

RECORD OF SURVEY

FOR D.N.R. EASEMENT NO. 50-106153

FOR

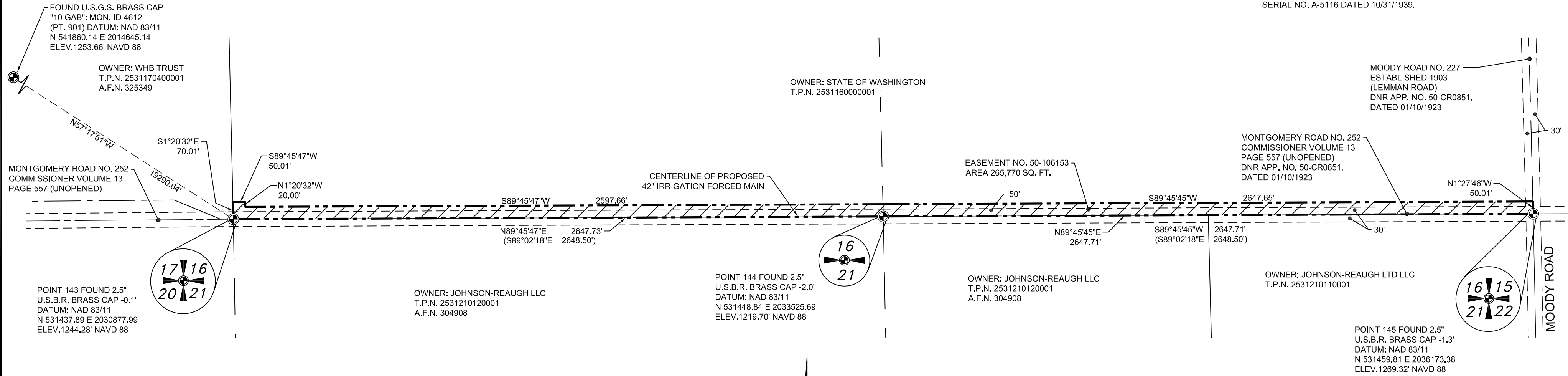
EAST COLUMBIA BASIN IRRIGATION DISTRICT

NOTE

1. THE PURPOSE OF THIS SURVEY IS TO PORTRAY THE IRRIGATION EASEMENT DESCRIBED HEREON.

REFERENCE MAPS/DOCUMENTS

1. U.S.B.R. RETRACEMENT MAP OF NORTH HALF OF T16 R31E.W.M. SERIAL NO. A-5116 DATED 10/31/1939.



DNR APPLICATION NO. 50-106153

EASEMENT AREA DESCRIPTION:

ALL DISTANCES AND AREAS SHOWN ON THE FOLLOWING DESCRIBED PARCEL OF LAND ARE GRID VALUES PER NAD 83/2011 ADJUSTMENT, WASHINGTON STATE COORDINATE SYSTEM, SOUTH ZONE. TO OBTAIN GROUND DISTANCES AND AREAS MULTIPLY BY A FACTOR OF 1.000134.

THE SOUTH 50.00 FEET AND THE NORTH 20 FEET OF THE SOUTH 70.00 FEET OF THE WEST 50.00 FEET OF SECTION 16 TOWNSHIP 15 NORTH, RANGE 31 EAST, WILLAMETTE MERIDIAN, ADAMS COUNTY, WASHINGTON.

DESCRIBED PARCEL CONTAINS 6.10 ACRES, MORE OR LESS.

BASIS OF BEARINGS, DATUM & GRID STATEMENT:

WASHINGTON STATE PLANE, SOUTH ZONE, GRID, BASED ON STATIC OR RAPID STATIC GPS MEASUREMENTS. CONVERGENCE ANGLE IS APPROXIMATELY 01°08'24" AT THE SW CORNER OF SECTION 16.

HORIZONTAL DATUM: NAD 83(2011), U.S. SURVEY FEET AS DERIVED BY GPS OBSERVATION.

THE MEASURED DISTANCES SHOWN ON THIS MAP HAVE BEEN PROJECTED TO THE WASHINGTON STATE PLANE COORDINATE GRID BY GPS OBSERVATION AT C&GS CONTROL MONUMENT "TWO". MULTIPLY THE MEASURED DISTANCES OR AREA SHOWN BY A COMBINED FACTOR OF 1.000134 TO OBTAIN THE ACTUAL GROUND DISTANCE AND/OR AREAS.

LEGEND/ABBREVIATIONS

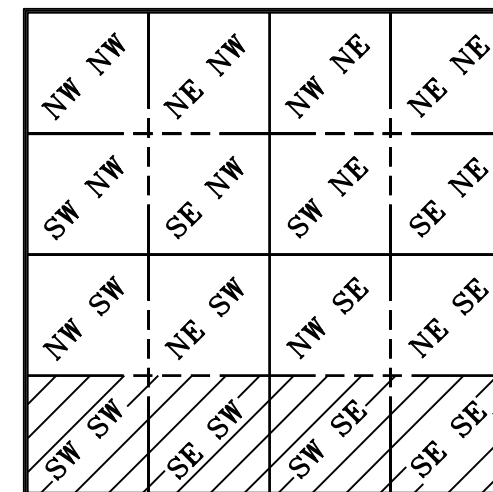
FOUND U.S.B.R. MONUMENT 2.5" BRASS CAP IN MONUMENT CASE OR AS NOTED	T.P.N. TAX PARCEL NUMBER
CALCULATED POINT - NOT SET OR FOUND	A.F.N. AUDITOR'S FILE NUMBER
EASEMENT BOUNDARY	R.O.S. RECORD OF SURVEY
EASEMENT CENTERLINE	U.S.B.R. U.S. BUREAU OF RECLAMATION
U.S.B.R. RECORD (N89°01'W 2666.3')	

D.N.R. OWNERSHIP DESCRIPTION:

Section 16, Township 15 North, Range 31 East, Willamette Meridian, Adams County, Washington.

AUDITOR'S INDEX SKETCH

SECTION 16



TOWNSHIP 15 N. RANGE 31 E. W.M.
ADAMS COUNTY, WA

AUDITOR'S CERTIFICATE

FILED FOR RECORD THIS _____ DAY OF _____, 20____
AT _____ M, IN BOOK _____ OF SURVEYS AT PAGE _____
AT THE REQUEST OF _____ ERLANDSEN

DEPUTY _____ COUNTY AUDITOR

SURVEYOR'S CERTIFICATE

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE SURVEY RECORDING ACT AT THE REQUEST OF _____ ECBID _____, IN JANUARY, 2024.

WESLEY A. POTRIDGE
CERTIFICATE NO. 22964



ECBID

RECORD OF SURVEY
SECTION 16, T.15.N, R.31.E W.M.

ADAMS COUNTY, WASHINGTON



SURVEYING | PLANNING | ENGINEERING | GIS

DRAWN BY: wap LAYOUT: ROS
DATE: 3/04/2024 FILE NO: 20220236.0002 ros.dwg
SCALE: 1" = 300' JOB NO: 20220236.00002

SHEET 1 OF 1

<http://www.erlandsen.com>

ERLANDSEN
250 SIMON ST. SE
EAST WENATCHEE, WA 98802
PH: 509.884.2562

TOLL FREE (800) 732-7442

WesP_410924_9:53am C:\civil\3D Projects\JOB FILES\20220236_0002_EL84_7 ros.dwg Layout: ros



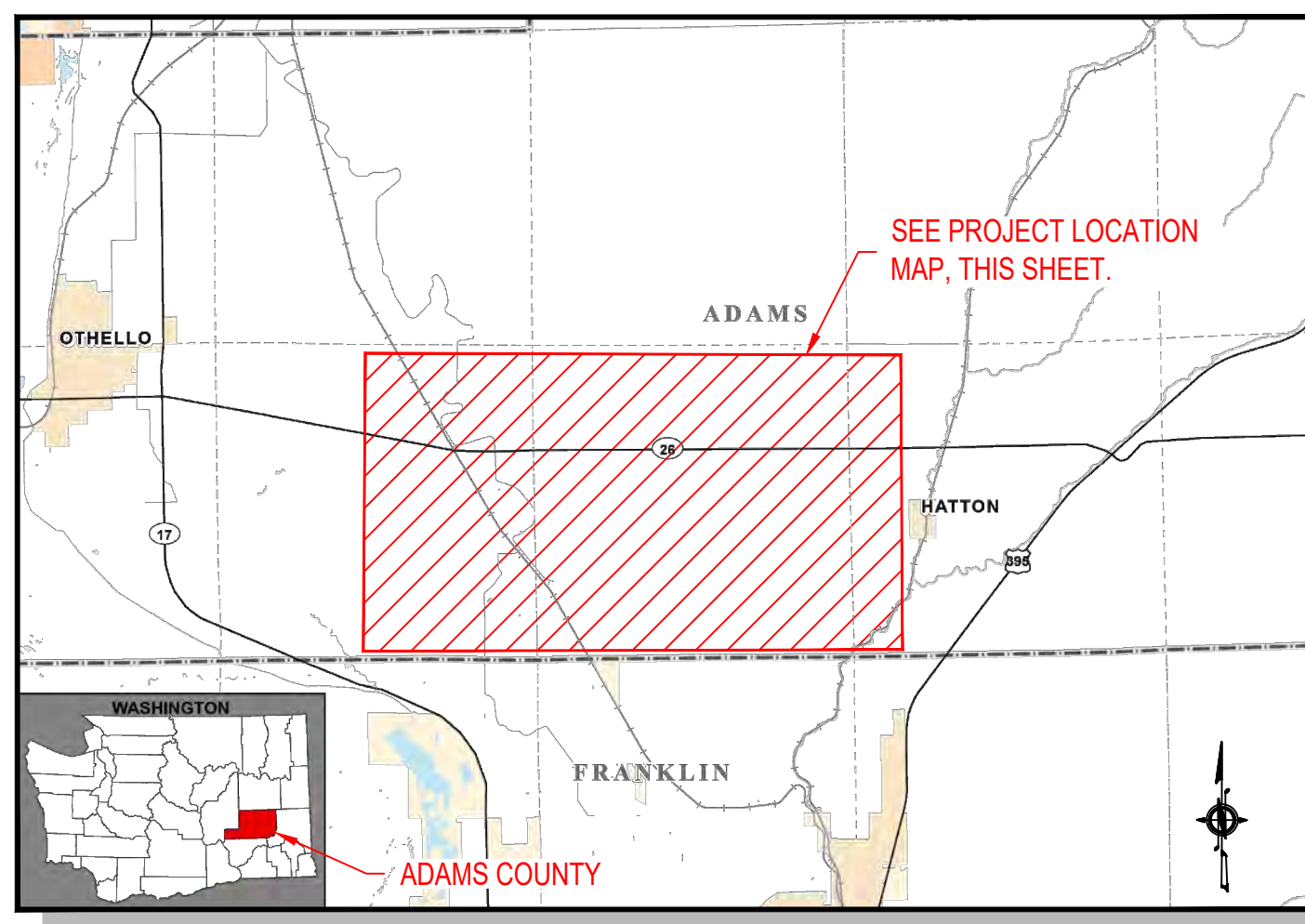
EAST COLUMBIA BASIN IRRIGATION DISTRICT

EL 84.7 IRRIGATION MAIN

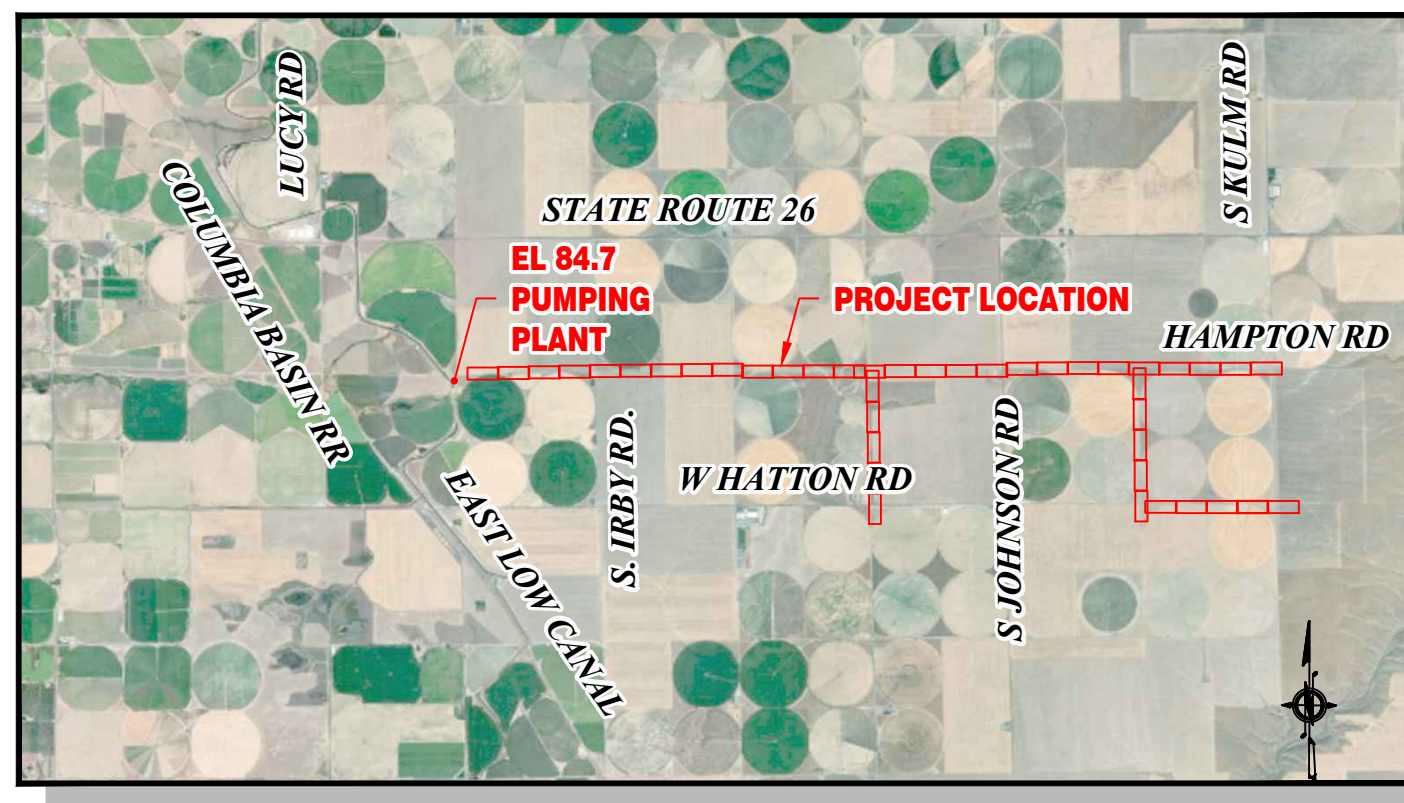
20-0078

60% DESIGN

PROJECT VICINITY MAP



PROJECT LOCATION MAP



SURVEY NOTES

- 1) THE EXISTING TOPOGRAPHIC AND PHYSICAL FEATURES SHOWN ON THESE PLANS ARE BASED ON A FIELD SURVEY BY ERLANDSEN AND ASSOCIATES, LIDAR BY NV5 GEOSPATIAL, AND FIELD RECONNAISSANCE BY RH2 ENGINEERING. ALL DESIGN CRITICAL TOPOGRAPHIC AND PHYSICAL FEATURES SHOWN ON THESE PLANS ARE TO BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IN THE EVENT THAT FIELD VERIFIED FEATURES OR EXPOSED UTILITIES ARE FOUND TO BE IN CONFLICT WITH THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. NO DEVIATION FROM THESE PLANS SHALL BE ACCEPTED ABSENT ENGINEER APPROVAL AND DISTRICT CONCURRENCE PRIOR TO ANY IMPLEMENTATION IN THE FIELD.
- 2) HORIZONTAL CONTROL: NORTH AMERICAN DATUM (NAD) 1983 (2011) FOR WASHINGTON STATE - SOUTH ZONE COORDINATE SYSTEM. US SURVEY FOOT. (EPSG: 6599).
- 3) VERTICAL CONTROL: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88) BASED ON MONUMENT "OTHL"; LATITUDE: 46° 49' 21.17625"; LONGITUDE: -119° 10' 04.29882"; ELLIPSOID (METERS): 314.187.
- 4) CONTOUR INTERVAL: 1 FOOT
- 5) EQUIPMENT AND PROCEDURES USED: THIS LIDAR SURVEY WAS PERFORMED WITH A RIEGL VQ-1560II SYSTEM MOUNTED IN A CESSNA CONQUEST II. ADDITIONAL GROUND SURVEY WAS PERFORMED WITH A TRIMBLE R8.

Select sheets provided show work on DNR-owned parcel

TITLE

SHEET NO.	SHEET TITLE	DWG. NO.	SHEET NO.	SHEET TITLE	DWG. NO.
GENERAL					
01	COVER	COV	37	PLAN & PROFILE XXVIII	IR28
02	GENERAL NOTES	G01	38	PLAN & PROFILE XXIX	IR29
SURVEY CONTROL					
03	STATION BASELINE AND OVERVIEW I	V01	39	PLAN & PROFILE XXX	IR30
04	STATION BASELINE AND OVERVIEW II	V02	40	PLAN & PROFILE XXXI	IR31
05	STATION BASELINE AND OVERVIEW III	V03	41	PLAN & PROFILE XXXII	IR32
06	STATION BASELINE AND OVERVIEW IV	V04	42	PLAN & PROFILE XXXIII	IR33
07	STATION BASELINE AND OVERVIEW V	V05	43	PLAN & PROFILE XXXIV	IR34
08	STATION BASELINE AND OVERVIEW VI	V06	44	PLAN & PROFILE XXXV	IR35
09	STATION BASELINE AND OVERVIEW VII	V07	45	PLAN & PROFILE XXXVI	IR36
10	STATION BASELINE AND OVERVIEW VIII	V08	46	PLAN & PROFILE XXXVII	IR37
11	STATION BASELINE AND OVERVIEW IX	V09	47	PLAN & PROFILE XXXVIII	IR38
GENERAL CIVIL					
12	PLAN & PROFILE I	IR01	48	PLAN & PROFILE XXXIX	IR39
13	PLAN & PROFILE II	IR02	49	PLAN & PROFILE XL	IR40
14	PLAN & PROFILE III	IR03	50	PLAN & PROFILE XLI	IR41
15	PLAN & PROFILE IV	IR04	51	PLAN & PROFILE XLII	IR42
16	PLAN & PROFILE V	IR05	52	TESC DETAILS	D01
17	PLAN & PROFILE VI	IR06	53	IRRIGATION DETAILS I	D02
18	PLAN & PROFILE VII	IR07	54	IRRIGATION DETAILS II	D03
19	PLAN & PROFILE VIII	IR08	55	IRRIGATION DETAILS III	D04
20	PLAN & PROFILE IX	IR09	56	IRRIGATION DETAILS IV	D05
21	PLAN & PROFILE X	IR10	57	IRRIGATION DETAILS V	D06
22	PLAN & PROFILE XI	IR11	58	IRRIGATION DETAILS VI	D07
23	PLAN & PROFILE XII	IR12	59	ROADWAY DETAILS	D08
ELECTRICAL					
24	PLAN & PROFILE XIII	IR13	60	ELECTRICAL LEGEND	E001
25	PLAN & PROFILE XIV	IR14	61	ELECTRICAL TURNOUT ONE-LINE	E002
26	PLAN & PROFILE XV	IR15	62	FIBER & ELECTRICAL SITE PLAN I	E003
27	PLAN & PROFILE XVI	IR16	63	FIBER & ELECTRICAL SITE PLAN II	E004
28	PLAN & PROFILE XVII	IR17	64	FIBER & ELECTRICAL SITE PLAN III	E005
29	PLAN & PROFILE XVIII	IR18	65	FIBER & ELECTRICAL SITE PLAN IV	E006
30	PLAN & PROFILE XIX	IR19	66	FIBER & ELECTRICAL SITE PLAN V	E007
31	PLAN & PROFILE XX	IR20	67	FIBER & ELECTRICAL SITE PLAN VI	E008
32	PLAN & PROFILE XXI	IR21	68	FIBER & ELECTRICAL SITE PLAN VII	E009
33	PLAN & PROFILE XXII	IR22	69	ELECTRICAL DETAILS	E010
34	PLAN & PROFILE XXIII	IR23	70	ELECTRICAL SCHEDULES	E011
35	PLAN & PROFILE XXIV	IR24	71	TURNOUT CONTROL PANEL LAYOUT	E012
36	PLAN & PROFILE XXV	IR25	72	TURNOUT POWER AND COMMUNICATIONS LAYOUT	E013
37	PLAN & PROFILE XXVI	IR26	73	TURNOUT PLC INPUT AND OUTPUT WIRING I	E014
38	PLAN & PROFILE XXVII	IR27	74	TURNOUT PLC INPUT AND OUTPUT WIRING II	E015

SECTION AND DETAIL REFERENCES

THE FOLLOWING CONVENTIONS HAVE BEEN USED WITHIN THESE DRAWINGS TO REFER THE READER BETWEEN THE SECTION/DETAIL AND THE PLAN FROM WHICH IT IS REFERENCED.

REFERENCE BUBBLES

PLAN REFERENCE BUBBLE - REFERS READER BACK TO THE PLAN FROM WHICH THE DETAIL OR SECTION ORIGINATED.

DETAIL/SECTION REFERENCE BUBBLE - REFERS READER TO THE DRAWING ON WHICH THE DETAIL OR SECTION IS LOCATED.

WHERE, ID = SECTION/DETAIL REFERENCE NUMBER
X## = DRAWING NUMBER ON WHICH DETAIL ORIGINATED OR RESIDES.

SECTION/DETAIL REFERENCE NUMBER CONVENTIONS:

SECTIONS OR ELEVATIONS SHOULD HAVE A LETTER REFERENCE NUMBER (A THROUGH ZZ).

SUBSURFACE UTILITY LEGEND

THE CLASSIFICATIONS FOR SUBSURFACE UTILITIES ARE OUTLINED AND EXPLAINED IN THE FOLLOWING LIST:

UTILITY QUALITY LEVEL A. - PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE OF (OR VERIFICATION OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES) AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES, USUALLY AT A SPECIFIC POINT. UNLESS OTHERWISE NOTED, QUALITY LEVEL A IS ONLY APPLICABLE AT POTHOLED LOCATIONS ON THE PLANS. AT ALL OTHER AREAS, THE UTILITY SHOULD BE ASSUMED TO BE QUALITY LEVEL B.

UTILITY QUALITY LEVEL B. - INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES.

UTILITY QUALITY LEVEL C. - INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES

UTILITY QUALITY LEVEL D. - INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS

NOTE:

- THE USE OF THE LINE TYPES PROVIDED ABOVE WAS A PRIMARY METHOD FOR INDICATING THE ACCURACY OF THE UTILITIES SHOWN WITHIN THESE PLANS. WHEN THE SOURCE OF THE INFORMATION WAS UNKNOWN OR THE METHOD FOR LOCATING THE UTILITIES WAS UNAVAILABLE, QUALITY LEVEL D WAS USED AS THE DEFAULT.
- THESE CLASSIFICATIONS ARE BASED ON C/ASCE 38-02, STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA.

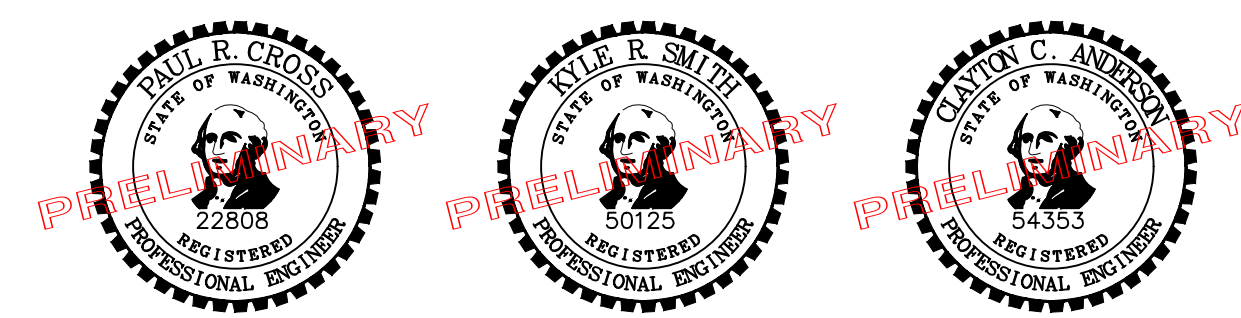
ABBREVIATIONS

ACP	ASPHALT CONCRETE PAVEMENT	MJ	MECHANICAL JOINT
BST	BITUMINOUS SURFACE TREATMENT	N	NORTHING
CB	CATCH BASIN	NTD	NOTE TO DISTRICT
CONC	CONCRETE	NTE	NOTE TO ENGINEER
COUNTY	ADAMS COUNTY	PE	POLYETHYLENE
CL	CENTERLINE	PP	PUMPING PLANT
CLSM	CONTROLLED LOW STRENGTH MAT.	PROP	PROPOSED
CPEP	CORRUGATED POLYETHYLENE	PVC	POLYVINYL CHLORIDE
CSBC	CRUSHED SURFACING BASE COURSE	R	RIGHT
CSTC	CRUSHED SURFACING TOP COURSE	RT	RIGHT
DIAM	DIAMETER	ROW	RIGHT-OF-WAY
DI	DUCTILE IRON	SPEC	SPECIFICATIONS
DISTRICT	EAST COLUMBIA BASIN IRRIGATION DISTRICT	SS	SANITARY SEWER
		SSMH	SANITARY SEWER MANHOLE
DMJ	DISMANTLING JOINT	ST	STORM
DND	DO NOT DISTURB	STA	STATION LINE
DWG	DRAWING	STD	STANDARD
E	EASTING	SY	SQUARE YARDS
ELC	EAST LOW CANAL	TBR	TO BE REMOVED
ELEV	ELEVATION	TESC	TEMPORARY EROSION AND SEDIMENT CONTROL
EOG	EDGE OF GRAVEL		
EOP	EDGE OF PAVEMENT	TYP	TYPICAL
EX	EXISTING	U.N.O	UNLESS NOTED OTHERWISE
FL	FLANGE	W	WATER
HMA	HOT MIXED ASPHALT	WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
L	LEFT		
LT	LEFT		
LF	LINEAR FEET		

CONTACT PERSONNEL

CONTACT	AGENCY	PHONE (509)
KYLE SMITH, P.E. (PROJECT MANAGER)	RH2 ENGINEERING	392-6490
PAUL CROSS, P.E. (PRINCIPAL-IN-CHARGE)	RH2 ENGINEERING	392-6502
JOE LAWRENCE, P.E. (PROJECT ENGINEER)	RH2 ENGINEERING	392-5023
NATE ANDREINI, P.E. (ASST. MANAGER)	ECBID	488-9671x112
JULIO GONZALEZ, P.E. (DISTRICT ENGINEER)	ECBID	488-9671x114
JOSE MENDOZA (PROJECT MANAGER)	ECBID	488-9671x120

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ONE CALL 811
REPORT ALL SPILLS
DEPT. OF ECOLOGY 1-800-258-5990



LEGEND

EXISTING LEGEND

SURVEY CONTROL LEGEND

- MONUMENT
- REBAR CAP

SURVEY UTILITY LEGEND

- WATER BLOW OFF VALVE
- IRRIGATION RISER
- IRRIGATION VALVE

SURVEY DRY UTILITY LEGEND

- FIBER OPTICS VAULT
- POWER POLE
- POWER GUY ANCHOR
- POWER METER

SURVEY SIGNAL LEGEND

- DOUBLE POST SIGN

SURVEY UTILITY LINETYPES

- UNDERGROUND POWER
- OVERHEAD POWER
- UNDERGROUND TELEPHONE
- UNDERGROUND FIBER OPTICS
- WATER LINE
- IRRIGATION LINE

SURVEY CONTROL LINETYPES

- UTILITY EASEMENT
- PARCEL LINE
- SECTION LINE
- RIGHT OF WAY LINE
- ROADWAY CENTERLINE

SURVEY SITE LINETYPES

- MAJOR CONTOUR
- MINOR CONTOUR
- BUILDING EDGE
- DIRT ROAD EDGELINE
- GRAVEL ROAD EDGELINE
- FENCE
- CANAL

SURVEY AREA HATCHING

- ROADWAY ASPHALT AREA
- ROADWAY CONCRETE AREA
- DIRT ROADWAY
- GRAVEL ROADWAY

PROPOSED LEGEND

DEMOLITION LEGEND

- SAWCUT LINE
- ASPHALT REMOVAL
- CONCRETE REMOVAL
- VEGETATION REMOVAL AREA
- STABILIZED CONSTR. ENTRANCE
- INLET PROTECTION
- STRAW WATTLES
- SILT FENCE
- UTILITY REMOVAL LIMITS

IRRIGATION LEGEND

- IRRIGATION FORCE MAIN
- RESTRAINED JOINT PIPE
- CDF ENCASEMENT
- CASING SLEEVE
- THRUST BLOCK
- FLANGED FITTING
- MECHANICAL JOINT FITTING
- RESTRAINT JOINT FITTING
- RESTRAINT JOINT REDUCER
- ACCESS MANWAY
- BLOWOFF DRAIN
- IRRIGATION SERVICE
- VALVE
- CAP
- AIR/COMBINATION VALVE
- CONNECTION TO EXISTING

SITE LEGEND

- MAJOR CONTOUR
- MINOR CONTOUR
- CUT LIMITS
- FILL LIMITS
- COMMUNICATION CONDUIT
- ELECTRICAL CONDUIT
- FIBER CONDUIT
- JUNCTION BOX
- PROPOSED EASEMENT
- UNDISTURBED NATIVE SOIL
- UNPAVED ROADWAY SHOULDER
- COMPACTED NATIVE MATERIAL
- COMPACTED IMPORT MATERIAL
- SAND
- GRAVEL SURFACE (CSTC)
- GRAVEL SURFACE (CSBC)
- CONTROLLED DENSITY FILL
- CONCRETE
- CONCRETE X-SECTION
- ASPHALT

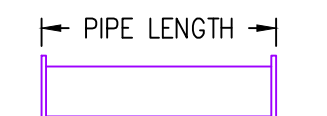
GENERAL NOTES

1. ALL WORKMANSHIP, CONSTRUCTION AND MATERIALS SHALL BE PERFORMED OR SUPPLIED IN ACCORDANCE WITH THESE SPECIAL PROVISIONS, PLANS, PROJECT SPECIFICATIONS, EAST COLUMBIA BASIN IRRIGATION DISTRICT (DISTRICT) STANDARD DETAILS, AND THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, 2020 EDITION, AS ISSUED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND THE AMERICAN PUBLIC WORKS ASSOCIATION, WHICH IS HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS.
2. A PRECONSTRUCTION CONFERENCE IS REQUIRED PRIOR TO CONSTRUCTION, AND 48 HOURS ADVANCE NOTIFICATION PRIOR TO ACTUAL START OF WORK IS REQUIRED.
3. THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE RECORDS BUT HAVE NOT BEEN EXPOSED AND MEASURED. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK TO AVOID DAMAGE OR DISTURBANCE, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES. IT IS UNDERSTOOD THAT OTHER ABOVE GROUND AND UNDERGROUND FACILITIES NOT SHOWN ON THE PLANS MAY BE ENCOUNTERED DURING THE COURSE OF THE WORK.
4. THE CONTRACTOR SHALL PROTECT BUILDINGS, FENCES, APPURTENANCES, ABOVE GROUND UTILITIES, AND OTHER PROPERTY ADJACENT TO ALL CONSTRUCTION AREAS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR REPAIRING ALL DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES.
5. IN ACCORDANCE WITH THE DEPARTMENT OF ECOLOGY AIR QUALITY STANDARDS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING ALL FUGITIVE DUST THAT MAY BE GENERATED BY THE CONSTRUCTION PROJECT.
6. THE CONTRACTOR SHALL CONTAIN WORK TO WITHIN RIGHT-OF-WAY OR THE CONSTRUCTION LIMITS AS ILLUSTRATED IN THE PLANS.
7. THE CONTRACTOR SHALL SECURE NECESSARY PERMITS PRIOR TO STARTING CONSTRUCTION. THE DISTRICT WILL OBTAIN SOME OF THE REQUIRED PERMITS. SEE THE PROJECT SPECIFICATIONS FOR FURTHER INFORMATION REGARDING PERMITS.
8. ONSITE EROSION CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND BE IN PLACE PRIOR TO CONSTRUCTION. ANY PROBLEMS OCCURRING BEFORE FINAL ACCEPTANCE BY THE DISTRICT SHALL BE CORRECTED BY THE CONTRACTOR. UPON FINAL ACCEPTANCE BY THE DISTRICT, OR AS OTHERWISE DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY, NON-DEGRADABLE EROSION CONTROL MEASURES.
9. ANY REVISIONS TO PLANS MUST BE MADE BY THE ENGINEER AND APPROVED BY THE DISTRICT PRIOR TO ANY IMPLEMENTATION IN THE FIELD.
10. ALL PAVEMENT MARKINGS AND SIGNING SHALL CONFORM TO THE REQUIREMENTS OF THE MUTCD.
11. A COPY OF THE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
12. WHERE NEWLY CONSTRUCTED PAVING MEETS EXISTING PAVING, THE CONTRACTOR SHALL SAW CUT OR OVERLAY AND FEATHER NEW PAVEMENT TO PROVIDE A SMOOTH TRANSITION FROM EXISTING TO PROPOSED PAVING. APPLICATION OF A THIN TACK COAT OF EMULSIFIED ASPHALT SHALL BE APPLIED TO INSURE PROPER BONDING.
13. THE COMPLETED SURFACE OF ALL COURSES SHALL BE OF UNIFORM TEXTURE, SMOOTH, UNIFORM AS TO CROWN AND GRADE, AND FREE FROM DEFECTS OF ALL KINDS. THE COMPLETED SURFACE OF THE WEARING COURSE SHALL NOT VARY MORE THAN 1/8 INCH FROM THE LOWER EDGE OF A 10-FOOT STRAIGHTEDGE PLACED ON THE SURFACE PARALLEL TO THE CENTERLINE. THE TRANSVERSE SLOPE OF THE COMPLETED SURFACE OF THE WEARING COURSE SHALL VARY NOT MORE THAN 1/4 INCH IN 10- FEET FROM THE RATE OF TRANSVERSE SLOPE SHOWN ON THE PLANS.
14. MATERIALS SAMPLING AND TESTING SHALL BE AT A FREQUENCY AND MAGNITUDE AS SPECIFIED IN THE STANDARD SPECIFICATIONS OR DETERMINED BY THE ENGINEER. A PRIVATE AND INDEPENDENT TESTING LABORATORY SHALL PERFORM TESTING AND SAMPLING. CERTIFIED TEST REPORTS SHALL BE FURNISHED FOR ALL TESTS PERFORMED BY PRIVATE TESTING LABORATORIES. THE DISTRICT WILL BE RESPONSIBLE FOR ACCEPTANCE TESTING.
15. PROVIDE A MINIMUM OF 48-HOUR NOTIFICATION TO THE COUNTY PRIOR TO ENTERING THE COUNTY ROW.

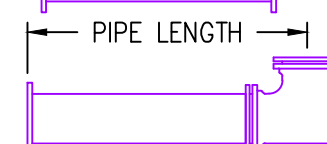
PIPELINE LENGTH MEASUREMENTS

THE FOLLOWING NON-FACILITY PIPELINE (EX: WATER MAIN, SEWER MAIN, & IRRIGATION MAIN) LENGTHS CALLED OUT ON PLANS ARE MEASURED AS FOLLOWS:

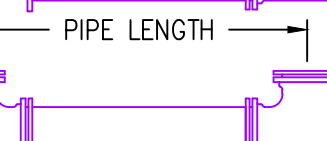
FLANGE x FLANGE (FLxFL) PIPE MEASURED FROM FACE OF FLANGE TO FACE OF FLANGE.



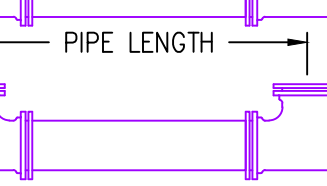
FLANGE x PLAIN END (FLxPE) PIPE MEASURED FROM FACE OF FLANGE TO CENTER OF FITTING.



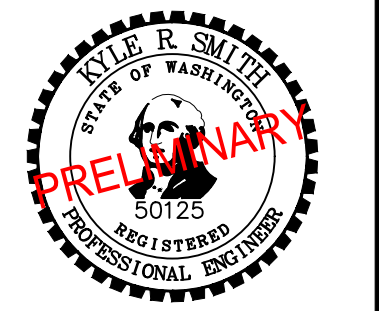
PLAIN END x PLAIN END (PExPE) PIPE MEASURED FROM CENTER OF FITTING TO CENTER OF FITTING.



RESTRAINED JOINT x RESTRAINED JOINT (RJRJRJ) PIPE MEASURED FROM CENTER OF FITTING TO CENTER OF FITTING.



FITTINGS ARE ASSUMED TO BE STANDARD LENGTH 125#, 250# FLANGED OR COMPACT CLASS 350 MECHANICAL JOINTS. CONTRACTOR RESPONSIBLE FOR VERIFYING LENGTHS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO TAKE INTO ACCOUNT ANY VARIATIONS IN FITTING DIMENSIONS.

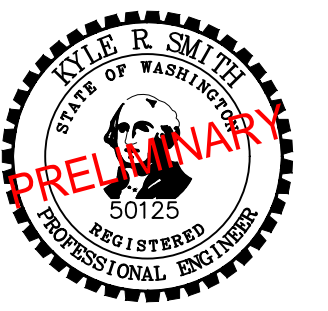


**EAST COLUMBIA BASIN
IRRIGATION DISTRICT
EL 84.7 IRRIGATION MAIN**

GENERAL NOTES



JOB NO.: 20-0078	CLIENT: ECBID	FILENAME: EL84_7-P-COV/DWG	DATE: Nov 2, 2023	DATE: Nov 3, 2023			
REVISIONS			60% DESIGN				
NO.	DATE	DESCRIPTION	BY				

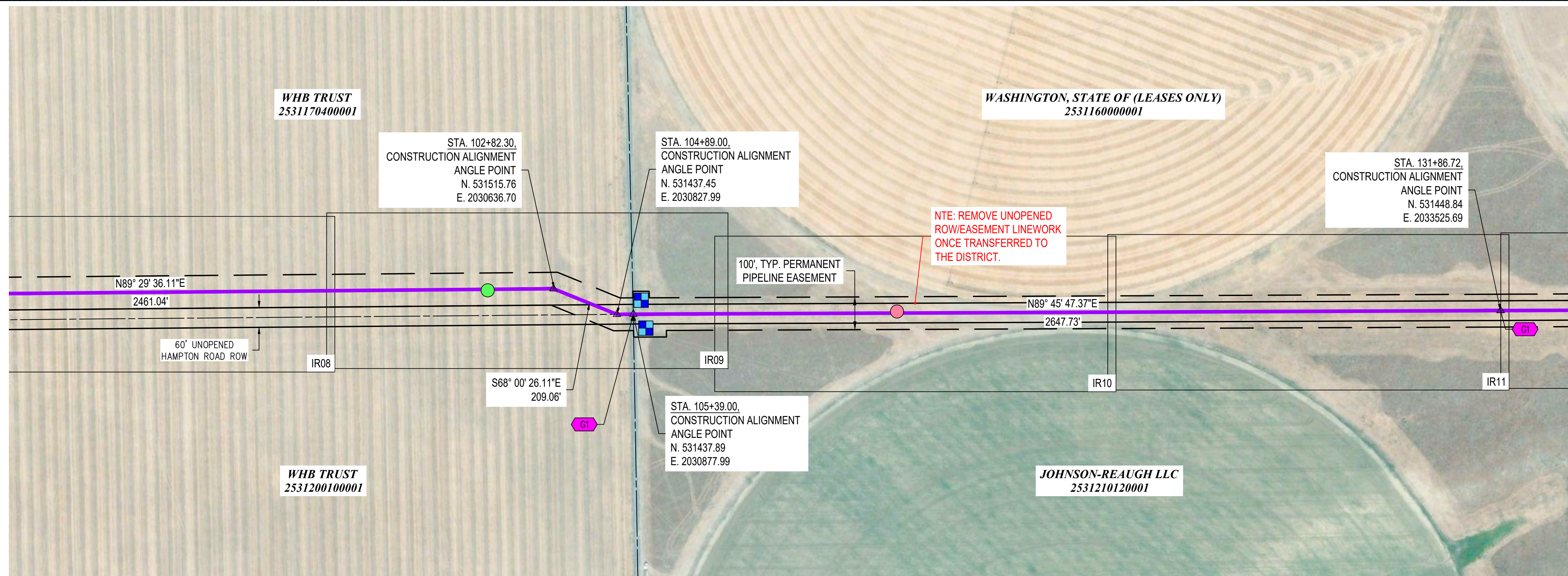


APPURTENANCE LEGEND

LABEL	DESCRIPTION
	AIR RELEASE & VACUUM VALVE ASSEMBLY
	DRAIN VALVE
	PUMPING PLANT
	TURNOUT
	BLIND FLANGED TEE (FUTURE TURNOUT)

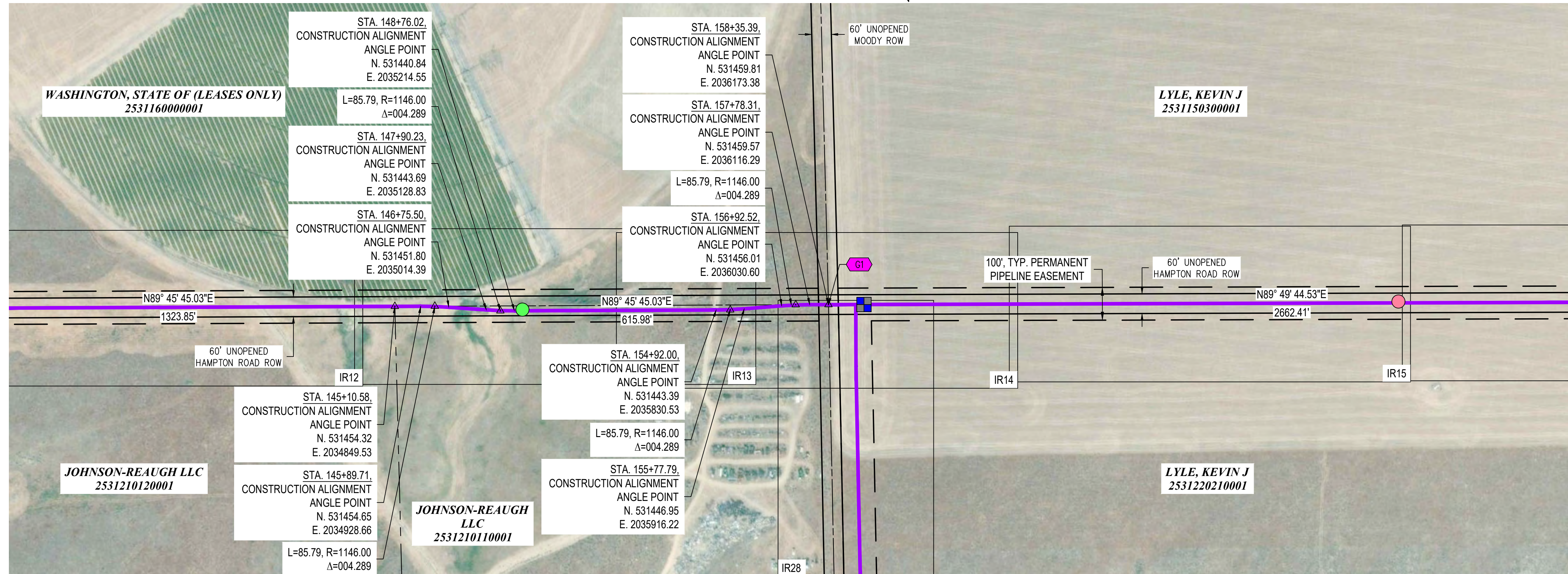
KEYNOTES

- NO SURVEY MONUMENT SHALL BE REMOVED OR DESTROYED BEFORE A PERMIT IS OBTAINED FROM THE DEPARTMENT OF NATURAL RESOURCES. WAC 332-120-030.
 - WHEN ONE OR MORE MONUMENTS MUST BE REMOVED DURING AN ACTIVITY WHICH MIGHT DISTURB OR DESTROY IT, A LICENSE PROFESSIONAL ENGINEER OR LAND SURVEYOR MUST COMPLETE, SIGN, SEAL AND THEN FILE A PERMIT WITH THE DEPARTMENT OF NATURAL RESOURCES. WAC 332-120-030.
 - CONSTRUCTION EASEMENT AND PERMANENT EASEMENT ARE COLLINEAR, EXCEPT WHERE NOTED ON THE PLANS.
- EXISTING SURVEY CONTROL POINT. CONTRACTOR SHALL PROTECT MONUMENT AND REPLACE IF DAMAGED OR DISTURBED.
- THE PUMPING PLANT AND PIPELINE PROJECTS MAY RUN CONCURRENT. COORDINATE SHARED USE OF TEMPORARY CONSTRUCTION EASEMENT WITH PUMPING PLANT CONTRACTOR TO MAINTAIN PRIMARY CONSTRUCTION ACCESS ROAD TO PUMPING PLANT. IT SHALL BE THE RESPONSIBILITY OF THE PUMPING PLANT CONTRACTOR TO LOCATE, CLEAR, AND GRUB THEIR OWN CONSTRUCTION ACCESS WITHIN THE EASEMENT WITHOUT OBSTRUCTING THE PIPELINE CONTRACTOR.



PLAN VIEW

1" = 200'

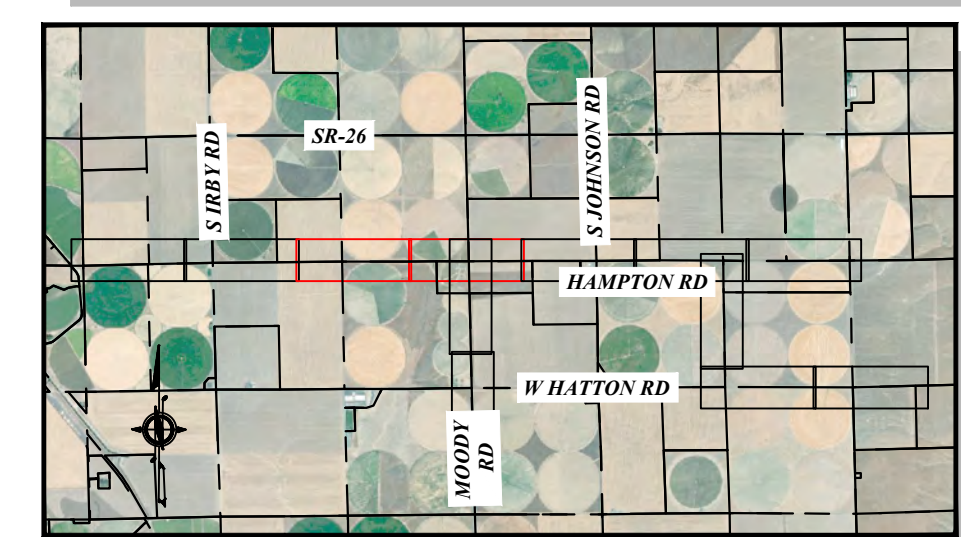


PLAN VIEW

1" = 200'



VICINITY MAP



**EAST COLUMBIA BASIN
IRRIGATION DISTRICT
EL 84.7 IRRIGATION MAIN**



STATION BASELINE AND OVERVIEW II

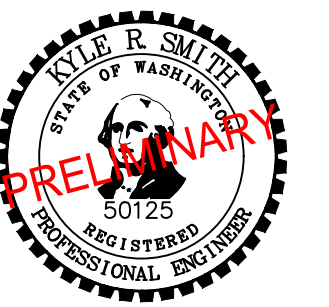
NO.	DATE	DESCRIPTION	BY	REVIEW

ENGINEER: JZL SW/DATE: Nov 2, 2023 JOB NO.: 20-0078
 REVIEWED: KRS PLOT DATE: Nov 2, 2023 CLIENT: ECBID FILENAME: EL84_7-P-PRP.DWG

REVISIONS
 60% DESIGN

SCALE: SHOWN
 0' 1' 2'
 DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: V02 SHEET NO.: 04 74



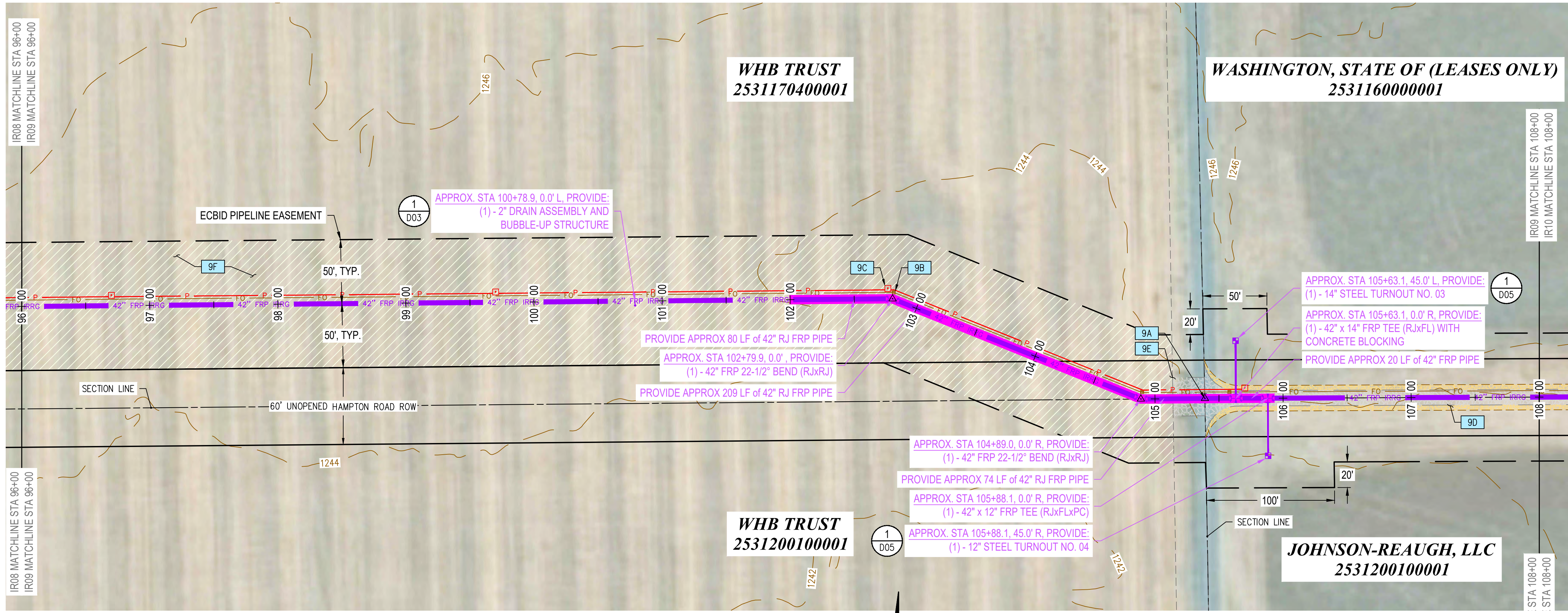
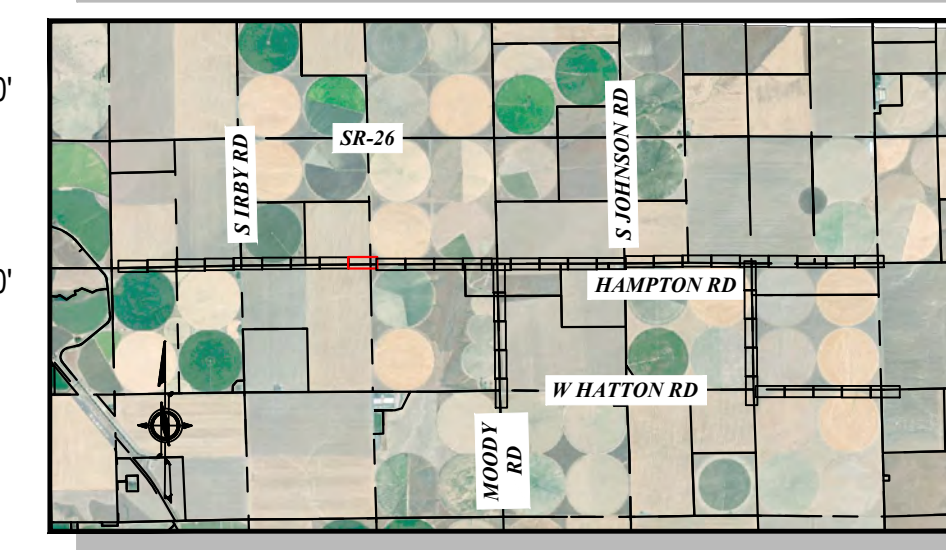
GENERAL NOTES

- EXISTING UTILITIES HAVE NOT BEEN POTHOLED TO IDENTIFY LOCATION, MATERIAL, SIZE OR GEOMETRY. CONTRACTOR MUST POTHOLE ALL EXISTING UTILITIES PRIOR TO LAYING IRRIGATION MAIN.
- SUPPORT AND PROTECT ALL PARALLEL AND CROSSING UTILITIES THAT ARE EXPOSED DURING TRENCH EXCAVATION.
- PROFILE STATIONING AND FITTING CALLOUTS REFERENCE DISTANCE ALONG PIPE ALIGNMENT.
- CENTER OF RIGHT OF WAY, IRRIGATION MAIN, AND CONSTRUCTION ALIGNMENT ARE COLLINEAR, EXCEPT WHERE CALLED OUT ON PLANS.
- PIPELINE SHALL BE INSTALLED PER TRENCH DETAIL. (1) D02
- PLACE COMBINATION ARV AND VAULT AT DISTRICT-APPROVED LOCATION IN EASEMENT.
- PLACE DRAIN ASSEMBLY AND BUBBLE-UP STRUCTURE AT DISTRICT-APPROVED LOCATION IN EASEMENT.
- INSTALL THRUST BLOCKS AT TURNOUT TEES AND PVC MAINLINE FITTINGS ONLY, OR AS APPROVED BY ENGINEER. (1) D04
- REPLACE ALL DISTURBED ROAD SURFACING TO EXISTING OR BETTER CONDITION. ALL PAVEMENT RESTORATION SHALL BE PER APPLICABLE CITY/COUNTY STANDARDS. SEE DWG NO. D08 FOR ADDITIONAL INFORMATION.

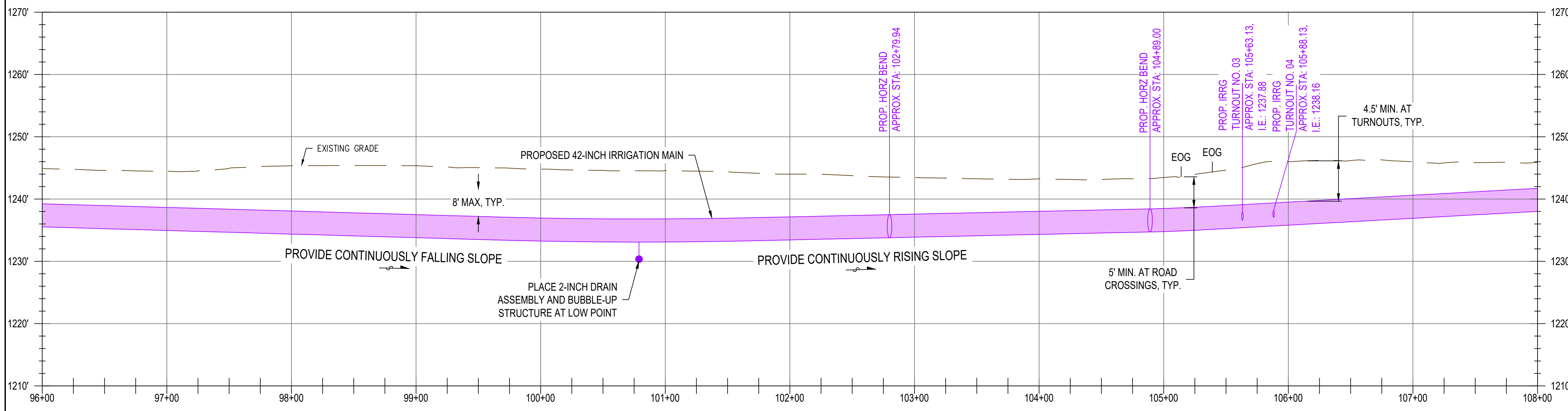
CONSTRUCTION NOTES

- 9A** EXISTING SURVEY CONTROL POINT, CONTRACTOR SHALL PROTECT MONUMENT AND REPLACE IF DAMAGED OR DISTURBED. (1) D05
- 9B** INSTALL 1 1/4-INCH PVC CONDUIT FOR FIBER COMMUNICATIONS ALONG ENTIRE PIPELINE ALIGNMENT AS SHOWN, TYP. INSTALL FIBER PULL VAULTS EVERY 5000FT OR AT EVERY TURNOUT, WHICH EVER COMES FIRST, TYP. (1) D02, (1) E010
- 9C** INSTALL 3-INCH PVC ELECTRICAL CONDUIT FROM POWER POLE TO TURNOUTS ALONG PIPE ALIGNMENT AS SHOWN. ELECTRICAL VAULTS LOCATED EVERY 300FT, TYP. (1) D08
- 9D** CONSTRUCT 12FT GRAVEL ROADWAY WITH 4FT NON-GRAVELED SHOULDERS. (1) D08
- 9E** RESTORE GRAVEL ROADWAY TO PRE-CONSTRUCTION OR BETTER CONDITION. (AC-05) D08
- 9F** RESTORE CULTIVATED FIELD. RETAIN TOP 1-FOOT OF TOPSOIL AND CAREFULLY STOCK PILE ON PROPERTY FROM WHICH IT WAS TAKEN. (2) D08

VICINITY MAP



PLAN VIEW
1" = 50'



EL84.7 PROFILE
H: 1" = 50', V: 1" = 10'

**EAST COLUMBIA BASIN
IRRIGATION DISTRICT
EL 84.7 IRRIGATION MAIN
PLAN & PROFILE IX**



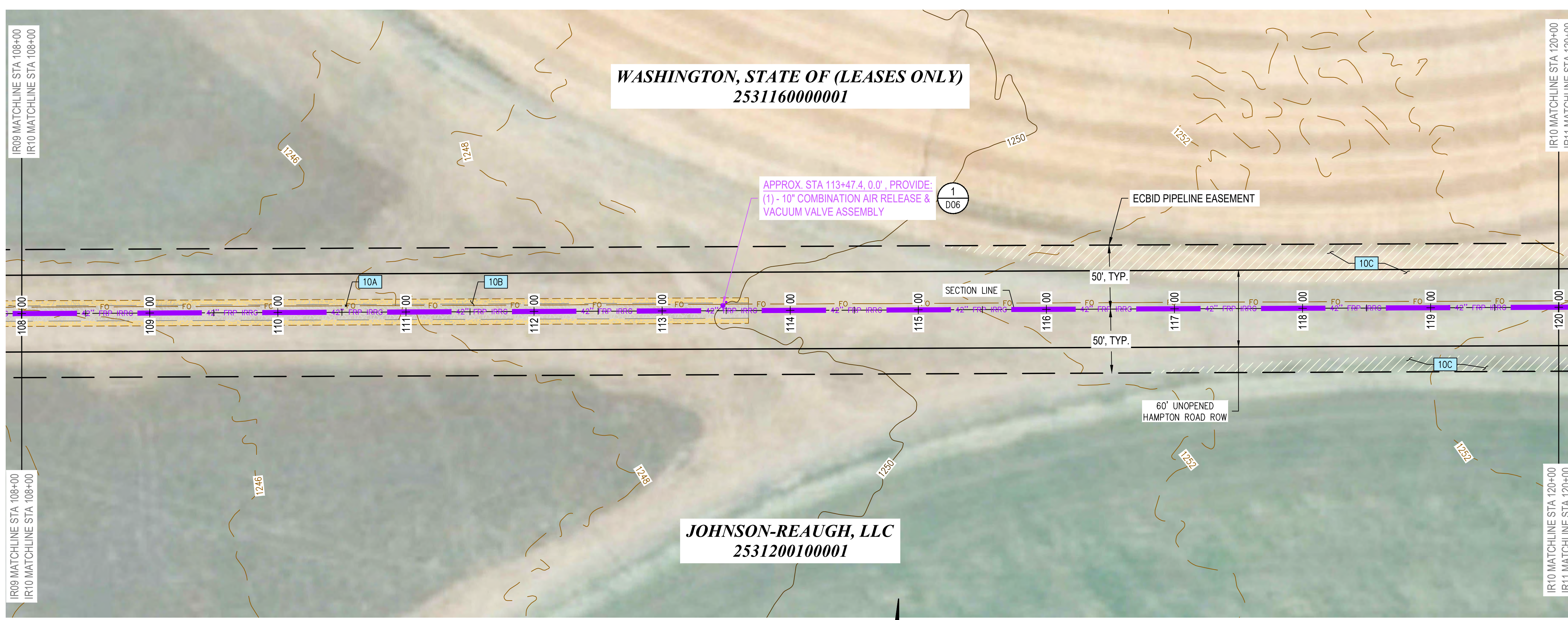
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GENERAL NOTES

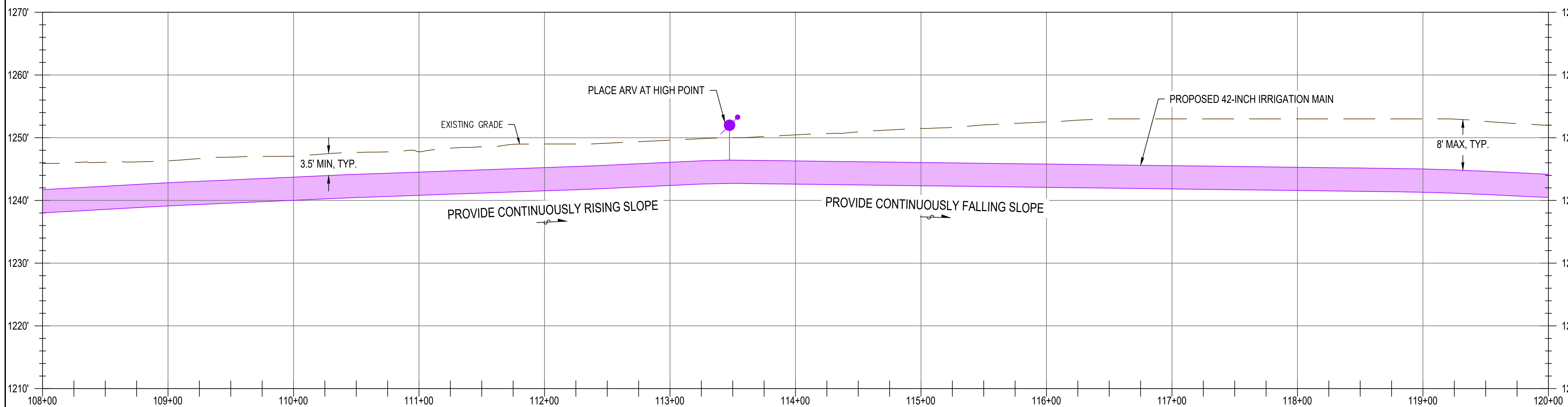
- EXISTING UTILITIES HAVE NOT BEEN POTHOLED TO IDENTIFY LOCATION, MATERIAL, SIZE OR GEOMETRY. CONTRACTOR MUST POTHOLE ALL EXISTING UTILITIES PRIOR TO LAYING IRRIGATION MAIN.
- SUPPORT AND PROTECT ALL PARALLEL AND CROSSING UTILITIES THAT ARE EXPOSED DURING TRENCH EXCAVATION.
- PROFILE STATIONING AND FITTING CALLOUTS REFERENCE DISTANCE ALONG PIPE ALIGNMENT.
- CENTER OF RIGHT OF WAY, IRRIGATION MAIN, AND CONSTRUCTION ALIGNMENT ARE COLLINEAR, EXCEPT WHERE CALLED OUT ON PLANS.
- PIPELINE SHALL BE INSTALLED PER TRENCH DETAIL. (1) D02
- PLACE COMBINATION ARV AND VAULT AT DISTRICT-APPROVED LOCATION IN EASEMENT.
- PLACE DRAIN ASSEMBLY AND BUBBLE-UP STRUCTURE AT DISTRICT-APPROVED LOCATION IN EASEMENT.
- INSTALL THRUST BLOCKS AT TURNOUT TEES AND PVC MAINLINE FITTINGS ONLY, OR AS APPROVED BY ENGINEER. (1) D04
- REPLACE ALL DISTURBED ROAD SURFACING TO EXISTING OR BETTER CONDITION. ALL PAVEMENT RESTORATION SHALL BE PER APPLICABLE CITY/COUNTY STANDARDS. SEE DWG NO. D08 FOR ADDITIONAL INFORMATION.

CONSTRUCTION NOTES

- 10A** INSTALL 1 1/4-INCH PVC CONDUIT FOR FIBER COMMUNICATIONS ALONG ENTIRE PIPELINE ALIGNMENT AS SHOWN, TYP. INSTALL FIBER PULL VAULTS EVERY 5000FT OR AT EVERY TURNOUT, WHICH EVER COMES FIRST, TYP. (1) D02, (1) E010
- 10B** CONSTRUCT 12FT GRAVEL ROADWAY WITH 4FT NON-GRAVELED SHOULDERS. (1) D02
- 10C** RESTORE CULTIVATED FIELD. RETAIN TOP 1-FOOT OF TOPSOIL AND CAREFULLY STOCK PILE ON PROPERTY FROM WHICH IT WAS TAKEN. (2) D08

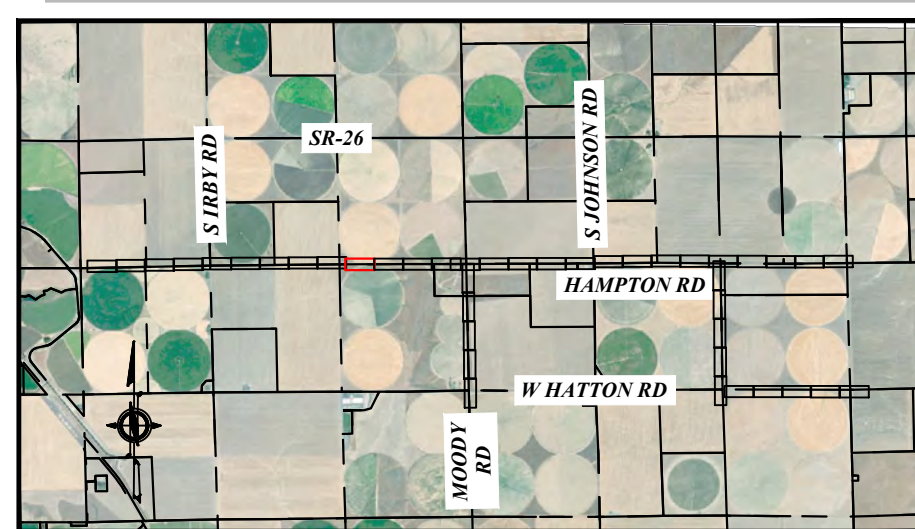


PLAN VIEW
1" = 50'



EL84.7 PROFILE
H: 1" = 50', V: 1" = 10'

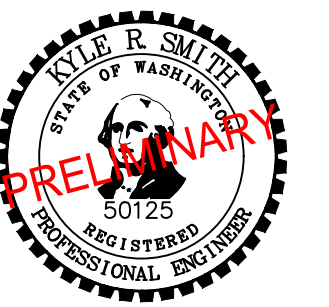
VICINITY MAP



EAST COLUMBIA BASIN
IRRIGATION DISTRICT
EL 84.7 IRRIGATION MAIN
PLAN & PROFILE X



NO.	DATE	DESCRIPTION	BY	REVIEW

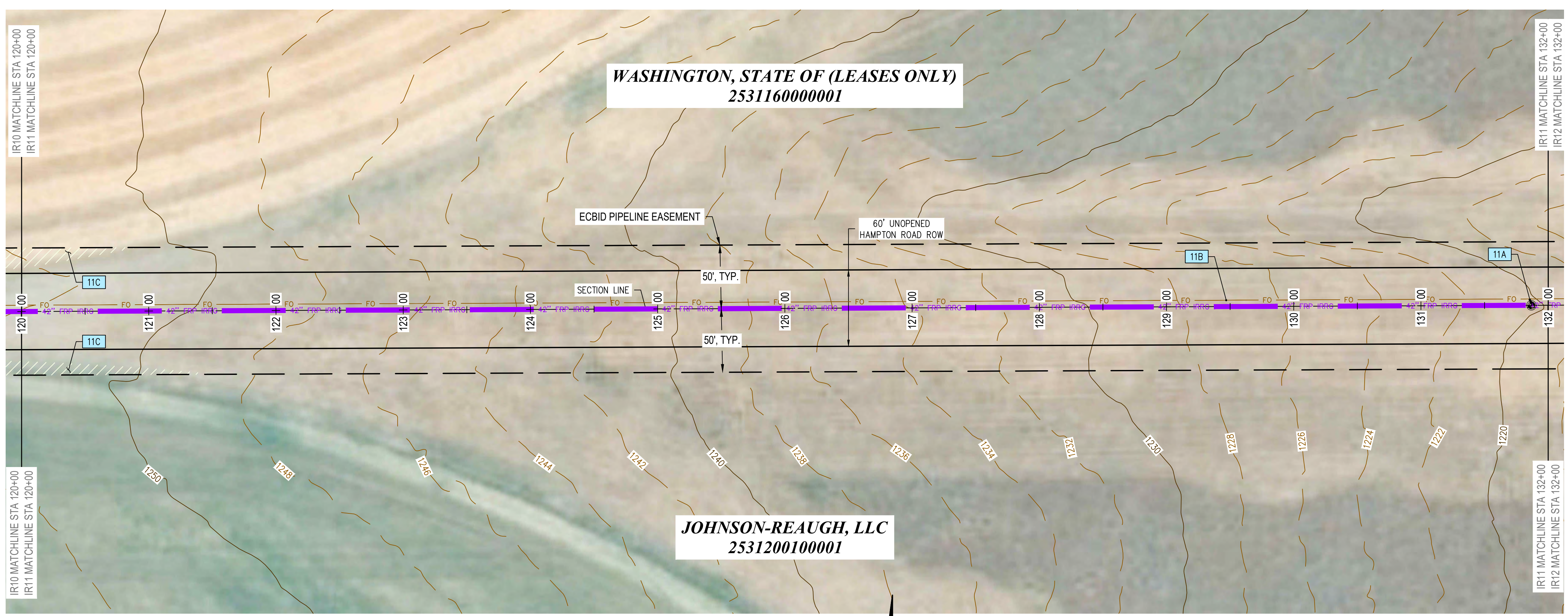


GENERAL NOTES

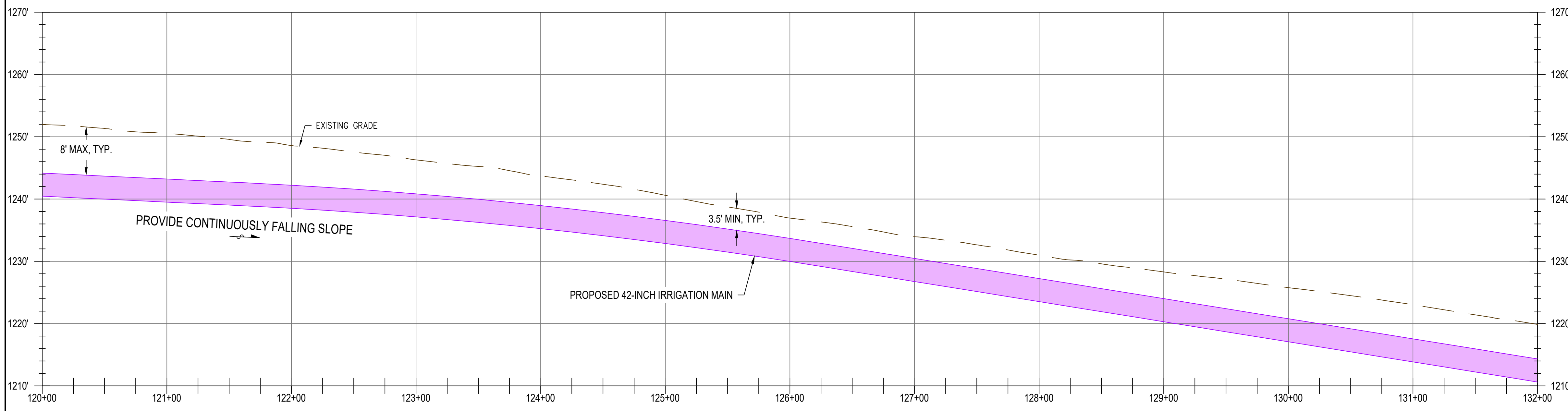
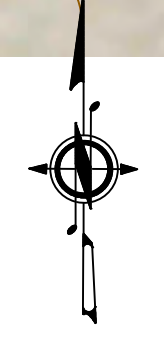
- EXISTING UTILITIES HAVE NOT BEEN POTHOLED TO IDENTIFY LOCATION, MATERIAL, SIZE OR GEOMETRY. CONTRACTOR MUST POTHOLE ALL EXISTING UTILITIES PRIOR TO LAYING IRRIGATION MAIN.
- SUPPORT AND PROTECT ALL PARALLEL AND CROSSING UTILITIES THAT ARE EXPOSED DURING TRENCH EXCAVATION.
- PROFILE STATIONING AND FITTING CALLOUTS REFERENCE DISTANCE ALONG PIPE ALIGNMENT.
- CENTER OF RIGHT OF WAY, IRRIGATION MAIN, AND CONSTRUCTION ALIGNMENT ARE COLLINEAR, EXCEPT WHERE CALLED OUT ON PLANS.
- PIPELINE SHALL BE INSTALLED PER TRENCH DETAIL. (1) D02
- PLACE COMBINATION ARV AND VAULT AT DISTRICT-APPROVED LOCATION IN EASEMENT.
- PLACE DRAIN ASSEMBLY AND BUBBLE-UP STRUCTURE AT DISTRICT-APPROVED LOCATION IN EASEMENT.
- INSTALL THRUST BLOCKS AT TURNOUT TEES AND PVC MAINLINE FITTINGS ONLY, OR AS APPROVED BY ENGINEER. (1) D04
- REPLACE ALL DISTURBED ROAD SURFACING TO EXISTING OR BETTER CONDITION. ALL PAVEMENT RESTORATION SHALL BE PER APPLICABLE CITY/COUNTY STANDARDS. SEE DWG NO. D08 FOR ADDITIONAL INFORMATION.

CONSTRUCTION NOTES

- 11A** EXISTING SURVEY CONTROL POINT, CONTRACTOR SHALL PROTECT MONUMENT AND REPLACE IF DAMAGED OR DISTURBED.
- 11B** INSTALL 1 1/4-INCH PVC CONDUIT FOR FIBER COMMUNICATIONS ALONG ENTIRE PIPELINE ALIGNMENT AS SHOWN, TYP. INSTALL FIBER PULL VAULTS EVERY 5000FT OR AT EVERY TURNOUT, WHICH EVER COMES FIRST, TYP. (1) D02 (1) E010
- 11C** RESTORE CULTIVATED FIELD. RETAIN TOP 1-FOOT OF TOPSOIL AND CAREFULLY STOCK PILE ON PROPERTY FROM WHICH IT WAS TAKEN. (2) D08

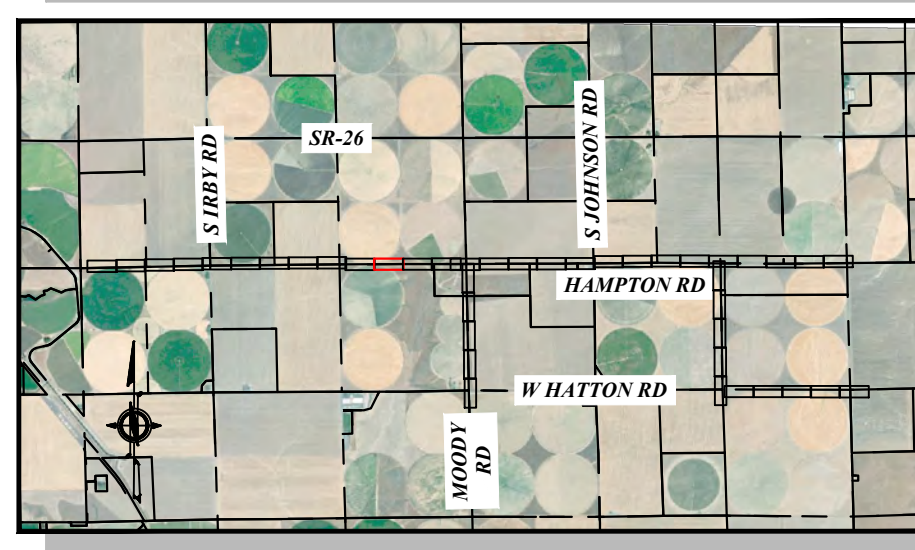


PLAN VIEW
1" = 50'



EL84.7 PROFILE
H: 1" = 50', V: 1" = 10'

VICINITY MAP

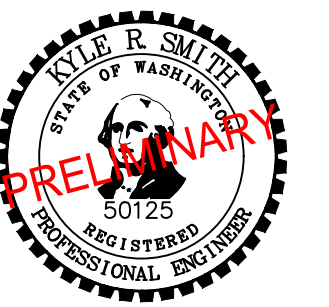


**EAST COLUMBIA BASIN
IRRIGATION DISTRICT
EL 84.7 IRRIGATION MAIN**

PLAN & PROFILE XI



NO.	DATE	DESCRIPTION	BY	REVIEW

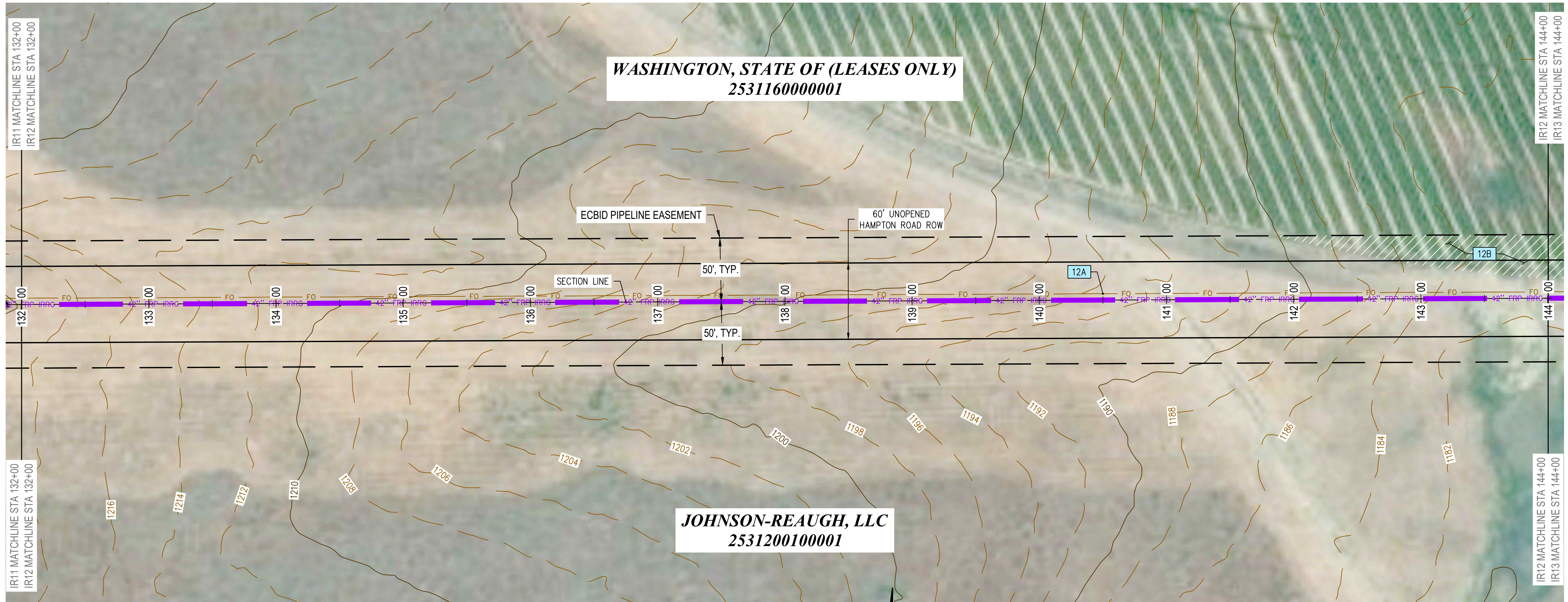


GENERAL NOTES

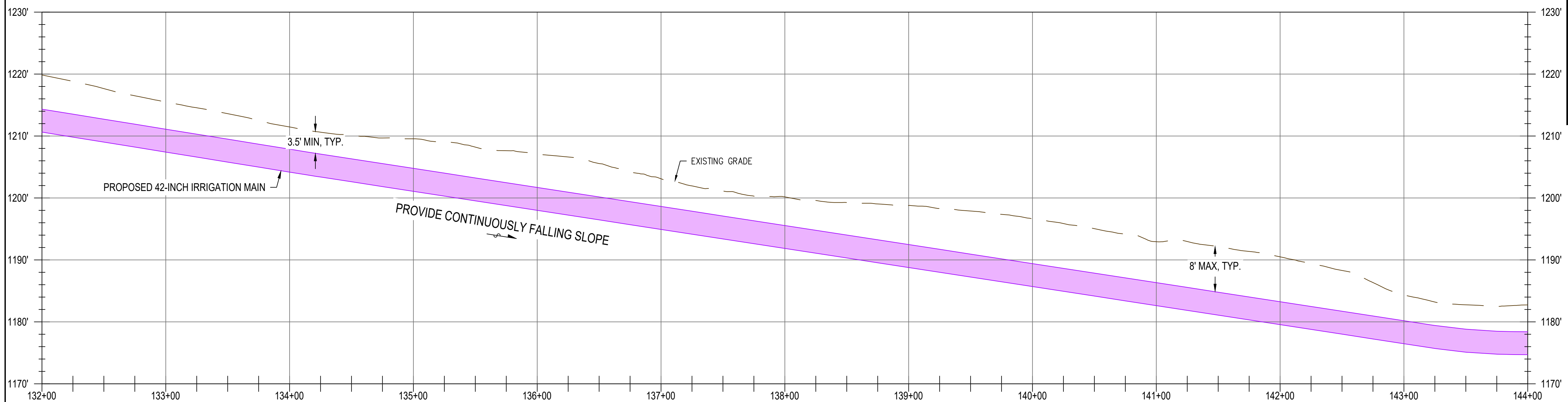
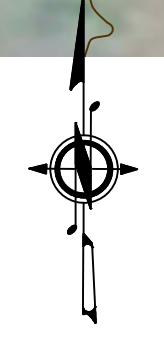
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- SUPPORT AND PROTECT ALL PARALLEL AND CROSSING UTILITIES THAT ARE EXPOSED DURING TRENCH EXCAVATION.
- PROFILE STATIONING AND FITTING CALLOUTS REFERENCE DISTANCE ALONG PIPE ALIGNMENT.
- CENTER OF RIGHT OF WAY, IRRIGATION MAIN, AND CONSTRUCTION ALIGNMENT ARE COLLINEAR, EXCEPT WHERE CALLED OUT ON PLANS.
- PIPELINE SHALL BE INSTALLED PER TRENCH DETAIL. 1 D02
- PLACE COMBINATION ARV AND VAULT AT DISTRICT-APPROVED LOCATION IN EASEMENT.
- PLACE DRAIN ASSEMBLY AND BUBBLE-UP STRUCTURE AT DISTRICT-APPROVED LOCATION IN EASEMENT.
- INSTALL THRUST BLOCKS AT TURNOUT TEES AND PVC MAINLINE FITTINGS ONLY, OR AS APPROVED BY ENGINEER. 1 D04
- REPLACE ALL DISTURBED ROAD SURFACING TO EXISTING OR BETTER CONDITION. ALL PAVEMENT RESTORATION SHALL BE PER APPLICABLE CITY/COUNTY STANDARDS. SEE DWG NO. D08 FOR ADDITIONAL INFORMATION.

CONSTRUCTION NOTES

- 12A** INSTALL 1 1/4-INCH PVC CONDUIT FOR FIBER COMMUNICATIONS ALONG ENTIRE PIPELINE ALIGNMENT AS SHOWN, TYP. INSTALL FIBER PULL VAULTS EVERY 5000FT OR AT EVERY TURNOUT, WHICH EVER COMES FIRST, TYP. 1 D02 1 E010
- 12B** RESTORE CULTIVATED FIELD. RETAIN TOP 1-FOOT OF TOPSOIL AND CAREFULLY STOCK PILE ON PROPERTY FROM WHICH IT WAS TAKEN. 2 D08

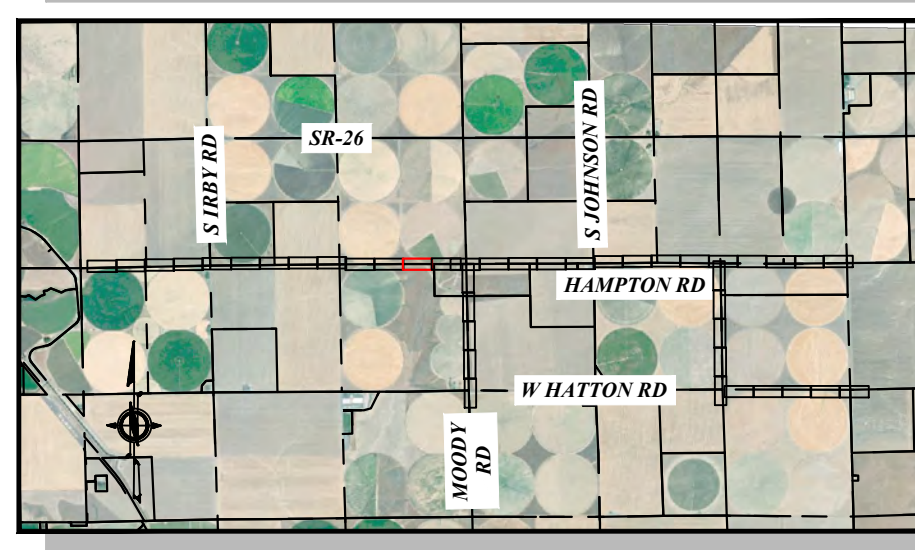


PLAN VIEW
1" = 50'



EL84.7 PROFILE
H: 1" = 50', V: 1" = 10'

VICINITY MAP

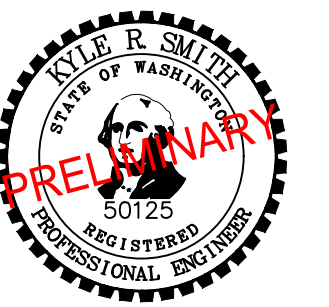


**EAST COLUMBIA BASIN
IRRIGATION DISTRICT
EL 84.7 IRRIGATION MAIN**

PLAN & PROFILE XII



ENGINEER: TBC	DATE: Nov 2, 2023	CLIENT: ECCID	JOB NO.: 20-0078
REVIEWER: KRS	DATE: Nov 2, 2023	FILENAME: EL84_7-P-IRRIPI.DWG	
REVISIONS			
NO.	DATE	DESCRIPTION	BY
		60% DESIGN	
SCALE: SHOWN			
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"			
DWG NO.: IR12	SHEET NO.: 21		

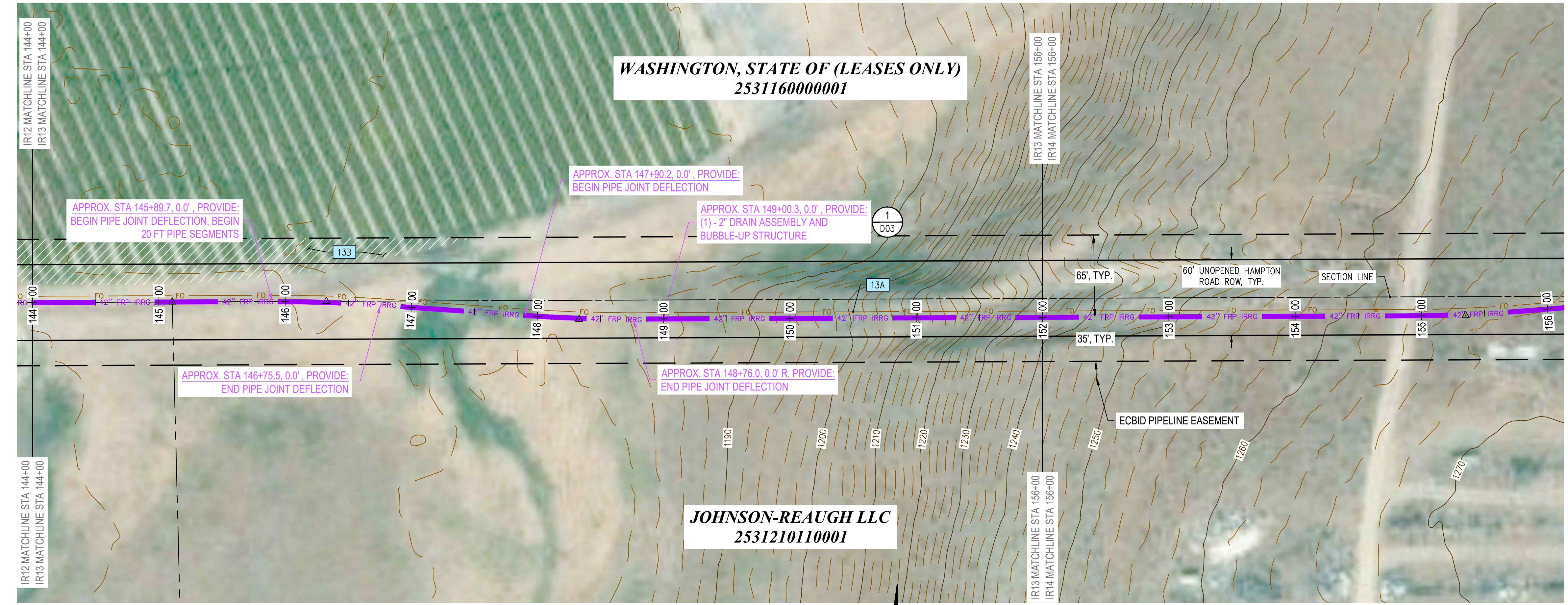


GENERAL NOTES

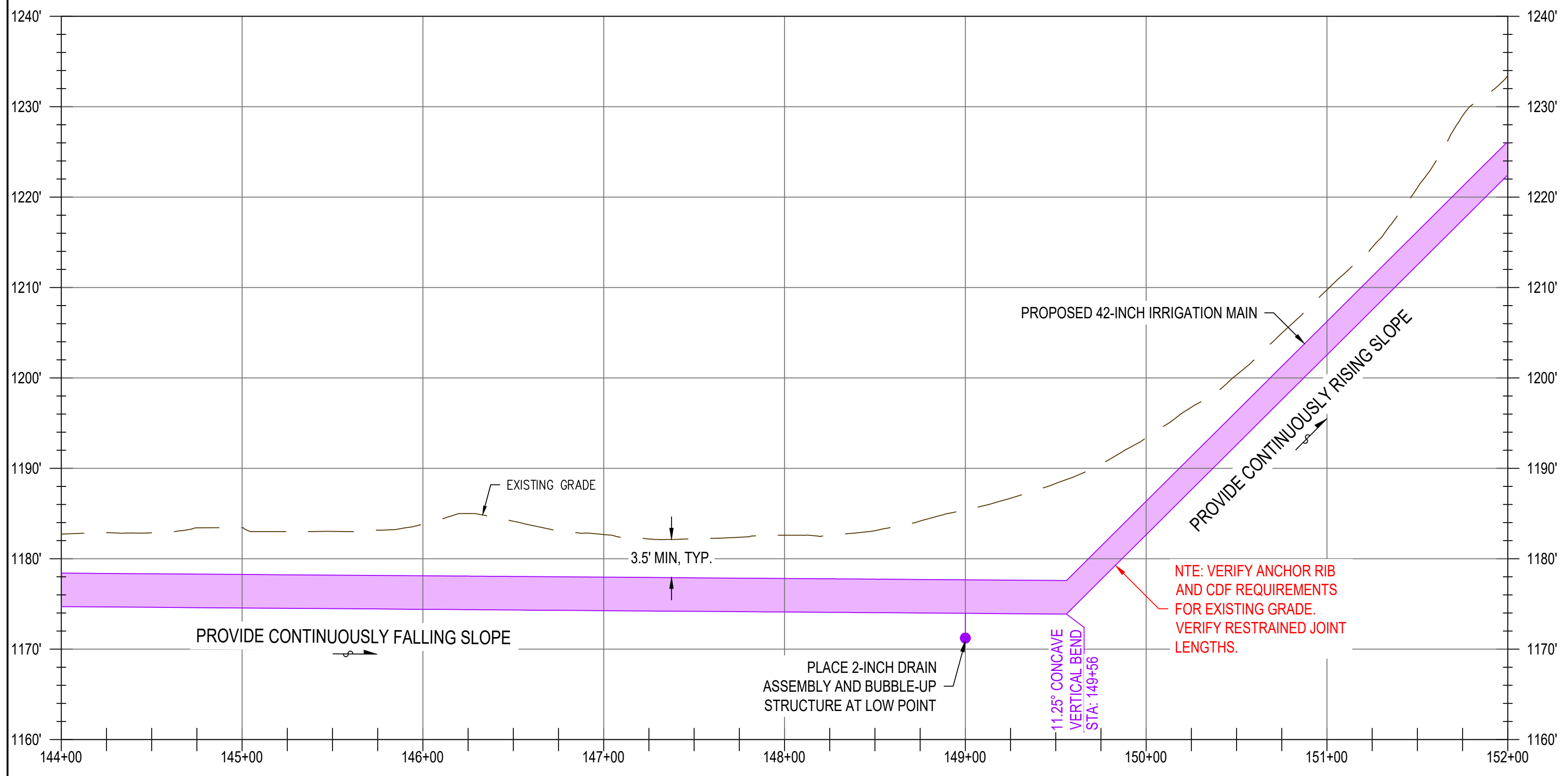
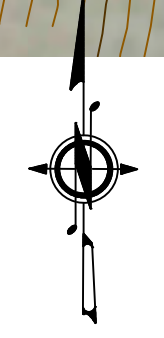
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- CENTER OF RIGHT OF WAY, IRRIGATION MAIN, AND CONSTRUCTION ALIGNMENT ARE COLLINEAR, EXCEPT WHERE CALLED OUT ON PLANS.
- PIPELINE SHALL BE INSTALLED PER TRENCH DETAIL. (1) D02
- PLACE COMBINATION ARV AND VAULT AT DISTRICT-APPROVED LOCATION IN EASEMENT.
- PLACE DRAIN ASSEMBLY AND BUBBLE-UP STRUCTURE AT DISTRICT-APPROVED LOCATION IN EASEMENT. (1) D04
- INSTALL THRUST BLOCKS AT TURNOUT TEES AND PVC MAINLINE FITTINGS ONLY, OR AS APPROVED BY ENGINEER.
- REPLACE ALL DISTURBED ROAD SURFACING TO EXISTING OR BETTER CONDITION. ALL PAVEMENT RESTORATION SHALL BE PER APPLICABLE CITY/COUNTY STANDARDS. SEE DWG NO. D08 FOR ADDITIONAL INFORMATION.

CONSTRUCTION NOTES

- 13A** (1) D02 (1) E010
INSTALL 1 1/4-INCH PVC CONDUIT FOR FIBER COMMUNICATIONS ALONG ENTIRE PIPELINE ALIGNMENT AS SHOWN, TYP. INSTALL FIBER PULL VAULTS EVERY 5000FT OR AT EVERY TURNOUT, WHICH EVER COMES FIRST, TYP.
- 13B** (2) D08
RESTORE CULTIVATED FIELD. RETAIN TOP 1-FOOT OF TOPSOIL AND CAREFULLY STOCK PILE ON PROPERTY FROM WHICH IT WAS TAKEN.

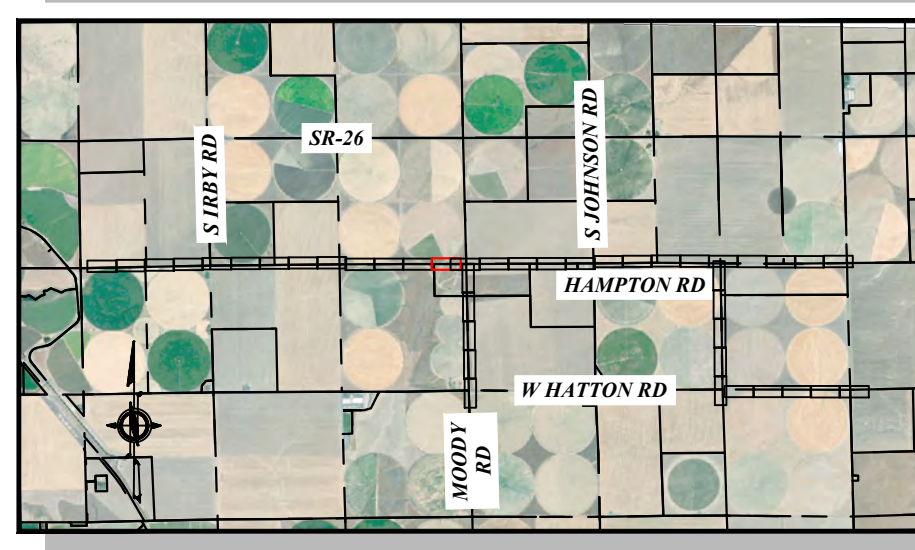


PLAN VIEW
1" = 50'



EL84.7 PROFILE
H: 1" = 50', V: 1" = 10'

VICINITY MAP

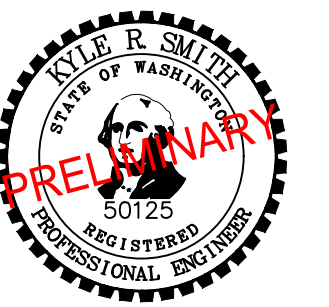


**EAST COLUMBIA BASIN
IRRIGATION DISTRICT
EL 84.7 IRRIGATION MAIN**

PLAN & PROFILE XIII



NO.	DATE	DESCRIPTION	BY	REVIEW
REVISIONS				
		60% DESIGN		



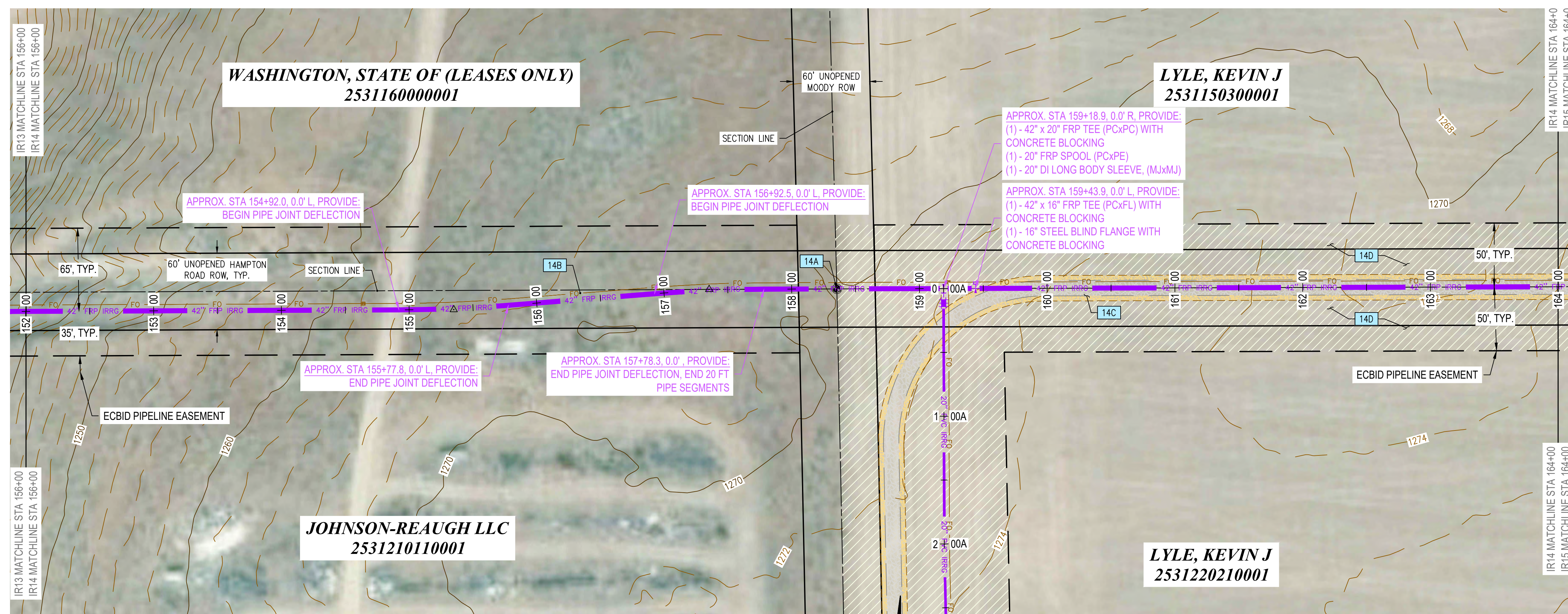
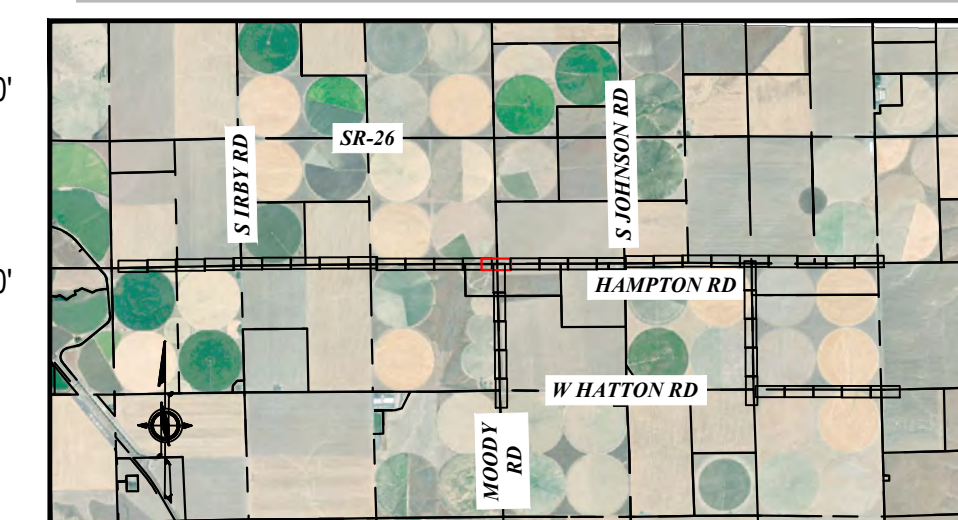
GENERAL NOTES

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- SUPPORT AND PROTECT ALL PARALLEL AND CROSSING UTILITIES THAT ARE EXPOSED DURING TRENCH EXCAVATION.
- PROFILE STATIONING AND FITTING CALLOUTS REFERENCE DISTANCE ALONG PIPE ALIGNMENT.
- CENTER OF RIGHT OF WAY, IRRIGATION MAIN, AND CONSTRUCTION ALIGNMENT ARE COLLINEAR, EXCEPT WHERE CALLED OUT ON PLANS.
- PIPELINE SHALL BE INSTALLED PER TRENCH DETAIL. (1 D02)
- PLACE COMBINATION ARV AND VAULT AT DISTRICT-APPROVED LOCATION IN EASEMENT.
- PLACE DRAIN ASSEMBLY AND BUBBLE-UP STRUCTURE AT DISTRICT-APPROVED LOCATION IN EASEMENT.
- INSTALL THRUST BLOCKS AT TURNOUT TEES AND PVC MAINLINE FITTINGS ONLY, OR AS APPROVED BY ENGINEER. (1 D04)
- REPLACE ALL DISTURBED ROAD SURFACING TO EXISTING OR BETTER CONDITION. ALL PAVEMENT RESTORATION SHALL BE PER APPLICABLE CITY/COUNTY STANDARDS. SEE DWG NO. D08 FOR ADDITIONAL INFORMATION.

CONSTRUCTION NOTES

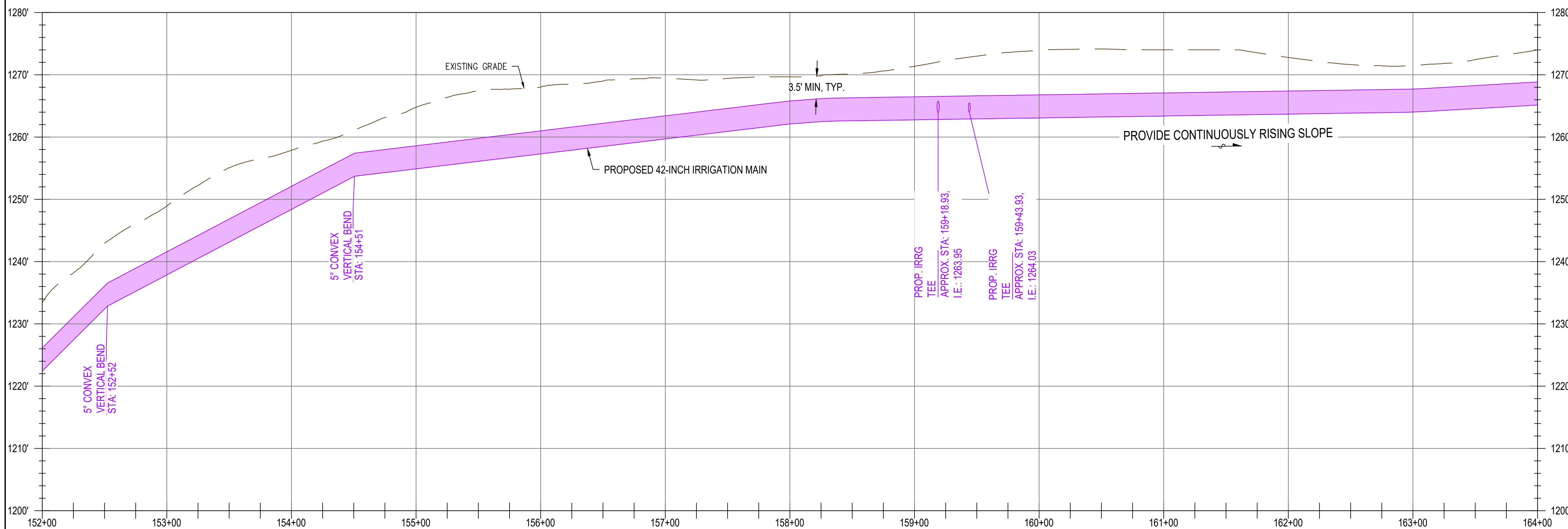
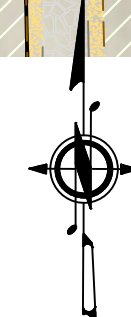
- 14A** EXISTING SURVEY CONTROL POINT, CONTRACTOR SHALL PROTECT MONUMENT AND REPLACE IF DAMAGED OR DISTURBED. (1 D02)
- 14B** INSTALL 1 1/4-INCH PVC CONDUIT FOR FIBER COMMUNICATIONS ALONG ENTIRE PIPELINE ALIGNMENT AS SHOWN, TYP. INSTALL FIBER PULL VAULTS EVERY 5000FT OR AT EVERY TURNOUT, WHICH EVER COMES FIRST, TYP. (1 E010)
- 14C** CONSTRUCT 12FT GRAVEL ROADWAY WITH 4FT NON-GRAVELED SHOULDERS. (1 D02)
- 14D** RESTORE CULTIVATED FIELD. RETAIN TOP 1-FOOT OF TOPSOIL AND CAREFULLY STOCK PILE ON PROPERTY FROM WHICH IT WAS TAKEN. (2 D08)

VICINITY MAP



PLAN VIEW

1" = 50'



EL84.7 PROFILE

H: 1" = 50', V: 1" = 10'

**EAST COLUMBIA BASIN
IRRIGATION DISTRICT
EL 84.7 IRRIGATION MAIN**

PLAN & PROFILE XIV

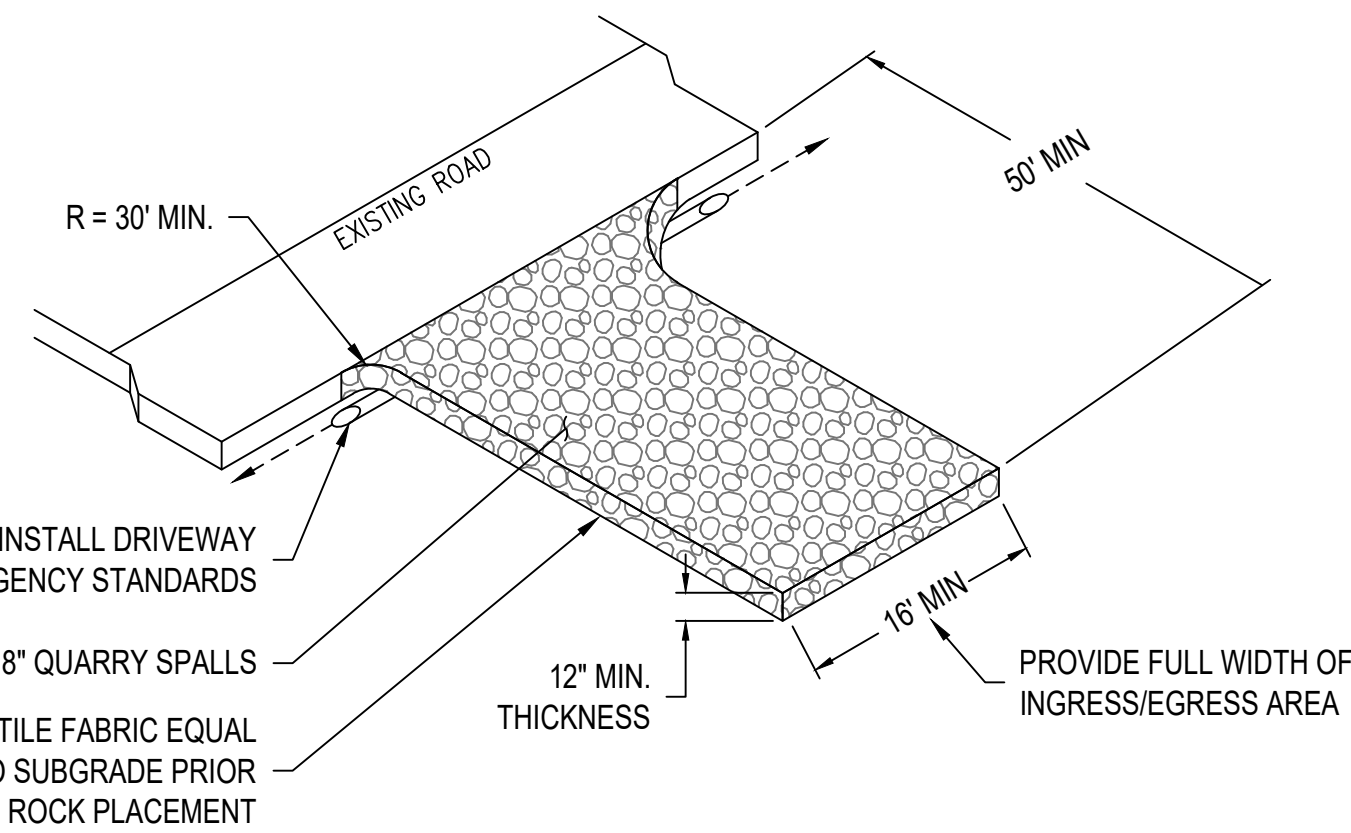


NO.	DATE	DESCRIPTION	BY	REVIEW

ENGINEER: TBC	DATE: Nov 2, 2023	JOB NO.: 20-0078
REVIEWED: KRS	DATE: Nov 2, 2023	FILE NAME: EL84_7-P-IRRIPI.DWG
REVISIONS		
60% DESIGN		
SCALE: SHOWN		
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"		
DWG NO.: IR14	SHEET NO.: 23	74

EROSION CONTROL NOTES

1. THE IMPLEMENTATION OF THESE EROSION CONTROL REQUIREMENTS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THEM IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED AND PERMANENT VEGETATION IS ESTABLISHED. THE ESC REQUIREMENTS ARE REQUIRED TO BE INSTALLED PRIOR TO BEGINNING CONSTRUCTION.
2. THE EROSION CONTROL FACILITIES SHOWN ON THESE PLANS ARE NECESSARY TO PREVENT EROSION AND SEDIMENT LADEN WATER FROM LEAVING THE SITE. THESE FACILITIES ARE MINIMUM REQUIREMENTS AND MAY NEED TO BE UPGRADED TO CONTROL EROSION AND SEDIMENTATION. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL ANY EROSION CONTROL FACILITIES NECESSARY TO PREVENT SEDIMENT LADEN WATER FROM LEAVING THE SITE.
3. ANY AREA STRIPPED OF VEGETATION, INCLUDING ROADWAY EMBANKMENTS, WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 14 DAYS, SHALL BE IMMEDIATELY STABILIZED WITH TEMPORARY HYDROSEED AND STRAW MULCH OR THE PERMANENT VEGETATION COVER. AREAS WITH SLOPES 3:1 OR GREATER SHALL IMMEDIATELY BE STABILIZED USING MULCH AND SEEDING. IN AREAS WHERE PERMANENT SEEDING IS REQUIRED, ALL TEMPORARY AND EXISTING VEGETATION SHALL BE REMOVED PRIOR TO PERMANENT SEEDING.
4. THE EROSION CONTROL FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A STORM EVENT.
5. STABILIZED CONSTRUCTION ENTRANCES AND WASH PADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. A CONSTRUCTION FENCE SHALL BE PLACED AROUND THE PERIMETER OF THE PROPERTY TO IDENTIFY CONSTRUCTION GRADING LIMITS.
6. TEMPORARY RUNOFF CONVEYANCE SHALL BE INSTALLED TO PREVENT RUNOFF FROM ENTERING THE PROPOSED BUILDING PAD AND PARKING LOT AREAS DURING AND UPON COMPLETION OF THE SITE GRADING.
7. SLOPE ROUGHENING IS REQUIRED ON ALL EMBANKMENTS WITH SLOPES OF 3:1 OR GREATER. USE DOZER TREADS TO CREATE GROOVES PERPENDICULAR TO SLOPE DIRECTION.
8. DURING CONSTRUCTION, FILTER FABRIC SHALL BE PLACED IN ALL CATCH BASIN INLET GRATES AND MAINTAINED AS REQUIRED TO PREVENT CLOGGING.
9. SPRAY WATER AS NEEDED TO CONTROL DUST.
10. PROTECT BORROW AND STOCKPILE AREAS FROM EROSION WITH STRAW MULCH AND/OR TEMPORARY SEEDING.
11. ALL TEMPORARY ESC MEASURES SHALL BE REMOVED UPON STABILIZATION OF THE SITE. TRAPPED SEDIMENT SHALL BE REMOVED.



IF A ROADSIDE DITCH IS PRESENT, INSTALL DRIVEWAY CULVERT PER LOCAL ROAD AGENCY STANDARDS

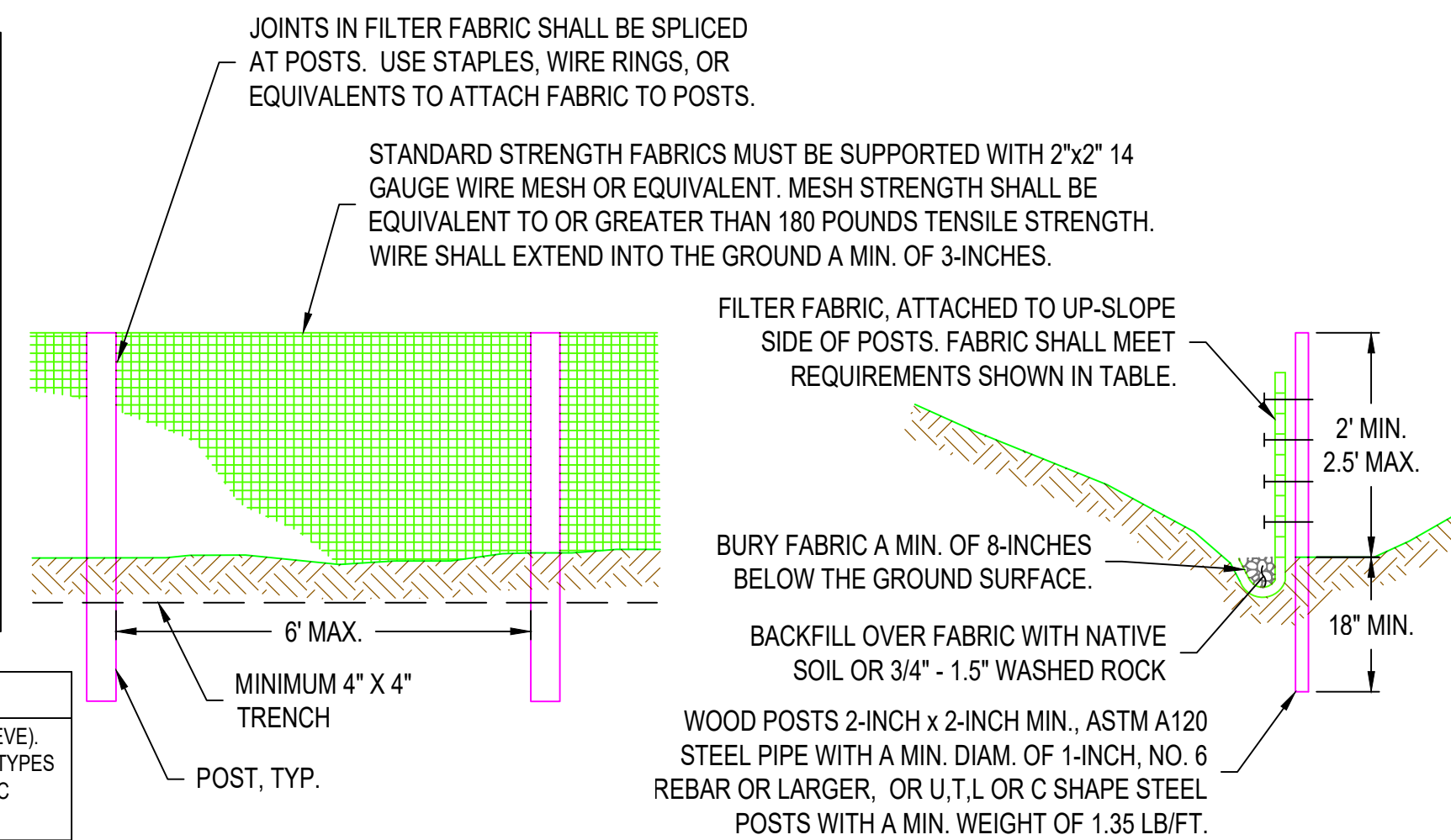
4" TO 8" QUARRY SPALLS
PROVIDE GEOTEXTILE FABRIC EQUAL TO MIRAFI 140N TO SUBGRADE PRIOR TO ROCK PLACEMENT

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

1
TYP.

- SILT FENCE NOTES:**
1. FILTER FABRIC MATERIAL SHALL CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0°F TO 120°F.
 2. FILTER FABRIC FENCES SHALL BE INSTALLED AS SHOWN PER PLAN. ADJUST AS NECESSARY TO FOLLOW CONTOUR WHENEVER POSSIBLE. THE ENDS OF THE FENCE SHALL BE TURNED UP INTO THE CONTOUR.
 3. FILTER FABRIC SHALL BE SEWN TOGETHER AT THE POINT OF MANUFACTURE TO FORM FILTER FABRIC LENGTHS AS REQUIRED. ALTERNATIVELY TWO SECTIONS OF FENCE CAN BE OVERLAPPED, PROVIDE THAT THE CONTRACTOR CAN DEMONSTRATE, TO THE SATISFACTION OF THE ENGINEER, THAT THE OVERLAP IS LONG ENOUGH AND THAT THE ADJACENT FENCE SECTIONS ARE CLOSE ENOUGH TOGETHER TO PREVENT SILT LADEN WATER FROM ESCAPING THE FENCE OVERLAP.

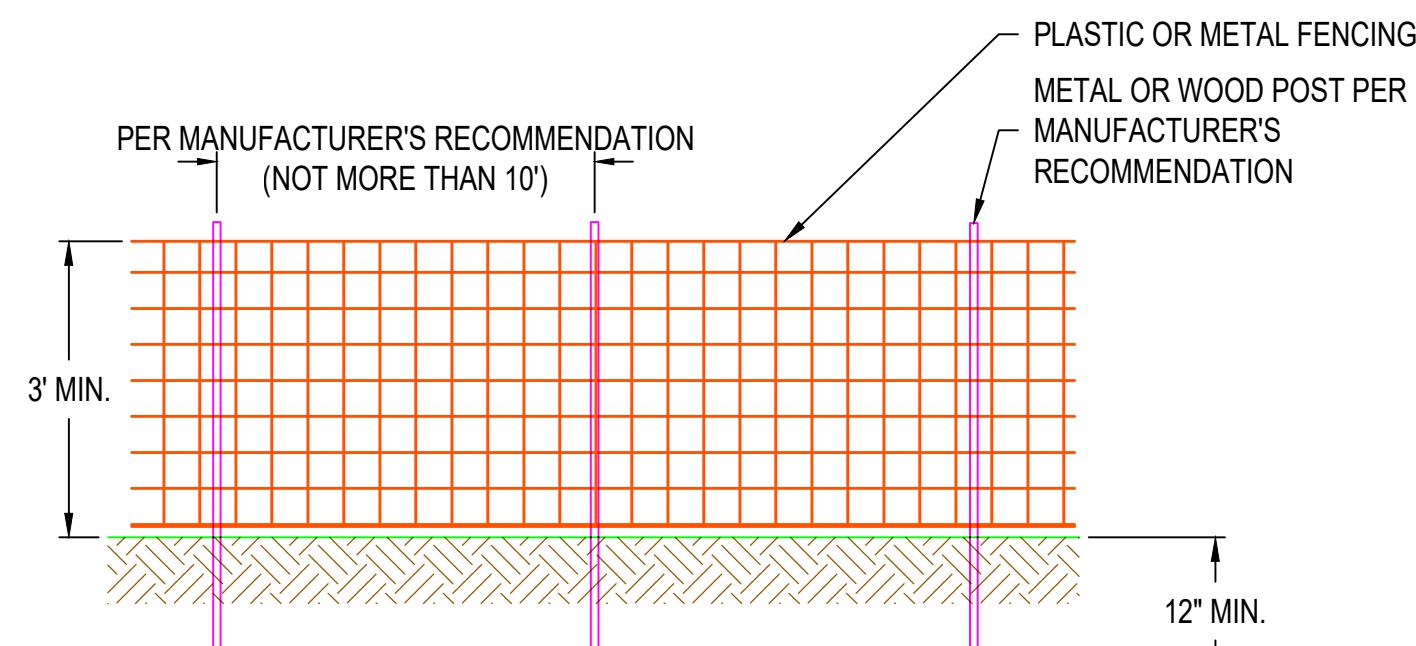


SILT FENCE

NOT TO SCALE

2
TYP.

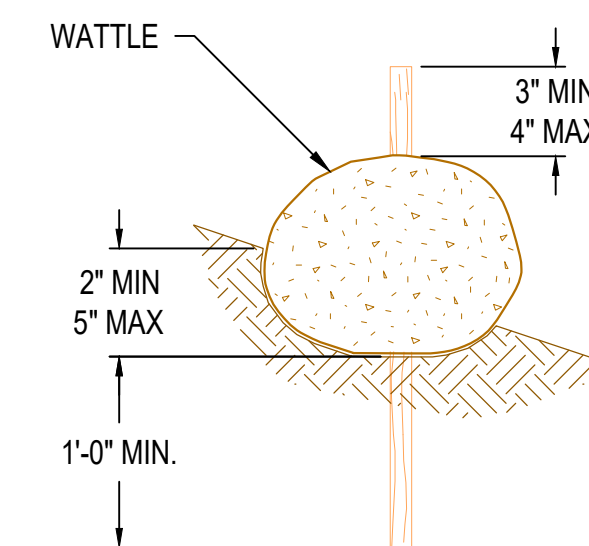
FILTER FABRIC	
POLYMERIC MESH AOS (ASTM D4751)	0.60 MM MAXIMUM FOR FILM WOVENS (US #30 SIEVE), 0.30 MM MAXIMUM FOR ALL OTHER GEOTEXTILE TYPES (US #50 SIEVE), 0.15 MM MINIMUM FOR ALL FABRIC TYPES (US #100 SIEVE).
WATER PERMITTIVITY (ASTM D4491)	0.02 SEC ⁻¹ MINIMUM
GRAB TENSILE STRENGTH (ASTM D4632)	180 LBS. MINIMUM FOR EXTRA STRENGTH FABRIC, 100 LBS. MINIMUM FOR STANDARD STRENGTH FABRIC.
GRAB TENSILE ELONGATION (ASTM D4632)	30% MAXIMUM.
ULTRAVIOLET RESISTANCE (ASTM D4355)	70% MINIMUM.



HIGH VISIBILITY CONSTRUCTION FENCE

NOT TO SCALE

3
TYP.



WATTLE NOTES:

1. WATTLES SHALL BE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 9-14.5(5). INSTALL WATTLES ALONG CONTOURS. INSTALLATION SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION 8-01.3(10).
2. SECURELY KNOT EACH END OF WATTLE. ABUT ADJACENT WATTLES TIGHTLY, END TO END, WITHOUT OVERLAPPING THE ENDS.
3. PILOT HOLES MAY BE DRIVEN THROUGH THE WATTLES AND INTO THE SOIL WHEN SOIL CONDITIONS REQUIRE.
4. LIVE STAKES MAY BE USED FOR PERMANENT INSTALLATION AND SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION 9-14.5(6).
5. WATTLES SHALL BE INSPECTED REGULARLY, AND IMMEDIATELY AFTER A RAINFALL PRODUCES RUNOFF, TO ENSURE THEY REMAIN THOROUGHLY ENTRENCHED AND IN CONTACT WITH THE SOIL.
6. PERFORM MAINTENANCE IN ACCORDANCE WITH STANDARD SPECIFICATION 8-01.3(15).

STRAW WATTLES

NOT TO SCALE

4
TYP.

EAST COLUMBIA BASIN
IRRIGATION DISTRICT
EL 84.7 IRRIGATION MAIN

TESC DETAILS



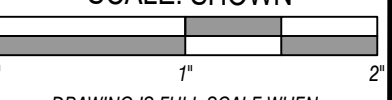
JOB NO.: 20-0078
CLIENT: ECBID
ENGINEER: JZL
DATE: Nov 2, 2023
REVIEWER: KRS
DATE: Nov 2, 2023
FILENAME: EL84_7-D-D-DET.DWG

REVISIONS

60% DESIGN

NO.	DATE	DESCRIPTION	BY	REVIEW

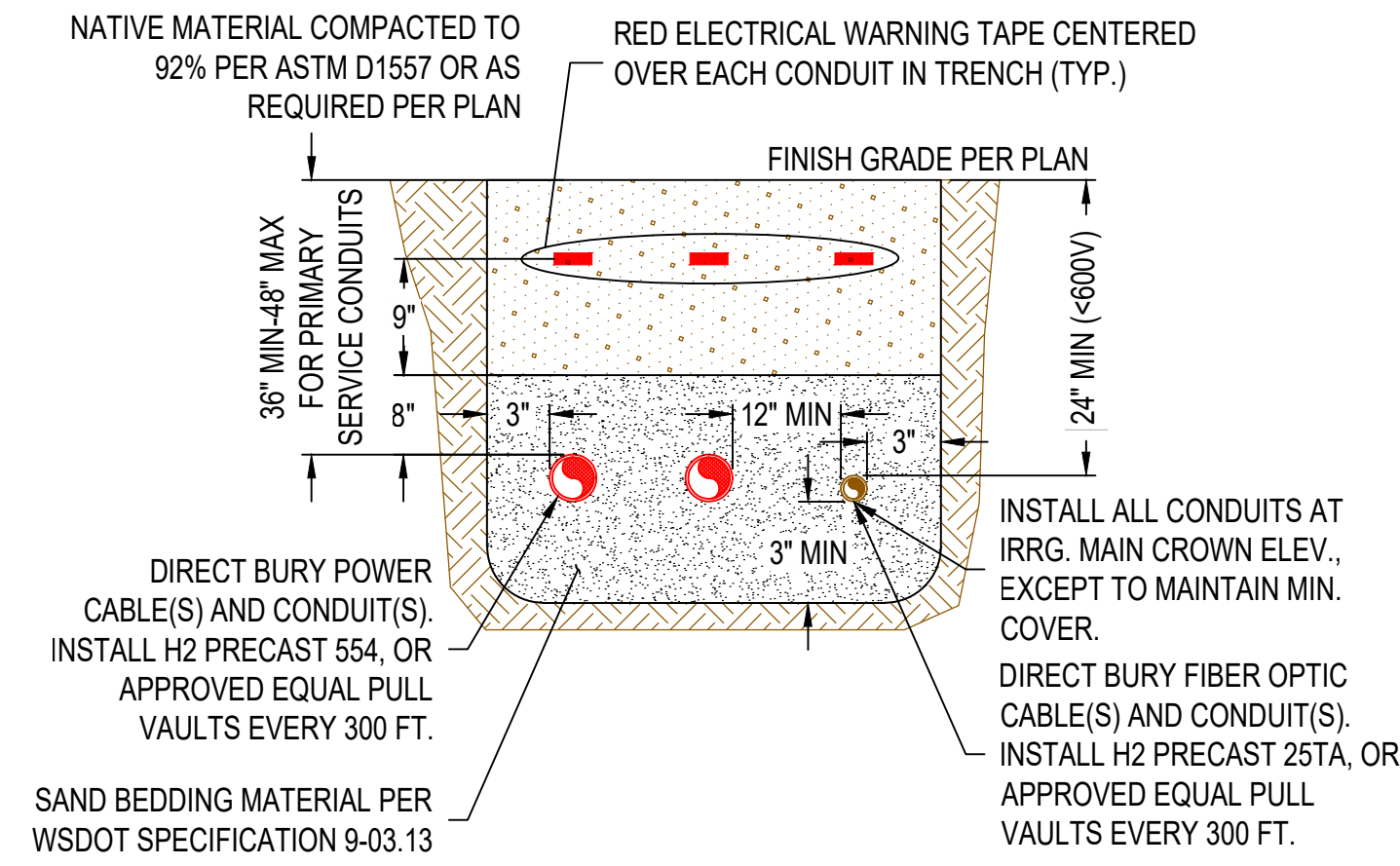
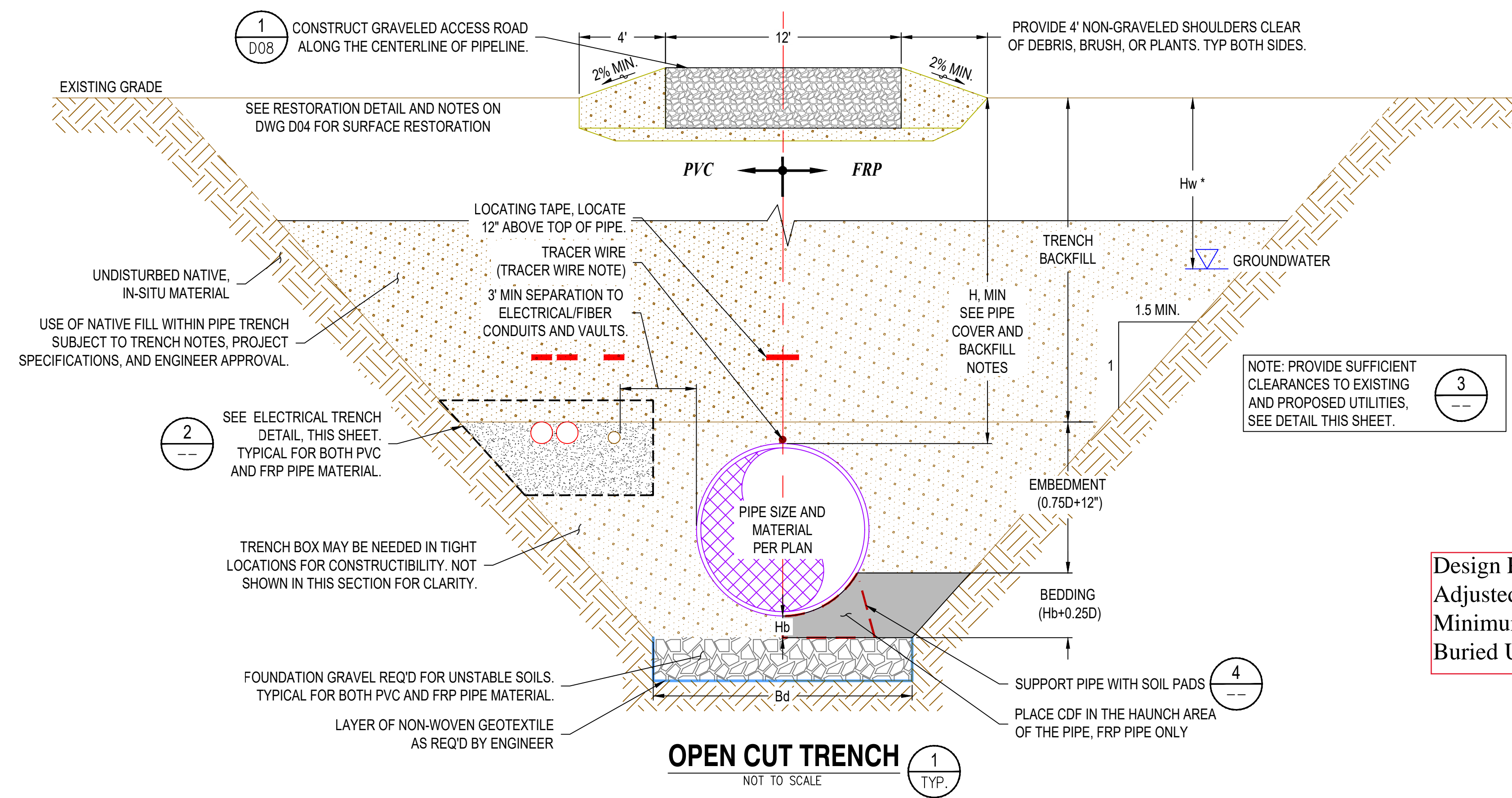
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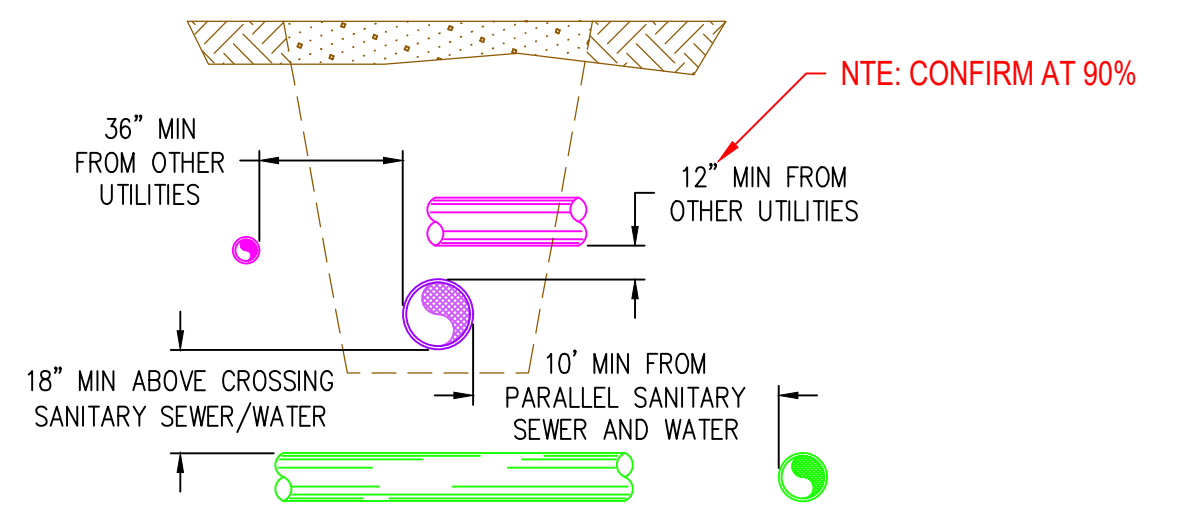
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: D01 SHEET NO.: 52 OF 74

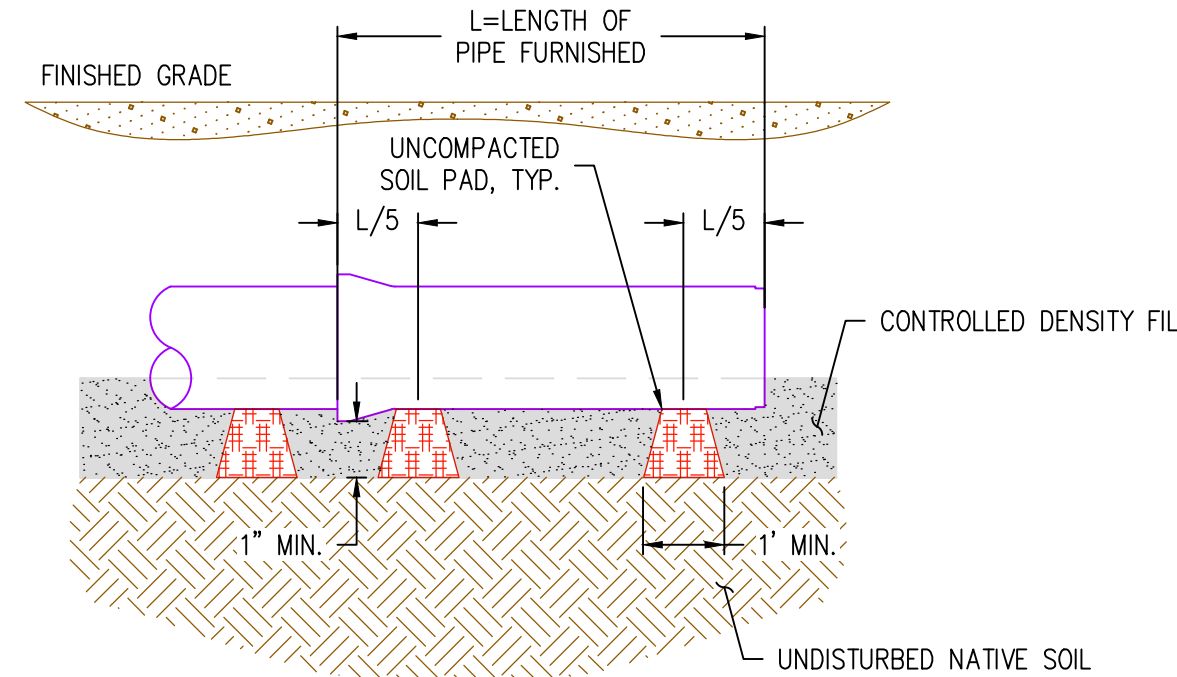
NO.	DATE	DESCRIPTION	BY	REVIEW



TYPICAL ELECTRICAL TRENCH DETAIL (2)
NOT TO SCALE



CLEARANCES (3)
NOT TO SCALE



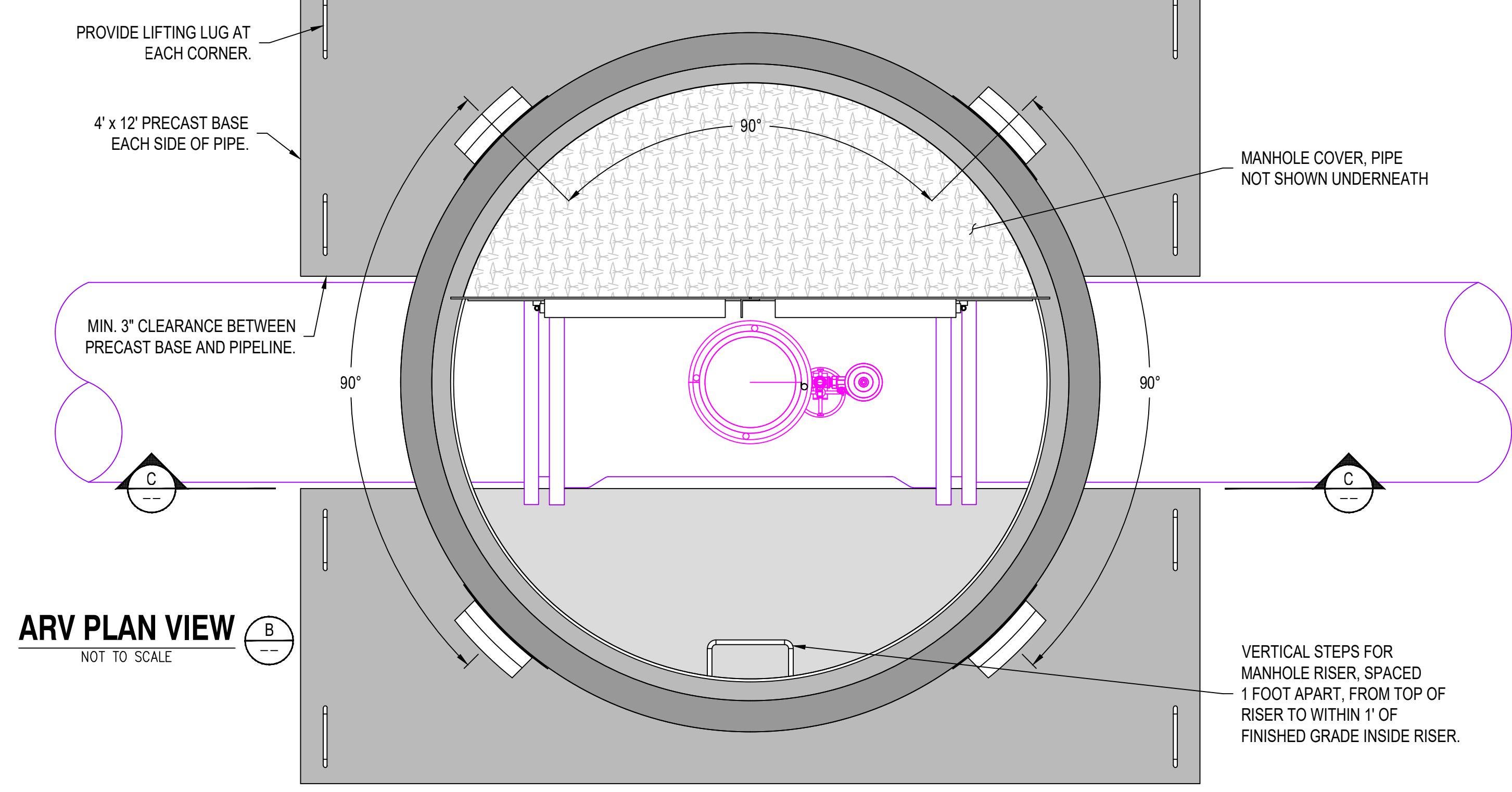
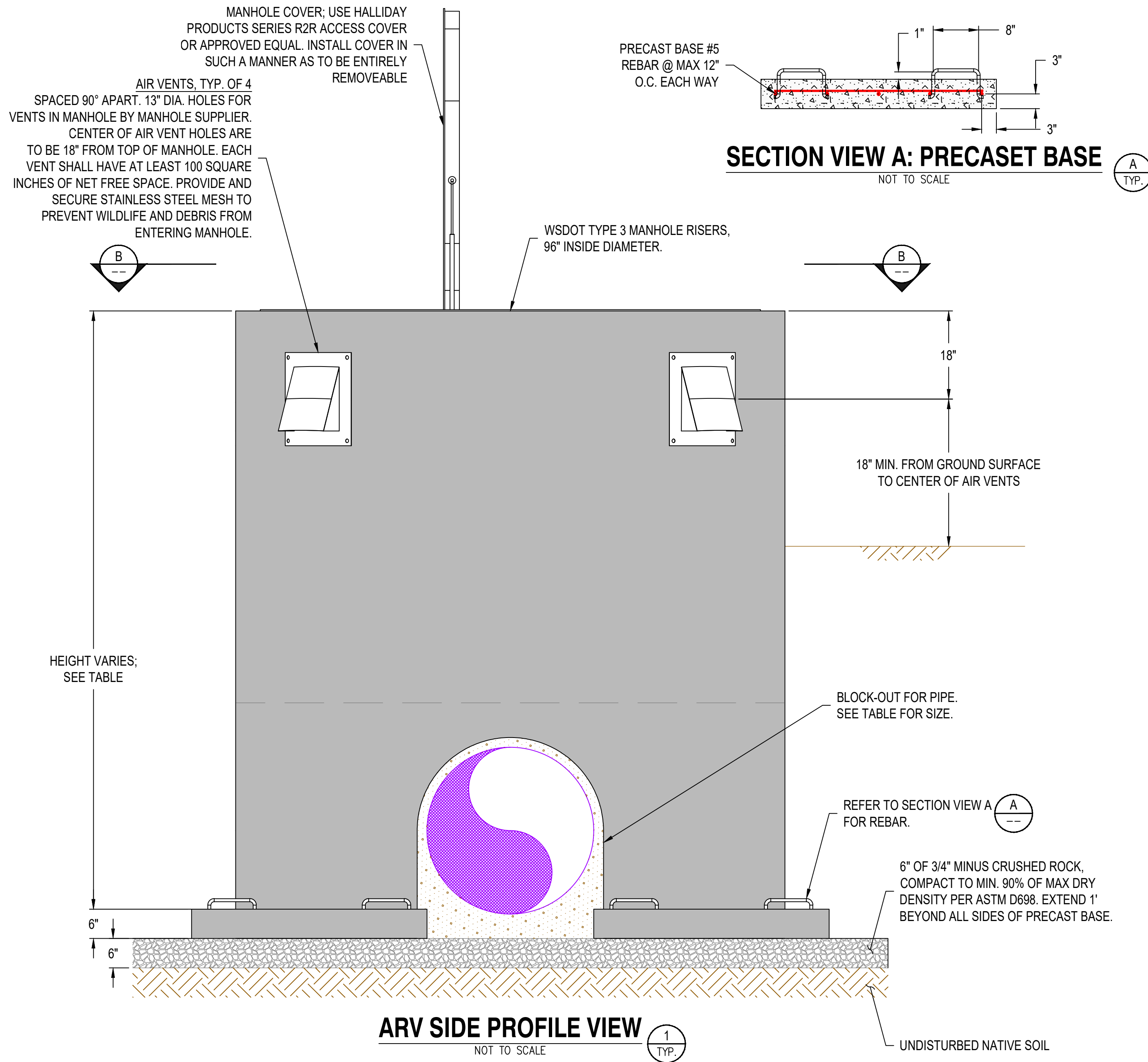
SOIL PAD (4)
NOT TO SCALE

TRENCH NOTES

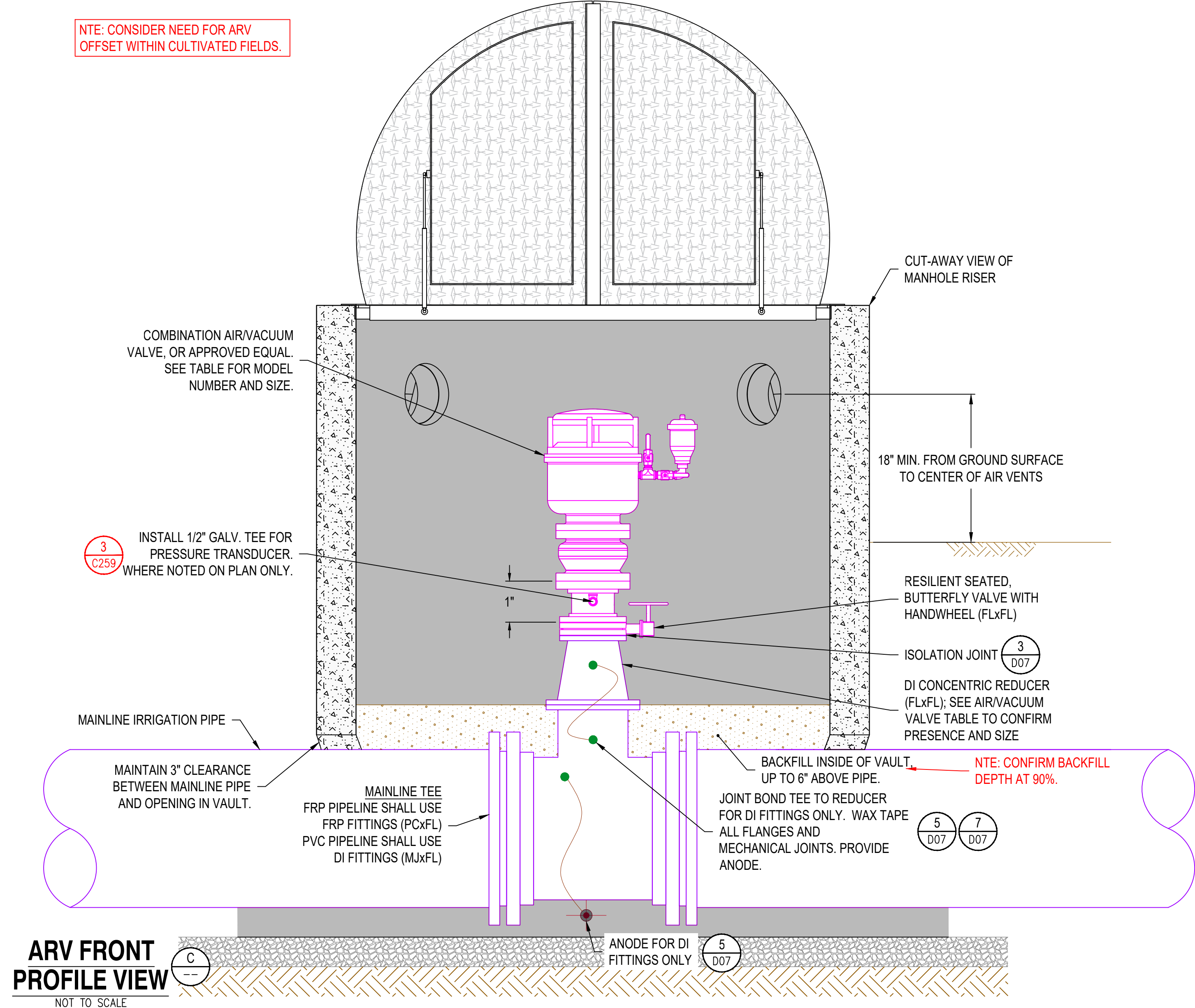
PIPE COVER	(H, Hw)	BEDDING AND EMBEDMENT DIMENSIONS	(Hb, Bd)	TRENCH BACKFILL MATERIALS AND CONDITIONS:
MIN. COVER REQUIRED OVER ALL PIPE	(H)	MIN. DEPTH OF BEDDING UNDER ANY PORTION OF PIPE	(Hb)	1. NATIVE MATERIAL IS ASSUMED USABLE AS TRENCH BACKFILL MATERIAL IF IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT, UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER.**
- ROAD CROSSINGS	5-FT, U.N.O.	- STABLE SOILS CONSISTING OF SANDS AND GRAVELS UP TO 1.5" DIA. PER AWWA 6.6.2	4-IN	2. NATIVE MATERIAL WILL NOT BE SUITABLE FOR USE AS BACKFILL MATERIAL WHERE NOTED BELOW:
- TURNOUT BRANCH	4.5-FT, U.N.O.	- STABLE SOILS CONSISTING OF SILT (DRY OR MOIST, NOT SATURATED)	6-IN	2.1. HIGH GROUNDWATER
- ALL OTHER LOCATIONS	3.5-FT, U.N.O.	- CLAY, PEAT, SATURATED SILT, OR OTHER UNSUITABLE MATERIAL	12-IN	WHERE HIGH GROUNDWATER LEVELS ARE ENCOUNTERED, THE BEDDING, EMBEDMENT, AND TRENCH BACKFILL SHALL BE REPLACED WITH CRUSHED ROCK OR CONTROL DENSITY FILL (CDF) AT THE ENGINEER'S DIRECTION, EXCEPT WHERE THE PIPE IS REQUIRED TO BE FULLY ENCASED IN CDF, AND AS NOTED BELOW.
PIPE COVER NOTES:		MIN. TRENCH WIDTH AT BEDDING	(Bd)	2.2. ROADWAY CROSSINGS
1. DEEPER EXCAVATION MAY BE REQUIRED DUE TO LOCALIZED BREAKS IN GRADE OR TO INSTALL THE PROPOSED PIPE UNDER EXISTING UTILITIES. SEE SECTION 7-09.3(7)C OF THE WSDOT STANDARD SPECIFICATIONS.		- PIPE DIA. < 18-IN	PIPE O.D. + 24-IN	FOR PUBLIC ROADWAY CROSSINGS, ALL PIPE ZONE BEDDING, EMBEDMENT, AND TRENCH BACKFILL MATERIAL WITHIN ROADWAY RIGHT-OF-WAYS (ROWs) SHALL BE CRUSHED ROCK OR CONTROL DENSITY FILL (CDF) AT THE ENGINEER'S DIRECTION.
2. THE PIPELINE SHALL BE CONSTRUCTED TO WHICHEVER IS GREATER:		- PIPE DIA. >= 18-IN	PIPE O.D. + 36-IN	3. ALL TRENCHING AND SHORING TO BE DONE IN ACCORDANCE WITH OSHA AND WISHA STANDARDS. CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH SAFETY AND EXCAVATION AS SOIL CONDITIONS CHANGE IN THE FIELD.
2.1. ELEVATIONS SHOWN ON THE PIPELINE PROFILES;		BEDDING NOTES:		4. IN UNIMPROVED, LANDSCAPED, OR AGRICULTURE AREAS PLACE TRENCH BACKFILL IN UNIFORM LAYERS NOT TO EXCEED 12 INCHES IN LOOSE THICKNESS. EACH LIFT IS TO BE COMPACTED TO AT LEAST 90% OF ITS MDD BASED ON ASTM D1557 MODIFIED TEST PROCEDURE OR 92% OF ITS MDD BASED ON ASTM D-698 STANDARD TEST PROCEDURE.
2.2. MINIMUM PIPE COVER (SEE NOTES THIS SHEET); OR		1. EXCAVATE AROUND PIPE BELLS TO PROVIDE A MIN. 1-INCH CLEARANCE BETWEEN BELL AND BEDDING.		5. IN AREAS WHERE THE TRENCH WILL SUPPORT ROADWAYS OR VEHICLE ACCESS AREAS, TRENCH BACKFILL SHALL BE PLACED IN UNIFORM LAYERS NOT TO EXCEED 8 INCHES IN LOOSE THICKNESS. EACH LIFT IS TO BE COMPACTED TO AT LEAST 95% OF ITS MDD BASED ON THE ASTM D-1557 TEST PROCEDURE (MODIFIED PROCTOR) FROM 0 TO 4 FEET BELOW FINISHED SURFACE AND 90% BELOW 4 FEET.
2.3. MINIMUM THRUST BLOCK COVER (SEE DTL 1 ON DWG NO. D04).		2. FRP PIPE:		6. BACKFILL MATERIAL SHALL CONTAIN MATERIAL NO LARGER THAN 3 INCHES OF ANY DIMENSION WITHIN THE FIRST 2 FEET OF COVER.
3. THE LOCATION OF THE DRAIN (LOW POINTS) AND AIR VALVE (HIGH POINTS) ASSEMBLIES ARE SHOWN ON THE PLANS. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A CONTINUOUSLY RISING OR CONTINUOUSLY FALLING PIPE SLOPE. THE CONTRACTOR SHALL NOT CREATE LOCAL HIGH OR LOW POINTS EXCEPT WHERE SPECIFICALLY DETAILED IN THESE PLANS OR DIRECTED BY THE DISTRICT'S FIELD REPRESENTATIVE. CREATION OF A LOCAL HIGH OR LOW POINT WOULD MATERIALLY AFFECT THE OPERATION OF THE PROPOSED SYSTEM AND WILL THEREFORE REQUIRE THAT THE PIPELINE BE REMOVED AND REINSTALLED WITHOUT A LOCAL HIGH OR LOW POINT AT THE CONTRACTOR'S EXPENSE.		2.1. CONTRACTOR SHALL BED PIPE USING SOIL PADS AND CDF TO THE DEPTH AND WIDTH SHOWN IN THE TRENCH DETAILS AND NOTES.		
TRACER WIRE NOTES:		2.2. SOIL PAD USE OF NATIVE FILL SUBJECT TO APPROVAL BY ENGINEER.**		
1. 12 AWG TRACER WIRE DUCT TAPE TO PIPE EVERY 5-FT, TYP. OF ALL PIPES. AT BOTH ENDS OF PIPELINE, COIL 5FT OF TRACER WIRE AND PLACE INSIDE A H2 PRECAST STANDARD DUTY TYPE-1 J-BOX, OR APPROVED EQUAL. ONLY THE LID AND UPPER PART OF THE VALVE BOX ARE NEEDED. WHERE SPLICES OCCUR, USE 3M™ DIRECT BURY SPLICE KIT DBRY-6.		3. PVC PIPE:		
FOUNDATION NOTES (WHERE REQ'D):		3.1. CONTRACTOR SHALL BED PIPE USING PIPE BEDDING AND EMBEDMENT MATERIAL TO THE DEPTH AND WIDTH SHOWN IN THE TRENCH DETAILS AND NOTES.**		
1. WHERE UNSTABLE SOILS ARE ENCOUNTERED OR DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL:		3.2. UNIFORMLY MOISTURE-CONDITIONED TO WITHIN 2% OF OPTIMUM AND COMPACTED IN 6 INCH LIFTS TO A MINIMUM 95% OF ITS MAXIMUM DRY DENSITY (MDD) BASED ON ASTM D1557 MODIFIED TEST PROCEDURE OR MINIMUM 98% OF ITS MDD BASED ON ASTM D-698 STANDARD TEST PROCEDURE. DO NOT DAMAGE PIPE.		
1.1. OVER EXCAVATE TO THE DEPTH SPECIFIED BY THE ENGINEER (MIN. 12-INCHES).		3.3. BEDDING MATERIAL SHALL PASS 1 INCH SIEVE.		
1.2. PROVIDE A LAYER OF NON-WOVEN GEOTEXTILE, MIRAFI 160N OR EQUAL, AS SEPARATION BETWEEN FOUNDATION GRAVEL AND IN-SITU.		EMBEDMENT NOTES:		
2. FOUNDATION GRAVEL MATERIAL SHALL BE PER THE PROJECT SPECIFICATIONS OR SIMILAR ENGINEER APPROVED FOUNDATION GRAVEL.		1. CONTRACTOR SHALL EMBED PIPE USING PIPE BEDDING AND EMBEDMENT MATERIAL TO THE DEPTH SHOWN IN THE TRENCH DETAILS.**		
		2. UNIFORMLY MOISTURE-CONDITIONED TO WITHIN 2% OF OPTIMUM AND COMPACTED IN 6 INCH LIFTS TO A MINIMUM 95% OF ITS MDD BASED ON ASTM D1557 MODIFIED TEST PROCEDURE OR MINIMUM 98% OF ITS MDD BASED ON ASTM D-698 STANDARD TEST PROCEDURE. DO NOT DAMAGE PIPE.		
		3. EMBEDMENT MATERIAL SHALL PASS 1 INCH SIEVE.		
				* VARIES. DEPTH SHOWN DOES NOT NECESSARILY REPRESENT ACTUAL DEPTH TO GROUNDWATER. CONTRACTOR SHOULD REFER TO THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL COMPLETELY DEWATER TRENCH PRIOR TO PIPELINE PLACEMENT.
				** NATIVE FILL MAY BE CONSIDERED UPON ENGINEER APPROVAL AND CONFORM TO THE PROJECT SPECIFICATIONS. PERIODIC SAMPLE COLLECTION AND TESTING MAY BE PERFORMED TO CONFIRM THE SUITABILITY OF NATIVE MATERIAL. NATIVE SOILS THAT ARE UNABLE TO ACHIEVE THE MINIMUM STANDARDS, OR FAILURE ON THE PART OF THE CONTRACTOR TO PROPERLY STORE AND CARE FOR THE STOCKPILED MATERIAL, THEREBY RENDERING THE MATERIAL AS UNSUITABLE, SHALL RESULT IN THE REMOVAL, DISPOSAL OF THE UNSUITABLE STOCKPILED MATERIAL, AND REPLACEMENT WITH APPROVED IMPORT MATERIAL AT THE CONTRACTOR'S EXPENSE.

Design Plans Will Be Adjusted To Require 42" Minimum Cover For All Buried Utilities On DNR.

NO.	DATE	DESCRIPTION	BY	REVIEW
1		60% DESIGN		



NTE: CONSIDER NEED FOR ARV OFFSET WITHIN CULTIVATED FIELDS.



AIR/VACUUM VALVE TABLE

STATION	CONCRETE RISER HEIGHT	TEE MATERIAL AND SIZE	AIR/VACUUM VALVE SIZE	AIR RELEASE VALVE SIZE	VALVE MODEL ¹	BUTTERFLY VALVE SIZE	BLOCK-OUT SIZE
54+37.5A	11'	FRP 42" X 10"	10"	1/4"	APCO 1800	10"	51"
80+74.7A	11'	FRP 42" X 10"	10"	1/4"	APCO 1800	10"	51"
113+47.4A	11'	FRP 42" X 10"	10"	1/4"	APCO 1800	10"	51"
175+75.4A	11'	FRP 42" X 12"	12"	1/4"	APCO 1800	12"	51"
210+45.2A	11'	FRP 42" X 10"	10"	1/4"	APCO 1800	10"	51"
216+28.8A	12'	FRP 42" X 8"	8"	1/4"	APCO 1800	8"	51"
250+55.2A	11'	FRP 42" X 10"	10"	1/4"	APCO 1800	10"	51"
298+24.3A	9'	DI 16" X 4"	4"	1/8"	APCO 1700	4"	24"
24+33.4B	9'	DI 20" X 6"	6"	1/4"	APCO 1800	6"	28"
46+02.2B	9'	DI 20" X 6"	6"	1/4"	APCO 1800	6"	28"
30+99.6C	9'	DI 16" X 4"	4"	3/8"	APCO 1700	4"	24"
58+22.4C	9'	DI 16" X 4"	4"	1/8"	APCO 1800	4"	24"
89+53.5C	9'	DI 16" X 4"	4"	1/8"	APCO 1800	4"	24"

(1) Or approved equal