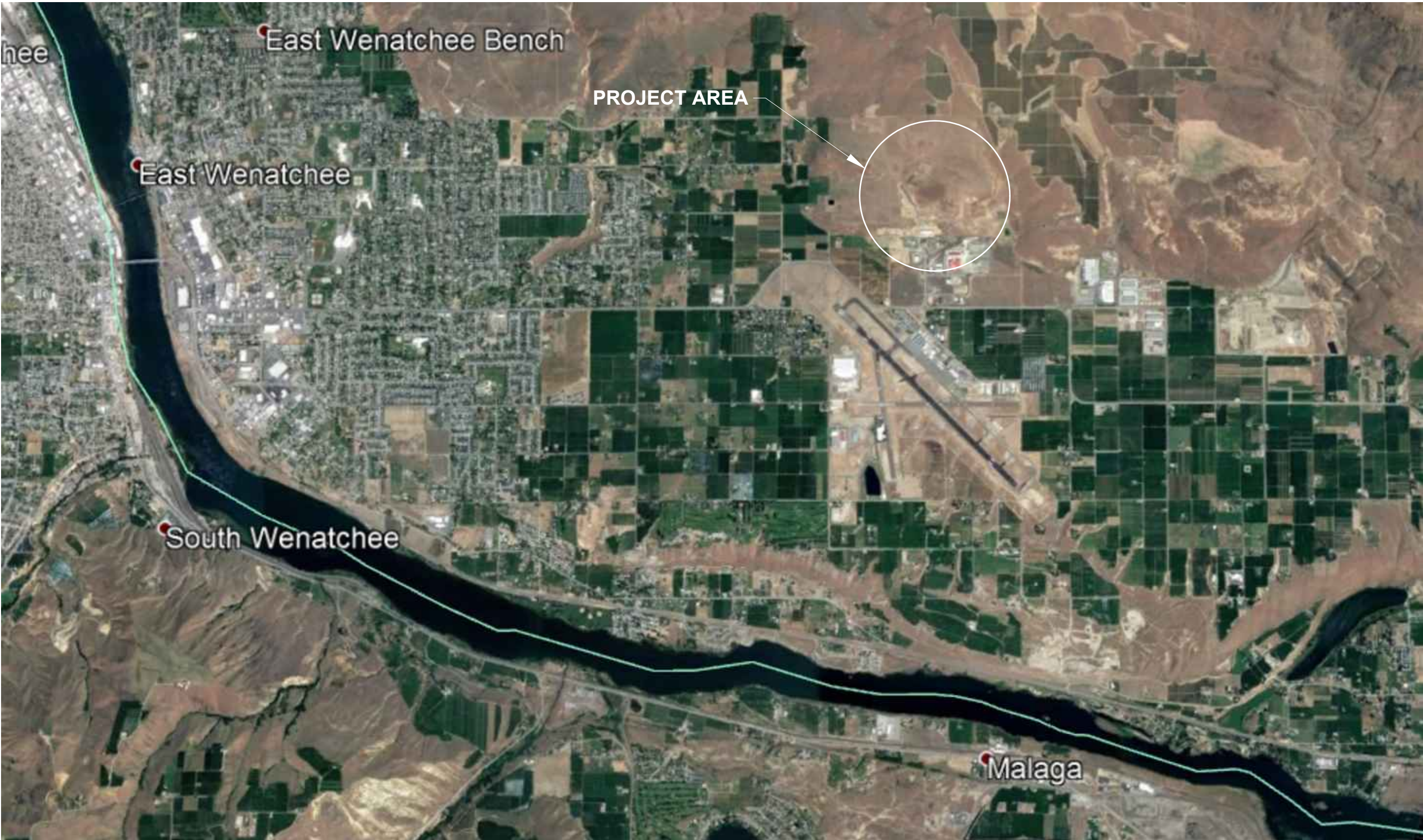


# PRONOIA EFFECTS, LLC

501 URBAN INDUSTRIAL WAY  
DATA CENTER  
EAST WENATCHEE, WA  
NOVEMBER 2018



VICINITY MAP  
NTS



LOCATION  
NTS

## UTILITIES AND JURISDICTION AGENCIES

### DOUGLAS COUNTY TL&S

140 19TH STREET NW, SUITE A  
EAST WENATCHEE, WA 98802  
PHONE: 509.884.7173

### EAST WENATCHEE WATER DISTRICT

692 EASTMONT AVE  
EAST WENATCHEE, WA 98802  
PHONE: 509.884.3569

### POWER

DOUGLAS COUNTY PUD  
1151 VALLEY MALL PKWY  
EAST WENATCHEE, WA 98802  
PHONE: 800.503.7990

### DOUGLAS COUNTY SEWER DISTRICT

692 EASTMONT AVE  
EAST WENATCHEE, WA 98802  
PHONE: 509.884.2482

## CONTACTS

### OWNER/REPRESENTATIVE

PRONOIA EFFECTS, LLC  
CHRIS UNGARO  
1506 SENECA PLACE  
WENATCHEE, WA 98801  
CONTACT: CHRIS UNGARO  
PHONE: 702.525.1300

### ENGINEER/SURVEYOR

PACE ENGINEERS, INC.  
104 EAST 9TH STREET  
WENATCHEE, WA 98801  
CONTACT: LARRY CORDES, PRINCIPAL ENGINEER  
LARRYC@PACEENGRS.COM  
PHONE: 509.662.1762  
FAX: 509.662.4324

## PREPARED BY:



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Wenatchee, WA 98801  
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## SHEET INDEX

SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	LEGEND AND SYMBOLS
3	CONSTRUCTION NOTES
4	EROSION AND SEDIMENT CONTROL PLAN
5	EROSION CONTROL NOTES AND DETAILS
6	SITE GRADING AND UTILITIES
7	CROSS SECTIONS AND PROFILES
8	DETAILS
9	DETAILS

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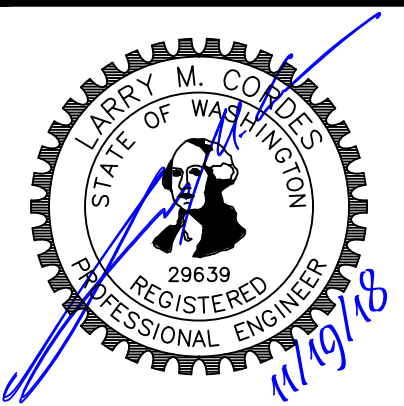
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PRONOIA-501 UIW DATA CENTER  
GRADING AND DRAINAGE  
COVER SHEET

JOB NUMBER  
18487  
DWG NAME: P18209 COVER  
SHEET 1 OF 9



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XREF FILES: PAGE 34X22

CHANNELIZATION SYMBOLS

SYMBOL	DESCRIPTION
EXIST. PROP.	SIGN

WATER SYMBOLS

SYMBOL	DESCRIPTION
EXIST. PROP.	
	WATER METER
	WATER VALVE
	WATER HOSE BIB
	2-NOZZLE FIRE HYDRANT
	3-NOZZLE FIRE HYDRANT
	BUTTERFLY VALVE
	BUTTERFLY M.J. VALVE
	BUTTERFLY FL M.J. VALVE
	CHECK VALVE
	GATE/GENERAL VALVE
	GATE M.J. VALVE
	GATE FL M.J. VALVE
	PLUG VALVE
	TAPPING TEE FL M.J.
	TAPPING TEE FL M.J.
	TEE FL
	TEE M.J.
	11 BEND
	22 BEND
	45 BEND
	90 BEND
	11 M.J. BEND
	22 M.J. BEND
	45 M.J. BEND
	90 M.J. BEND
	ADAPTER FLxM.J.
	COUPLING
	BENT VERT FL
	BENT VERT FLxM.J.
	REDUCER FL
	REDUCER M.J.
	REDUCER PE
	REDUCER FLxM.J.
	REDUCER M.J.xFL
	REDUCER M.J.xPE
	FLANGE/BLIND FL
	PUSH-ON/HUB
	CAP/PLUG
	THREAD
	MECHANICAL JOINT
	GUARD POST
	THRUST BLOCK
	WATER TAP

SANITARY/STORM SEWER SYMBOLS

SYMBOL	DESCRIPTION
EXIST. PROP.	
	GENERIC STORM DRAIN MANHOLE
	GENERIC STORM DRAIN CATCH BASIN

GAS/POWER/TELEPHONE SYMBOLS

SYMBOL	DESCRIPTION
EXIST. PROP.	
	GAS METER
	GAS VALVE
	GAS RISER
	GAS MANHOLE
	PAD MOUNTED TRANSFORMER
	POWER VAULT
	TRANSMISSION TOWER
	POWER BOX
	POWER MANHOLE
	UTILITY POLE
	UTILITY POLE ANCHOR
	TELEPHONE RISER
	TELEPHONE VAULT
	TELEPHONE POLE
	TV BOX
	TV MANHOLE
	TV VAULT
	TELEPHONE MANHOLE
	COMM MANHOLE
	COMM VAULT

TOPO SYMBOLS

SYMBOL	DESCRIPTION
EXIST.	
	WATER VALVE
	HYDRANT
	WATER METER
	MANHOLES (SS/SD)
	CB
	POWER/UTILITY POLE
	GUY ANCHOR
	POWER TRANSFORMER
	POWER/TELEPHONE VAULT
	POWER METER
	TELEPHONE/TV RISER
	GAS VALVE
	GAS METER
	STREET LIGHT
	LUMINAIRE
	SPOT ELEVATION
	SIGN
	MAILBOX
	ROCKERY
	CONIFEROUS TREE
	DECIDUOUS TREE
	FOUND CASD MONUMENT
	SET MAGNETIC NAIL W/ WASHER

LINESTYLES

EXIST.	PROP.	DESCRIPTION
		CHAIN LINK FENCE
		WOOD FENCE
		BARB WIRE FENCE
		RAIL ROAD
		ROADWAY CENTERLINE
		ROCKERY
		INTERMEDIATE CONTOUR
		INDEX CONTOUR
		DEPRESSION CONTOUR
		SAW CUT
		PARK
		PROPERTY LINE
		LOT LINE
		PERM EASEMENT
		TEMPORARY EASEMENT
		RIGHT OF WAY
		STORM DRAIN
		DITCH
		SAN SEWER
		WATER
		UNDERGROUND POWER
		UNDERGROUND TELEPHONE
		UNDERGROUND CABLE TV
		UNDERGROUND FIBER OPTIC
		OVERHEAD POWER
		OVERHEAD UTILITY

HATCH PATTERNS

	DEMOLITION
	GRINDING
	GRAVEL
	CONCRETE
	ASPHALT
	BST ROADWAY
	GRAVEL CSBC

CHANNELIZATION SYMBOLS

SYMBOL	DESCRIPTION
EXIST. PROP.	
	BIKE PATH
	HANDICAP SYMBOL
	H.O.V. LANE SYMBOL
	ONLY
	RAILROAD CROSSING
	SCHOOL
	STOP
	STRAIGHT ARROW
	LT.RT.STR.ARROW
	LEFT-RIGHT ARROW
	2-WAY LEFT TURN
	LEFT TURN ARROW
	RIGHT TURN ARROW
	LEFT-SRAIGHT ARROW
	RIGHT-STRAIGHT ARROW
	SIGN
	DBL POST SIGN
	DELINEATOR
	MILE POST

ABBREVIATIONS

AL = ALUMINUM	IF = INSIDE FACE
ANSI = AMERICAN NATIONAL STANDARDS INSTITUTE	INV = INVERT, INVERSE
AB = ANCHOR BOLT	JT = JOINT
ARCH = ARCHITECT(URAL)	JF = JOINT FILLER
ASSY = ASSEMBLY	JST = JOIST
BMP = BEST MANAGEMENT PRACTICE	LF = LINEAR FEET
BRG = BEARING	KCRS = KING COUNTY ROAD STANDARDS
BST = BITUMINOUS SURFACE TREATMENT	MH = MANHOLE
BOT = BOTTOM	MFR = MANUFACTURER
BLDG = BUILDING	MAX = MAXIMUM
CB = CATCH BASIN	MECH = MECHANICAL
CEM = CEMENT	MJ = MECHANICAL JOINT
CTR = CENTER	MT = METAL
C/C = CENTER TO CENTER	MIN = MINIMUM, MINUTE
CL = CENTERLINE	MISC = MISCELLANEOUS
CIP = CAST IN PLACE	N = NORTH, NEW
CO = CLEANOUT	NAD = NORTH AMERICAN DATUM
CLR = CLEAR, CLEARANCE	N/A = NOT APPLICABLE
CONC = CONCRETE	NGVD = NATIONAL GEODETIC VERTICAL DATUM
CMU = CONCRETE MASONRY UNIT	NIC = NOT IN CONTRACT
CND = CONDUIT	NTS = NOT TO SCALE
CJ = CONSTRUCTION JOINT	O/C = ON CENTER
CONT = CONTINUE(D)	OD = OUTSIDE DIAMETER
CP = CORRUGATED POLYETHYLENE PIPE	OF = OUTSIDE FACE
CU = CUBIC	PVT = PAVEMENT
CMP = CORRUGATED METAL PIPE	PERF = PERFORATED
CSBC = CRUSHED SURFACING BASE COURSE	PCP = PLAIN CONCRETE PIPE
CSTC = CRUSHED SURFACING TOP COURSE	PVC = POLYVINYL CHLORIDE
CUFT = CUBIC FEET (FOOT)	PC = PORTLAND CEMENT/POINT OF CURVE
DIA = DIAMETER	LB = POUND (LBS)
DI = DUCTILE IRON	LBS = POUNDS
DBL = DOUBLE	PCF = POUNDS PER CUBIC FOOT
DWG = DRAWING	PSF = POUNDS PER SQUARE FOOT
E = EAST	PSI = POUNDS PER SQUARE INCH
ECR = END OF CURB RETURN	PT = POINT OF TANGENT
EF = EACH FACE	PP = POWER POLE, POWER PANEL
EW = EACH WAY	PVI = POINT OF VERTICAL INFLECTION
EA = EACH	PROP = PROPOSED
ELEC = ELECTRIC	R = RADIUS
EV = ELECTRICAL VAULT	RWL = RAINWATER LEADER
EL = ELEVATION (ELEV.)	REINF = REINFORCE(ED) (ING)
EQ = EQUAL	R/C = REINFORCED CONCRETE
ESC = EROSION AND SEDIMENT CONTROL	RCP = REINFORCED CONCRETE PIPE
EXIST = EXISTING	REBAR = REINFORCING BAR
EJ = EXPANSION JOINT	RD = ROOF DRAIN
EXP = EXPOSED, EXPANSION	RO = ROUGH OPENING
EXT = EXTERIOR	S = SOUTH
F/F = FACE TO FACE	SS = STAINLESS STEEL, SANITARY SEWER
FT = FEET, FOOT	SHT = SHEET
FIN = FINISHED	SL = SLOPE
FD = FLOOR DRAIN	SPC = SPACE
FHY = FIRE HYDRANT	SQ = SQUARE
FTG = FOOTING	STD = STANDARD
FDN = FOUNDATION	STA = STATION
GAL = GALLON(S)	STL = STEEL
GALV = GALVANIZED	SD = STORM DRAIN
GI = GRATE, INLET	STRUCT = STRUCTURE
GND = GROUND	SWDM = STORM WATER DESIGN MANUAL
GRT = GROUT	SWR = SANITARY SEWER
HMA = HOT MIX ASPHALT	TCE = TEMPORARY CONSTRUCTION EASEMENT
HT = HEIGHT	T/A = TOP OF ASPHALT
HP = HIGH POINT	T/C = TOP OF CURB
IN = INCH	T/G = TOP OF GRAVEL
INCL = INCLUDE(S) (ED) (ING)	T/W = TOP OF WALL
ID = INSIDE DIAMETER	TYP = TYPICAL
IE = INVERT ELEVATION	U.N.O. = UNLESS NOTED OTHERWISE
	W = WEST
	WWF = WELDED WIRE FABRIC
	W/O = WITHOUT

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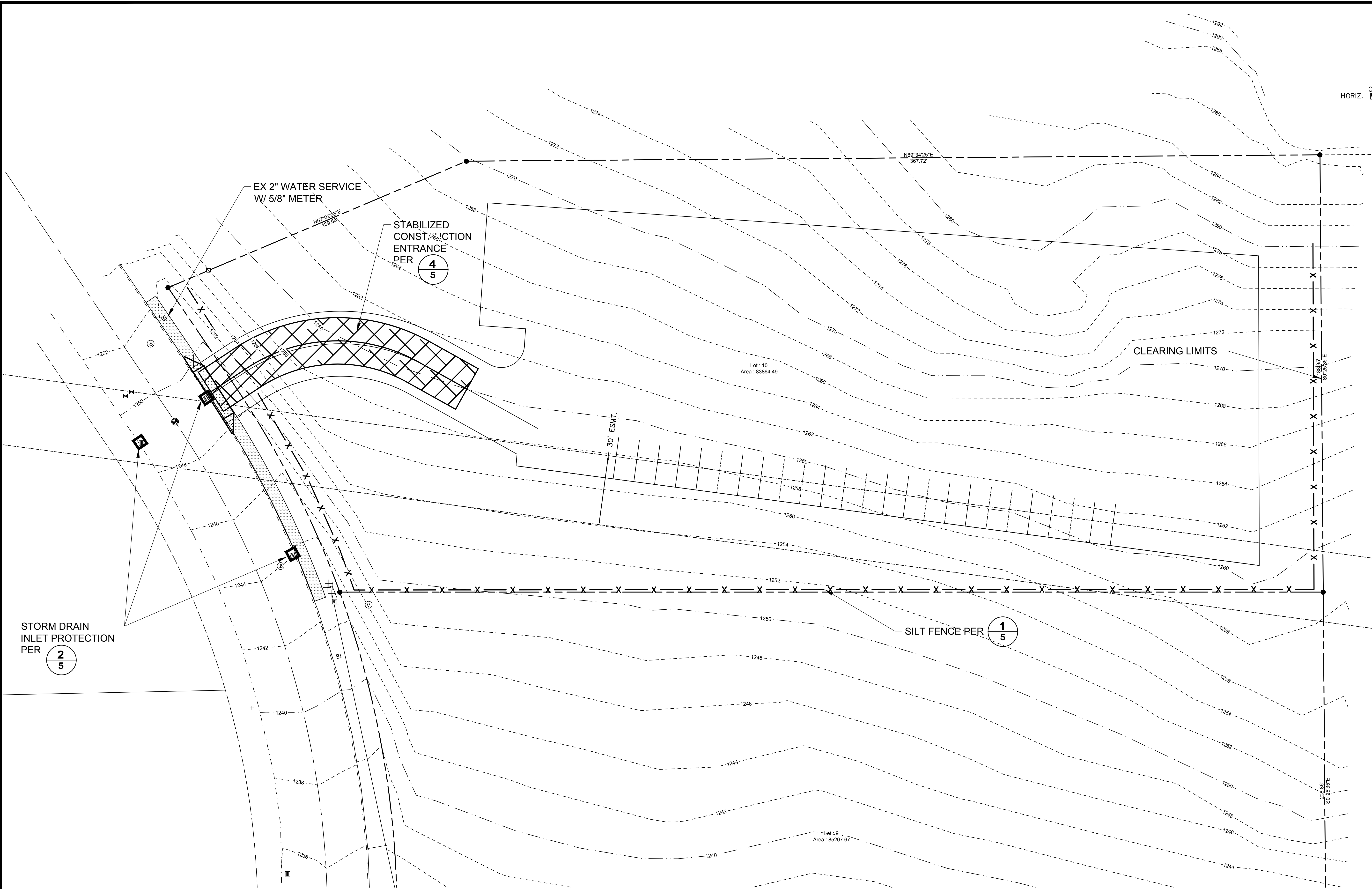
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CONSTRUCTION NOTES

JOB NUMBER	18487
DWG NAME:	P18209 LEGEND
SHEET	3 OF 9



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SAVE TIME: 5/16/2019 10:04:03 PM  
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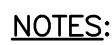
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**PRONOA-501 UIW DATA CENTER**  
**GRADING AND DRAINAGE**  
EROSION AND SEDIMENT CONTROL PLAN

JOB NUMBER  
**18487**  
DWG NAME: P18209 EROSION CONTROL  
SHEET **4** OF **9**



1. APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY A CONTINUOUS LENGTH OF ORANGE PROTECTION FENCING PRIOR TO CONSTRUCTION. DURING CONSTRUCTION, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
4. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS PREVENTED.
5. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE COURSE OF CONSTRUCTION, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS, AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS.
6. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES DURING THE WET SEASON (OCTOBER 1 TO APRIL 30) AND OF MONTHLY REVIEWS DURING THE DRY SEASON (MAY 1 TO SEPTEMBER 30).
7. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR FIVE DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
8. ANY AREA NEEDING ESC MEASURES, THAT DO NOT REQUIRE IMMEDIATE ATTENTION, SHALL BE ADDRESSED WITHIN FIFTEEN (15) DAYS.
9. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A STORM EVENT.
10. AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
11. STABILIZED CONSTRUCTION ENTRANCES AND ROADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES SUCH AS WASH PADS MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
12. ANY PERMANENT FLOW CONTROL FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE FINAL GRADE OF THE PERMANENT FACILITY.
13. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2 TO 3 INCHES.
14. PRIOR TO SEPTEMBER 15, ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH LOCATIONS WILL REQUIRE IMMEDIATE SEEDING. DISTURBED AREAS SHALL BE SEED PRIOR TO OCTOBER 1. A SKETCH MAP OF THOSE AREAS TO BE SEED AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE ENGINEER. THE CITY INSPECTOR CAN REQUIRE SEEDING OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES.



1. SIZE THE BELOW INLET GRATE DEVICE (BIGD) FOR STORM WATER STRUCTURE IT WILL SERVICE.
2. THE BIGD SHALL HAVE A BUILT-IN HIGH-FLOW RELIEF SYSTEM (OVERFLOW BYPASS).
3. THE RETRIEVAL SYSTEM MUST ALLOW REMOVAL OF THE BIGD WITHOUT SPILLING THE COLLECTING MATERIAL.
4. PERFORM MAINTENANCE IN ACCORDANCE WITH STANDARD SPECIFICATIONS 8-01.3(15).

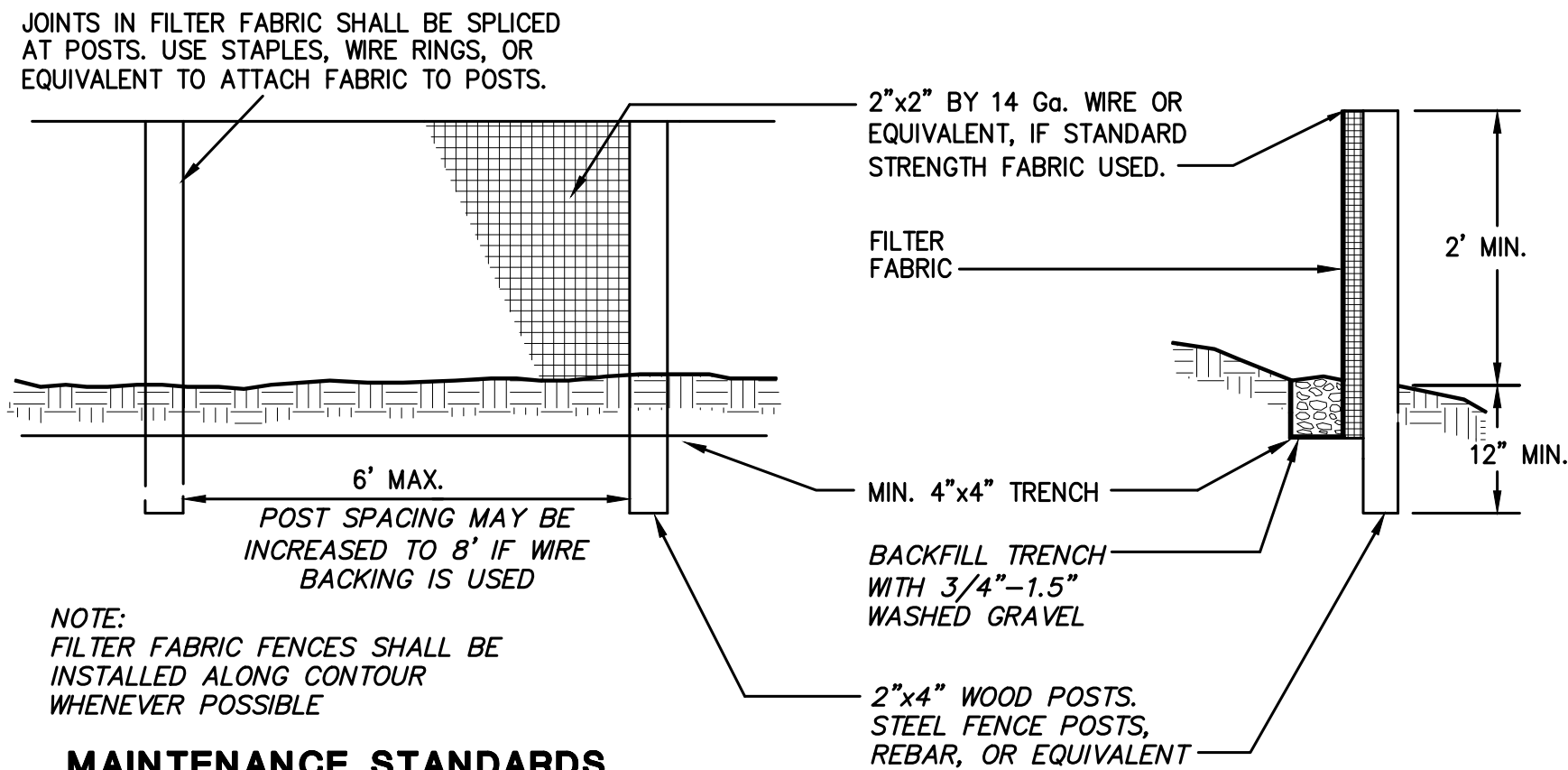
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1. THE GEOTEXTILE USED MUST MEET THE STANDARDS LISTED BELOW. A COPY OF THE MANUFACTURER'S FABRIC SPECIFICATIONS MUST BE AVAILABLE ON SITE.

AOS (ASTM D-4751)	=	30-100 SIEVE SIZE (0.60-0.15 mm) FOR SLIT FILM 50-100 SIEVE SIZE (0.30-0.15 mm) FOR OTHER FABRICS
WATER PERMITTIVITY (ASTM D-4491)	=	0.02 SEC MIN. <sup>-1</sup>
GRAB TENSILE STRENGTH (ASTM D-4632)	=	180 LBS MIN. FOR EXTRA STRENGTH FABRIC 100 LBS MIN. FOR STANDARD STRENGTH FABRIC
GRAB TENSILE ELONGATION (ASTM D-4632)	=	30% MAX.
ULTRAVIOLET RESISTANCE (ASTM D-4355)	=	70% MIN.

2. STANDARD STRENGTH FABRIC REQUIRES WIRE BACKING TO INCREASE THE STRENGTH OF THE FENCE. WIRE BACKING OR CLOSER POST SPACING MAY BE REQUIRED FOR EXTRA STRENGTH FABRIC IF FIELD PERFORMANCE WARRANTS A STRONGER FENCE.
3. WHERE THE FENCE IS INSTALLED, THE SLOPE SHALL BE NO STEEPER THAN 2H:1V.

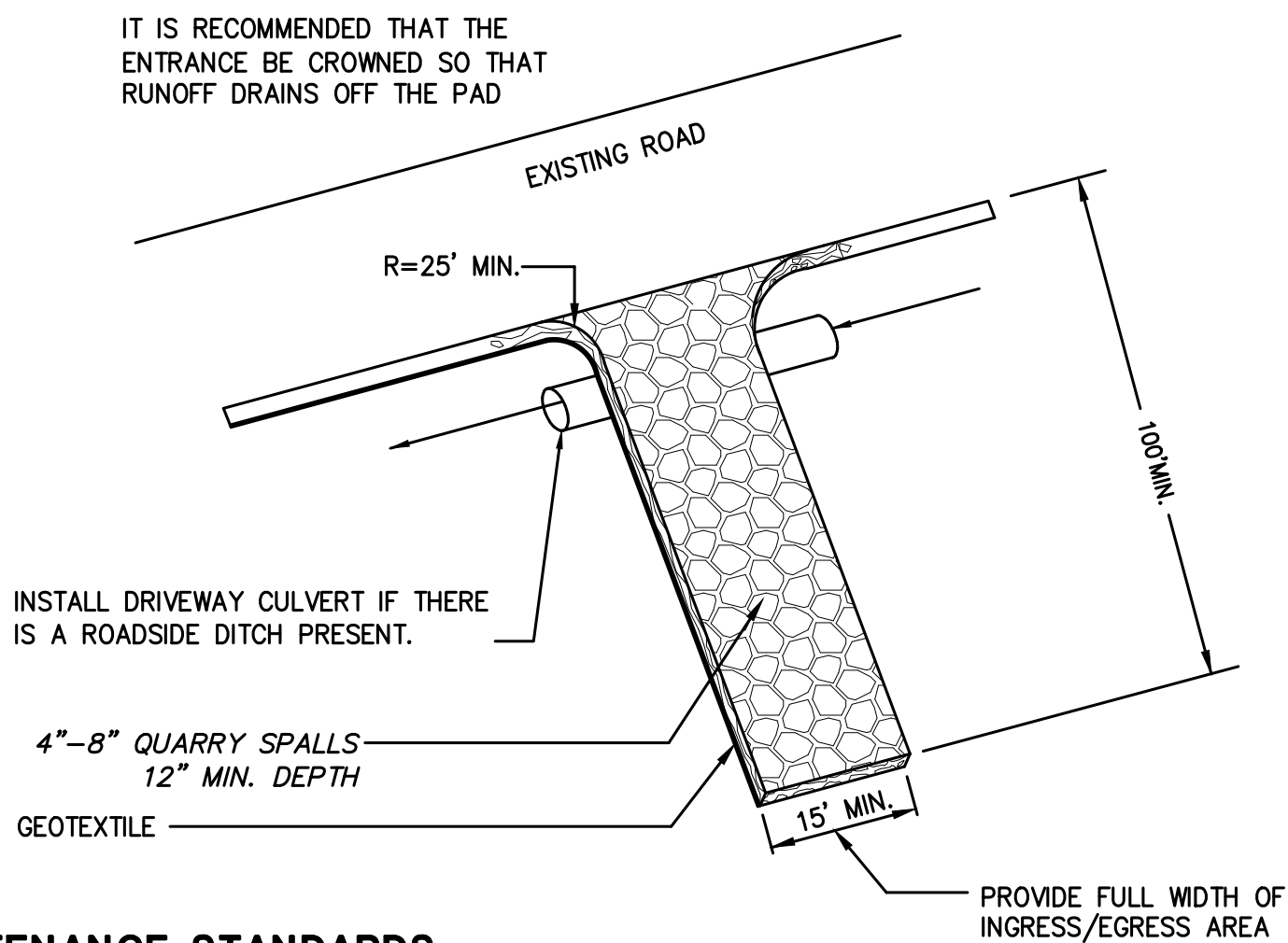
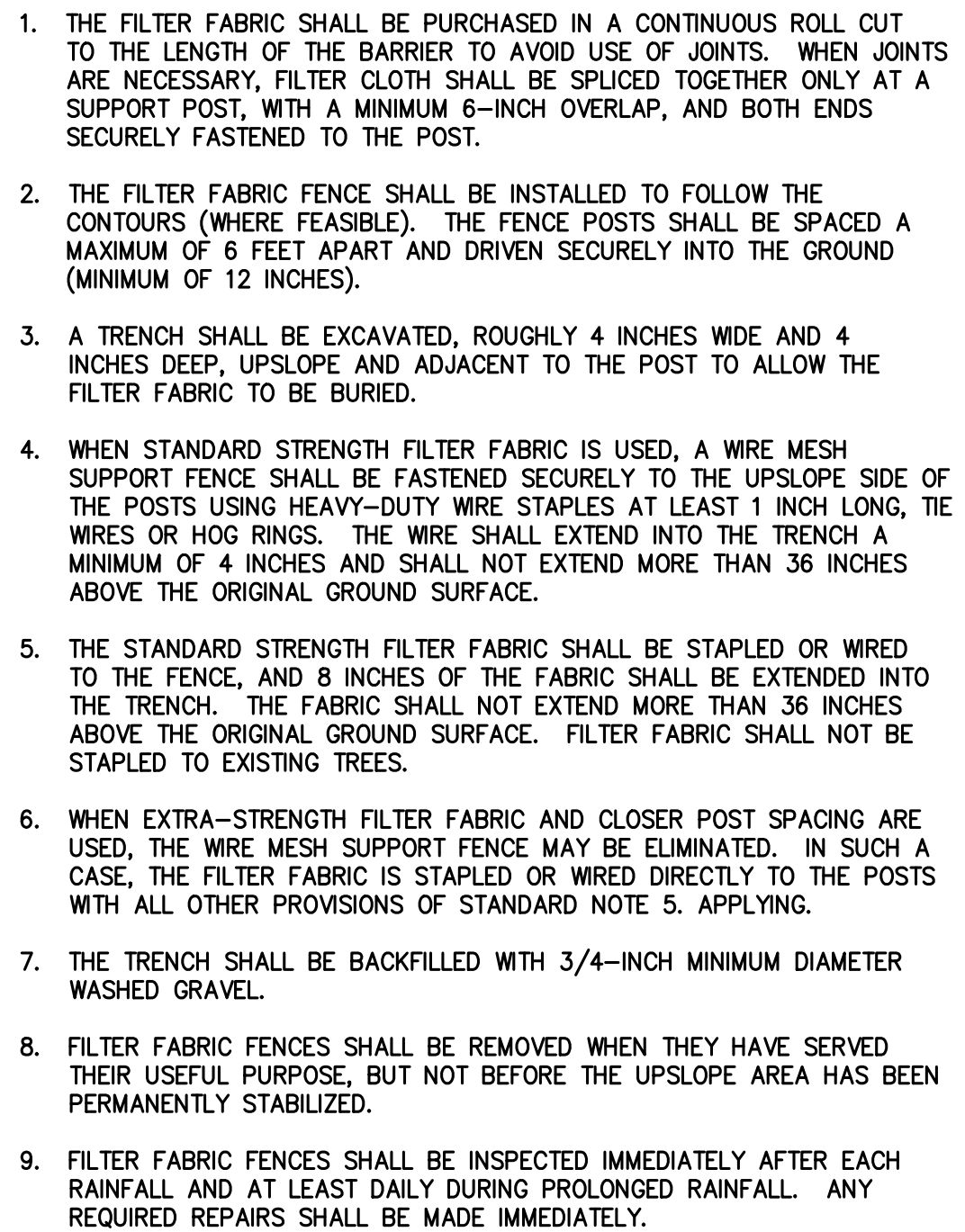


1. ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY.
2. IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT TRAP OR POND.
3. IT IS IMPORTANT TO CHECK THE UPHILL SIDE OF THE FENCE FOR SIGNS OF THE FENCE CLOGGING AND ACTING AS A BARRIER TO FLOW AND THEN CAUSING CHANNELIZATION OF FLOWS PARALLEL TO THE FENCE. IF THIS OCCURS, REPLACE THE FENCE AND/OR REMOVE THE TRAPPED SEDIMENT.
4. SEDIMENT MUST BE REMOVED WHEN IT IS 6" HIGH.
5. IF THE FILTER FABRIC HAS DETERIORATED DUE TO THE ULTRAVIOLET BREAKDOWN, IT SHALL BE REPLACED.

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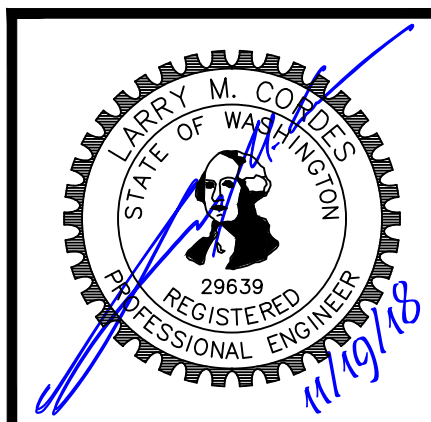


1. QUARRY SPALLS SHALL BE ADDED IF THE PAD IS NO LONGER IN ACCORDANCE WITH THE SPECIFICATIONS.
2. IF THE ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, THEN ALTERNATIVE MEASURES TO KEEP THE STREETS FREE OF SEDIMENT SHALL BE USED. THIS MAY INCLUDE STREET SWEEPING, AN INCREASE IN THE DIMENSIONS OF THE ENTRANCE, OR THE INSTALLATION OF A WHEEL WASH. IF WASHING IS USED, IT SHALL BE DONE ON THE AREA COVERED WITH CRUSHED ROCK, AND WASH WATER SHALL DRAIN TO A SEDIMENT TRAP OR POND.
3. ANY SEDIMENT THAT IS TRACKED ONTO PAVEMENT SHALL BE REMOVED IMMEDIATELY BY SWEEPING. THE SEDIMENT COLLECTED BY SWEEPING SHALL BE REMOVED OR STABILIZED ON-SITE. THE PAVEMENT SHALL NOT BE CLEANED BY WASHING DOWN THE STREET, EXCEPT WHEN SWEEPING IS INEFFECTIVE AND THERE IS A THREAT TO PUBLIC SAFETY. IF IT IS NECESSARY TO WASH THE STREETS, THE CONSTRUCTION OF A SMALL SUMP SHALL BE CONSIDERED. THE SEDIMENT WOULD THEN BE WASHED INTO THE SUMP.
4. ANY ROCK SPALLS THAT ARE LOOSEENED FROM THE PAD AND END UP ON THE ROADWAY SHALL BE REMOVED IMMEDIATELY.
5. IF VEHICLES ARE ENTERING OR EXITING THE SITE AT POINTS OTHER THAN THE CONSTRUCTION ENTRANCE(S), FENCING SHALL BE INSTALLED TO CONTROL TRAFFIC.

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JOB NUMBER  
**18487**

DWG NAME: P18209 DEMO & TESC  
NOTES & DETAILS

SHEET **5** OF **9**

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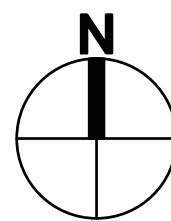
## PRONOIA-501 UIW DATA CENTER GRADING AND DRAINAGE

## EROSION CONTROL NOTES & DETAILS

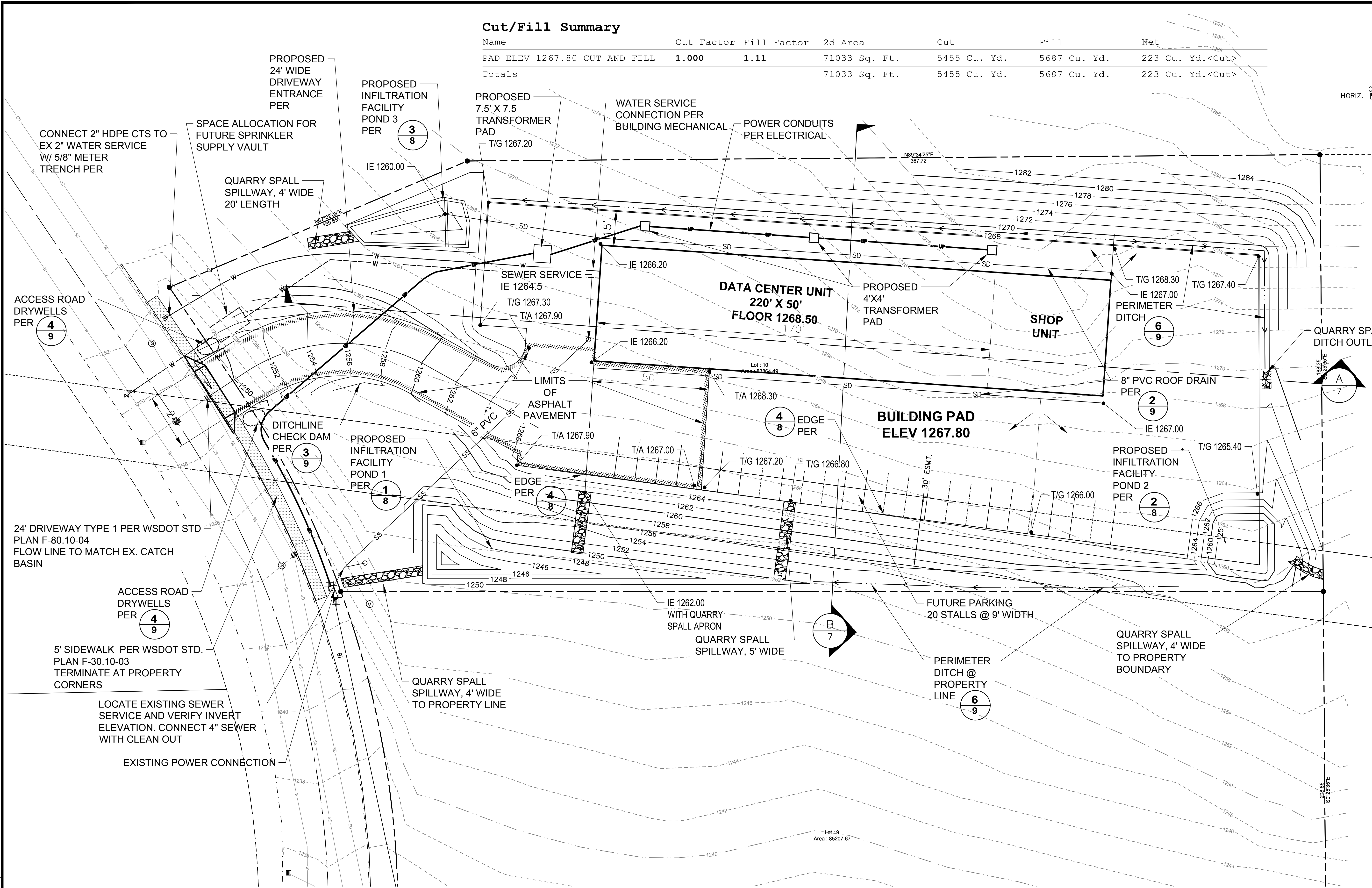


Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
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Totals			71033 Sq. Ft.	5455 Cu. Yd.	5687 Cu. Yd.	223 Cu. Yd.<Cut>



HORIZ. 0 10 20 40  
Scale In Feet



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PLOT TIME: 5/16/2019 8:42 AM  
USER NAME: CARL PEDERSON  
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SYM		REVISION	DATE	BY	APP'D				



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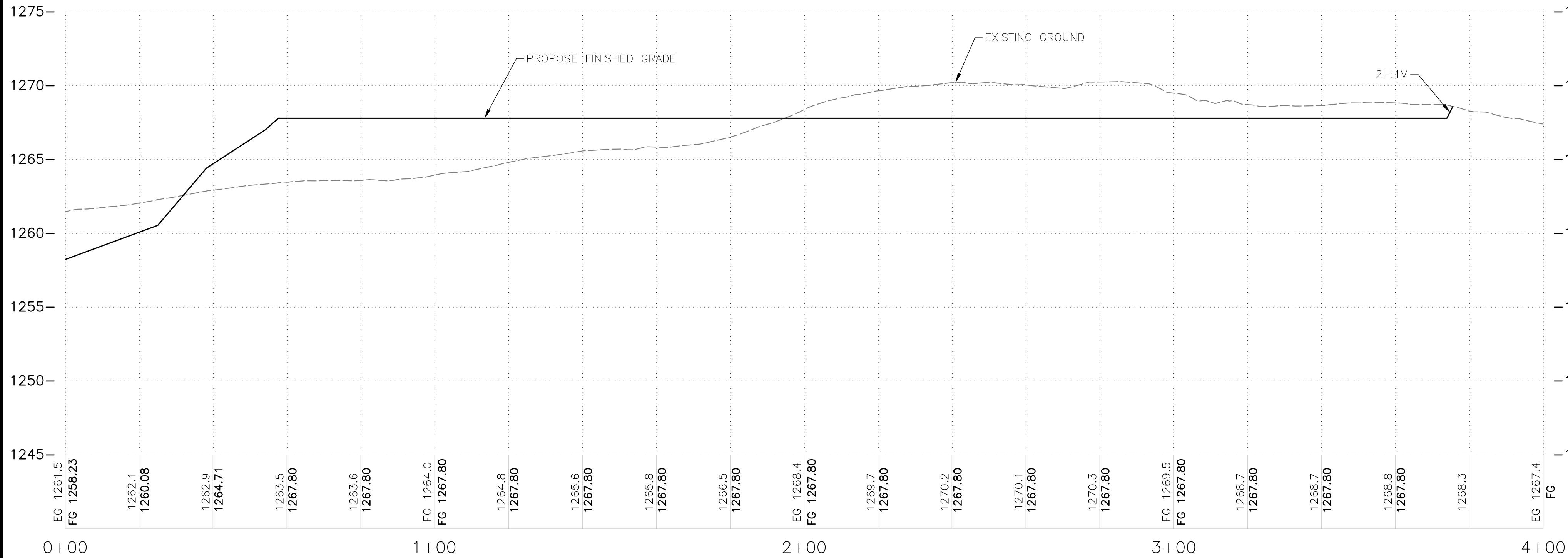
PRONOA-501 UIW DATA CENTER  
GRADING AND DRAINAGE  
GRADING PLAN PAD ELEV 1267.8

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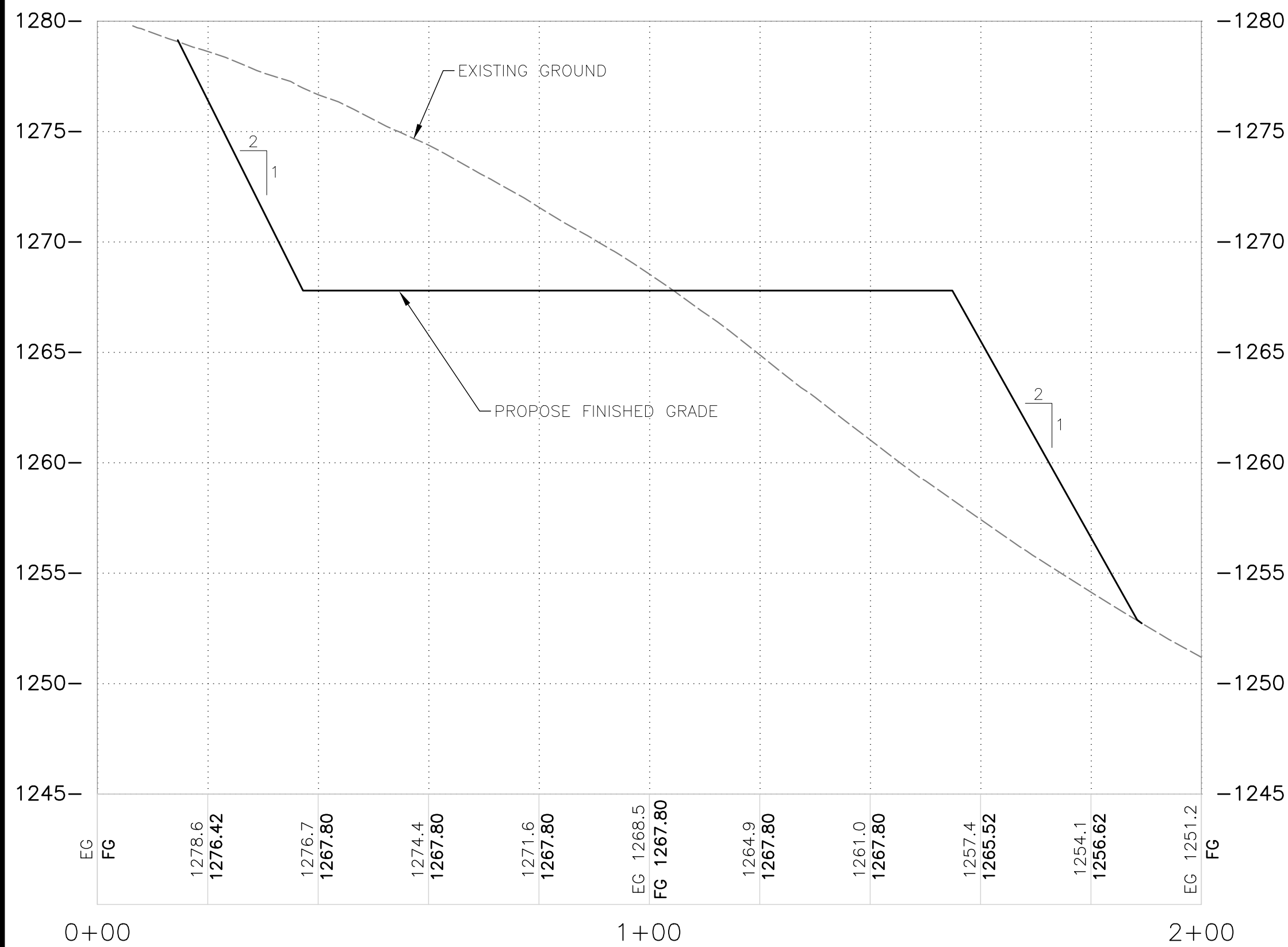
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18487  
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SHEET 6 OF 9



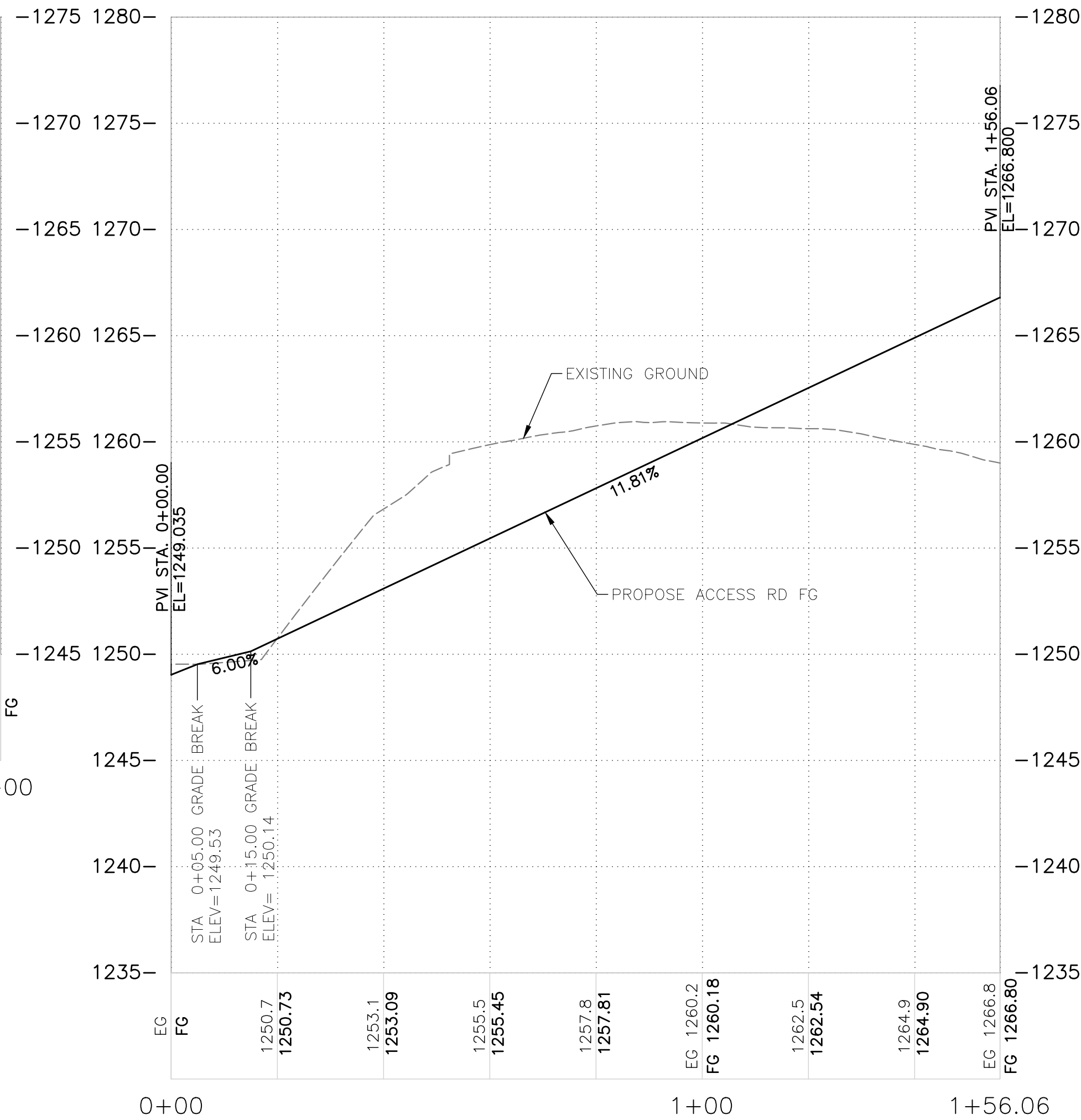
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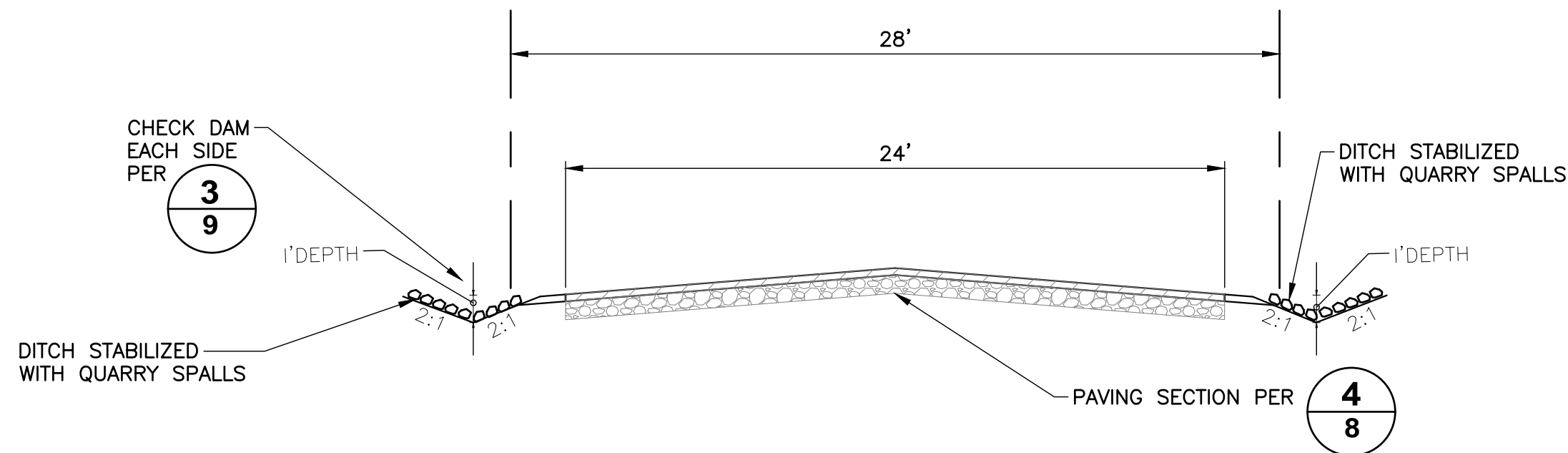
SECTION A-A



SECTION B-B



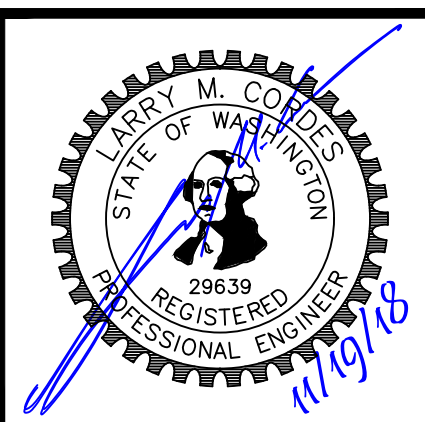
ACCESS ROAD PROFILE



ACCESS ROAD SECTION 1

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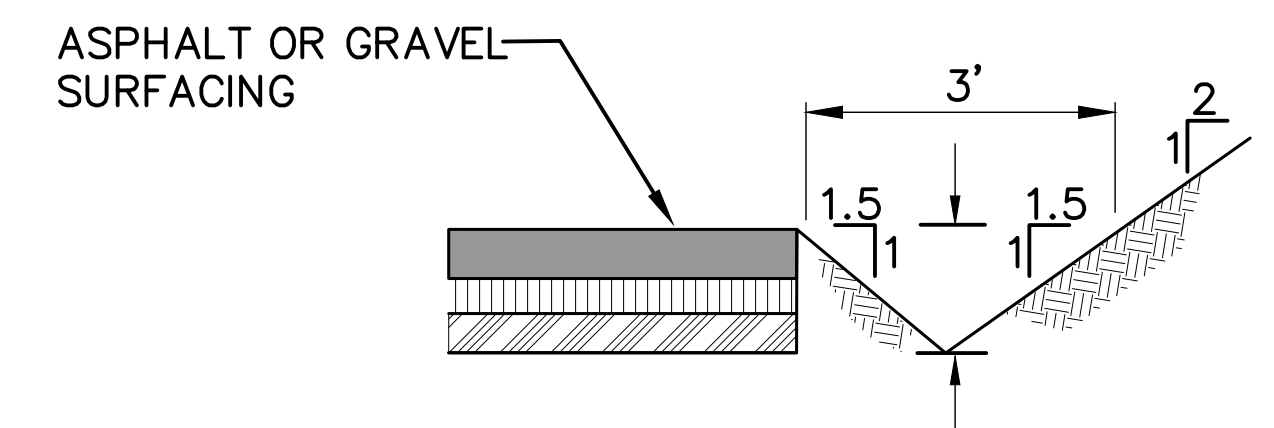
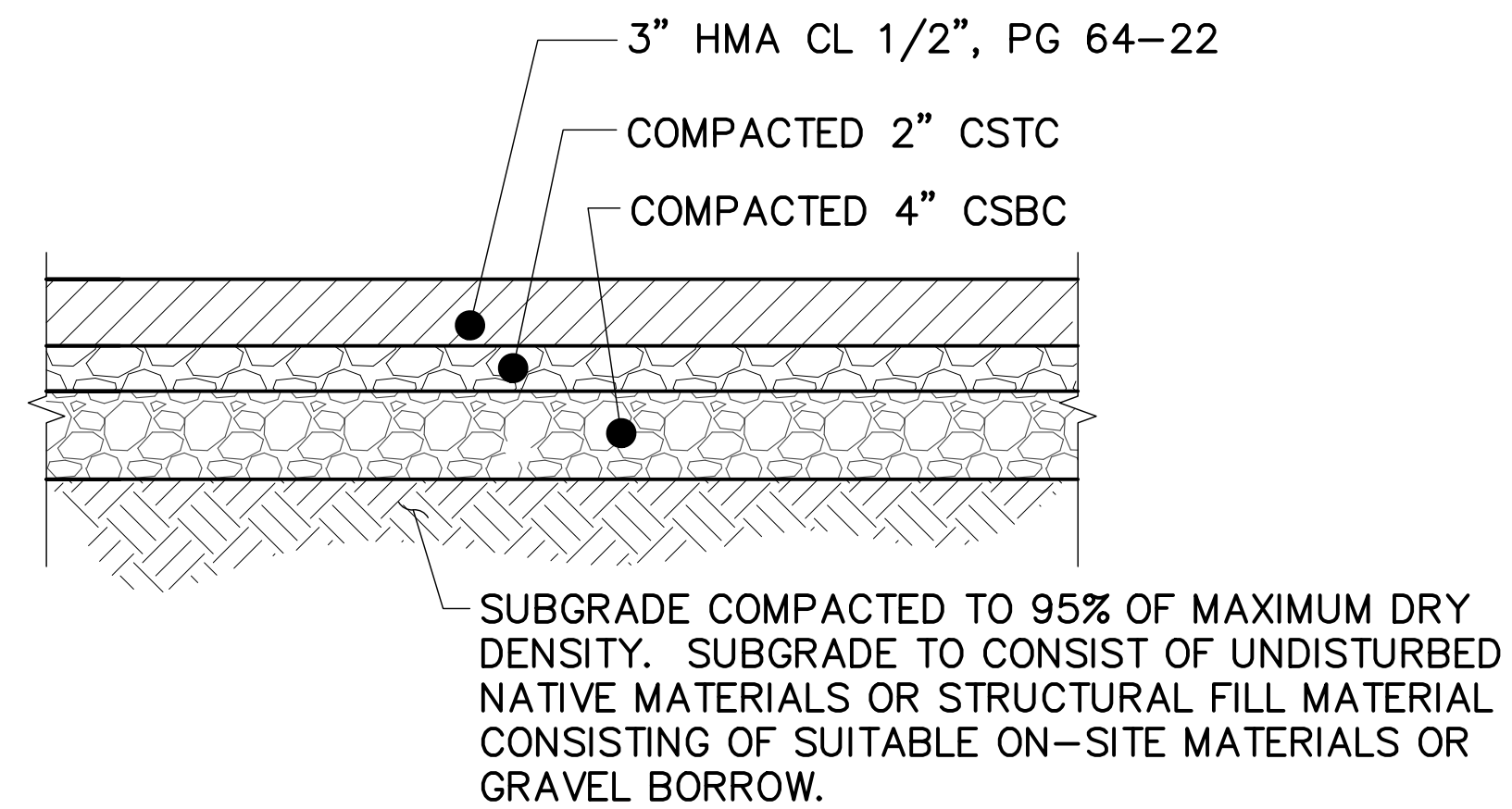
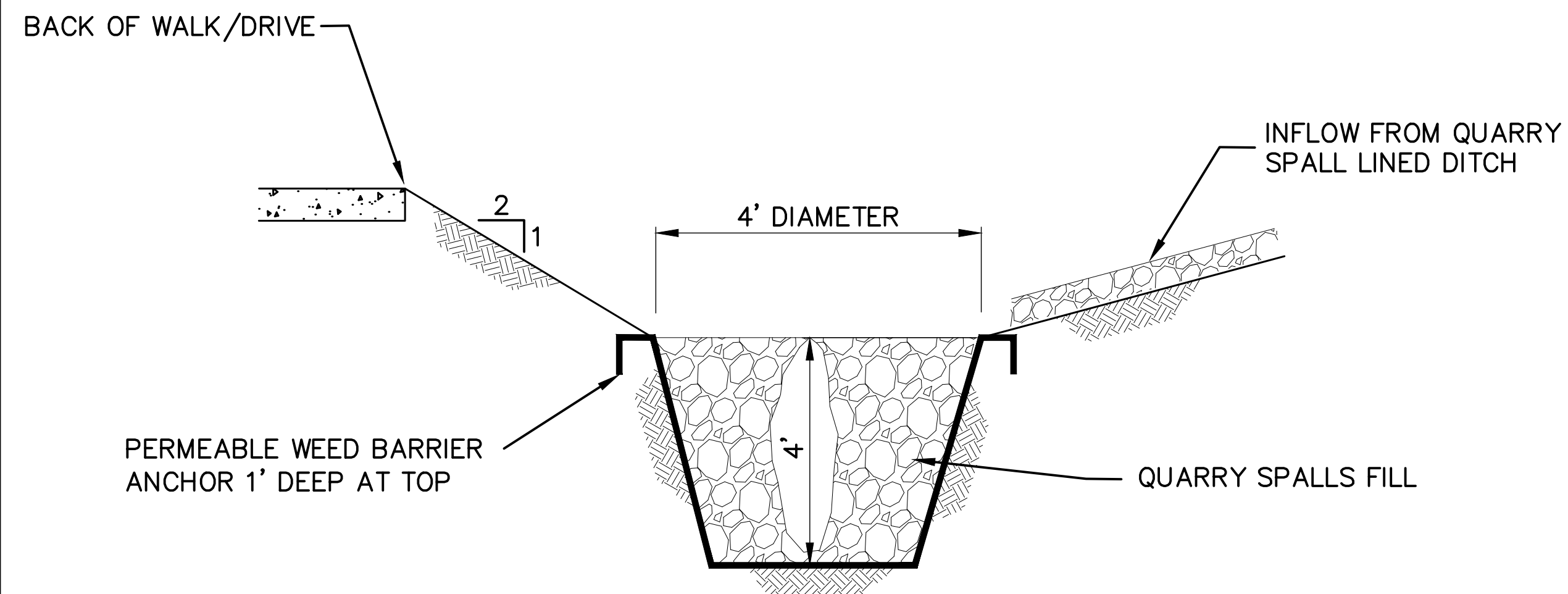
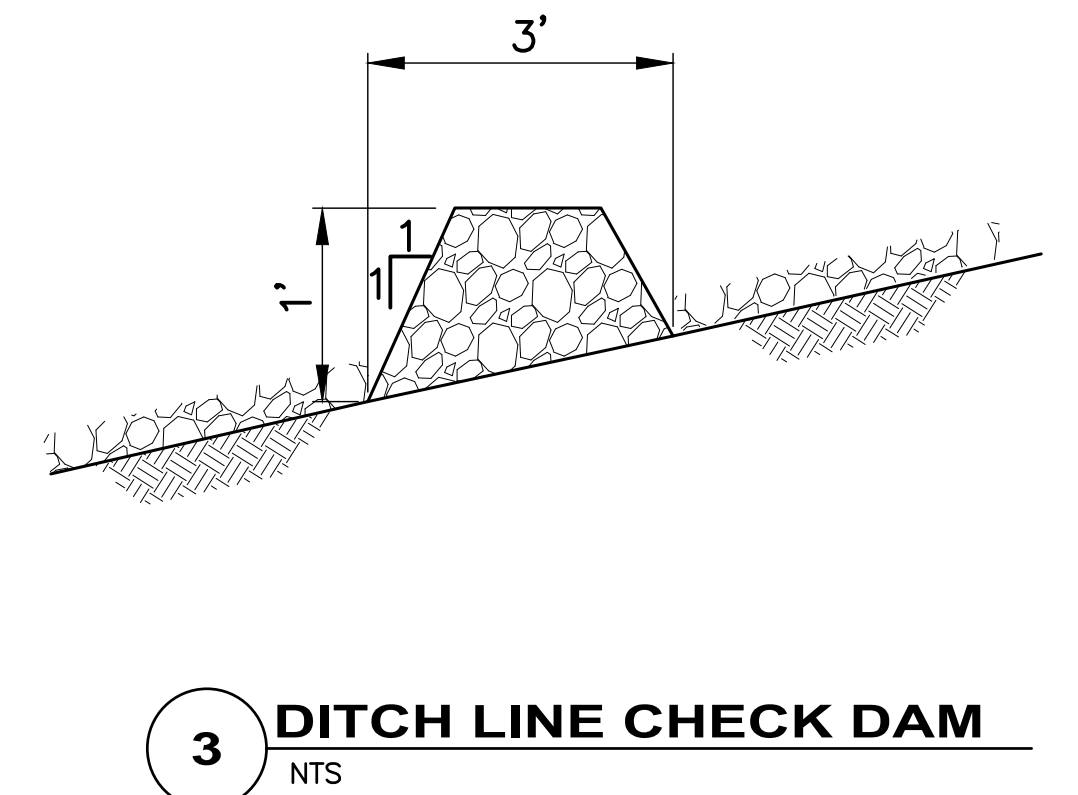
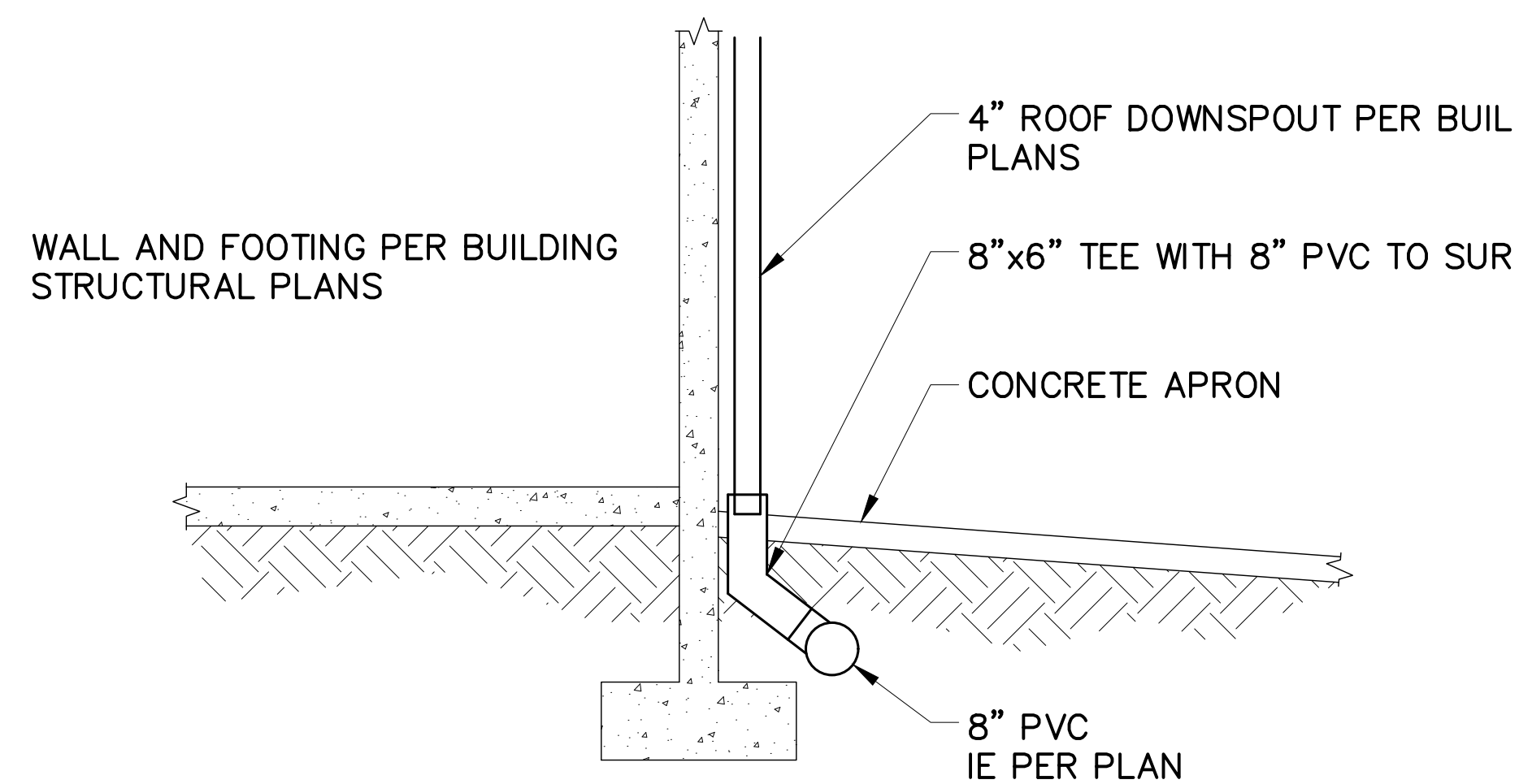
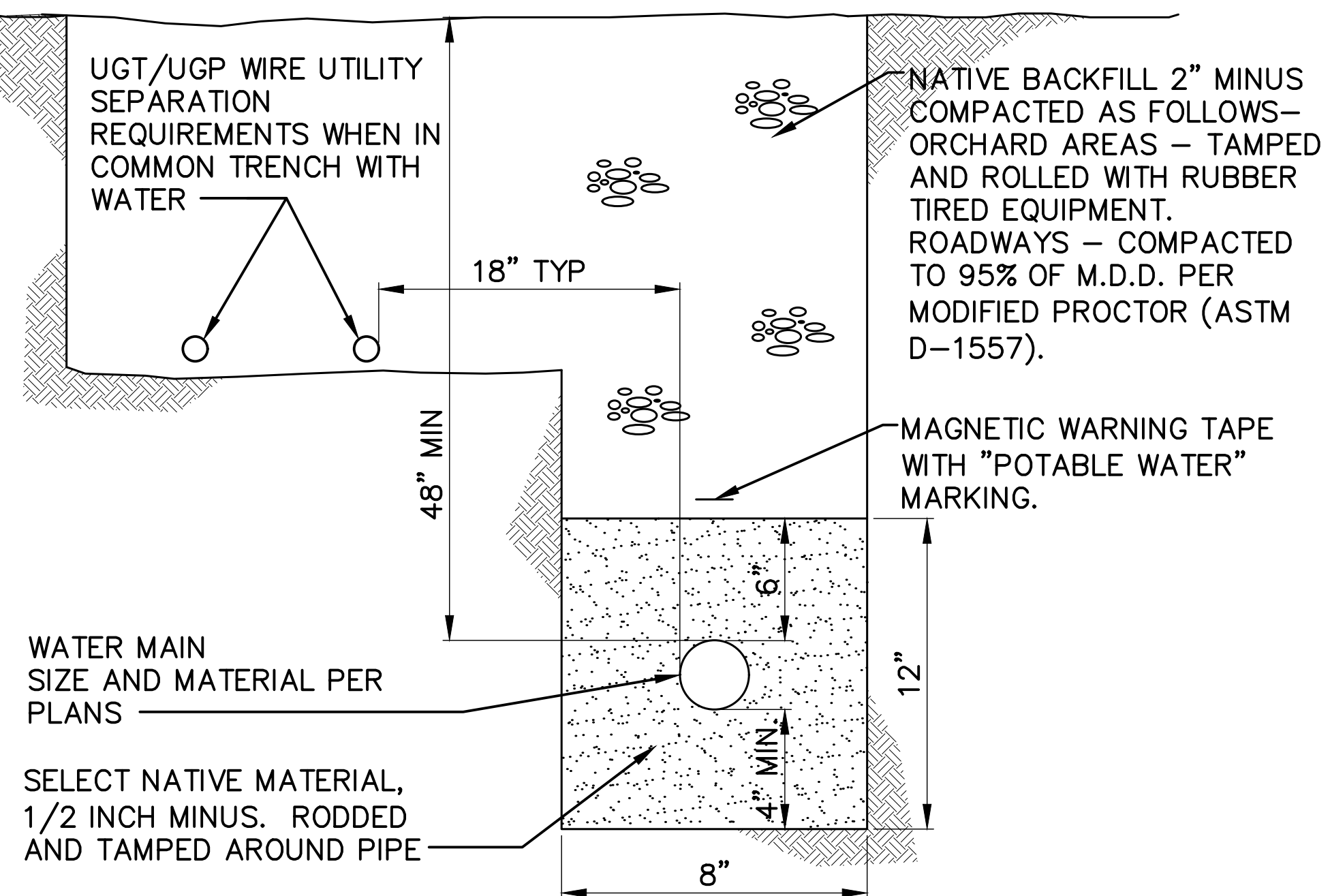
PRONOA-501 UIW DATA CENTER  
GRADING AND DRAINAGE

SECTIONS AND PROFILES

JOB NUMBER  
18487  
DWG NAME P18209 SECTIONS AND PROFILES  
SHEET 7 OF 9

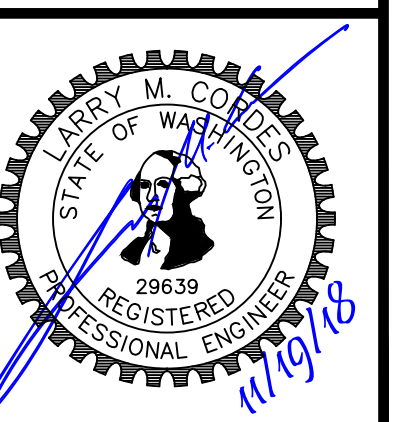






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**GRADING AND DRAINAGE**

DETAILS

DB NUMBER  
**18487**

WG NAME: P18209 DRAINAGE DETAILS

SHEET 9 OF 9