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LOCATION MAP

LATITUDE: 40°09'30" LONGITUDE: 83°14'03"



PORTION TO BE IMPROVED	-----	=====
INTERSTATE HIGHWAY	-----	=====
FEDERAL ROUTES	-----	=====
STATE ROUTES	-----	=====
COUNTY & TOWNSHIP ROADS	-----	=====
OTHER ROADS	-----	=====

DESIGN DESIGNATION

	<u>U.S. 42</u>	<u>INDUSTRIAL PKWY.</u>
CURRENT ADT (2022)	12,780	9,980
DESIGN YEAR ADT (2042)	19,430	20,290
DESIGN HOURLY VOLUME (2042)	2,330	2,090
DIRECTIONAL DISTRIBUTION	64%	51%
TRUCKS (24 HOUR B&C)	19%	12%
DESIGN SPEED	55	50
LEGAL SPEED	55	50
DESIGN FUNCTIONAL CLASSIFICATION:		
03 PRINCIPAL ARTERIAL (RURAL)		
NHS PROJECT	-----	YES

DESIGN EXCEPTIONS

DESIGN FEATURE	APPROVAL DATE	SHEET NUMBER
STOPPING SIGHT DISTANCE	04/21/20	P.158,P.170
SHOULDER WIDTH	PENDING	P.5,P.6,P.7

PLAN PREPARED BY:
STRAND ASSOCIATES, INC.
500 NEIL AVENUE, SUITE 110
COLUMBUS, OH 43215

END PROJECT
STA. 258+59.66
S.L.M. 4.92

BEGIN PROJECT
STA. 196+82.36
S.L.M. 3.91

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

UNI-42-3.91

JEROME TOWNSHIP
UNION COUNTY

INDEX OF SHEETS:

TITLE SHEET
SCHEMATIC PLAN
TYPICAL SECTIONS
GENERAL NOTES
MAINTENANCE OF TRAFFIC NOTES
MAINTENANCE OF TRAFFIC SCHEMATIC PLAN
DETOUR PLAN
MAINTENANCE OF TRAFFIC
GENERAL SUMMARY
SUBSUMMARIES
PROJECT SITE PLAN
PLAN AND PROFILE - U.S. 42

P.1 PLAN AND PROFILE - INDUSTRIAL PKWY.
P.2-P.3 PLAN AND PROFILE - WATKINS-CALIFORNIA RD.
P.4-P.9 CROSS SECTIONS - U.S. 42
P.10-P.11 CROSS SECTIONS - INDUSTRIAL PKWY.
P.12-P.14, P.14A INTERSECTION DETAILS
P.15-P.20 DRIVEWAY DETAILS
P.21 DRIVEWAY PROFILES
P.22-P.106 STORM SEWER PROFILES
P.107-P.109 CULVERT DETAILS
P.110-P.127, P.110A SIGN AND PAVEMENT MARKINGS PLAN
P.128-P.152 TRAFFIC SIGNAL
P.153-P.167 OMIT
SOIL PROFILES

P.168-P.172
P.173
P.174-P.208
P.209-P.221
P.222-P.225, P.222A, P.223A
P.226-P.227
P.228-P.233
P.234-P.235
P.236-P.244
P.245-P.263
P.264-P.276
P.277-P.321
P.322-P.347

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE WIDENING OF 1.18 MILES OF U.S. 42 AND INDUSTRIAL PARKWAY. PROJECT INCLUDES TURN LANES AND AN UPGRADED SIGNAL AT THE INTERSECTION OF U.S. 42 AND INDUSTRIAL PARKWAY. PROJECT INCLUDES FULL DEPTH REPLACEMENT, MILL AND OVERLAY, PAVEMENT MARKINGS, AND TRAFFIC SIGNAL REPLACEMENTS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 13.1 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 1.0 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: 14.1 ACRES

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

TRAFFIC REROUTED FOR BRIEF TIME PERIODS

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT FOR THE SIDE ROADS AS DESCRIBED ON SHEET P.21, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

UNDERGROUND UTILITIES

Contact Two Working Days
Before You Dig



OHIO811, 8-1-1, or 1-800-362-2764
(Non-members must be called directly)

Anthony C. Turowski

Anthony C. Turowski, P.E.
District 06 Deputy Director

Pamela Boratyn

Pamela Boratyn
ODOT Director

ENGINEERS SEAL:
SIGNALS, MOT

ENGINEER'S SEAL

STANDARD CONSTRUCTION DRAWINGS										SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-2.1	1/21/22	HL-10.11	7/21/23	MT-95.30	7/19/19	TC-21.21	1/20/23	TC-85.10	10/21/22	SS 800	1/17/25
BP-2.2	1/15/21	HL-10.12	7/21/23	MT-95.31	7/19/19	TC-41.20	10/18/13	TC-85.21	4/21/23	SS 809	10/20/23
BP-3.1	1/21/22	HL-30.11	7/21/23	MT-95.32	4/19/19	TC-41.30	4/21/23	TC-85.22	4/21/23	SS 813	7/21/23
BP-3.2	1/18/19	HL-30.22	1/15/21	MT-97.10	4/19/19	TC-42.10	10/18/13			SS 832	7/19/24
BP-4.1	7/19/13	HL-60.11	7/21/17	MT-97.12	1/20/17	TC-42.20	10/18/13			SS 878	1/21/22
BP-5.1	7/15/22			MT-98.30	7/16/21	TC-52.10	10/18/13			SS 1120	7/15/22
		HW-1.1	7/19/24	MT-99.20	4/19/19	TC-52.20	1/15/21				
CB-3A	7/16/21			MT-99.30	1/17/20	TC-61.10	4/21/23				
CB-6	1/21/22	ITS-12.50	7/16/21	MT-101.60	4/21/23	TC-61.30	7/19/19				
				MT-101.70	4/21/23	TC-65.10	1/17/14				
DM-1.1	7/17/20	MGS-1.1	7/16/21	MT-101.75	7/21/23	TC-65.11	7/15/22				
DM-4.2	7/20/12	MGS-2.1	1/19/18	MT-101.80	1/17/20	TC-71.10	4/21/23				
DM-4.3	1/15/16	MGS-4.2	7/19/13	MT-101.90	7/17/20	TC-81.11	1/20/23				
DM-4.4	1/15/16	MGS-5.3	7/15/16	MT-102.20	4/19/19	TC-83.10	1/17/20				
				MT-105.10	1/17/20	TC-83.20	7/15/22				
		MH-3	7/21/23	MT-120.00	1/20/23	TC-84.20	10/18/13				

FEDERAL PROJECT NO.

E180 (762)

PID NO.

107822

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT

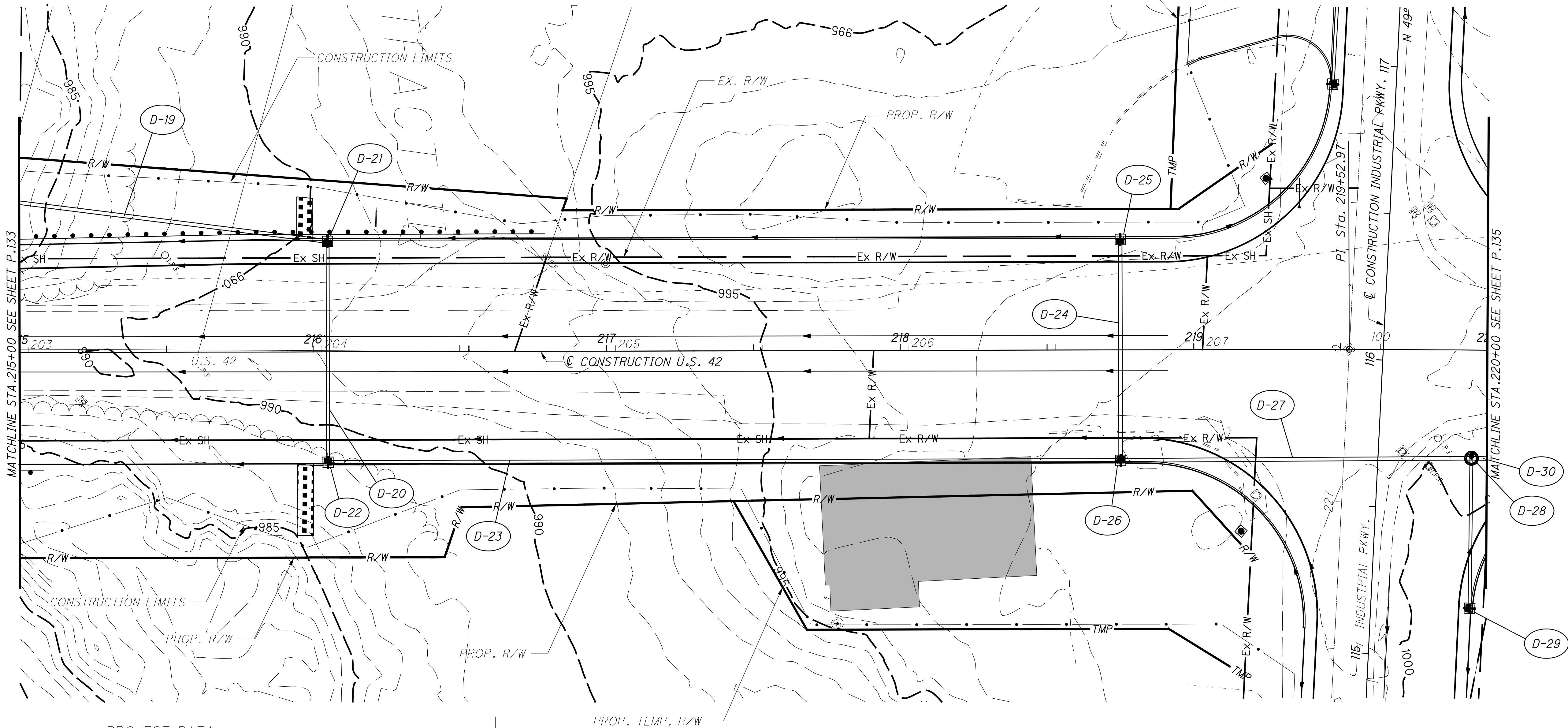
NONE

UNI-42-3.91

P.1
P.347

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BMP Type	Latitude/Longitude				BMP Width	EDA Treatment Credit
	Begin		End		(Feet)	(Acres)
Vegetative Biofilter 1	40.153448	-83.239536	40.155005	-83.238067	4	0.85
Vegetative Biofilter 2	40.158609	-83.234495	40.159735	-83.233464	4	0.86
Vegetative Biofilter 3	40.162764	-83.230369	40.163139	-83.229834	4	0.37
Vegetative Filter Strip 1	40.156494	-83.236481	40.158504	-83.234521	63	0.23
Vegetative Filter Strip 2	40.163241	-83.229501	40.163859	-83.228937	40	1.32
				Treatment Provided		3.63
				Treatment Required*		3.31



PROJECT DATA			
TOTAL AREA (RIGHT-OF-WAY)	14.7 AC	RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE	0.70
PROJECT EARTH DISTURBED AREA	13.1 AC	RUNOFF COEFFICIENT FOR POST-CONSTRUCTION SITE	0.75
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	1.0 AC	POST CONSTRUCTION BMP(S): VEGETATED FILTER STRIP & VEGETATED BIOFILTER	
NOTICE OF INTENT EARTH DISTURBED AREA	14.1 AC	IMMEDIATE RECEIVING WATERS	SUGAR RUN
IMPERVIOUS (PAVED) AREA FOR PRE-CONSTRUCTION SITE	8.2 AC	SUBSEQUENT RECEIVING WATERS	THREE MILE CREEK
IMPERVIOUS (PAVED) AREA FOR POST CONSTRUCTION SITE	9.8 AC		

NOTE: NEW CFN'S

D-20 CFN 1998202
D-24 CFN 1998203
D-27 CFN 1998204

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0 20 40
HORIZONTAL
SCALE IN FEET

CALCULATED
ACS

CHECKED
JDH

PROJECT SITE PLAN
STA. 215+00 TO 220+00 U.S. 42

UNI-42-3.91

P.134

P.347

NEW CFN'S
D21-D22 1998202
D25-D26 1998203
D26-D28 1998204

EX. UTILITY POLE
(TO BE RELOCATED
BY OTHERS)

SOLDIERS' BOARD OF TOWNSHIP TR
MONUMENT JEROME TOWNSHIP
1500330060000

BOARD OF TOWNSHIP
TRUSTEES JEROME TOWNSHIP
11500330090000

EX. (7) BUMPER BLOCKS
(TO REMAIN)
(TYP.)

JEROME
TOWNSHIP
PARK
PROP. SIGNAL

— EX. (1) BUMPER BLOCK
(TBR)

EX. FIBER OPTIC
(TO REMAIN)

EX. TELECOM
(TBRBO)

EX. SIGNAL
(TO BE REPLACED)
(TYP.)

MATCHLINE STA. 215+00 SEE SHEET P.157

MATCHLINE STA 220+00 SEE SHEET P 159

NOTE
FOR INDUSTRIAL PARKWAY DETAILS
SEE SHEET P.170

LEO F. AND MARILYN S. ZIMMERMAN, TR
1 1500330170000

CONSTRUCTION LIMITS

LEO F AND MARILYN S ZIMMERMAN, TR.
1500330190000

D F. AND MARILYN S. ZIMMERMAN
1500330180000-RAW-

STA. 219+64.53 @ CONSTR. U.S. 42 =
STA. 116+03.59 @ CONSTR. INDUSTRIAL PKWY.

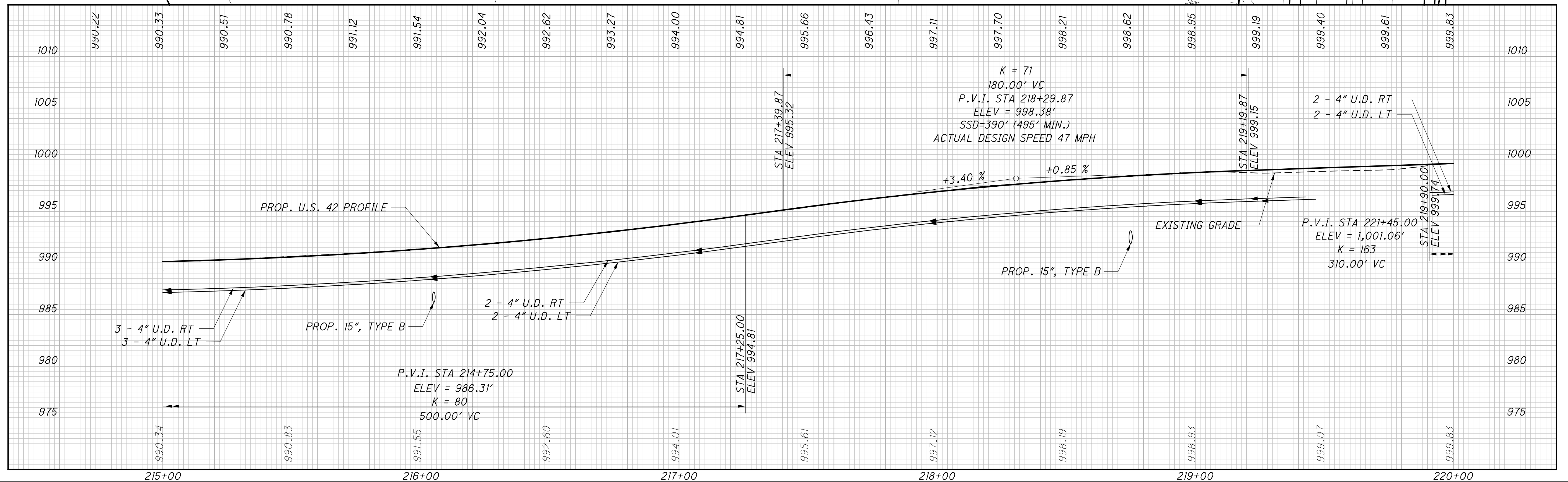
EX. UTILITY BOX
(TO BE REMOVED AND
RELOCATED BY OTHERS)

— PROP. SIGNAL

— BOLT DOWN LID

— EX. WATER
(TO REMAIN)

EX. UTILITY POLE
AND TELECOM BOX
(TBRBO)



A circular prohibition sign with a black border. Inside the circle, a black right-pointing arrow is shown with a diagonal slash through it, indicating that right turns are prohibited.

HORIZONTAL
SCALE IN FEET

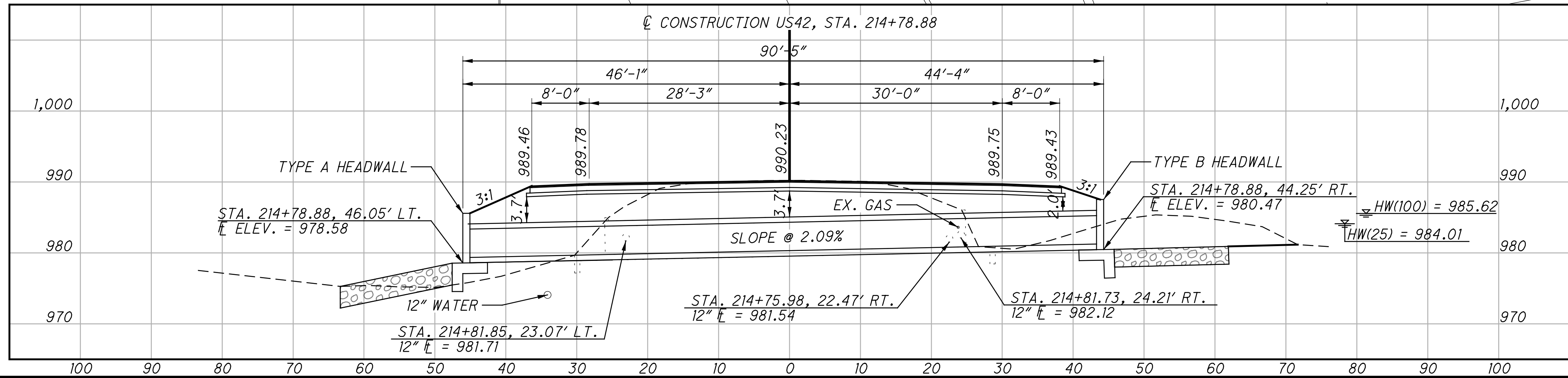
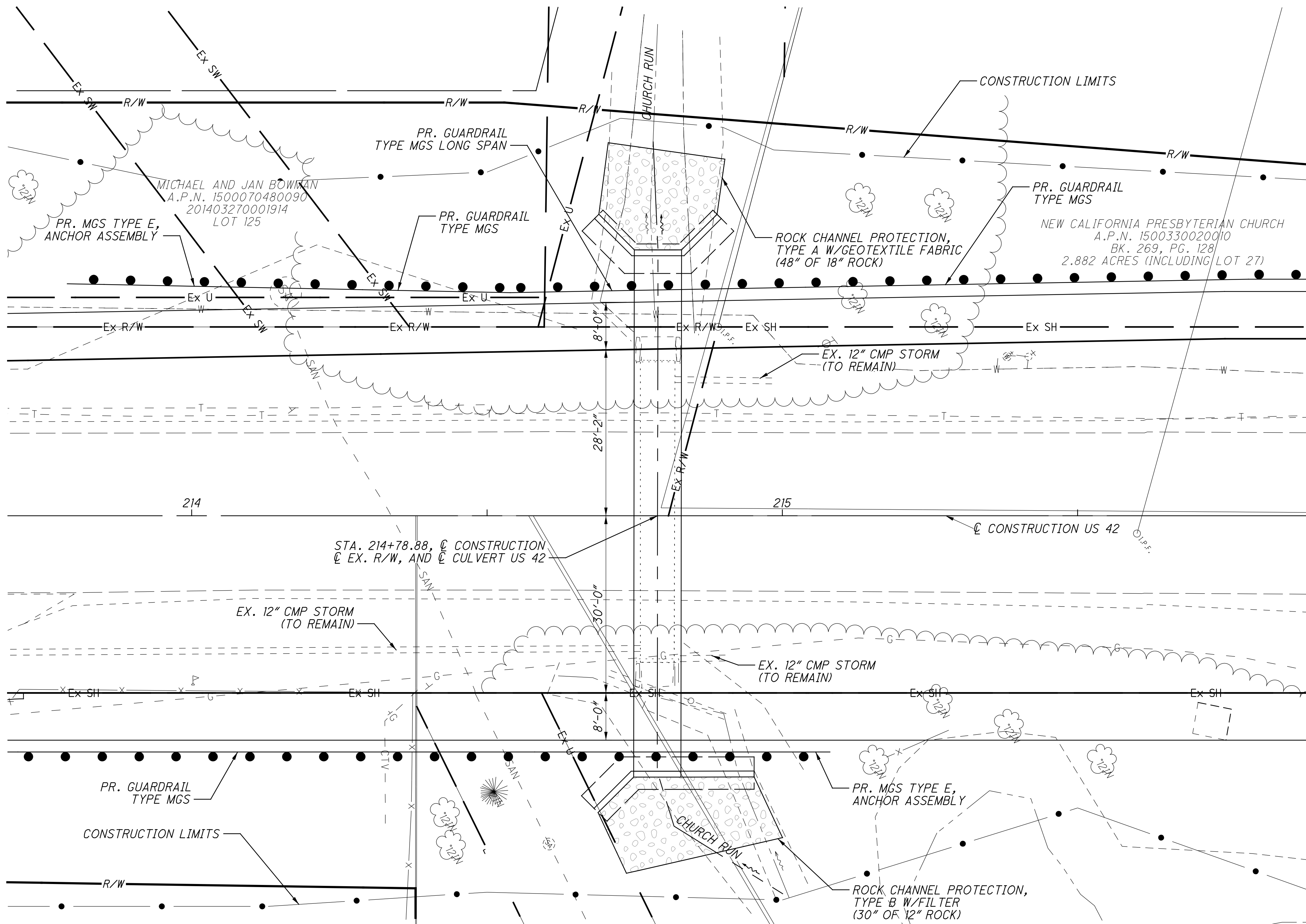
CALCULATED	JTO
CHECKED	JDH

PLAN AND PROFILE - U.S. 42
STA. 215+00.00 TO STA. 220+00.00

UNI-42-3.91

P.158
P.347

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NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

HYDRAULIC DATA

DRAINAGE AREA = 154 ACRES
Q (25) = 144 CFS V (25) = 16.27 FT/S HW (25) = 984.01 FT
Q (100) = 220 CFS V (100) = 18.76 FT/S HW (100) = 985.62 FT
ORDINARY HIGH WATER MARK: N/A
DESIGN SERVICE LIFE: 75 YRS
pH: 7.8
ABRASION LEVEL: 4
CFN: 1884222



CULVERT DETAIL (US-42-4.061)

STA. 214+78.88

EXISTING STRUCTURE

TYPE: 6' X 4' CONCRETE BOX CULVERT WITH STEPPED ENDS LEFT AND RIGHT

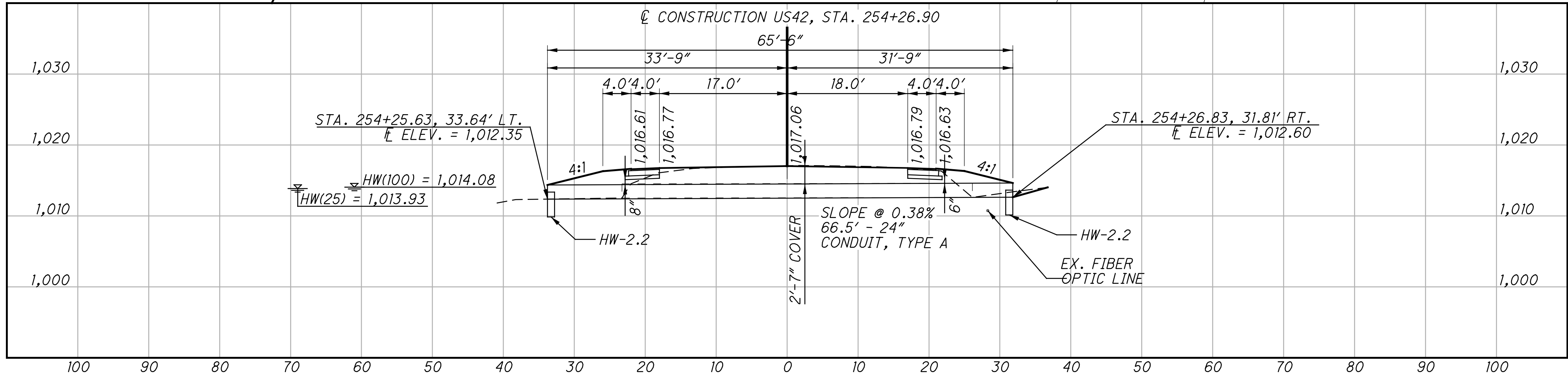
SKEW: 0°
 ALIGNMENT: TANGENT
 CFN: 1884222

PROPOSED STRUCTURE

TYPE: 8' x 4' CONCRETE BOX CULVERT WITH TYPE A & B HEADWALL

SKEW: 0°
ALIGNMENT: TANGENT
CFN: 1998201

UNI-42-3.91



EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

DRAINAGE AREA = 5.19 ACRES
Q (25) = 6.92 CFS V (25) = 4.82 FT/S HW (25) = 1,013.93 FT
Q (100) = 8.36 CFS V (100) = 5.12 FT/S HW (100) = 1,014.08 FT
ORDINARY HIGH WATER MARK: N/A
DESIGN SERVICE LIFE: 75 YRS
pH: N/A
ABRASION LEVEL: 1
CFN: 1884225

TYPE: 24" CORRUGATED PLASTIC, SMOOTH INTERIOR PIPE
(50'-0" LENGTH)

SKEW: 0°
ALIGNMENT: TANGENT
CFN: 1884225

TYPE: 24" CONDUIT, REINFORCED CONCRETE PIPE (706.02),
TYPE A WITH HW-2.2
(65'-6" LENGTH)

SKEW: 0°
ALIGNMENT: TANGENT
CFN: 1998205