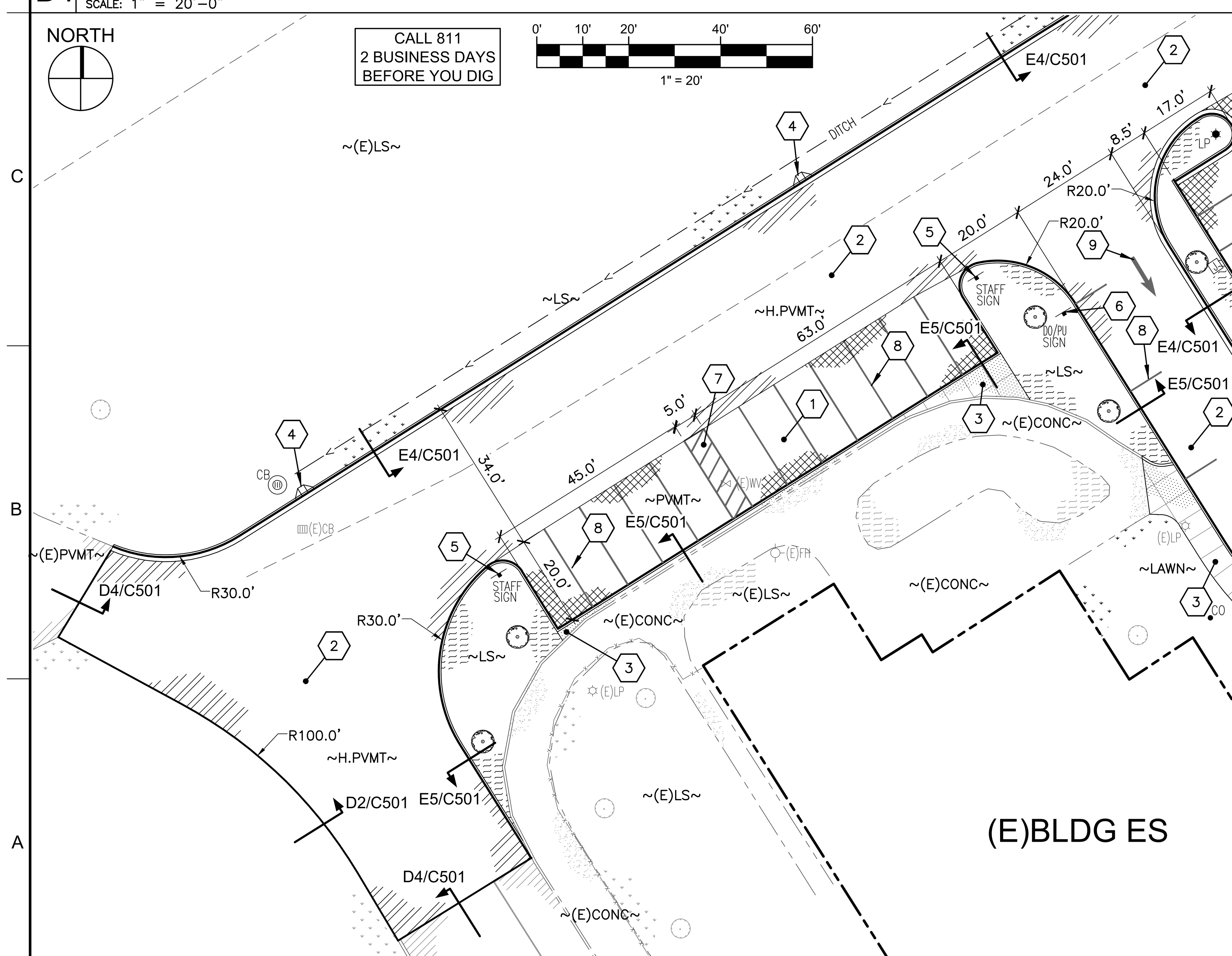
SHEET
C1.23



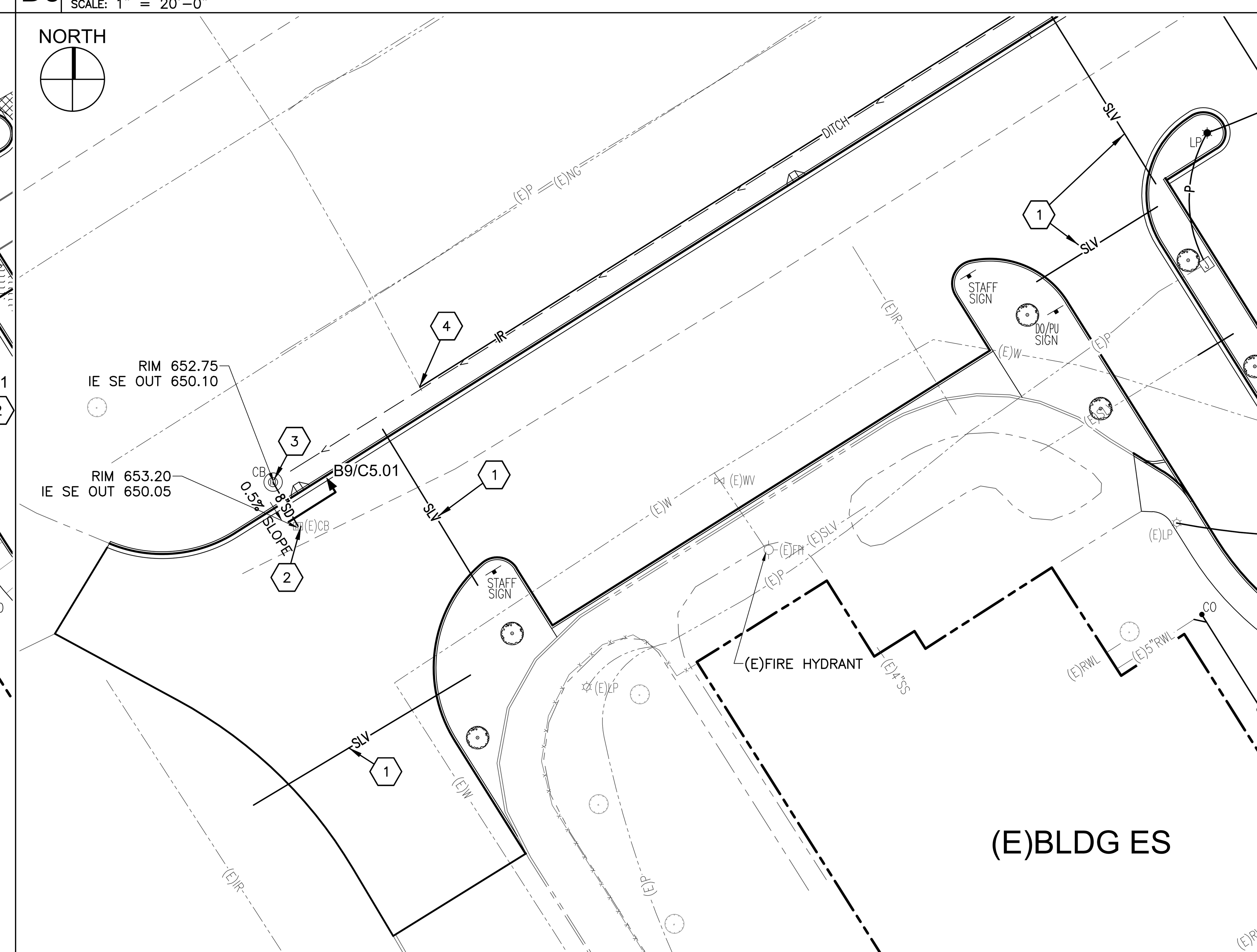
D1 PARTIAL DEMOLITION PLAN-BID ALT 1
SCALE: 1" = 20'-0"



D5 PARTIAL GRADING PLAN-BID ALT 1
SCALE: 1" = 20'-0"



A1 PARTIAL SITE PLAN-BID ALT 1
SCALE: 1" = 20'-0"



D1 PARTIAL UTILITY PLAN-BID ALT 1
SCALE: 1" = 20'-0"

DEMOLITION KEY NOTES

1. SAWCUT ASPHALT, PROVIDE NEAT CUT EDGE
2. REMOVE ASPHALT AND DISPOSE OF PROPERLY, REMOVE GRAVEL BASE AND SALVAGE FOR REUSE
3. SAWCUT, CONCRETE SIDEWALK, AND CONCRETE CURBING AS NECESSARY FOR NEW CONSTRUCTION AT NEAREST EXPANSION/CONTROL JOINT AS INDICATED, PROVIDE NEAT CUT EDGE
4. REMOVE CONCRETE CURBING AND DISPOSE OF PROPERLY
5. REMOVE CONCRETE AND DISPOSE OF PROPERLY, REMOVE GRAVEL BASE AND SALVAGE FOR REUSE
6. REMOVE CONCRETE INLET
7. REMOVE SIGN, POLE AND BASE THEN BACKFILL
8. REMOVE CATCH BASIN LID AND REPLACE WITH SOLID LID AT NEW GRADE
9. REMOVE SPEED BUMP
10. PROTECT UTILITY IN PLACE
11. REMOVE LAWN AND/OR LANDSCAPING, IRRIGATION LINES, CONTROLS AND VALVES FOR NEW CONSTRUCTION
12. REMOVE TREE AND ROOTS, THEN BACKFILL WITH STRUCTURAL FILL
13. REMOVE PORTION OF IRRIGATION MAIN FOR RELOCATION

SITE KEY NOTES

1. STANDARD ASPHALT SECTION – 2-1/2" THICK ASPHALT OVER 6" TOP COURSE PER WSDOT 9-03.9(3)
2. HEAVY ASPHALT SECTION – 3" THICK ASPHALT OVER 9" TOP COURSE PER WSDOT 9-03.9(3)
3. STANDARD CONCRETE SECTION – 4" THICK CONCRETE SIDEWALK OVER 4" TOP COURSE PER WSDOT 9-03.9(3). TROWEL CONTROL JOINTS AT 5' O.C. AND INSTALL EXPANSION JOINTS AT 30' O.C.
4. CONCRETE CURB INLET, SEE DETAIL B4/C501
5. "STAFF ONLY PARKING" SIGN
6. "DROP OFF/PICK UP" SIGN
7. PAINT 4" WIDE WHITE NO PARKING STRIPE, WITH 36" SPACE, TYPICAL
8. PAINT 4" WHITE PARKING STRIPE, TYP
9. PAINT WHITE ELONGATED DIRECTIONAL ARROWS AS SHOWN ON PLAN PER MUTCD AND CITY STANDARDS

GRADING KEY NOTES

1. MEET AND MATCH EXISTING ELEVATION
2. RAISE EXISTING LID TO NEW GRADE ELEVATIONS
3. MAXIMUM 2% CROSS SLOPE AND 5% SLOPE IN DIRECTION OF TRAVEL IN NEW PARKING AREA
4. V-DITCH- 0.50' DEEP WITH 10:1 MAXIMUM SIDE SLOPES, V-DITCH SLOPE SHALL HAVE MAXIMUM BOTTOM ELEVATION SLOPE OF 0.5%

UTILITY KEY NOTES

1. 4" IRRIGATION SLEEVE (SLV), TYPICAL. COORDINATE LOCATIONS WITH LANDSCAPE PLANS
2. TIE NEW STORM LINE INTO EXISTING CATCH BASIN, REPLACE LID WITH SOLID LID AND ADJUST TO NEW GRADE
3. CATCH BASIN, SEE DETAIL A5/C5.01
4. REROUTE IRRIGATION MAIN OUT OF NEW DRIVE

NOTES

1. SEE SHEET C0.01 FOR GENERAL NOTES AND LEGEND.
2. SEE SHEET C0.11 FOR DEMOLITION NOTES.
3. SEE SHEET C1.01 FOR SITE NOTES.
4. SEE SHEET C1.11 FOR GRADING NOTES.
5. SEE SHEET C1.21 FOR UTILITY NOTES.

TC ENERGY NOTES

1. NO GROUND DISTURBANCE SHALL BE MADE WITHIN TC ENERGY'S RIGHT OF WAY OR WITHIN 25.0' MEASURED AT RIGHT ANGLES, OF OUR PIPELINES(S) EXCEPT IN THE PRESENCE OF OUR COMPANY REPRESENTATIVE.
2. NOTICE OF AT LEAST SEVENTY-TWO (72) HOURS IN ADVANCE OF CONSTRUCTION MUST BE PROVIDED. KNUTZZEN ENGINEERING MUST CONTACT THE FOLLOWING TC ENERGY FIELD REPRESENTATIVES: NEIL ISLEY (CELL)509-948-5407. TC ENERGY WILL ARRANGE FOR A REPRESENTATIVE TO BE ON SITE WHEN WORK IS OCCURRING ON OR NEAR THE RIGHT OF WAY AREA, OR WITHIN 25.0' OF THE PIPELINES. AFTER HOURS CALL 1-800-447-8066.

DESIGN WEST ARCHITECTS, P.A.
MERIDIAN, IDAHO • PULLMAN, WASHINGTON • KENNEWICK, WASHINGTON • ONTARIO OREGON
www.designwestpa.com

DRAWN BY: SJT
CHECKED BY: PTK/ASW
JOB NUMBER: 19153
REVISIONS

KNUTZEN ENGINEERING
CADFILE: 19153C001

REGISTERED PROFESSIONAL ENGINEER 83106PE OREGON JULY 14, 2009 PAUL T. KNUTZEN
EXPIRATION DATE: 06/30/2021

STANFIELD ADDITION
1120 N Main St, Stanfield, OR

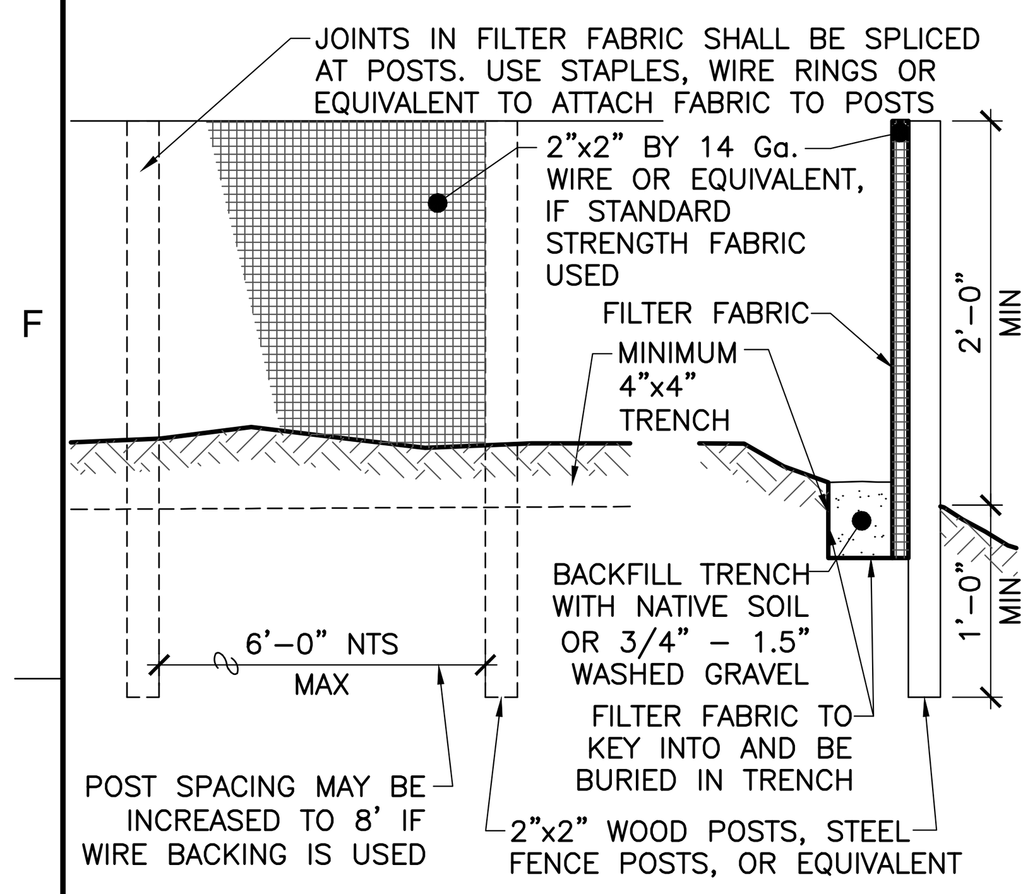
DATE: 01-27-20

SHEET NAME: BID ALT 1 PLAN

SHEET: C4.01

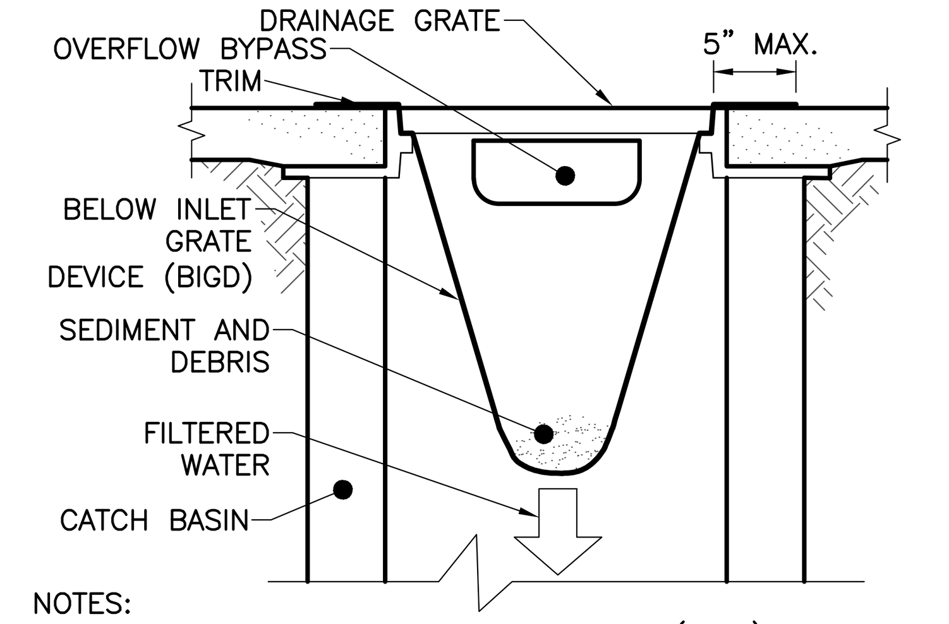
E1 SILT FENCE

SCALE: 1" = 1'-0" REF: C0.05



E2 INLET PROTECTION

SCALE: 1" = 1'-0" REF: C0.05

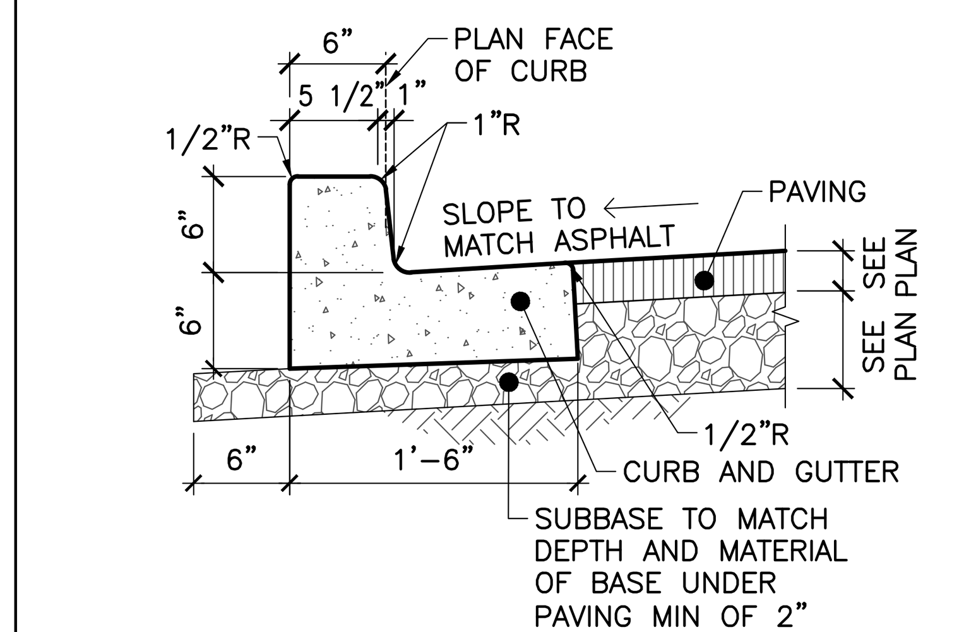


NOTES:

1. SIZE THE BELOW INLET GRATE DEVICE (BIGD) FOR THE STORMWATER STRUCTURE IT WILL SERVE.
2. THE BIGD SHALL HAVE A BUILT-IN HIGH-FLOW RELIEF SYSTEM (OVERFLOW BYPASS).
3. THE RETRIEVAL SYSTEM MUST ALLOW REMOVAL OF BIGD WITHOUT SPILLING THE COLLECTED MATERIAL.
4. PERFORM MAINTENANCE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 8.01.3.

E4 CURB AND GUTTER

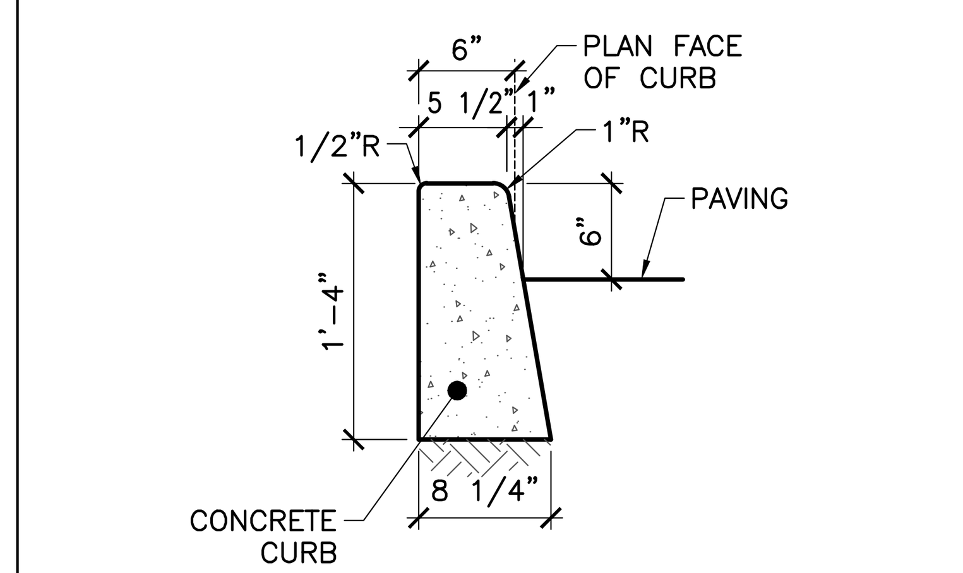
SCALE: 1" = 1'-0" REF: C1.01, C1.02, C1.03, C4.01



NOTES: INSTALL DUMMY JOINTS AT 10'-0" C/C, AND 1/2" EXPANSION JOINTS EVERY 30'-0" AND AT START AND END OF CURVES.

E5 STANDARD CURB

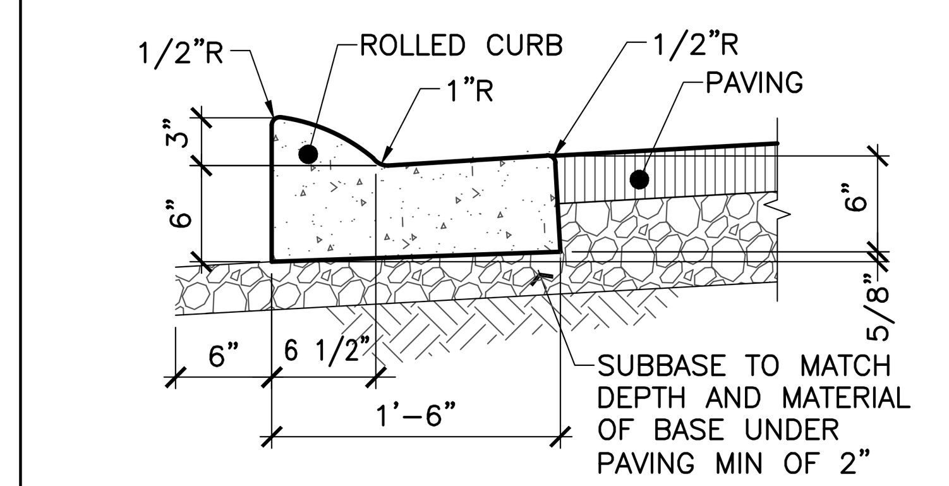
SCALE: 1" = 1'-0" REF: C1.01, C1.02, C1.03, C4.01



NOTES: INSTALL DUMMY JOINTS AT 10'-0" C/C, AND 1/2" EXPANSION JOINTS EVERY 30'-0" AND AT START AND END OF CURVES.

E7 ROLL CURB

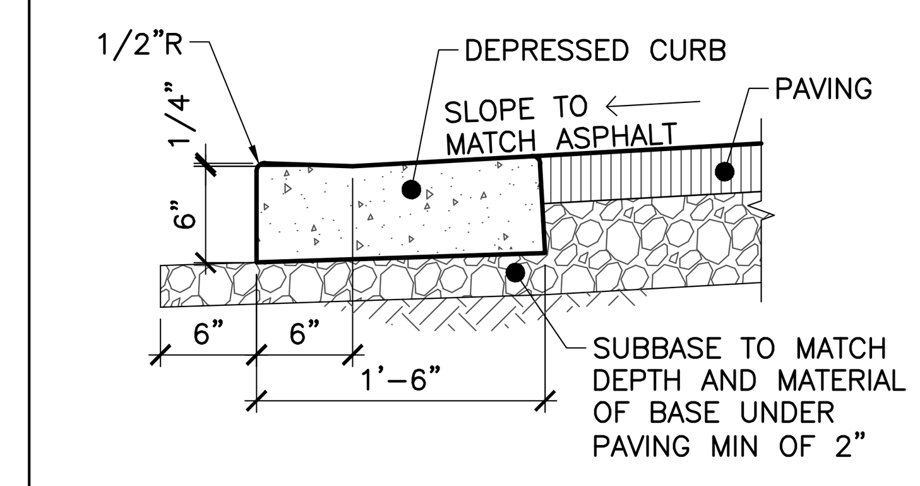
SCALE: 1" = 1'-0" REF: C1.03



INSTALL DUMMY JOINTS AT 10'-0" C/C AND 1/2" EXPANSION JOINTS AT 30'-0" AND AT START AND END OF CURVES.

E9 FLUSH GUTTER

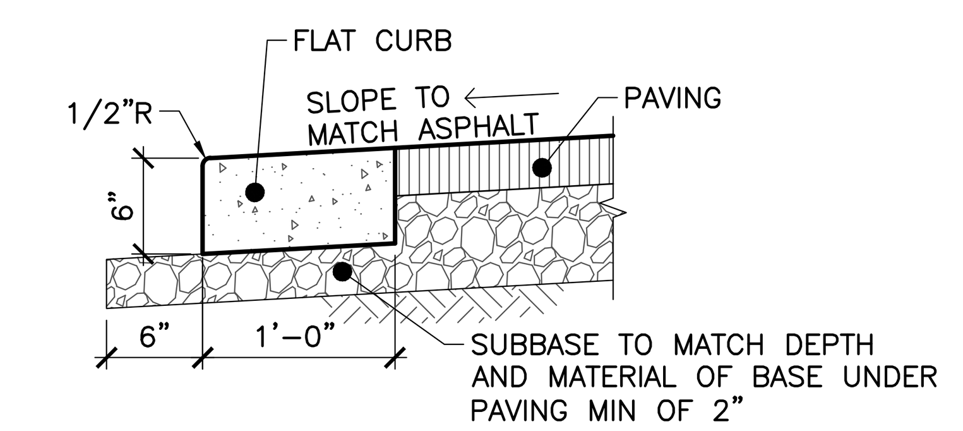
SCALE: 1" = 1'-0" REF: C1.01, C1.02, C1.03



NOTES: INSTALL DUMMY JOINTS AT 10'-0" C/C, AND 1/2" EXPANSION JOINTS EVERY 30'-0" AND AT START AND END OF CURVES.

D1 FLUSH CURB

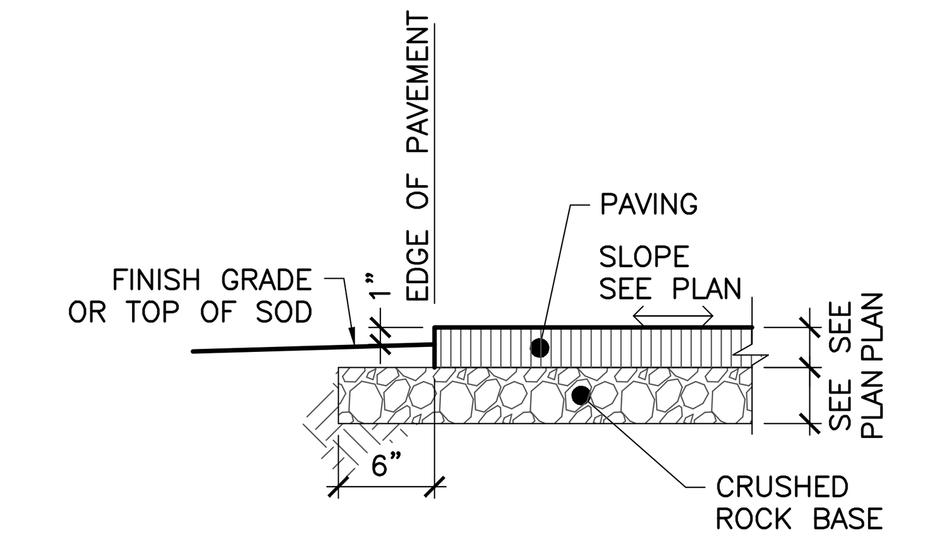
SCALE: 1" = 1'-0" REF: C1.01, C1.02, C1.03



NOTES: INSTALL DUMMY JOINTS AT 10'-0" C/C, AND 1/2" EXPANSION JOINTS EVERY 30'-0" AND AT START AND END OF CURVES.

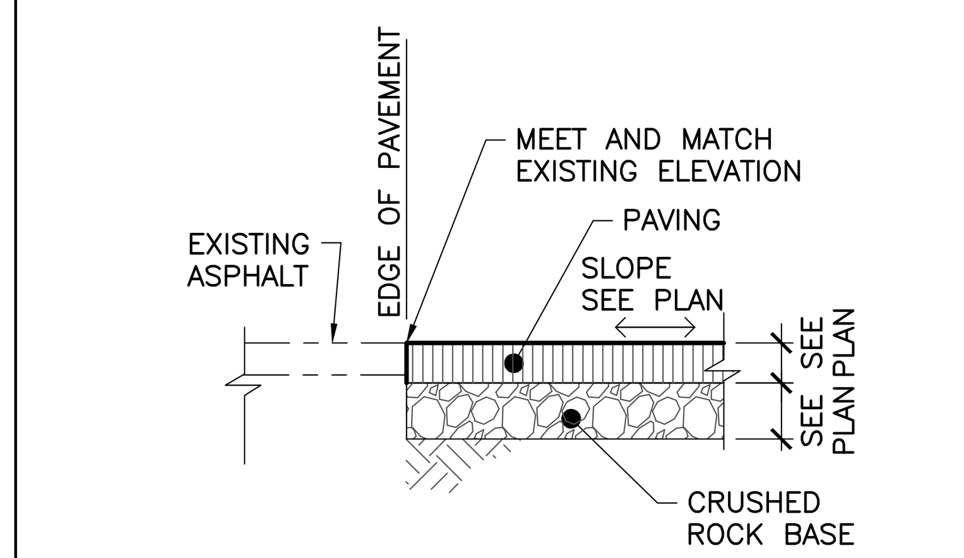
D2 EDGE OF ASPHALT

SCALE: 1" = 1'-0" REF: C1.01, C4.01



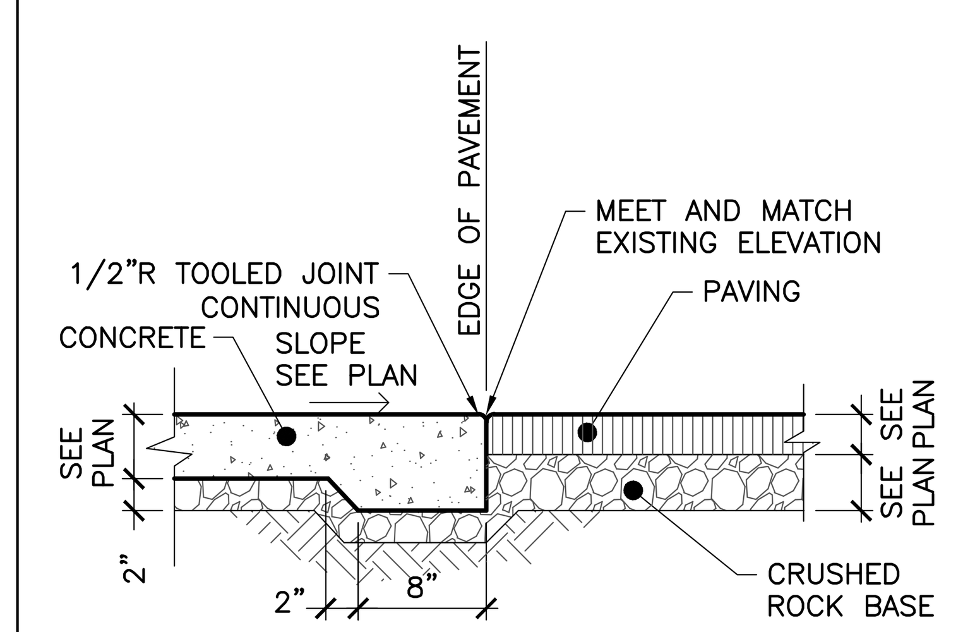
D4 ASPHALT TO EXISTING

SCALE: 1" = 1'-0" REF: C1.01, C1.02, C1.03, C4.01



D5 FLUSH CONCRETE EDGE

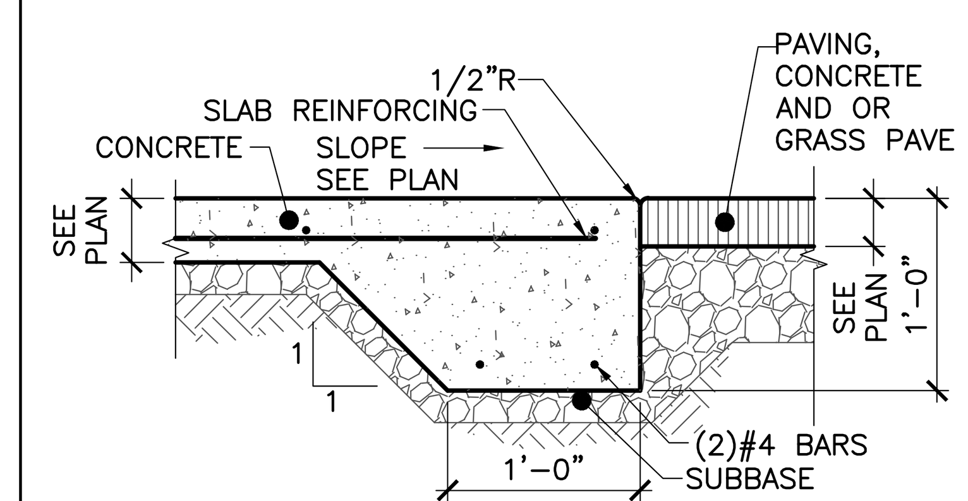
SCALE: 1" = 1'-0" REF: C1.01, C1.02



NOTE: INSTALL DUMMY JOINTS AT 5'-0" C/C AND 1/2" EXPANSION JOINTS AT 30'-0" C/C AND AT TERMINATIONS AGAINST CURB OR SIDEWALK INTERSECTIONS UNLESS NOTED OTHERWISE BY ARCHITECT. SEE ARCHITECTURAL SITE PLAN FOR FINISH REQUIREMENTS.

D7 THICKENED CONCRETE EDGE

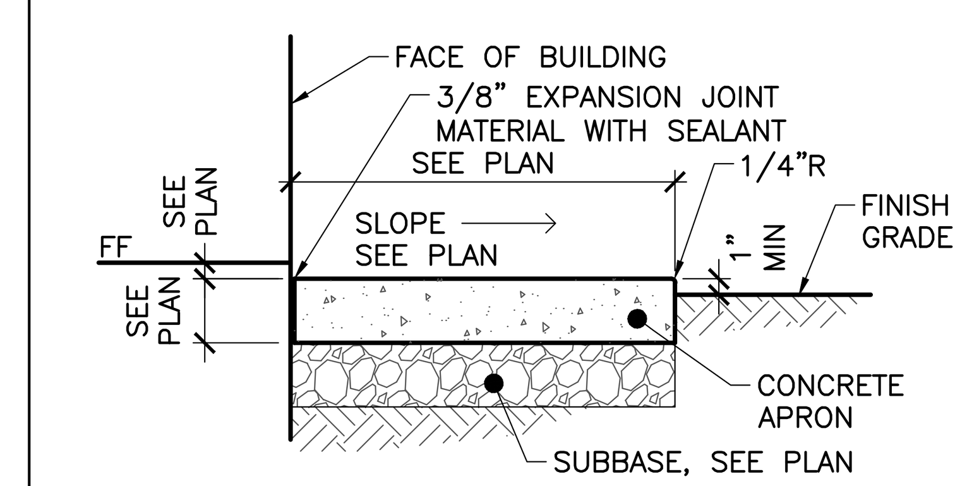
SCALE: 1" = 1'-0" REF: C1.02, C1.03



NOTE: INSTALL DUMMY JOINTS AT 5'-0" C/C AND 1/2" EXPANSION JOINTS AT 30'-0" C/C AND AT TERMINATIONS AGAINST CURB OR SIDEWALK INTERSECTIONS UNLESS NOTED OTHERWISE BY ARCHITECT. SEE ARCHITECTURAL SITE PLAN FOR FINISH REQUIREMENTS.

D9 CONCRETE JOINT AT BUILDING

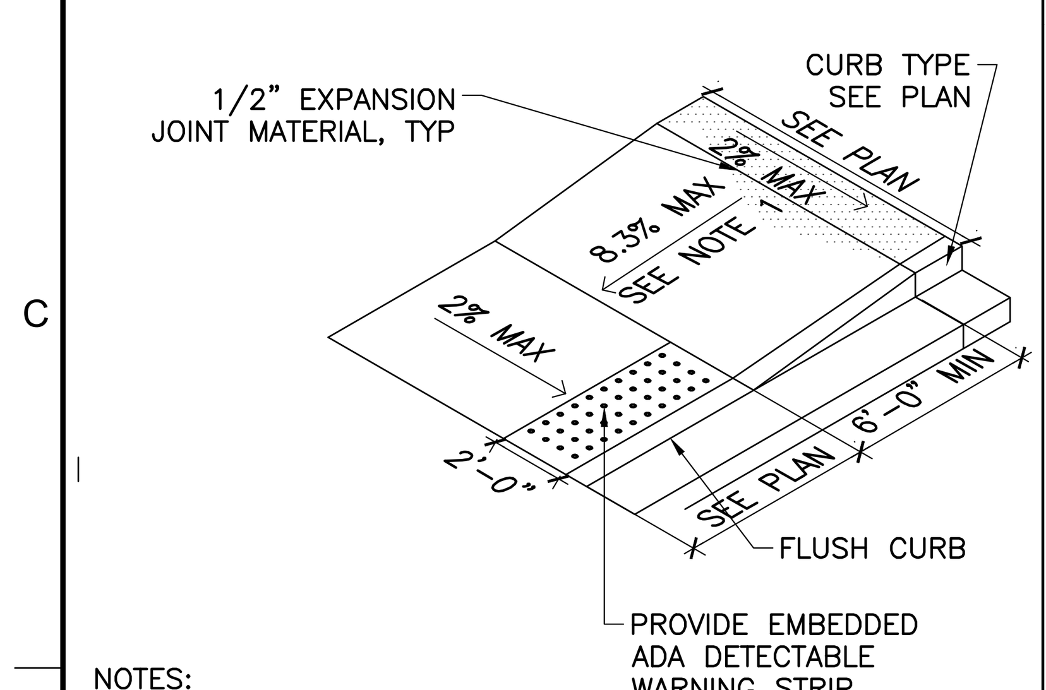
SCALE: 1" = 1'-0" REF: C1.02, C1.03



NOTE: INSTALL DUMMY JOINTS AT 5'-0" C/C AND 1/2" EXPANSION JOINTS AT 30'-0" C/C AND AT TERMINATIONS AGAINST CURB OR SIDEWALK INTERSECTIONS UNLESS NOTED OTHERWISE BY ARCHITECT. SEE ARCHITECTURAL SITE PLAN FOR FINISH REQUIREMENTS.

B1 ACCESSIBLE RAMP

SCALE: 1/4" = 1'-0" REF: C1.01, C1.02, C1.03

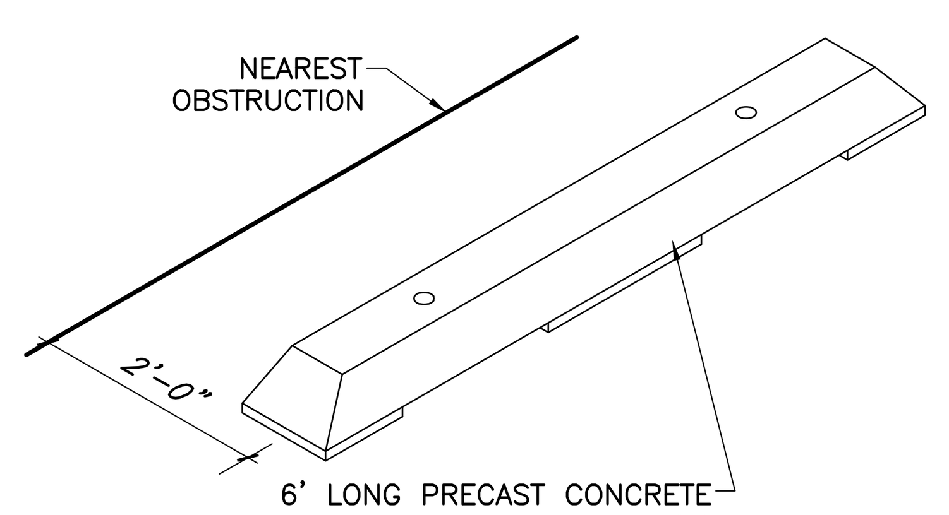


NOTES:

1. THE CURB RAMP RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET. WHEN APPLYING THE 15 FEET MAXIMUM LENGTH, THE RUNNING SLOPE OF THE CURB RAMP SHALL BE AS FLAT AS POSSIBLE.
2. CROSS SLOPE NOT TO EXCEED 2%.

B2 WHEEL STOP

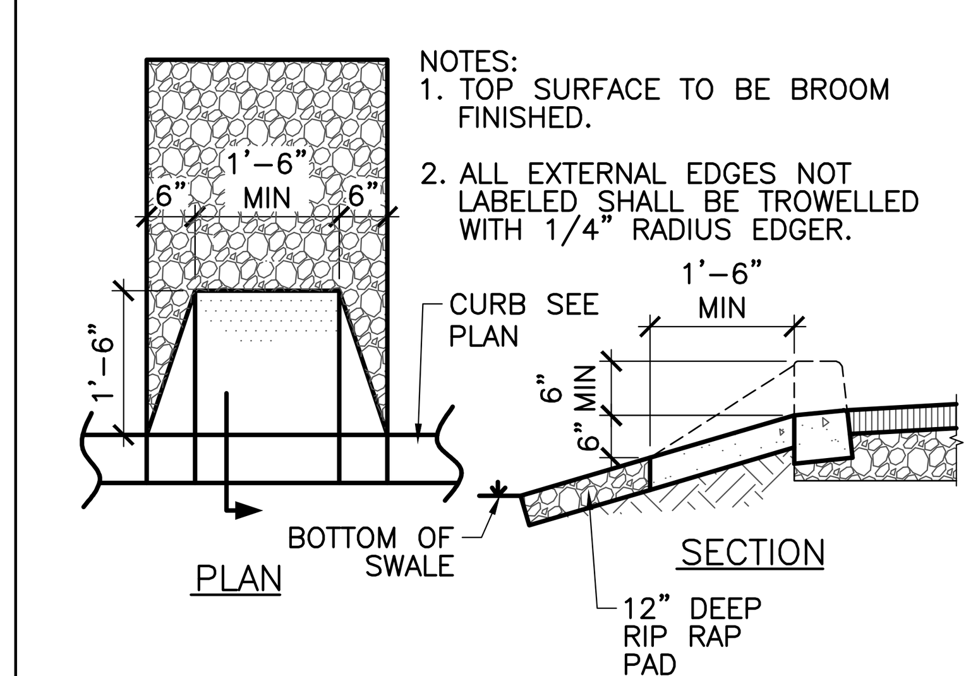
SCALE: 1/2" = 1'-0" REF: C1.01



6' LONG PRECAST CONCRETE PARKING WHEEL STOP WITH (2) HOLES FOR GROUND STAKES, OR 6' LONG RUBBER WHEEL STOP WITH (3) HOLES FOR GROUND STAKES. GROUND STAKES #5 REBAR, 2' LONG

B4 CONCRETE CURB INLET

SCALE: 1/2" = 1'-0" REF: C101

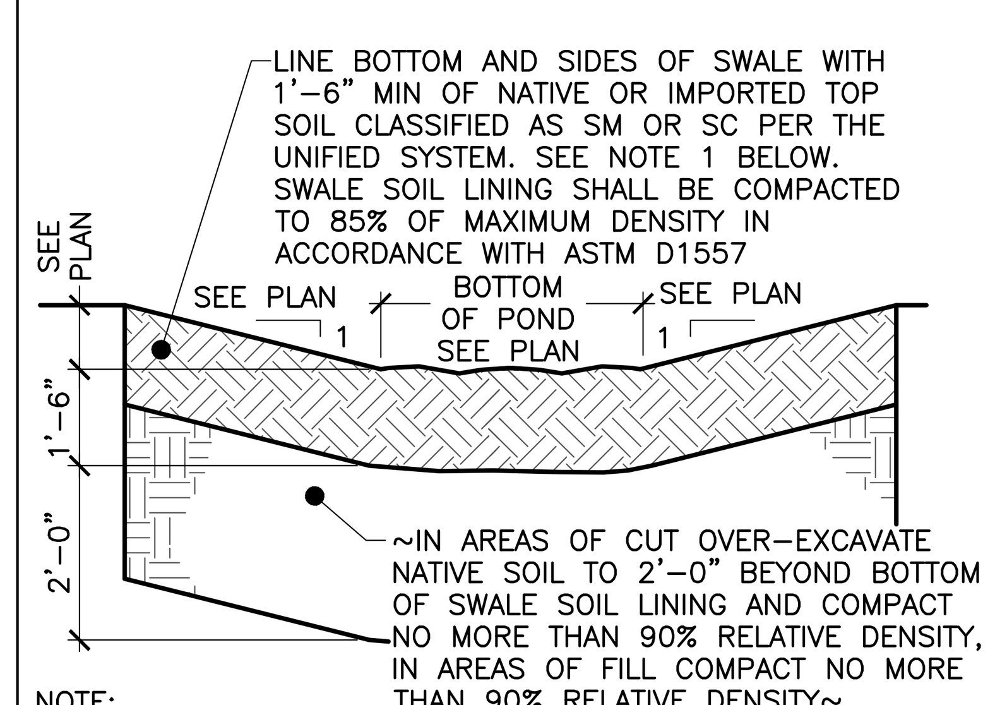


NOTES:

1. TOP SURFACE TO BE BROOM FINISHED.
2. ALL EXTERNAL EDGES NOT LABELED SHALL BE TROWELLED WITH 1/4" RADIUS EDGER.

B5 SWALE

SCALE: 1/2" = 1'-0" REF: C1.11, C1.13

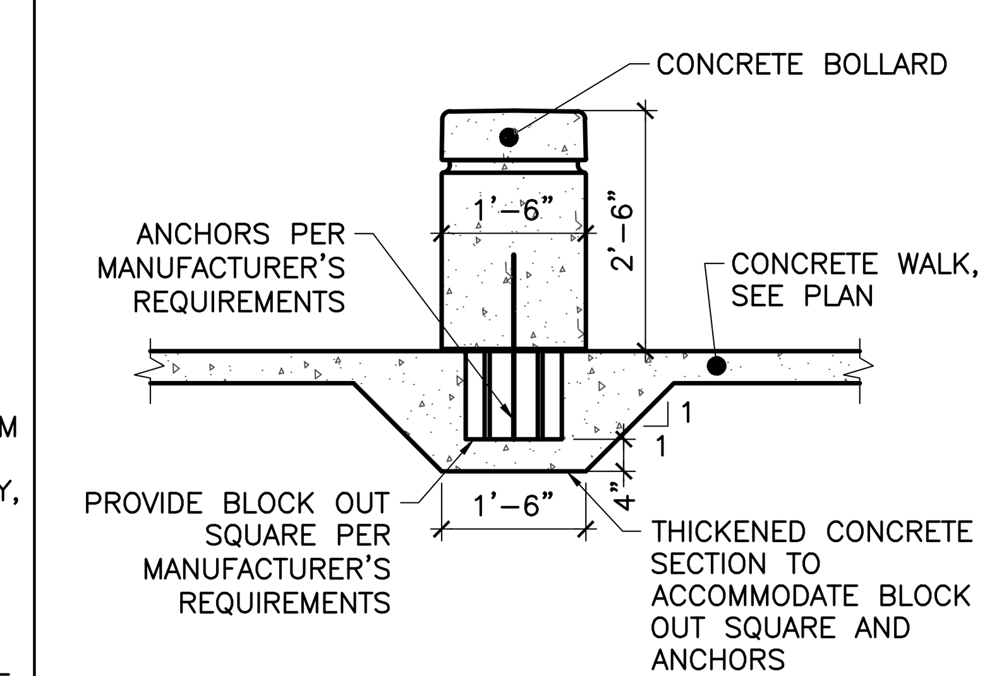


NOTE:

1. SOIL USED TO LINE SWALES SHALL BE CLASSIFIED AND CERTIFIED BY GEOTECHNICAL ENGINEER OR SOILS TESTING AGENCY IN DIRECT EMPLOYMENT OF THE OWNER. SOIL SHALL BE CLASSIFIED PRIOR TO PLACEMENT AND THEN ONE SAMPLE SELECTED AND TESTED FROM EACH SWALE ONCE SWALES ARE READY TO RECEIVE SOD. REPORTING OF THIS TESTING IS TO BE COPIED TO THE ENGINEER OF RECORD.

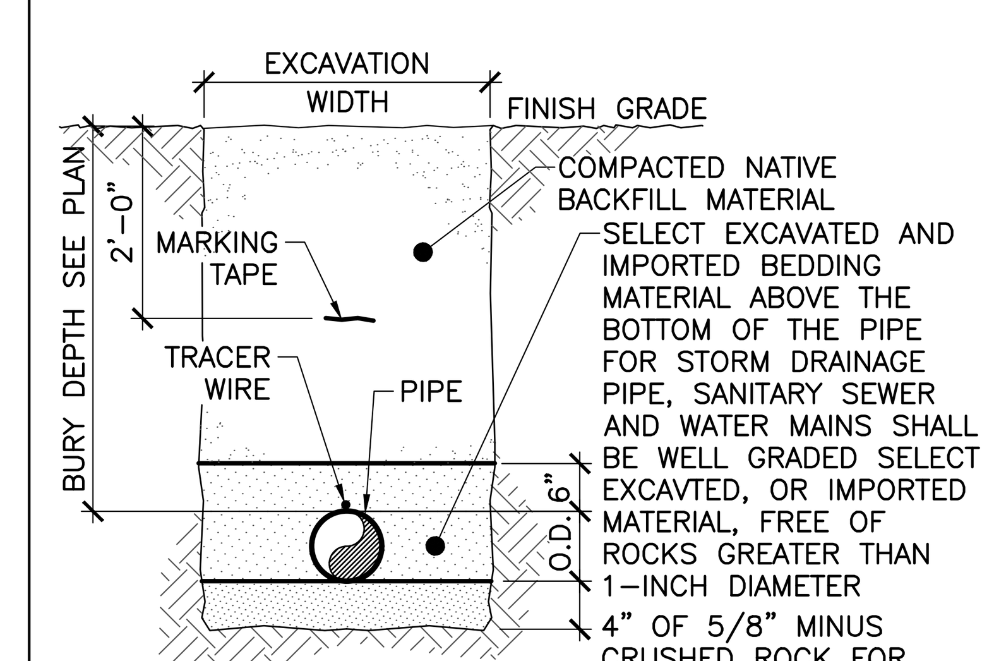
B7 PEDESTRIAN BOLLARD

SCALE: 1/2" = 1'-0" REF: C1.01, C1.02



B9 PIPE TRENCH

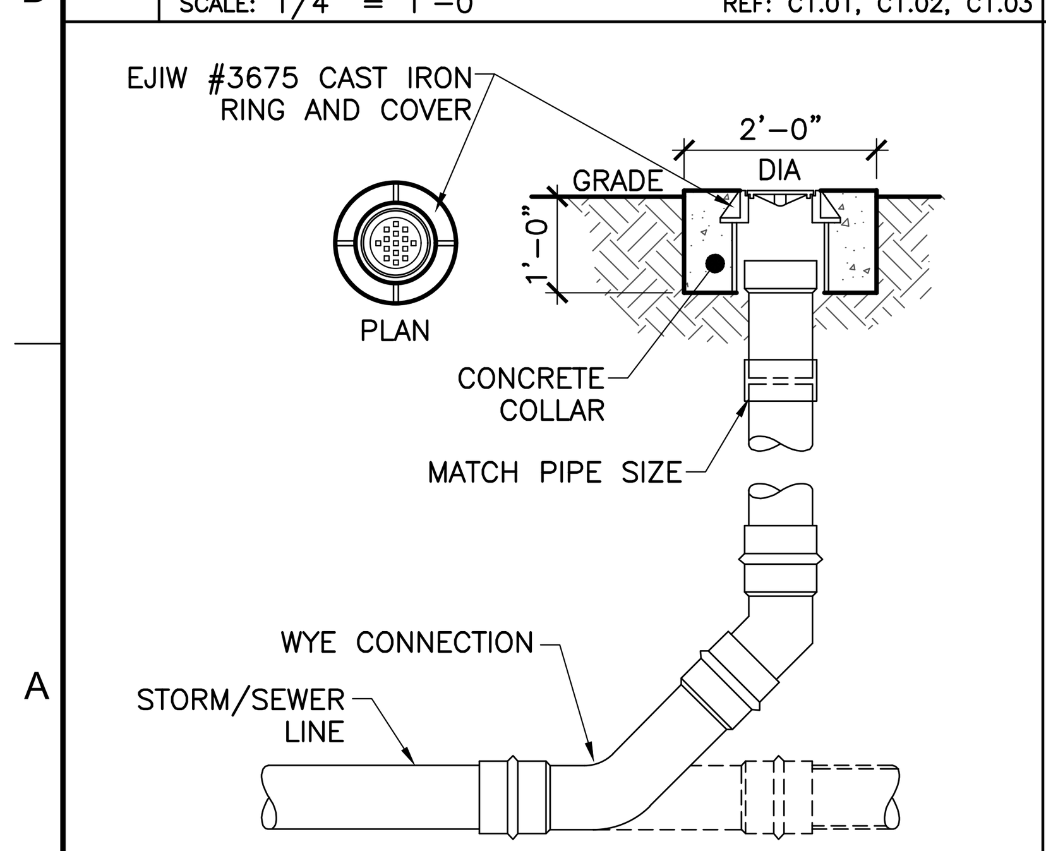
SCALE: 1/2" = 1'-0" REF: C1.21, C1.22, C1.13, C4.01



NOTE: COMPACT BEDDING MATERIAL TO 95% MAXIMUM DENSITY PER ASTM D1557 EXCEPT DIRECTLY OVER THE PIPE, WHERE BEDDING MATERIAL SHALL BE HAND TAMPED ONLY.

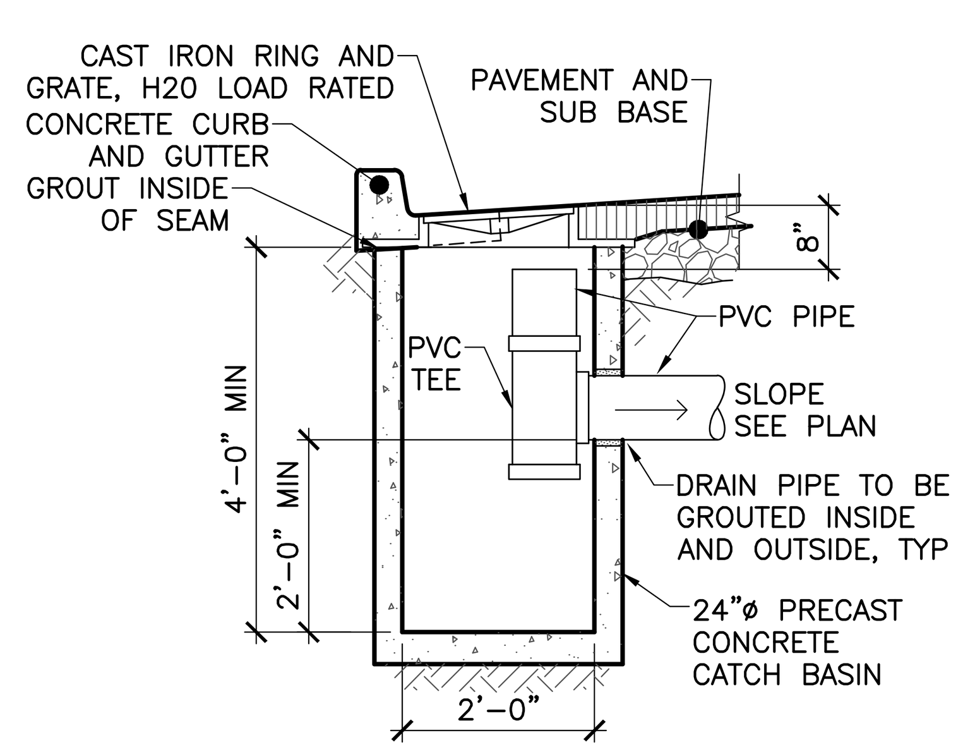
A1 CLEAN OUT TO GRADE

SCALE: 1/2" = 1'-0" REF: C1.21, C1.22, C1.23



A2 CATCH BASIN IN CURB

SCALE: 1/2" = 1'-0" REF: C1.21, C1.22, C1.23

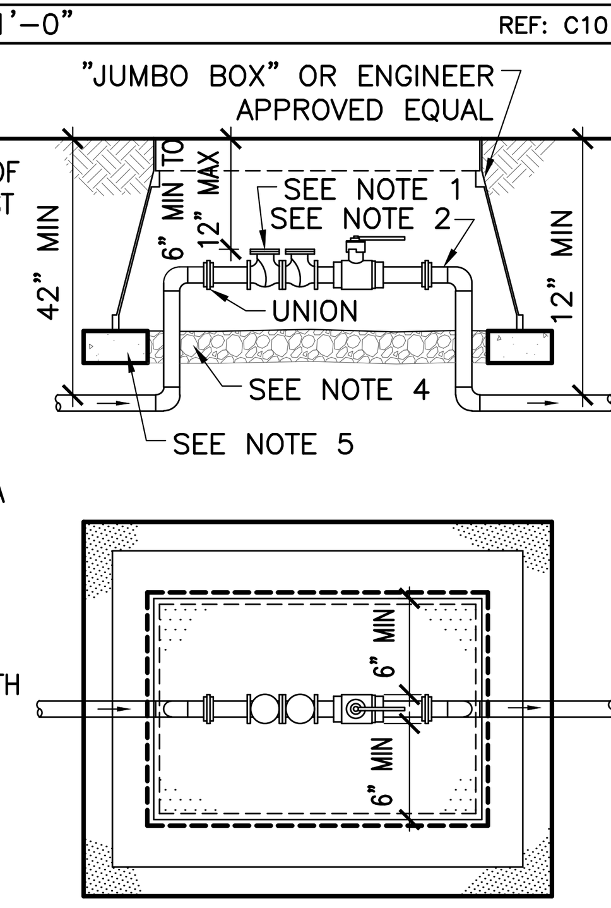


A4 DOUBLE CHECK VALVE ASSEMBLY

SCALE: 1" = 1'-0" REF: C1.22

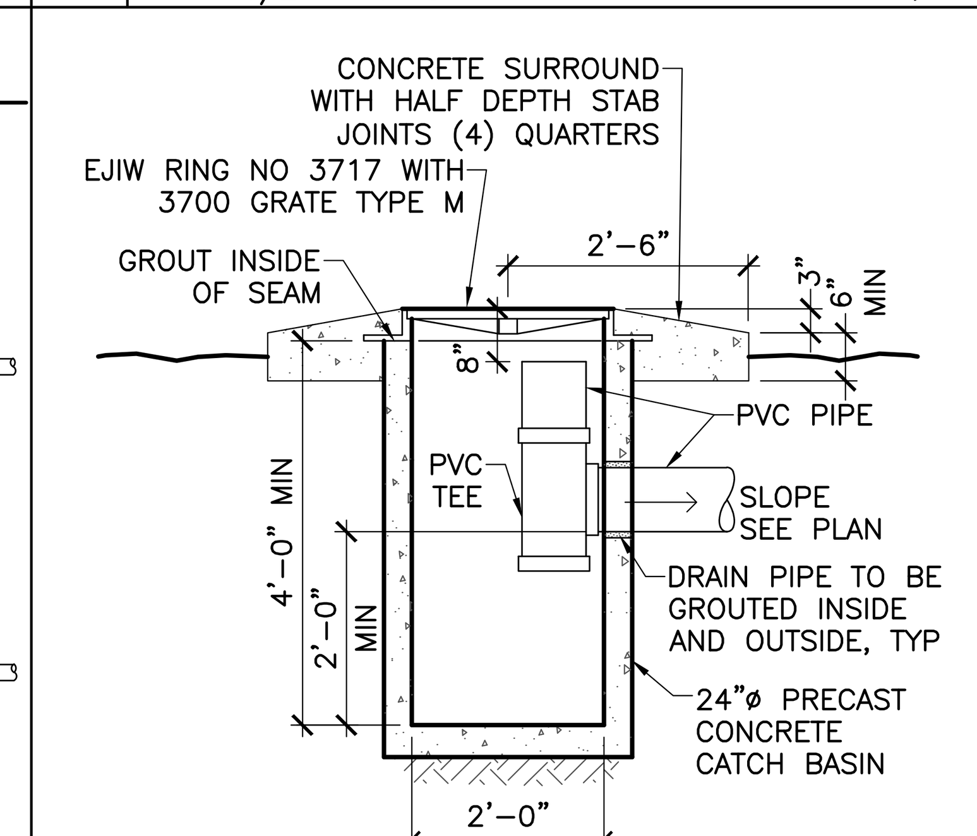
NOTES:

1. MUST BE ON THE LATEST DEPARTMENT OF HEALTH APPROVED LIST OF BACKFLOW PREVENTION ASSEMBLIES.
2. RISERS AND ALL PIPE IN BOX TO BE GALVANIZED.
3. CHECK WITH CITY IF A CROSS CONNECTION SPECIALIST MUST BE PRESENT DURING INSTALLATION.
4. FILL CENTER AREA WITH MIN 4" DEEP OF 1" MINUS DRAIN ROCK.
5. CENTER BOX ON MIN. 4" WIDE x 2" THICK CONCRETE FOOTING.



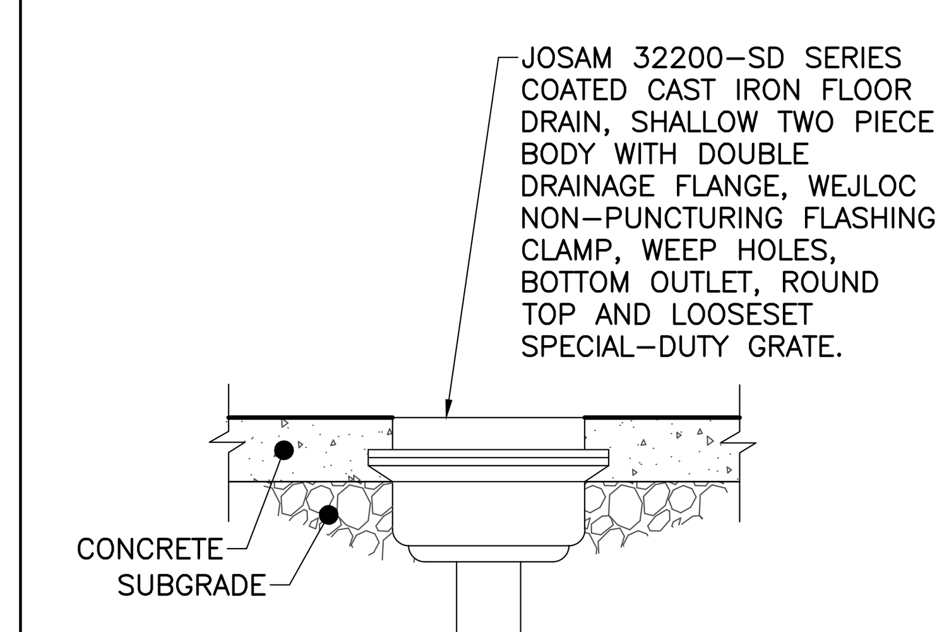
A5 STORM BUBBLER

SCALE: 1/2" = 1'-0" REF: C1.21, C1.23, C4.01



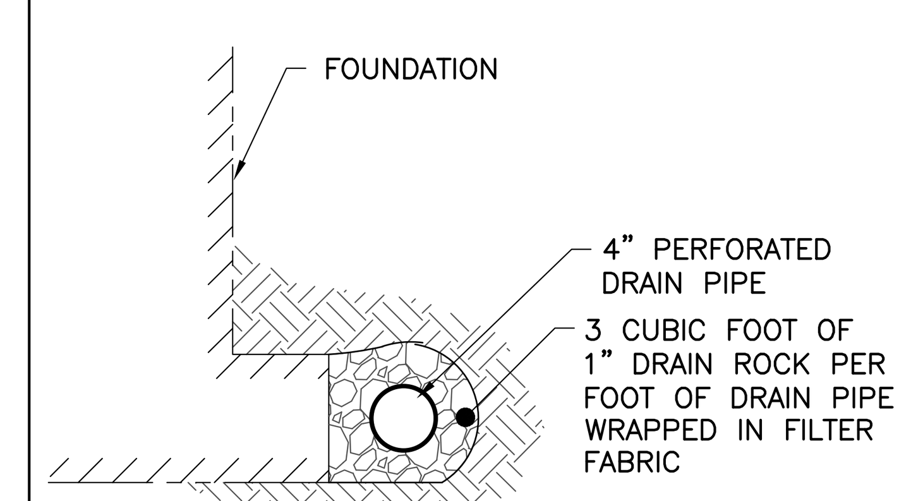
A7 AREA DRAIN

SCALE: 1" = 1'-0" REF: C1.22



A9 FOUNDATION DRAIN

SCALE: 1/2" = 1'-0" REF: C1.22, C1.23



NOTES:

1. ELEVATIONS OF DRAIN PIPE VARIES, PIPE INVERT AT START OF PIPE TO BE AT MID POINT OF FOOTING AND THEN SLOPED AT A MINIMUM OF 0.5% TOWARDS CONNECTION WITH SOLID STORM PIPE THAT IS TO CONNECT TO STORM MAIN LINE WITH A WYE CONNECTION.

DESIGN WEST ARCHITECTS, P.A.

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DRAWN BY: SJT

CHECKED BY: PTK/ASW

JOB NUMBER: 19153

REVISIONS

KNUTZEN ENGINEERING

CADFILE: 19153C001

REGISTERED PROFESSIONAL ENGINEER 83108PE OREGON PAUL T. KNUTZEN EXPIRATION DATE: 06/30/2021

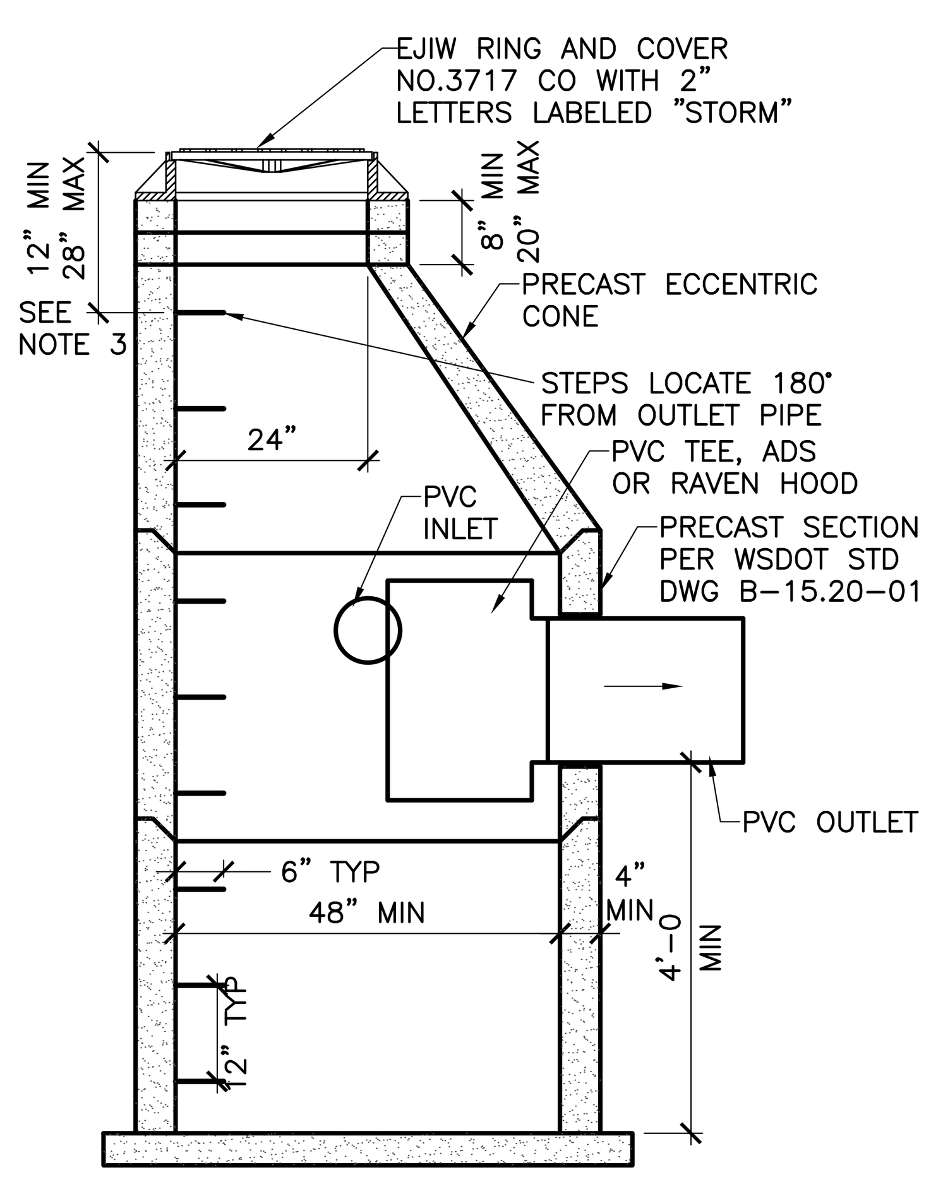
STANFIELD ADDITION

1120 N Main St, Stanfield, OR

DATE: **01-27-20**

SHEET NAME: **SECTIONS AND DETAILS**

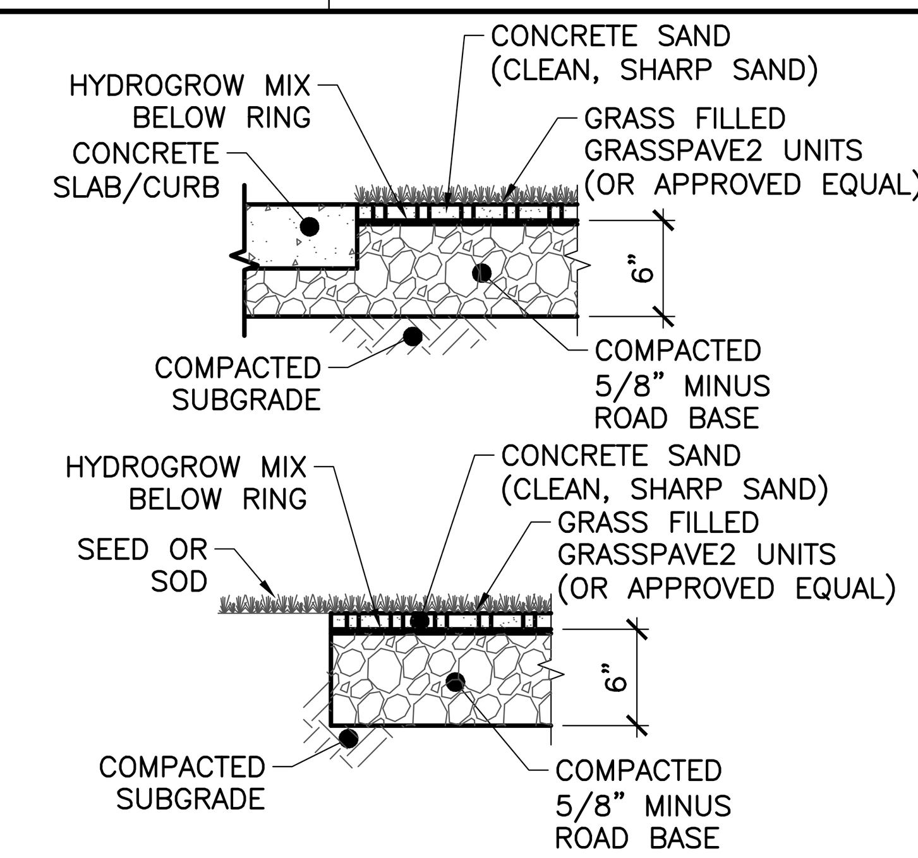
SHEET: **C5.01**



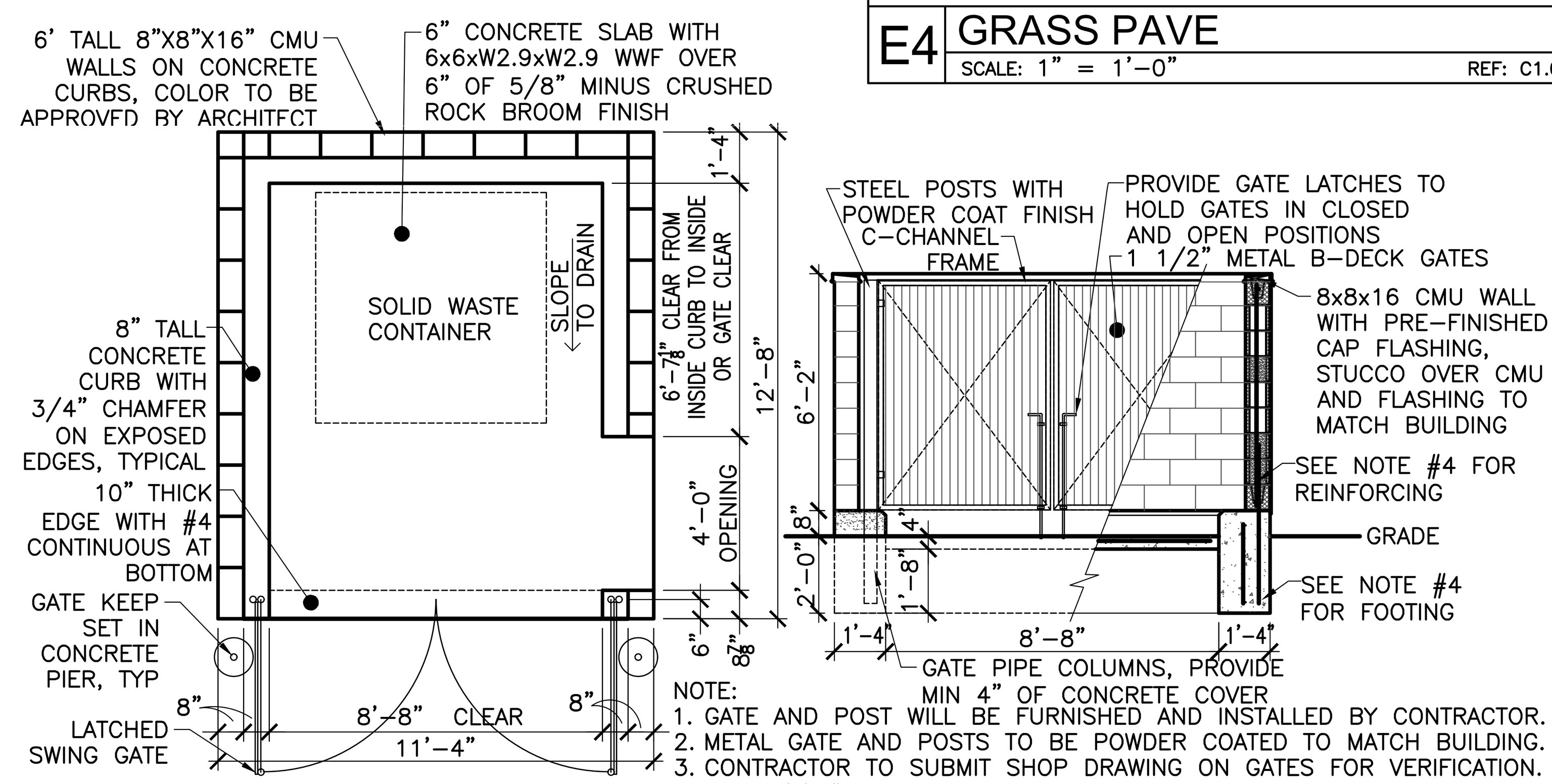
NOTES:

1. A RUBBER RING ENTRY COUPLING SHALL BE USED WITH P.V.C. PIPE OR GROUT PENETRATION INSIDE AND OUT.
2. ALL MANHOLE JOINTS SHALL BE MADE USING A CONTINUOUS FLEXIBLE RUBBER MANHOLE GASKET, OR FULL BED GROUT JOINT.
3. ADJUSTMENTS OVER 2" UTILIZE PRECAST CONCRETE RINGS. GROUT BETWEEN EACH RING AND FRAME AND FINISH GROUT INSIDE. REMOVE ALL WOOD SHIMS.
4. WHERE MANHOLE IS LOCATED OUTSIDE OF PAVED AREAS PROVIDE A 42"x42"x8" THICK CONCRETE COLLAR AROUND AND LEVEL WITH THE LID.

D1 STORM MANHOLE
SCALE: 1/2" = 1'-0" REF: C1.22



E4 GRASS PAVE
SCALE: 1" = 1'-0" REF: C1.02, C1.03



NOTE:

1. GATE AND POST WILL BE FURNISHED AND INSTALLED BY CONTRACTOR.
2. METAL GATE AND POSTS TO BE POWDER COATED TO MATCH BUILDING.
3. CONTRACTOR TO SUBMIT SHOP DRAWING ON GATES FOR VERIFICATION.
4. PROVIDE 10" THICK BY 16" WIDE CONCRETE STRIP FOOTING WITH (2) #5 LONGITUDINAL REINFORCEMENT. SET BOTTOM OF FOOTING AT 2' MINIMUM BELOW FINISHED GRADE. PROVIDE (1) #5 VERTICAL REINFORCING BAR AT WALL CORNERS, ENDS AND SPACED AT 48" ON CENTER. HOOK VERTICAL REINFORCING INTO STRIP FOOTING. PROVIDE 9 GAGE K-TRUSS HORIZONTAL JOINT REINFORCING AT 16" ON CENTER MAXIMUM SPACING FOR FULL HEIGHT OF WALL. PROVIDE (1) #4 BOND BEAM AND CMU WALL CAP BLOCKS AT TOP OF WALL.

D2 TRASH ENCLOSURE
SCALE: 1/4" = 1'-0" REF: C1.03

rd715.dgn 21-JUN-2019

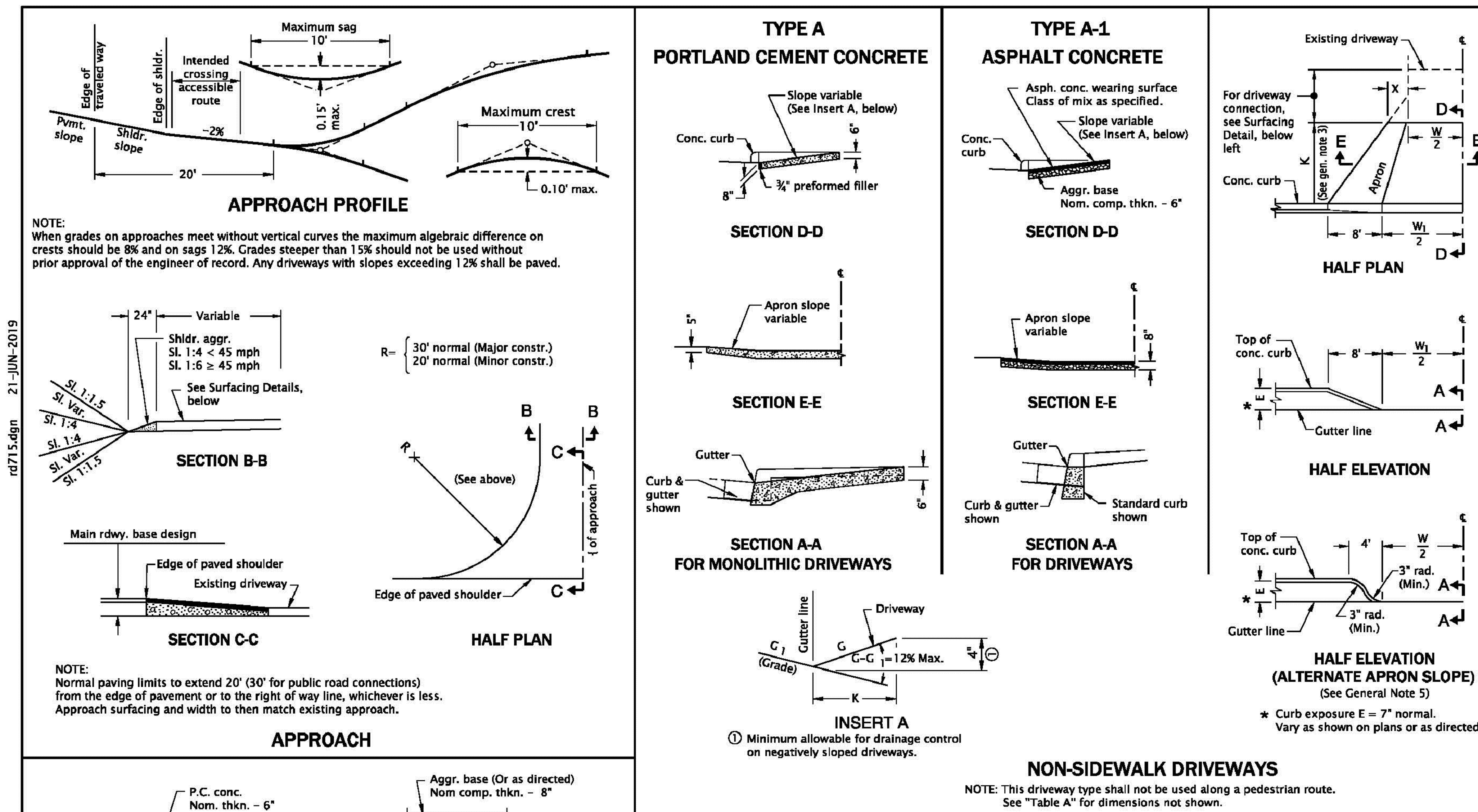
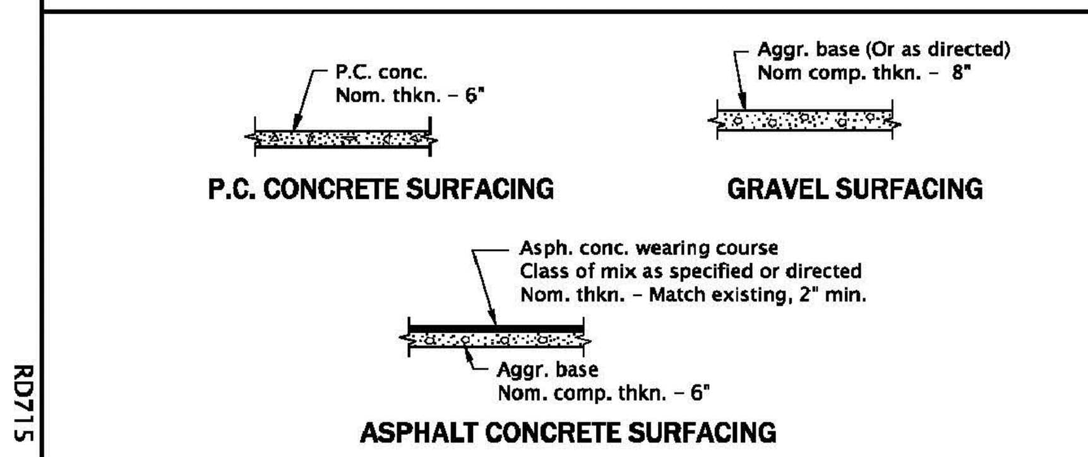


TABLE A

W (ft)	X (ft)	K (ft) 5	6	8	10
		W_1 (ft)			
12	3	15	15	15	15
14		17	17	17	17
16		19	19	19	19
18		21	21	21	21
20		23	23	23	23
22	4	27	28	29	30
24		29	30	31	32
26		31	32	33	34
28		33	34	35	36
30		35	36	37	38
32	5	41	42	44	46
34		43	44	46	48
36		45	46	48	50

Where a travel lane is constructed adjacent to the curb line, use 16' W min. for residence and 30' W min. for light commercial, add 5' to W_1 for both. Do not add the 5' to W_1 when 4' min. shldr. or bikeway is included in the typical.



APPROACH AND DRIVEWAY CONNECTION SURFACING DETAILS

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

1. Driveway details shown on this drawing are to be used on roadways where there are no existing or planned sidewalks in driveway vicinity. For driveways located in a sidewalk see Std. Dwgs. RD720, RD721, RD725 and/or RD730, RD735, RD740, RD745, RD750.
2. Width of driveway (W) as shown on plans or as directed.
3. K is the distance from back of curb to back of driveway (10' max.).
4. Where existing driveway is in good condition, construct only as much as required for satisfactory connection with new work.
5. "Alternate Apron Slope" used only where plans designate. Alternate Apron Slope may also be used at local jurisdiction's request when approved by the Project Manager.
6. Increase thickness of asphalt concrete and stone base where shown on plans.
7. For curb details, see Std. Dwgs. RD700 & RD701.
8. For expansion and contraction joint requirements, see applicable curb and sidewalk standard drawings.

CALC. BOOK NO. N/A

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

BASELINE REPORT DATE 21-JUN-2019

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

OREGON STANDARD DRAWINGS

APPROACHES AND NON-SIDEWALK DRIVEWAYS

2018

DATE	REVISION DESCRIPTION
01-2019	REVISED & ADDED NOTES
06-2019	REVISED DETAIL TITLE & NOTES

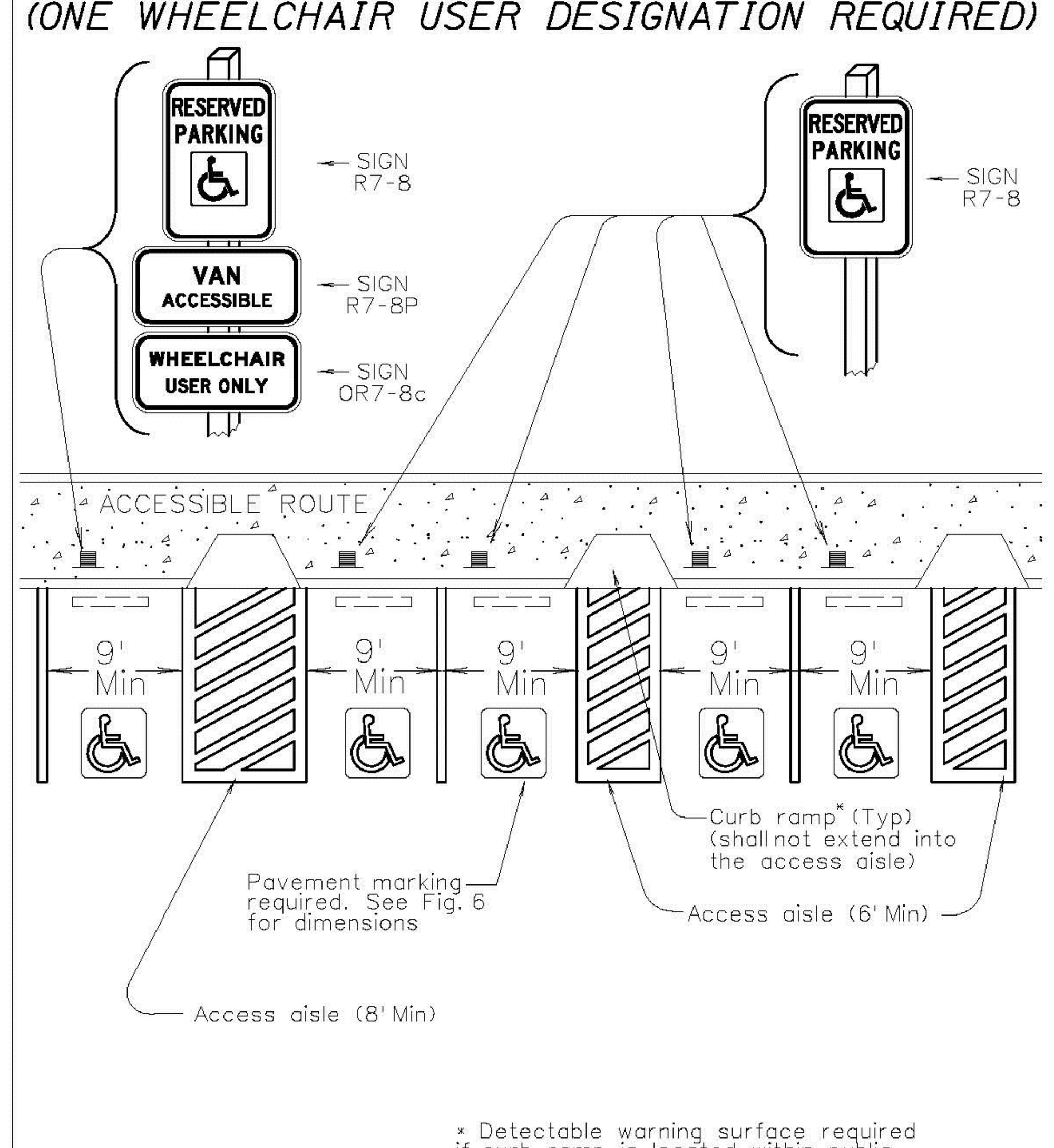
Effective Date: December 1, 2019 - May 31, 2020

RD715

D6 DRIVE ENTRANCE
SCALE: NTS REF: C1.03

OREGON TRANSPORTATION COMMISSION
Standards for Accessible Parking Places
May 2012

MINIMUM STANDARD
FIVE- ACCESSIBLE PARKING SPACES
(ONE WHEELCHAIR USER DESIGNATION REQUIRED)

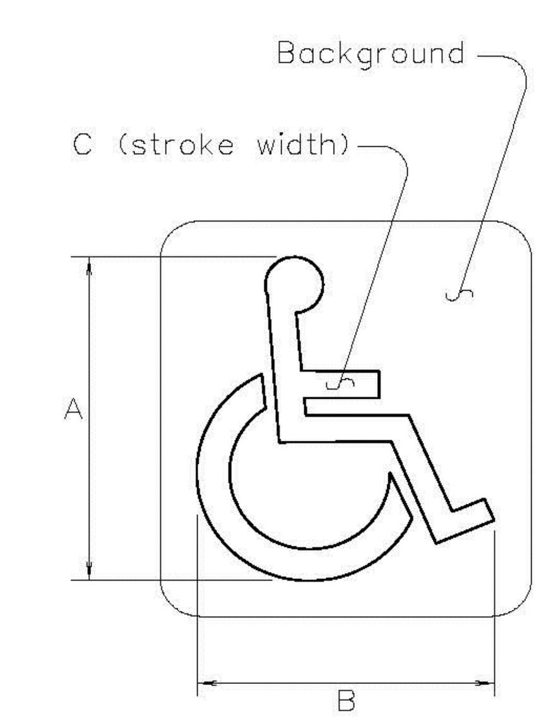


* Detectable warning surface required if curb ramp is located within public right-of-way

Figure 3

OREGON TRANSPORTATION COMMISSION
Standards for Accessible Parking Places
May 2012

PAVEMENT MARKING STENCIL



Pavement Marking Background: Optional: Blue, Retroreflective
Pavement Marking Stencil: White, Retroreflective

LEGEND	DIMENSIONS (INCHES) A	B	C	D	E	F	G
MINIMUM	28	24	3				
STANDARD	41	36	4				

The pavement marking stencil shall be used to designate an accessible parking area reserved for vehicles with DMV permits.

Figure 6

OREGON TRANSPORTATION COMMISSION
Standards for Accessible Parking Places
May 2012

SIGN DESIGN
SIGN NO. R7-8

Sign Background: White, Retroreflective sheeting
Sign Legend: Green, Retroreflective sheeting
Sign Symbol: White on Blue, Retroreflective sheeting

Refer to Standard Highway Signs book for details.

The Disabled Person parking sign is used to designate a parking area reserved for vehicles with DMV permit as stated.

Figure 7

OREGON TRANSPORTATION COMMISSION
Standards for Accessible Parking Places
May 2012

SIGN DESIGN
SIGN NO. R7-8P

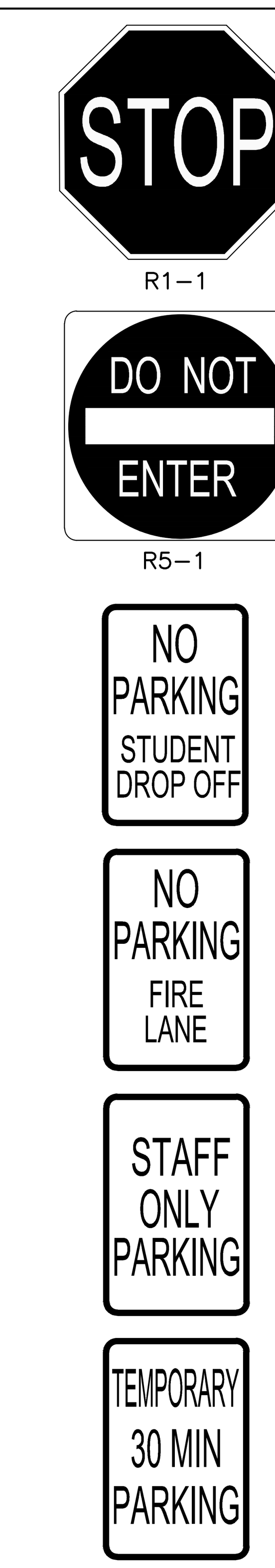
Sign Background: White, Retroreflective sheeting
Sign Legend: Green, Retroreflective sheeting

Refer to Standard Highway Signs book for details and dimensions.

The VAN-ACCESSIBLE sign shall only be used with sign R7-8 to designate the parking spaces that have an access aisle 8 ft or wider

Figure 8

A1 ODOT ADA PARKING/SIGN DETAILS
SCALE: NTS



E10 SIGNS
SCALE: NTS REF: C1.01

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REGISTERED PROFESSIONAL ENGINEER 83108PE OREGON PAUL T. KNUTZEN
EXPIRATION DATE: 06/30/2021

STANFIELD ADDITION
1120 N Main St, Stanfield, OR

DATE
01-27-20

SHEET NAME
SECTIONS AND DETAILS

SHEET
C5.02