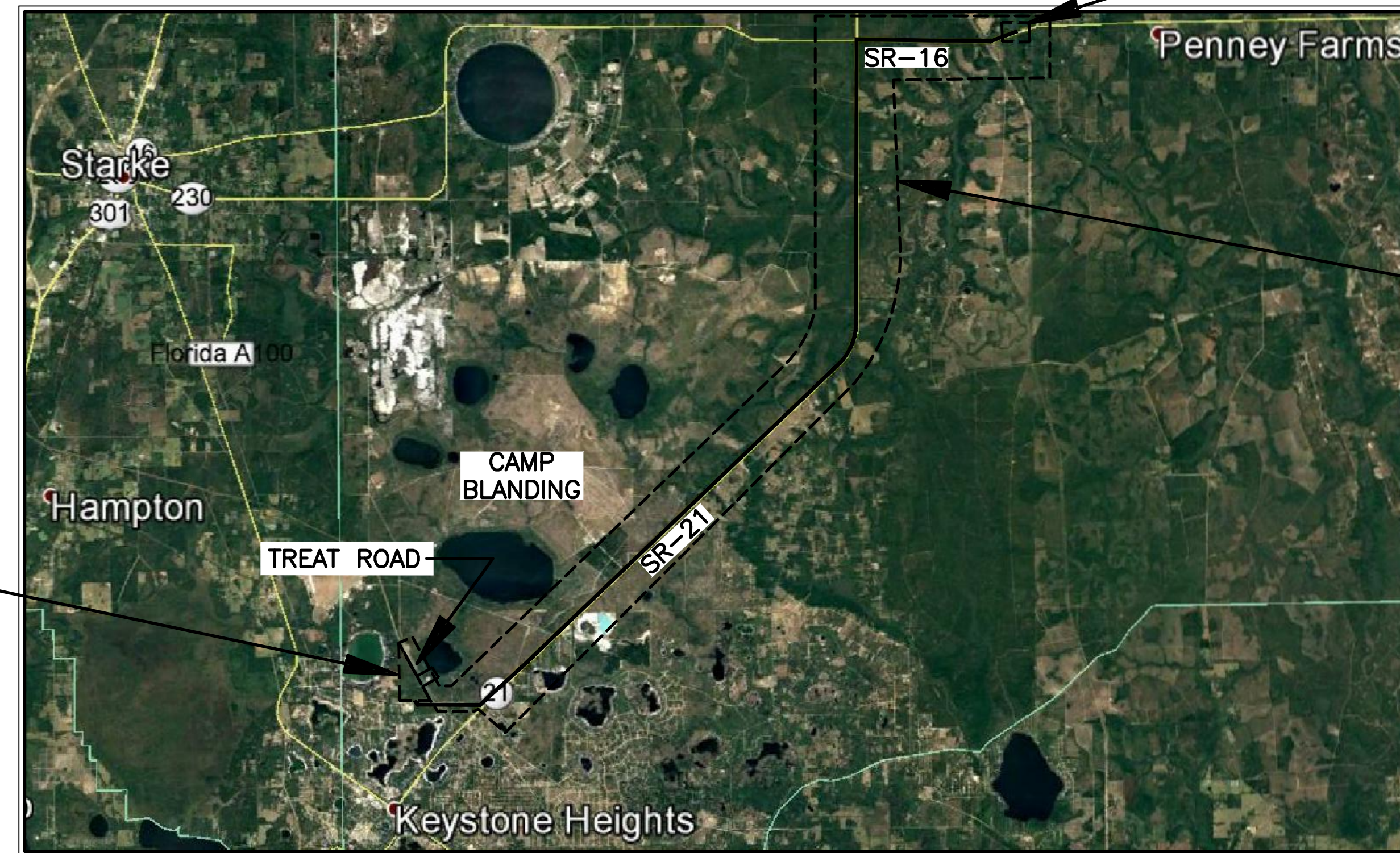


ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, LOWER ST. JOHNS RIVER BASIN BLACK CREEK WATER RESOURCE DEVELOPMENT PROJECT 30" RAW WATER TRANSMISSION MAIN CLAY COUNTY, FLORIDA

**ST. JOHNS RIVER WATER
MANAGEMENT DISTRICT BOARD**

CONTRACT NO. 30593

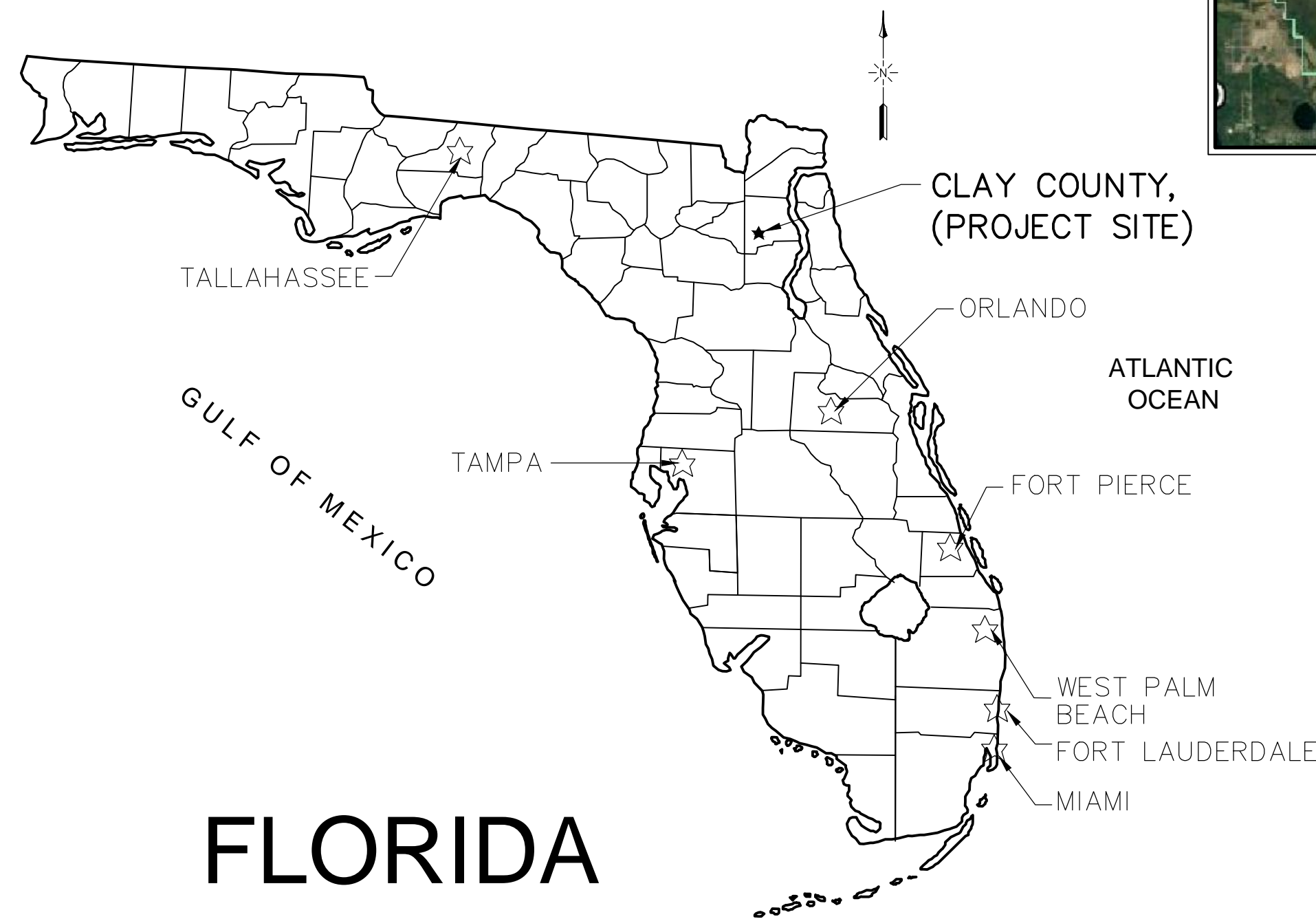
ROB BRADLEY, CHAIRMAN, AREA 2
 MARYAM H. GHYABI-WHITE, VICE CHAIRMAN, AT LARGE
 RON HOWSE, TREASURER, AT LARGE
 J. CHRIS PETERSON, SECRETARY, AREA 4
 RYAN ATWOOD, AREA 3
 DOUG BOURNIQUE, AREA 5
 DOUGLAS BURNETT, AT LARGE
 COLE OLIVER, AT LARGE
 JANET PRICE, AREA 1



BLACK CREEK INTAKE STRUCTURE
AND PUMP STATION
(NOT IN CONTRACT)

PROJECT LIMITS
AND LOCATION

RECHARGE AREA
(NOT IN CONTRACT)



VICINITY PLAN
N.T.S.

SCALE IN FEET
5000 2500 0 5000 10000

LOCATION PLAN

JUNE 2022

**CDM
Smith**

4651 Salisbury Road, Suite 420
 Jacksonville, FL 32256
 Tel: (904) 731-7109
 COA No. EB-0000020

ISSUED FOR BID

Water

Environment

Transportation

Energy

Facilities

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY CLAY M. TAPPAN, P.E. NO. 42772 ON THE DATE ADJACENT TO THE SEAL

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C-34	STATE ROAD 21/ STATE ROAD 16 STA 844+00 TO STA 864+50
C-35	STATE ROAD 16 STA 865+50 TO STA 887+50
C-36	STATE ROAD 16 STA 887+50 TO STA 910+00
C-37	STATE ROAD 16 STA 910+00 TO STA 932+00
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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN
 DRAWN BY: J. AUST
 SHEET CHK'D BY: G. CASHON
 CROSS CHK'D BY: C. TAPPAN
 APPROVED BY: _____
 DATE: JUNE 2022



4651 Salisbury Road, Suite 420
 Jacksonville, FL 32256
 Tel: (904) 731-7109
 FL COA No. EB-0000020

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

SIGNATURE SHEET

PROJECT NO. 9247-221208
FILE NAME: GOAGNSI.DWG
SHEET NO. G-0-A

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ABBREVIATIONS

UNDERGROUND GAS LINE	GAS	STAINLESS STEEL	SS
GALVANIZED STEEL PIPE	GSP	STANDARD	STD
GATE VALVE	GV	STATION	STA
GOPHER TORTOISE LOCATION	GTL	STEEL	STL
		STEEL PIPE	SP
		SYMMETRICAL	SYMM
HIGH	H		
HIGH POINT	HP	THICK	THK
HEIGHT	HT	TIED JOINT	TJ
HIGH-DENSITY POLYETHYLENE	HDPE	TYPICAL	TYP
HORIZONTAL DIRECTIONAL DRILL	HDD	TEMPORARY	TEMP
IRRIGATION LINE	IRR	TRAFFIC SIGNAL LINE	TSL
JACK & BORE	J&B		
LEFT	LT	UNDERGROUND ELECTRIC	UE
LINEAR FEET	LF	UNKNOWN POST	UP
LINEAR FEET	LF	UNDERGROUND TELEPHONE	UT
LONG	LG		
LOW POINT	LP	VERTICAL	VERT
		VACUUM BREAKER	VB
MATERIAL	MTL	WATER	WTR
MANUFACTURING	MFG	WATER LINE	WL
MANUFACTURER	MFR	WATER MAIN	WM
MAXIMUM	MAX	WATER RESOURCES DEVELOPMENT	WRD
MITERED END SECTION	MES	WEATHERPROOF	WPF
		WEST	W
		WITH	W/

ABBREVIATIONS

ACRE	AC	MECHANICAL	MECH
ADJUSTABLE	ADJ	METAL	MET
ALUMINUM	ALUM	MECHANICAL JOINT	MJ
ANGLE	<	METAL REINFORCED PLASTIC PIPE	MRPP
AIR RELEASE VALVE	ARV	MINIMUM	MIN
		MOUNTED	MTD
BARE ROOT	BR	MAINTENANCE OF TRAFFIC	MOT
BASELINE	BL		
BELOW	BEL		
BENCHMARK	BM	NOMINAL	NOM
BETWEEN	BTWN	NORTH/NORTHING	N
INTAKE AND RECHARGE BORING	B	NOT IN CONTRACT	NIC
BURIED TV LINE	BTV	NOT TO SCALE	NTS
BUTTERFLY VALVE	BFV	NUMBER	NO
BUIRED TELEPHONE	BTE		
		ON CENTER	OC
CENTER LINE	CL	OVERHEAD	OH
CENTER TO CENTER	CC	OPTION	OPT
CONCRETE	CONC	OPPOSITE	OPP
CORRUGATED METAL PIPE	CMP	OPENING	OPNG
CENTER (ED)	CTR	OR EQUAL	O/E
COMBINATION AIR VALVE	CAV	OUTSIDE CLEARANCE	OC
		OVERHEAD ELECTRIC	OH
CURVE DATA (HORIZONTAL)	CH - CHORD R - RADIUS Δ - DELTA L - ARC LENGTH PRC - POINT OF REVERSE CURVE	PERFORATED	PERF
		PIECE	PC
DITCH BOTTOM INLET	DBI	PIPELINE BORING	PB
DEMOLITION	DEMO	POINT	PT
DIAMETER	DIA, DIAM	POLYETHYLENE	PE
DIAGONAL	DIAG	POLYVINYLCHLORIDE	PVC
DIMENSION	DIM	POTABLE WATER	PW
DISCHARGE	DISCH	POUND(S)	LB(S)
DRAWING	DWG	PROPERTY LINE	PL
DUCTILE IRON PIPE	DIP	POWER POLE	PP
DUCTILE IRON PIPE SIZE	DIPS	PRECAST	PRCST
DUCTILE IRON	DI		
		RADIUS	RAD, R
EACH	EA	RAW WATER	RW
EAST/EASTING	E	RAW WATER MAIN	RWM
ELLIPTICAL CORRUGATED METAL PIPE	ECMP	REINFORCED CONCRETE PIPE	RCP
ELECTRIC BOX PEDESTAL	EP	REQUIRED	REQ'D
ELECTRICAL CONTROL BOX	ECB		
ELEVATION	EL, ELEV	RESTRAINED JOINT	RJ
EDGE OF PAVEMENT	EOP	RIGHT	RT
EXISTING	EXIST	RIGHT OF WAY	R/W
		ROOM	RM
FIBERGLASS REINFORCED PIPE	FRP		
FINISH	FIN	SCHEDULE	SCH
FLANGE	FLG	SECTION	SEC
FLOOR	FL	SEWER COMBINATION AIR VALVE	SCAV
FORCE MAIN	FM	SHEET	SHT
FIBER OPTIC	FO	SLIP-ON JOINT	SJ
FURNISHED BY OTHERS	FBO	SQUARE	SQ
FEET/FOOT	FT	SQUARE YARD	SY
FLORIDA DEPARTMENT OF TRANSPORTATION	FDOT	STATE ROAD	SR

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DESIGNED BY: C. TAPPAN
 DRAWN BY: D. AUST
 SHEET CHK'D BY: G. CASHON
 CROSS CHK'D BY: C. TAPPAN
 APPROVED BY: _____
 DATE: JUNE 2022



ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

INDEX OF SHEETS AND ABBREVIATIONS

DATE: CLAY M TAPPAN
 PE NO. 42772

PROJECT NO. 9247-221208
 FILE NAME: G001NFX.DWG

SHEET NO.

G-1

ISSUED FOR BID

GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL CONFORM TO CLAY COUNTY STANDARDS AND SPECIFICATIONS, LATEST EDITION OF UTILITIES ACCOMMODATION MANUAL (UAM), THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2019), AND FDOT FY 2018-2019, OR LATEST EDITION STANDARD PLANS.
2. ALL ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
3. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES AFFECTING HIS WORK.
4. CONTRACTOR SHALL VERIFY ALL UTILITIES AND NOTIFY UTILITY OWNER, 72 HOURS PRIOR TO DIGGING IN ANY PORTION OF THE SITE.
5. THE CONTRACTOR SHALL REPLACE ANY MONUMENTS, FENCES, ETC. WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION. COST TO BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION SHALL BE ALLOWED.
6. TOPOGRAPHIC SURVEY WAS PERFORMED BY: WOOLPERT, INC. UNIVERSITY CORPORATE CENTER 11, 11486 CORPORATE BOULEVARD, SUITE 190, ORLANDO, FL. 32817, PHONE: 407-591-5010.
PORTIONS OF SURVEY PERFORMED BY: SOUTHEASTERN SURVEYING AND MAPPING CORPORATION, 8641 BAYPINE ROAD, SUITE 5, JACKSONVILLE, FLORIDA 32256. PHONE 904-737-5995
7. THE CONTRACTOR SHALL CONTACT THE ENGINEER'S OFFICE IMMEDIATELY UPON FINDING ANY CONFLICTS DURING CONSTRUCTION OF ANY IMPROVEMENTS SHOWN ON THE DRAWINGS.
8. MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO ENSURE THAT ADEQUATE EROSION AND SEDIMENT CONTROL ARE MAINTAINED AT ALL TIMES DURING THE PROJECT (SEE EROSION CONTROL NOTES).
9. STATION OFFSETS SHOWN ON PLANS ARE FROM BASELINE OF CONSTRUCTION TO CENTERLINE OF STRUCTURE.
10. ALL STATIONING AND OFFSET REFERS TO CONSTRUCTION BASELINE UNLESS OTHERWISE NOTED ON PLANS.
11. PRIOR TO EXCAVATING IN THE VICINITY OF A GAS LINE, THE CONTRACTOR SHALL NOTIFY THE GAS UTILITY OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF FLORIDA STATUTES, PROTECTION OF UNDERGROUND PIPELINES F.S. 553.851, CH 17-143.
12. ALL BRUSH, STRIPPINGS OR UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF-SITE AT THE CONTRACTOR'S EXPENSE.
13. ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE CONDITION EXISTING PRIOR TO COMMENCING CONSTRUCTION UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. COSTS TO BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION TO BE ALLOWED.
14. THE LIMITS OF CONSTRUCTION SHOWN ON THE PLANS SHALL BE STRICTLY OBSERVED BY THE CONTRACTOR. ALL INGRESS, EGRESS AND TRAFFIC PATTERNS ON THE SITE SHALL BE WITHIN THE LIMITS OF CONSTRUCTION SHOWN ON THE DRAWINGS.
15. THE LIMITS OF CONSTRUCTION SHALL BE BETWEEN THE EDGE OF PAVEMENT (EOP) AND THE ADJACENT RIGHT OF WAY LINE. EXCEPTIONS TO THE LIMITS OF CONSTRUCTION (WORK OUTSIDE OF THE RIGHT OF WAY LINE) WILL BE NOTED BY A TEMPORARY CONSTRUCTION EASEMENT WHICH WILL BE ACQUIRED BY THE OWNER. NO WORK SHALL OCCUR OUTSIDE THE LIMITS OF CONSTRUCTION UNLESS NOTED ON PLANS.
16. NO REPRESENTATION IS MADE REGARDING BALANCED EARTHWORK, ANY EXCESS MATERIAL, OR MATERIAL NOT SUITABLE FOR USE AS BACKFILL, SHALL BE DISPOSED OF BY THE CONTRACTOR.
17. IN AREAS REQUIRING FILL MATERIAL, THE CONTRACTOR WILL STRIP OR OTHERWISE REMOVE ALL VEGETATION SUCH AS BRUSH, HEAVY SODS, HEAVY GROWTH OF GRASS, DECAYED VEGETABLE MATTER, RUBBISH AND ANY OTHER DELETERIOUS MATERIAL BEFORE EMBANKMENT IS STARTED. IMMEDIATELY PRIOR TO THE PLACING OF FILL MATERIALS, THE ENTIRE AREA UPON WHICH FILL IS TO BE PLACED, SHALL BE SCARIFIED.
18. ABSOLUTELY NO WORK WILL BE ALLOWED WITHIN ANY CONSERVATION AREA, BUFFER AREA, MITIGATION AREA, OR DESIGNATED WETLAND AREA UNLESS SO SPECIFICALLY DESCRIBED BY THE PLANS AND GRANTED BY REASON OF PERMIT FROM THE GOVERNMENTAL ENTITY HAVING JURISDICTION OVER SAID AREA.
19. A DE-WATERING PERMIT IS REQUIRED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) PRIOR TO ANY PUMPING, ETC. AND SHALL BE OBTAINED BY THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, INSTALLATION, PERMIT AND OPERATION OF AN ADEQUATE DEWATERING SYSTEM TO DEWATER EXCAVATIONS FOR CONSTRUCTION WITH NO ADDITIONAL COMPENSATION.
20. DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL, PROTECTION, AND REPLACEMENT OF ITEMS ON PRIVATE PROPERTY AND PUBLIC RIGHTS OF WAY SUCH AS SPRINKLERS, FENCES, SOD, SHRUBS, TREES, SURVEYING MARKERS, ETC.
21. CONTRACTOR SHALL SEED ALL DISTURBED AREAS PER THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (JANUARY 2018, OR LATEST EDITION).
22. IMMEDIATELY AFTER THE WORK IS COMPLETED, CONTRACTOR SHALL BEGIN SEEDING OPERATIONS OF ALL DISTURBED AREAS PER FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (JANUARY 2018, OR LATEST EDITION). THE CONTRACTOR SHALL RESTORE THE RIGHT OF WAY TO THE CONDITION EXISTING PRIOR TO THE WORK. THE CONTRACTOR SHALL MAINTAIN THAT PORTION OF THE RIGHT OF WAY AFFECTED BY THE WORK UNTIL VEGETATION IS ESTABLISHED. FULL PAYMENT FOR SECTIONS OF COMPLETED PIPELINE WITHIN FDOT RIGHT-OF-WAY SHALL NOT BE MADE UNTIL CONTRACTOR HAS RECEIVED APPROVAL FROM FDOT FOR FINISHED GRADING AND VEGETATION.

GENERAL NOTES

- 23. CONTRACTOR IS MADE AWARE THAT OVERHEAD POWER LINES ARE PRESENT RUNNING PARALLEL TO AND CROSSING THE PROPOSED PIPE ALIGNMENT. CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO ENSURE THE SAFETY OF WORKERS AND THE PUBLIC.
24. WHEN OPEN CUTTING TURNOUTS THE CONTRACTOR SHALL:
A. NOTIFY OWNERS SEVEN (7) DAY IN ADVANCE USING DOOR-HANGER TYPE NOTICES OR ON-SITE SIGNS AS APPROPRIATE AND APPROVED.
B. MAINTAIN USER'S ACCESS TO THE PROPERTY.
C. RESTORE THE DRIVEWAYS TO AT LEAST AN EQUIVALENT CONDITION AND TYPES OF MATERIAL TO WHAT EXISTED PRIOR TO CUTTING.
25. WITHIN THE ENTIRE PROJECT AREA, THE CONTRACTOR SHALL CONDUCT A PRE-CONSTRUCTION SURVEY OF ACTIVE AND INACTIVE GOPHER TORTOISE BURROWS AND SHALL IMMEDIATELY THEREAFTER INSTALL A CONTINUOUS DOUBLE ROW OF SILT FENCES TO EXCLUDE GOPHER TORTOISES FROM WORK AREAS. ONSITE RELOCATION ACTIVITIES SHALL BE PERFORMED FOR ANY ACTIVE OR INACTIVE BURROWS LOCATED WITHIN THE PROJECT AREA IN ACCORDANCE WITH SECTION 02100 OF THE SPECIFICATIONS.

MAINTENANCE OF TRAFFIC

- 1. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF TRAFFIC (MOT) THROUGHOUT THE PROJECT.
2. MOT SHALL CONFORM TO FDOT INDEX 600 SERIES STANDARDS. INDEX 601, 602, 611 AND 612 ARE PROVIDED FOR CONTRACTOR'S CONVENIENCE.
3. WORK PERFORMED OUTSIDE FDOT RIGHT-OF-WAY; CONTRACTOR SHALL COORDINATE WITH CLAY COUNTY ENGINEERING AND PUBLIC WORKS DEPARTMENT.
4. NO LANE CLOSURES ARE PERMITTED.
5. POSTED SPEED LIMIT ON STATE ROADS 16 AND 21 IS 60 MPH.

UTILITY OWNERS & CONTACTS

- 1. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY EXCAVATION INVOLVING ITS UTILITIES SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT. THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION.

Table with 4 columns: UTILITY COMPANY, TYPE, CONTACT, PHONE NO. Includes entries for Florida Power & Light, AT&T, Clay County Utility Authority, Clay Electric, Comcast, Florida Gas Transmission, MCI, Opticatel, and Vero Fiber Networks.

- 2. THE CONTRACTOR SHALL USE THE SERVICES OF SUNSHINE-ONE CALL UTILITY LOCATOR A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF WORK. (SUNSHINE-ONE CALL 1 (800) 423-4770 / 811)
3. CONTRACTOR IS ALERTED THAT PROJECT AREA PARALLELS AND CROSSES UNDER OVERHEAD TRANSMISSION AND DISTRIBUTION POWER LINES OWNED BY CLAY ELECTRIC (STATE ROAD 21) AND FLORIDA POWER AND LIGHT (STATE ROAD 16). POWER TRANSMISSION LINES ARE 230 KILOVOLT AND DISTRIBUTION LINES ARE 23 - 25 KILOVOLT. CONTRACTOR SHALL ADHERE TO ALL NATIONAL ELECTRIC SAFETY CODE REQUIREMENTS.

SURVEYOR'S NOTES

- 1. HORIZONTAL COORDINATES ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE 0901, NORTH AMERICAN DATUM OF 83/1990. HORIZONTAL CONTROL WAS BASED ON THE FLORIDA DEPARTMENT OF TRANSPORTATION PERMANENT REFERENCE NETWORK (FPRN)
2. VERTICAL DATUM BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD88). VERTICAL CONTROL WAS BASED AND VERIFIED BY THE FOLLOWING NATIONAL GEODETIC SURVEY (NGS) CONTROL POINTS.

DESIGNATION: 0621
STATION NAME: DI8481
NORTHING: 2,053,457 (US FEET)
EASTING: 386,258 (US FEET)
LONGITUDE: W081°51'09"
LATITUDE: N29°58'46"
ELEVATION: 24.23 (US FEET)

THE MARK IS A ROUND CONCRETE MONUMENT FLUSH WITH THE GROUND AND 1.6 FT BELOW THE LEVEL OF STATE ROAD 16, 259.8 EAST OF THE EAST END OF A CONCRETE HEADWALL, 57.6 FT SOUTH OF THE APPROXIMATE CENTERLINE OF STATE ROAD 16, 1.2 FT NORTH OF AN 18-INCH POWER POLE AND 1.2 FT NORTH OF A CARSONITE WITNESS POST.

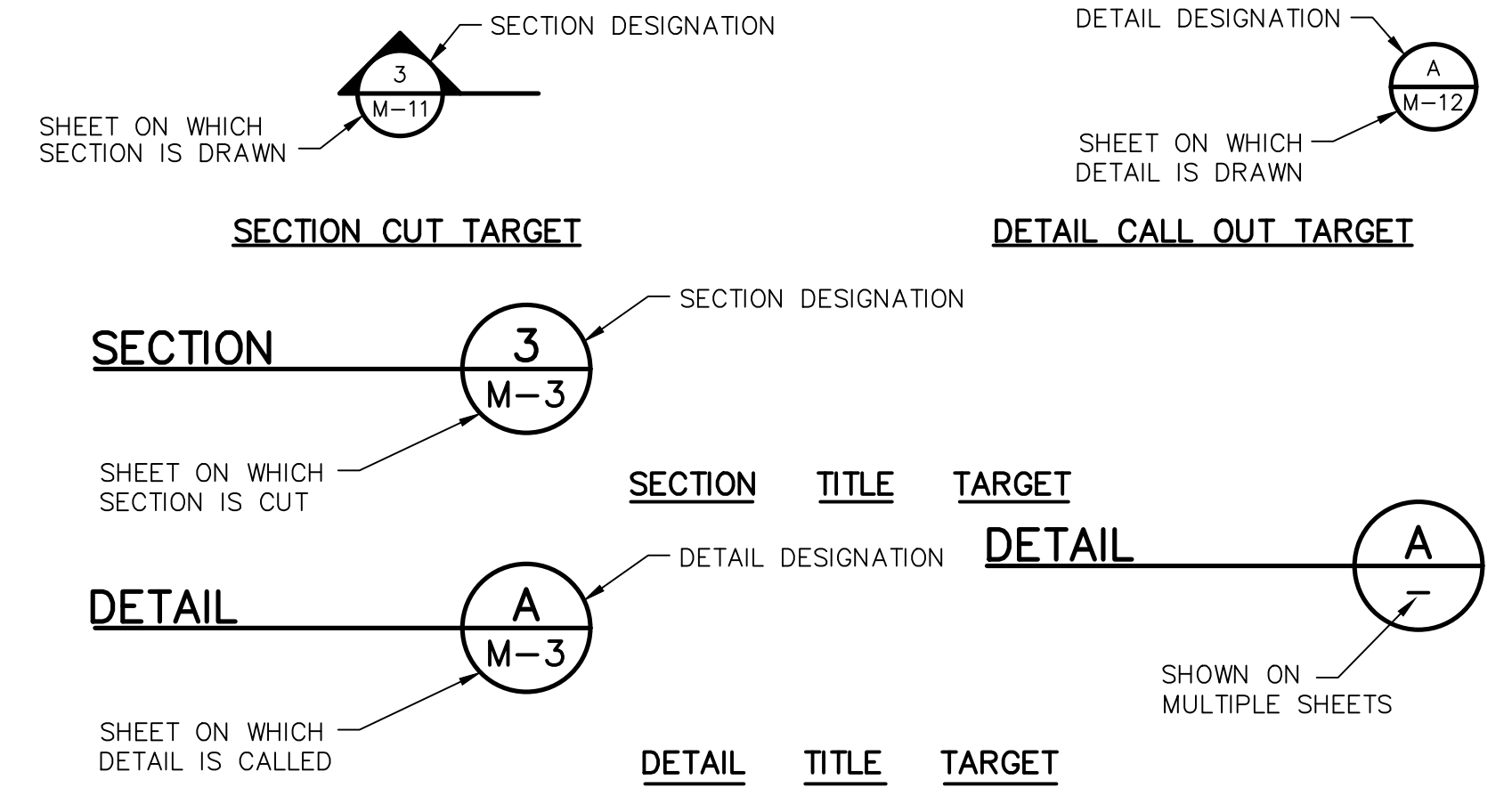
DESIGNATION: W441
STATION NAME: AC9702
NORTHING: 2,052,916 (US FEET)
EASTING: 377,635 (US FEET)
LONGITUDE: W081°52'47"
LATITUDE: N29°58'40"
ELEVATION: 94.06 (US FEET)

- 3. THIS SURVEY EXCEEDS THE ACCURACY REQUIREMENTS FOR SUBURBAN PROPERTY.
4. ALL MEASUREMENTS SHOWN HEREON ARE REFERENCED TO THE US STANDARD SURVEY FOOT.
5. THIS SPECIFIC PURPOSE SURVEY WAS PREPARED IN ORDER TO ILLUSTRATE TOPOGRAPHIC DATA SHOWING ROAD STRIPING, EDGE OF PAVEMENTS, RIGHT OF WAY LIMITS BASED ON HISTORICAL MAPS AND DATA IN ADDITION TO DEPICTING WETLAND AREAS LOCATED BY THIS SURVEYOR AND DESIGNATED BY OTHERS.
6. UNDERGROUND UTILITIES WERE NOT LOCATED BY THIS SURVEYOR AND ARE NOT PART OF THIS SURVEY.
7. SURVEY DATE: ALL SURVEY FIELD DATA COLLECTION WAS COMPLETED BEFORE 01/16/2018.

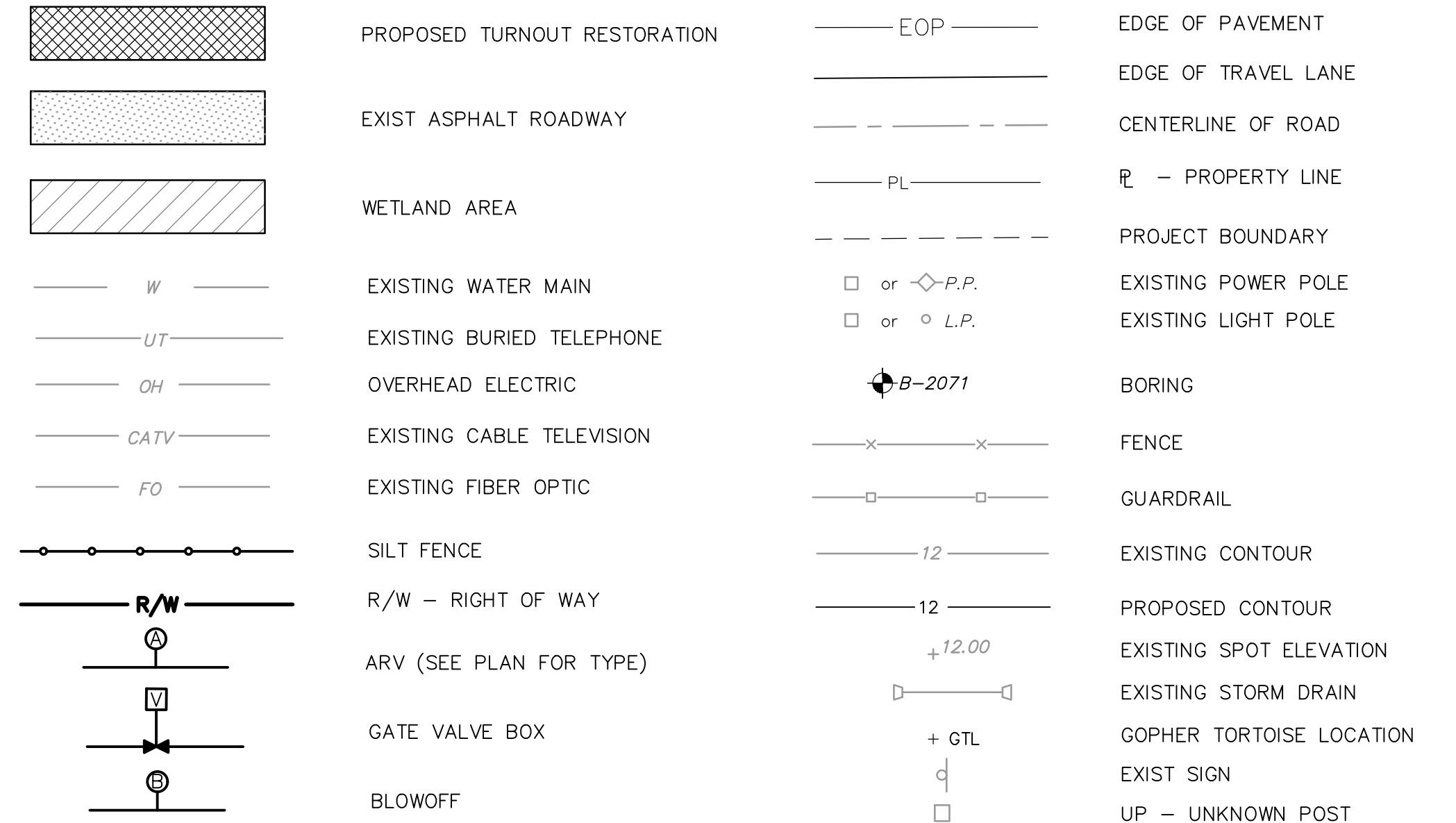
EROSION CONTROL

- 1. EROSION CONTROL AND SEDIMENTATION CONTROL DEVICES SHALL BE IN PLACE PRIOR TO BEGINNING ANY DEMOLITION OR CONSTRUCTION. THEY SHALL BE INSTALLED TO THE LIMITS SHOWN IN THE DRAWING, AS REQUIRED IN THE SPECIFICATIONS AND IN ACCORDANCE WITH ALL REGULATORY AGENCY REQUIREMENTS.
2. IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE PLANS AND PER FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (JANUARY 2018 EDITION). IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION CONTROLS SHOWN ON THE PLANS AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS.

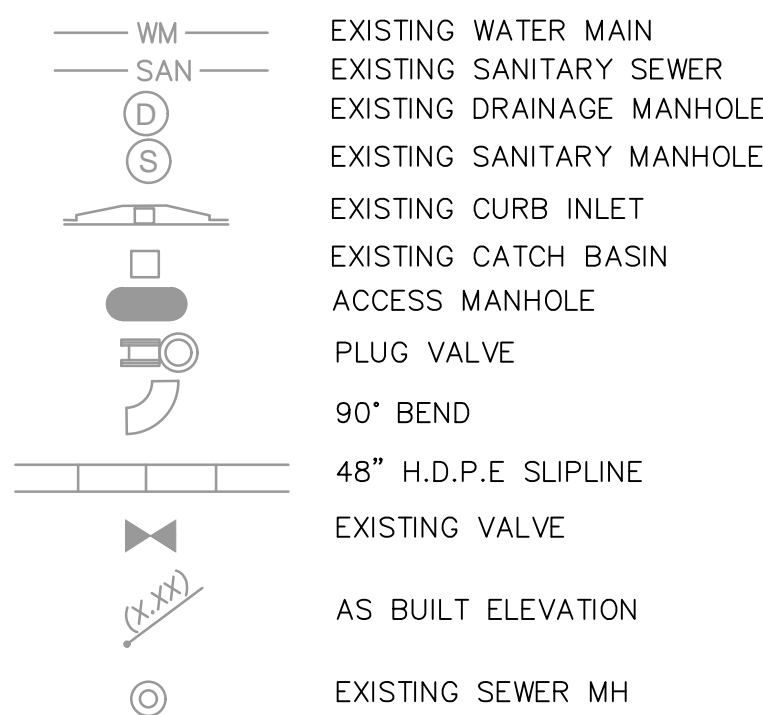
SECTION AND DETAIL NUMBERING SYSTEM



LEGEND



SURVEYOR'S LEGEND



Images: [CDMS_2234]
Last saved by: AUSTJD Time: 5/13/2022 12:13:59 PM
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Table with 5 columns: REV. NO., DATE, DRWN, CHKD, REMARKS. Contains revision records for the drawing.

Table with 2 columns: Field name, Value. Includes fields for DESIGNED BY (C. TAPPAN), DRAWN BY (D. AUST), SHEET CHK'D BY (G. CASHON), CROSS CHK'D BY (C. TAPPAN), APPROVED BY, and DATE (JUNE 2022).



ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, LOWER ST. JOHNS RIVER BASIN, BLACK CREEK WATER RESOURCE DEVELOPMENT PROJECT, 30" RAW WATER TRANSMISSION MAIN

GENERAL NOTES, SURVEYOR'S NOTES AND LEGEND

DATE: CLAY M TAPPAN PE NO. 42772

PROJECT NO. 9247-221208 FILE NAME: G002NFX.DWG SHEET NO.

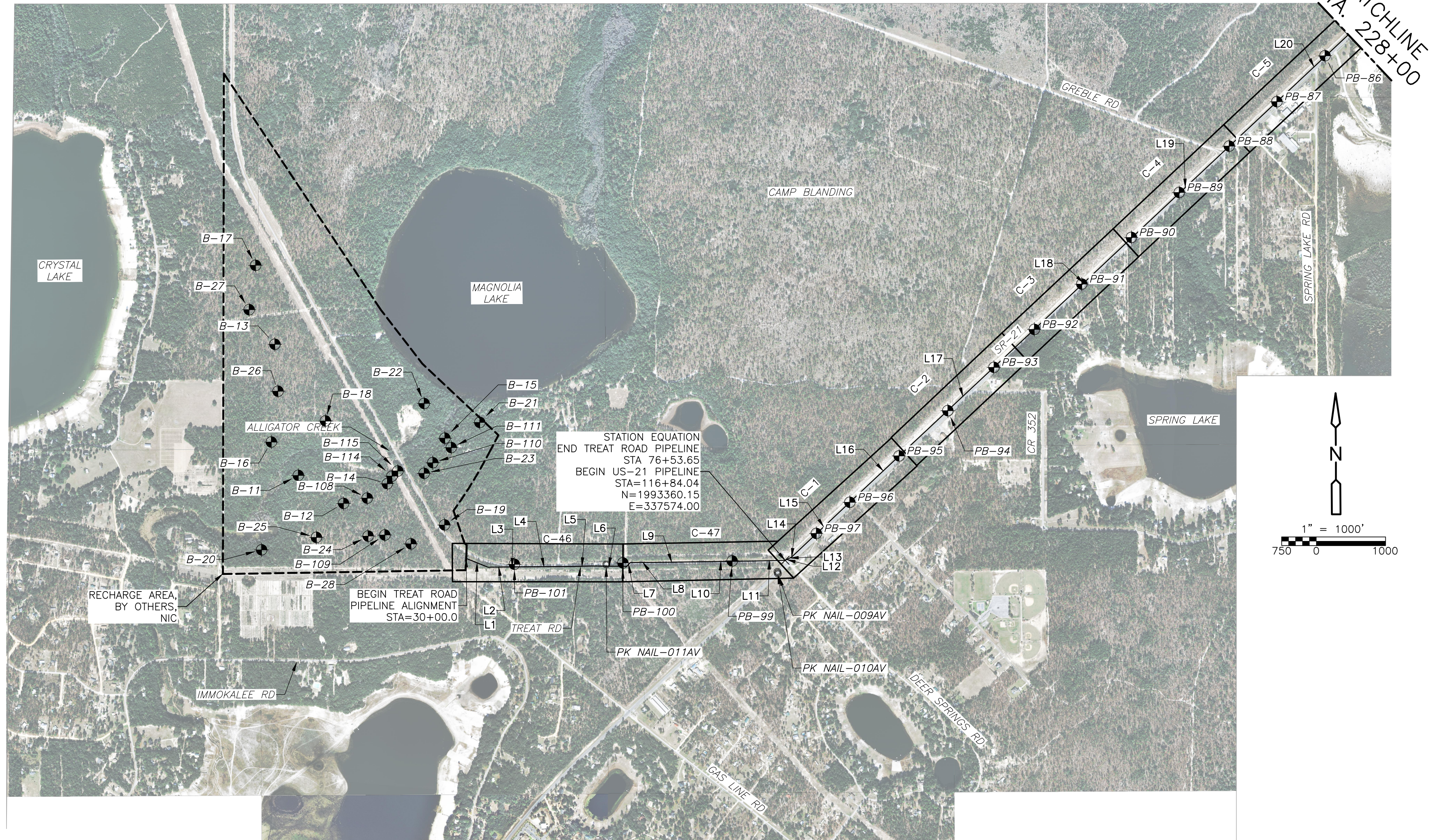
G-2

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SOIL BORING TABLE			
POINT NO.	ELEVATION	NORTHING	EASTING
B-11	140.14	1994621.42	330550.76
B-12	155.62	1994214.36	331202.48
B-13	176.73	1996516.72	330221.61
B-14	152.68	1994496.00	331834.93
B-15	130.69	1995148.94	332669.62
B-16	159.75	1995105.66	330163.67
B-17	180.68	1997658.83	329949.30
B-18	153.81	1995406.10	330945.76
B-19	155.42	1993895.75	332659.22
B-20	131.89	1993549.87	330014.96
B-21	134.75	1995373.37	333175.09
B-22	140.43	1995651.57	332372.43
B-23	139.47	1994642.28	332367.88
B-24	172.19	1993739.87	331554.01
B-25	164.62	1993724.87	330807.70
B-26	171.85	1995839.00	330263.31
B-27	183.57	1997018.89	329853.46
B-28	154.38	1993625.13	332172.96
B-108	157.04	1994288.96	331543.66
B-109	160.41	1993754.67	331796.55
B-110	139.34	1994794.77	332493.20
B-111	142.46	1995012.24	332761.67
B-114	151.20	1994605.13	331902.80
B-115	147.16	1994678.64	331988.10
PB-86	172.56	2000606.08	345405.82
PB-87	176.59	1999947.34	344708.95
PB-88	175.17	1999308.50	344016.39
PB-89	169.23	1998643.15	343290.34
PB-90	168.04	1997997.18	342597.28
PB-91	169.94	1997327.11	341877.51
PB-92	163.42	1996675.99	341188.75
PB-93	167.17	1996131.24	340602.73
PB-94	166.46	1995509.05	339933.80
PB-95	155.76	1994859.28	339226.67
PB-96	154.97	1994193.08	338511.59
PB-97	154.38	1993745.67	338026.74
PB-99	158.37	1993355.70	336808.96
PB-100	145.63	1993335.01	335231.19
PB-101	158.02	1993323.05	333664.31

NOTE:

- REFER TO GEOTECHNICAL REPORT BY CDM SMITH DATED MARCH 2018 FOR ADDITIONAL INFORMATION RELATED TO SOIL BORINGS AND GEOTECHNICAL RECOMMENDATIONS.



PROJECT BENCH MARKS				
009AV	1993168.24	337467.71	156.04	Target
010AV	1993195.09	337462.16	156.05	Target
011AV	1993313.29	334989.88	146.55	Target

ALIGNMENT LINE DATA						
LINE #	BEARING	DISTANCE	START STATION	END STATION	START POINT	END POINT
L1	S67° 54' 14.76"E	339.50	30+00.00	33+39.50	N=1993410.93 E=332968.42	N=1993283.23 E=333282.99
L2	N89° 34' 47.92"E	310.52	33+39.50	36+50.02	N=1993283.23 E=333282.99	N=1993285.50 E=333593.49
L3	S89° 58' 57.65"E	78.25	36+50.02	37+28.26	N=1993285.50 E=333593.49	N=1993285.48 E=333671.74
L4	N89° 52' 19.14"E	836.23	37+28.26	45+64.49	N=1993285.48 E=333671.74	N=1993287.35 E=334507.97
L5	N88° 57' 33.75"E	263.83	45+64.49	48+28.33	N=1993287.35 E=334507.97	N=1993292.14 E=334771.76
L6	S89° 12' 01.09"E	514.92	48+28.33	53+43.24	N=1993292.14 E=334771.76	N=1993284.95 E=335286.63
L7	N44° 32' 03.00"E	76.66	53+43.24	54+19.90	N=1993284.95 E=335286.63	N=1993339.60 E=335340.39
L8	S89° 55' 31.99"E	358.95	54+19.90	57+78.85	N=1993339.60 E=335340.39	N=1993339.13 E=335699.34
L9	N89° 25' 03.48"E	472.15	57+78.85	62+51.00	N=1993339.13 E=335699.34	N=1993343.93 E=336171.46
L10	N89° 31' 10.94"E	948.47	62+51.00	71+99.47	N=1993343.93 E=336171.46	N=1993351.88 E=337119.90
L11	N88° 57' 22.47"E	454.18	71+99.47	76+53.65	N=1993351.88 E=337119.90	N=1993360.15 E=337574.00

ALIGNMENT LINE DATA						
LINE #	BEARING	DISTANCE	START STATION	END STATION	START POINT	END POINT
L12	N64° 09' 16.87"E	51.13	116+84.04	117+35.17	N=1993360.15 E=337574.00	N=1993382.44 E=337620.02
L13	N63° 59' 15.18"E	49.04	117+35.17	117+84.21	N=1993382.44 E=337620.02	N=1993403.95 E=337664.09
L14	N47° 02' 29.04"E	15.79	117+84.21	118+00.00	N=1993403.95 E=337664.09	N=1993414.71 E=337675.64
L15	N47° 02' 29.04"E	1251.82	118+00.00	130+51.82	N=1993414.71 E=337675.64	N=1994267.78 E=338591.78
L16	N47° 06' 39.68"E	1106.47	130+51.82	141+58.28	N=1994267.78 E=338591.78	N=1995020.82 E=339402.46
L17	N47° 10' 41.79"E	2043.72	141+58.28	162+02.01	N=1995020.82 E=339402.46	N=1996409.98 E=340901.47
L18	N47° 04' 50.57"E	2739.75	162+02.01	189+41.75	N=1996409.98 E=340901.47	N=1998275.66 E=342907.83
L19	N47° 04' 06.19"E	1288.70	189+41.75	202+30.45	N=1998275.66 E=342907.83	N=1999153.42 E=343851.37
L20	N47° 08' 52.19"E	3806.21	202+30.45	240+36.66	N=1999153.42 E=343851.37	N=2001742.06 E=346641.74

DESIGNED BY: C. TAPPAN	APPROVED BY: _____
DRAWN BY: D. AUST	DATE: JUNE 2022
SHEET CHK'D BY: G. CASHON	
CROSS CHK'D BY: C. TAPPAN	

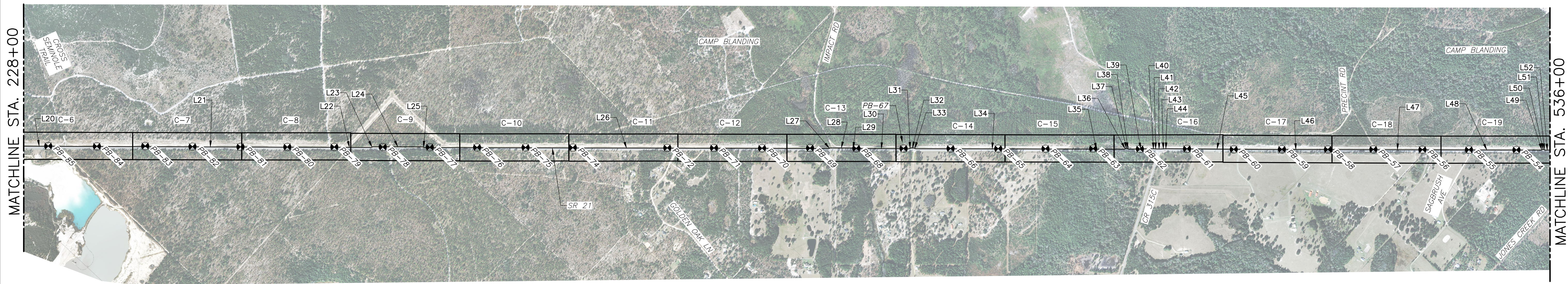
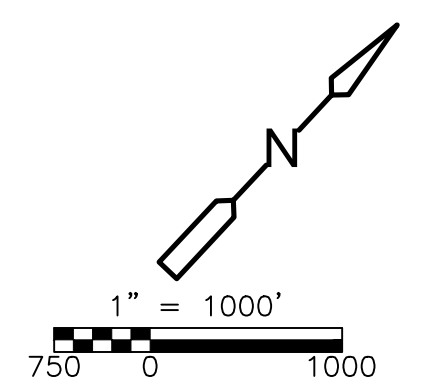


**ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN**

**KEY MAP, HORIZONTAL CONTROL
 AND SOIL BORING TABLE I**

DATE: CLAY M TAPPAN PE NO. 42772
PROJECT NO. 9247-221208 FILE NAME: G003NFKM.DWG
SHEET NO. G-3

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ALIGNMENT LINE DATA					
LINE #	BEARING	DISTANCE	START STATION	END STATION	END POINT
L20	N47° 08' 52.19"E	3806.21	202+30.45	240+36.66	N=1999153.42 E=343851.37
L21	N47° 06' 58.06"E	4915.94	240+36.66	289+52.60	N=2001742.06 E=346641.74
L22	N47° 03' 31.97"E	868.50	289+52.60	298+21.09	N=2005087.43 E=350243.82
L23	N24° 33' 31.97"E	42.53	298+21.09	298+63.62	N=2005679.09 E=350879.61
L24	N47° 08' 56.71"E	1002.71	298+63.62	308+66.33	N=2005717.77 E=350897.28
L25	N69° 33' 02.76"E	38.27	308+66.33	309+04.61	N=2006399.70 E=351632.39
L26	N47° 03' 02.76"E	8155.33	309+04.61	390+59.94	N=2006413.08 E=351668.26
L27	N24° 33' 29.80"E	34.28	390+59.94	390+94.22	N=2011969.71 E=357637.62
L28	N47° 14' 35.43"E	449.47	390+94.22	395+43.69	N=2012000.89 E=357651.86
L29	N69° 33' 29.80"E	28.28	395+43.69	395+71.97	N=2012306.03 E=357981.88
L30	N47° 05' 20.05"E	1116.04	395+71.97	406+88.01	N=2012315.91 E=358008.38
L31	N24° 33' 29.80"E	42.88	406+88.01	407+30.89	N=2013075.78 E=358825.78
L32	N47° 03' 29.80"E	56.14	407+30.89	407+87.03	N=2013114.78 E=358843.60
L33	N69° 33' 29.80"E	42.87	407+87.03	408+29.90	N=2013153.02 E=358884.70
L34	N47° 01' 33.87"E	3085.72	408+29.90	439+15.62	N=2013167.99 E=358924.87
L35	N47° 02' 07.77"E	1120.46	439+15.62	450+36.09	N=2015271.43 E=361182.59
L36	N23° 00' 56.11"E	40.80	450+36.09	450+76.89	N=2016035.07 E=362002.52

ALIGNMENT LINE DATA					
LINE #	BEARING	DISTANCE	START STATION	END STATION	END POINT
L37	N45° 30' 56.11"E	14.81	450+76.89	450+91.70	N=2016072.63 E=362018.47
L38	N68° 00' 56.11"E	47.49	450+91.70	451+39.18	N=2016083.00 E=362029.03
L39	N45° 50' 56.24"E	472.42	451+39.18	456+11.61	N=2016100.78 E=362073.07
L40	N47° 53' 55.07"E	39.97	456+11.61	456+51.58	N=2016429.85 E=362412.03
L41	N50° 05' 13.02"E	49.75	456+51.58	457+01.34	N=2016456.65 E=362441.69
L42	N47° 05' 13.02"E	88.61	457+01.34	457+89.94	N=2016488.57 E=362479.85
L43	N44° 05' 13.02"E	82.48	457+89.94	458+72.43	N=2016548.91 E=362544.75
L44	N45° 43' 24.27"E	19.99	458+72.43	458+92.42	N=2016608.15 E=362602.14
L45	N47° 21' 35.51"E	2042.74	458+92.42	479+35.16	N=2016622.11 E=362616.45
L46	N47° 03' 11.73"E	1138.11	479+35.16	490+73.27	N=2018005.84 E=364119.14
L47	N47° 01' 09.84"E	2961.64	490+73.27	520+34.91	N=2018781.26 E=364952.22
L48	N47° 02' 20.28"E	1414.25	520+34.91	534+49.17	N=2020800.36 E=367118.91
L49	N24° 32' 20.28"E	37.08	534+49.17	534+86.24	N=2021764.17 E=368153.89
L50	N47° 02' 20.28"E	19.03	534+86.24	535+05.27	N=2021797.90 E=368169.29
L51	N69° 32' 20.28"E	37.09	535+05.27	535+42.36	N=2021810.87 E=368183.21
L52	N47° 01' 09.16"E	1761.77	535+42.36	553+04.13	N=2021823.84 E=368217.96

SOIL BORING TABLE			
POINT NO.	ELEVATION	NORTHING	EASTING
PB-54	132.45	2021429.12	367790.82
PB-55	145.40	2020777.65	367087.66
PB-56	149.50	2020136.92	366401.77
PB-57	150.78	2019465.10	365675.44
PB-58	158.22	2018836.81	365006.75
PB-59	166.26	2018204.94	364326.67
PB-60	167.11	2017540.26	363617.88
PB-61	167.39	2016904.34	362920.10
PB-62	169.59	2016253.01	362229.72
PB-63	172.14	2015614.27	361535.27
PB-64	189.27	2014955.76	360834.91
PB-65	195.59	2014306.08	360136.96
PB-66	200.69	2013650.10	359432.61
PB-67	202.02	2013002.78	358739.68
PB-68	203.56	2012353.89	358041.61
PB-69	206.46	2011720.59	357356.55
PB-70	209.45	2011056.33	356651.69
PB-71	211.50	2010398.12	355940.07
PB-72	217.88	2009755.54	355250.58
PB-74	221.36	2008457.35	353854.58
PB-75	219.44	2007807.87	353157.42
PB-76	215.57	2007140.02	352440.93
PB-77	213.90	2006491.80	351742.44
PB-78	212.27	2005845.72	351047.12
PB-79	210.09	2005179.11	350332.33
PB-80	225.55	2004530.87	349639.41
PB-81	210.44	2003887.93	348948.40
PB-82	209.57	2003229.49	348238.09
PB-83	190.61	2002587.78	347533.30
PB-84	193.18	2001916.58	346824.18
PB-85	179.88	2001250.17	346104.65

NOTE:
 1. REFER TO GEOTECHNICAL REPORT BY CDM SMITH DATED MARCH 2018 FOR ADDITIONAL INFORMATION RELATED TO SOIL BORINGS AND GEOTECHNICAL RECOMMENDATIONS.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN
 DRAWN BY: D. AUST
 SHEET CHK'D BY: G. CASHON
 CROSS CHK'D BY: C. TAPPAN
 APPROVED BY: _____
 DATE: JUNE 2022

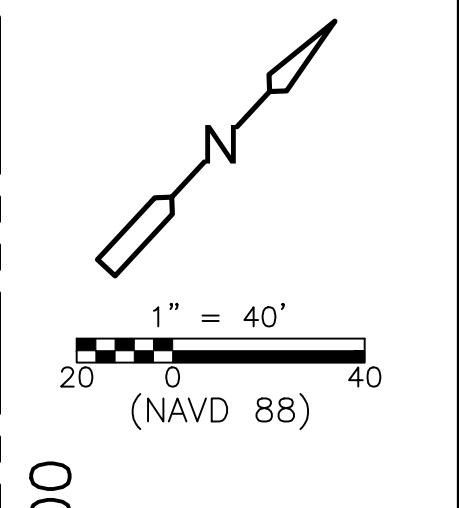
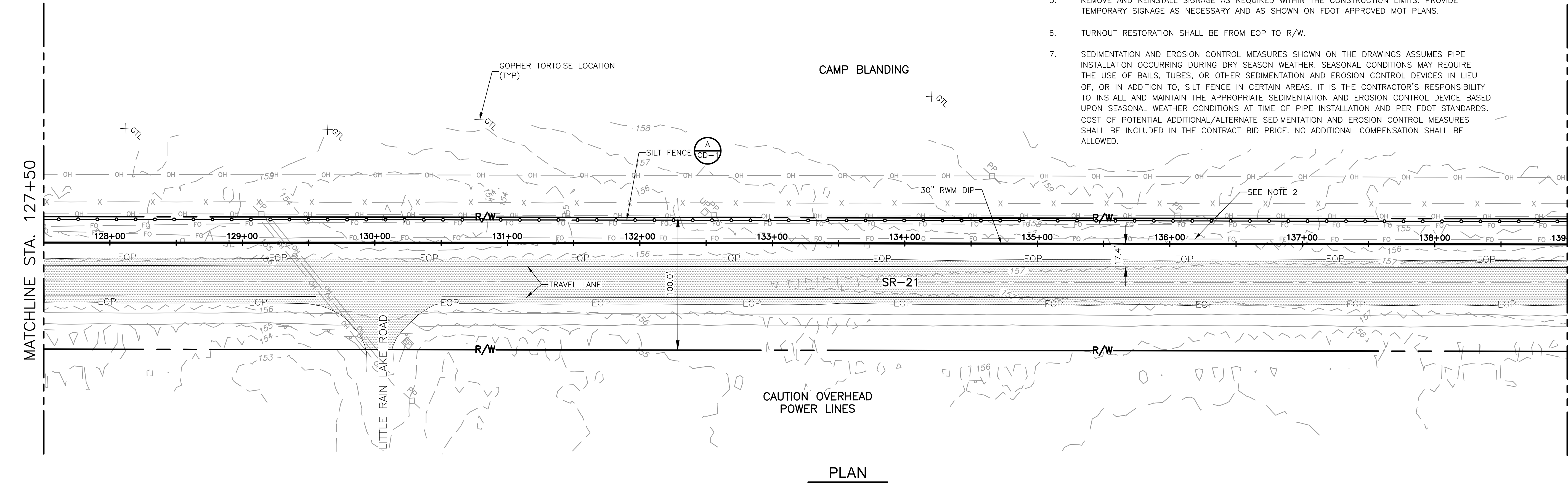
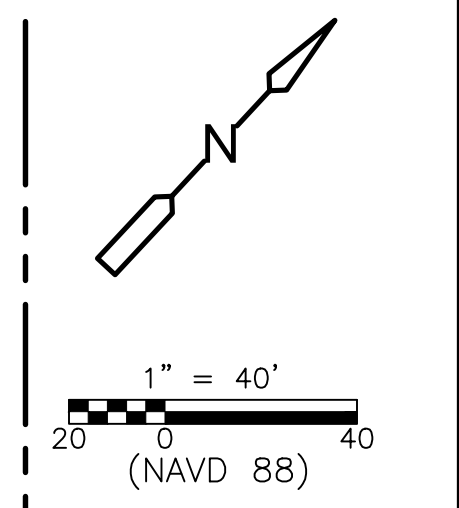
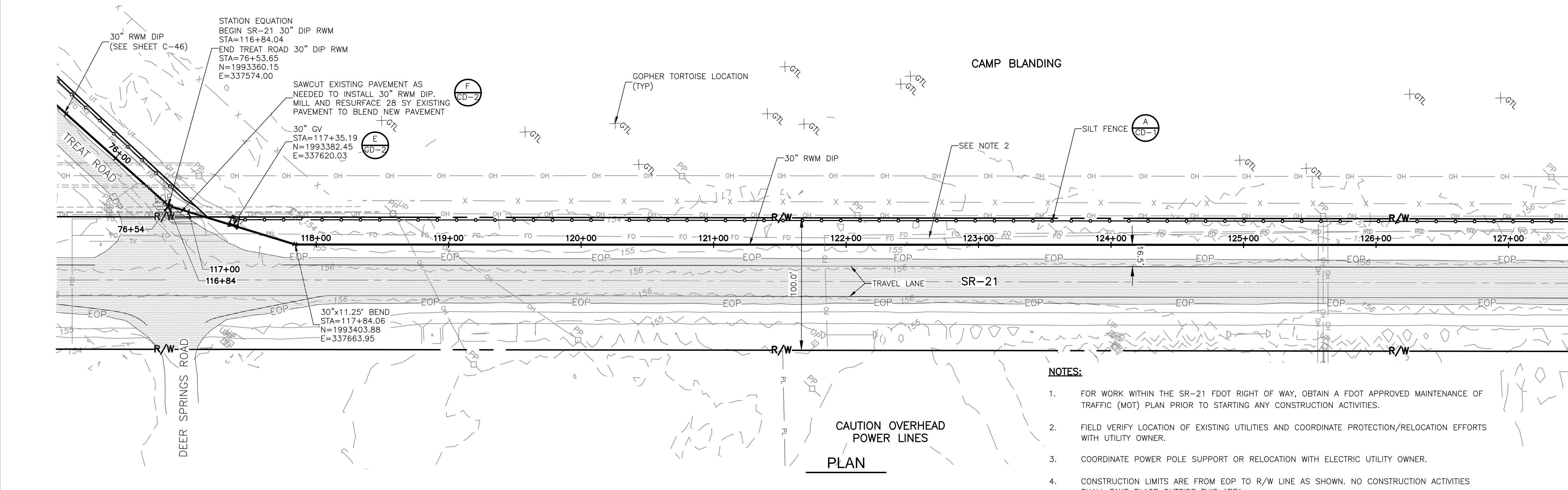
4651 Salisbury Road, Suite 420
 Jacksonville, FL 32256
 Tel: (904) 731-7109
 FL COA No. EB-000020

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

KEY MAP, HORIZONTAL CONTROL
 AND SOIL BORING TABLE II

DATE: CLAY M TAPPAN
 PE NO. 42772
 PROJECT NO. 9247-221208
 FILE NAME: G004NFKM.DWG
 SHEET NO. G-4
 ISSUED FOR BID

XREFS: [CDMS_2234, CEP001SS, CEP002SS, CEP004SS, CWP000ST, CEP000SS, CWP002ST] Images: []
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- NOTES:**
- FOR WORK WITHIN THE SR-21 FDOT RIGHT OF WAY, OBTAIN A FDOT APPROVED MAINTENANCE OF TRAFFIC (MOT) PLAN PRIOR TO STARTING ANY CONSTRUCTION ACTIVITIES.
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REV. NO.	DATE	DRWN	CHKD	REMARKS

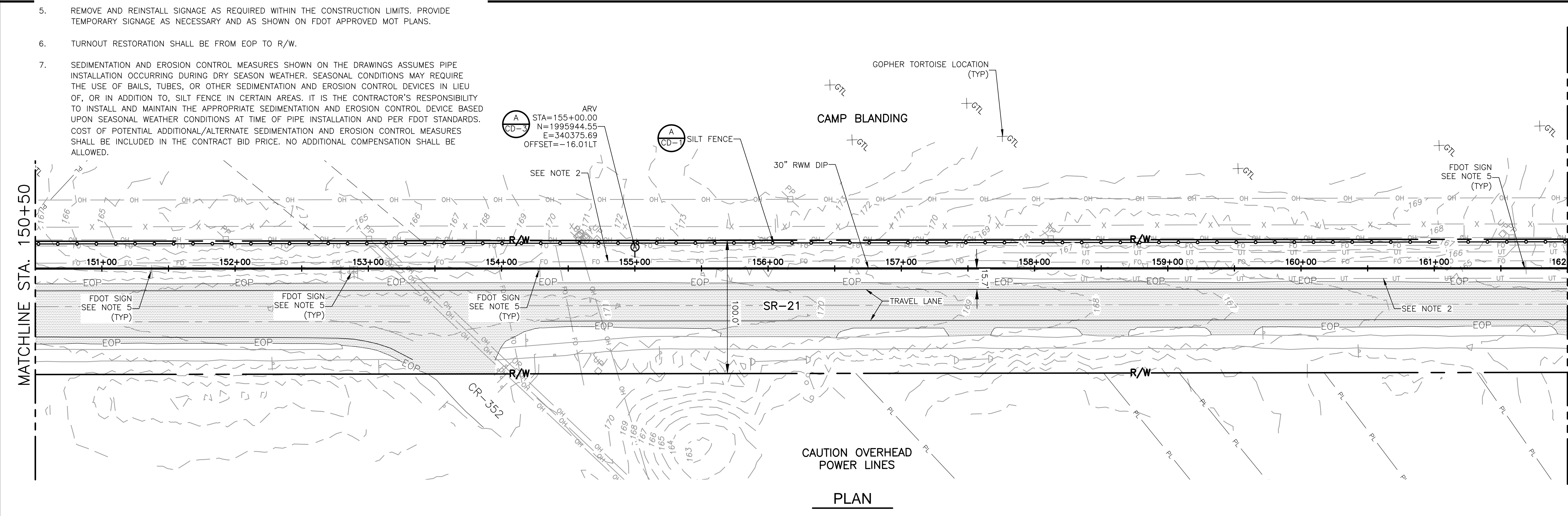
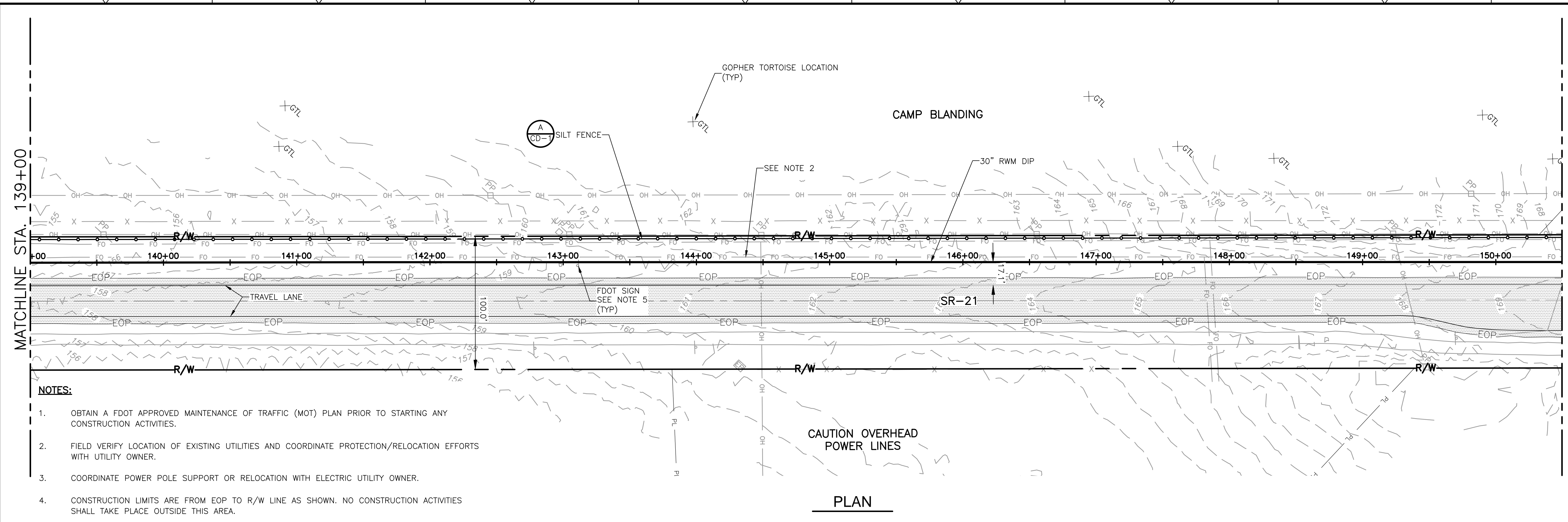
DESIGNED BY: C. TAPPAN	 4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-000020
DRAWN BY: D. AUST	
SHEET CHK'D BY: G. CASHON	
CROSS CHK'D BY: C. TAPPAN	
APPROVED BY: _____	
DATE: JUNE 2022	

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

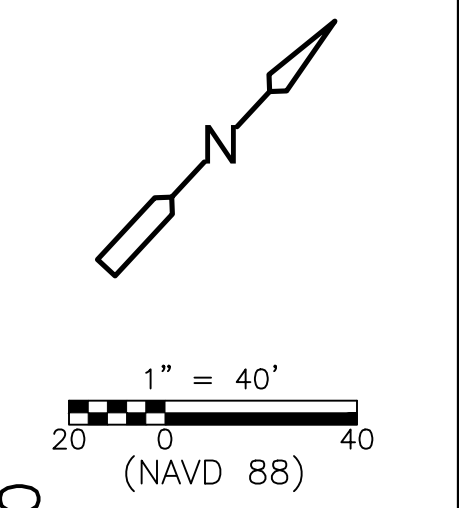
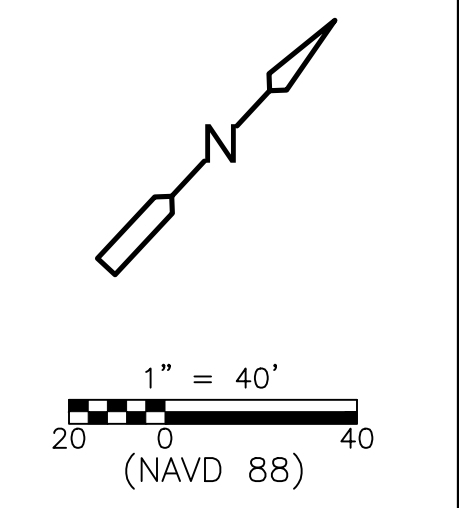
STATE ROAD 21
 STA 116+84.04 TO STA 139+00
 SHEET NO. C-1

DATE: CLAY M TAPPAN PE NO. 42772
PROJECT NO. 9247-221208
FILE NAME: C001STPL.DWG
SHEET NO. C-1

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN	<p>4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-0000020</p>
DRAWN BY: D. AUST	
SHEET CHK'D BY: G. CASHON	
CROSS CHK'D BY: C. TAPPAN	
APPROVED BY: _____	
DATE: JUNE 2022	

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

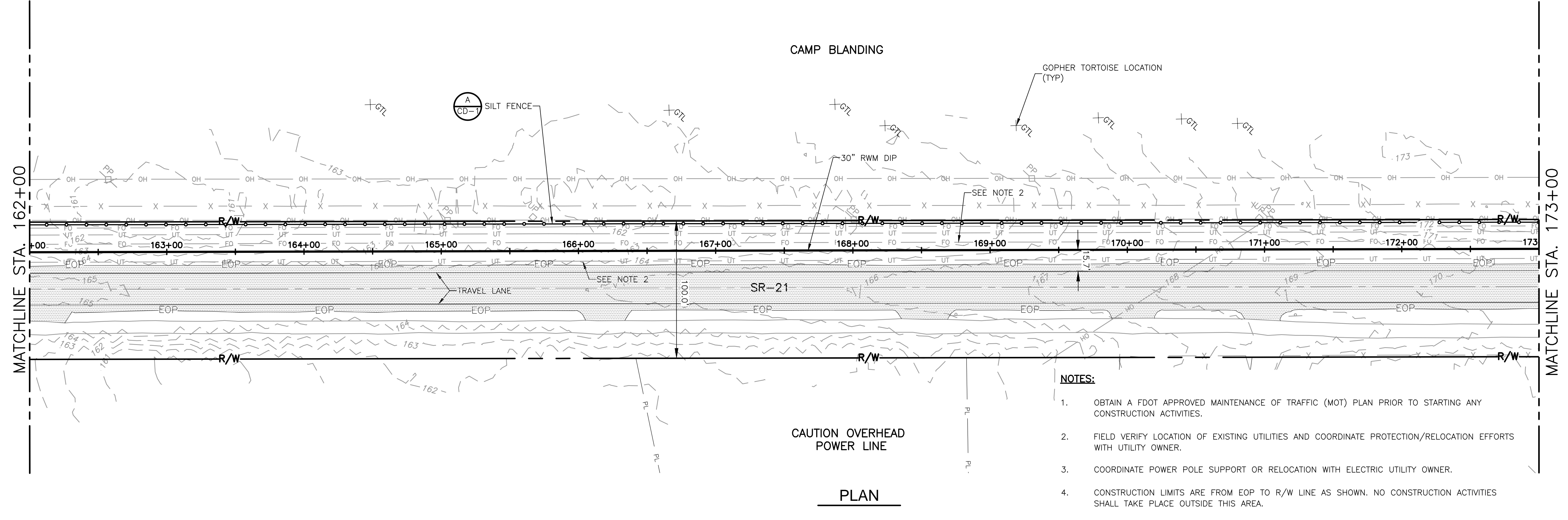
STATE ROAD 21
 STA 139+00 TO STA 162+00
 SHEET NO. C-2

DATE: CLAY M TAPPAN	PROJECT NO. 9247-221208
PE NO. 42772	FILE NAME: C002STPL.DWG
	SHEET NO. C-2

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MATCHLINE STA. 162+00

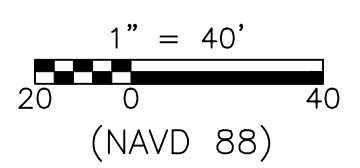
MATCHLINE STA. 173+00



PLAN

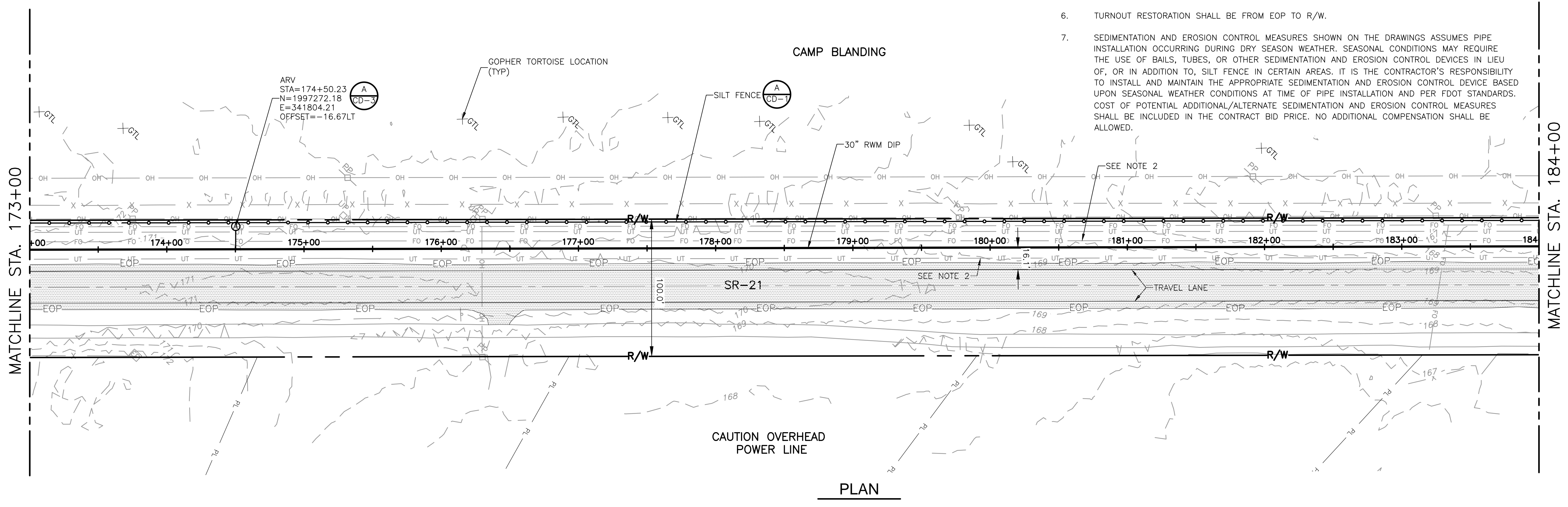
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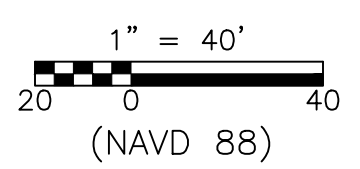


MATCHLINE STA. 173+00

MATCHLINE STA. 184+00



PLAN



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN
 DRAWN BY: D. AUST
 SHEET CHK'D BY: G. CASHON
 CROSS CHK'D BY: C. TAPPAN
 APPROVED BY: _____
 DATE: JUNE 2022



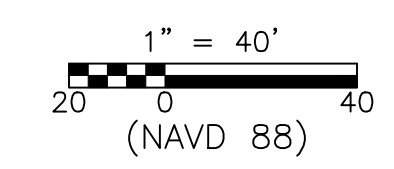
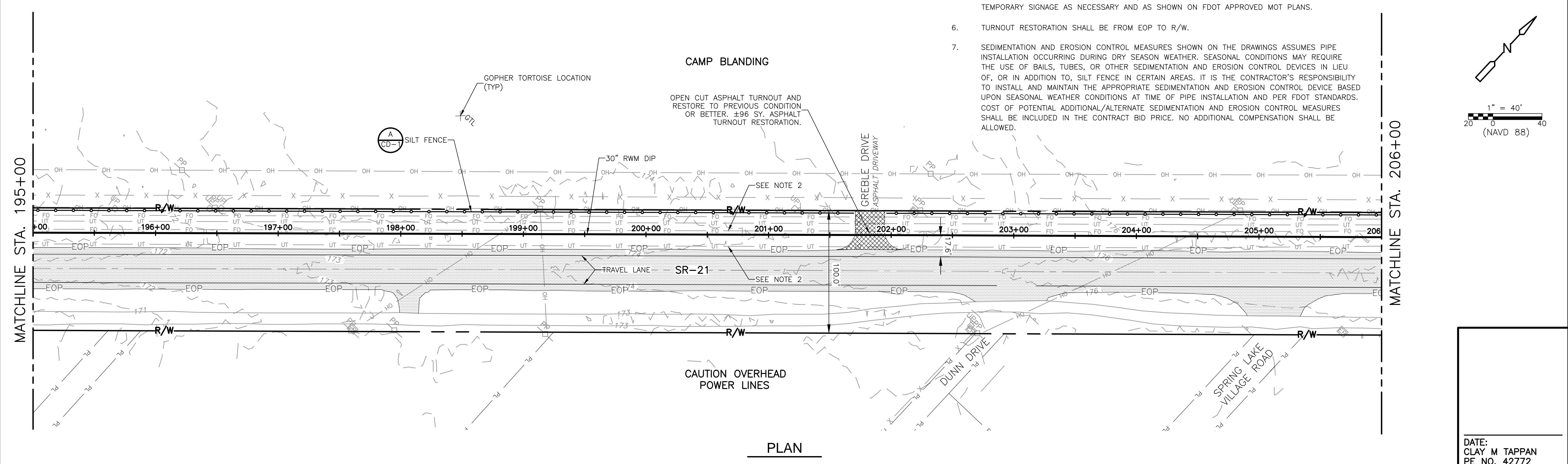
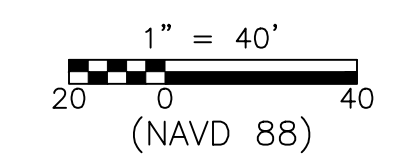
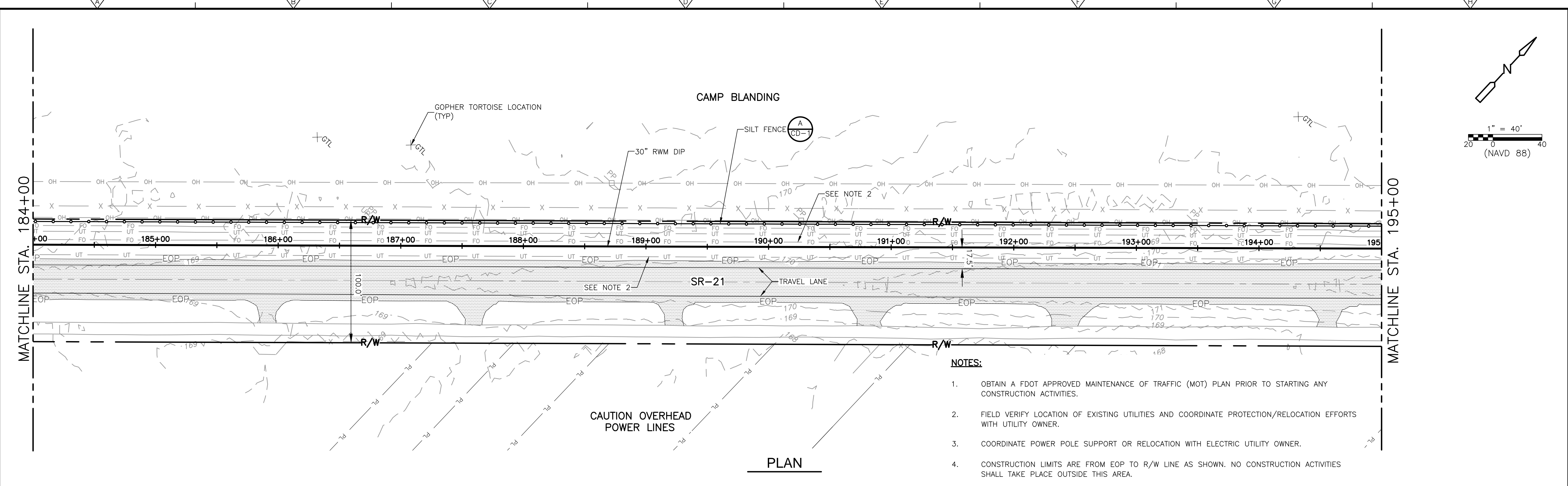
4651 Salisbury Road, Suite 420
 Jacksonville, FL 32256
 Tel: (904) 731-7109
 FL COA No. EB-0000020

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 21
 STA 162+00 TO STA 184+00

DATE: CLAY M TAPPAN
 PE NO. 42772
 PROJECT NO. 9247-221208
 FILE NAME: C003STPL.DWG
 SHEET NO. C-3

XREFS: [CDMS_2234, CEP001SS, CEP002SS, CEP004SS, CEP0000SS, CWP000ST] Images: []
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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN
 DRAWN BY: D. AUST
 SHEET CHK'D BY: G. CASHON
 CROSS CHK'D BY: C. TAPPAN
 APPROVED BY: _____
 DATE: JUNE 2022

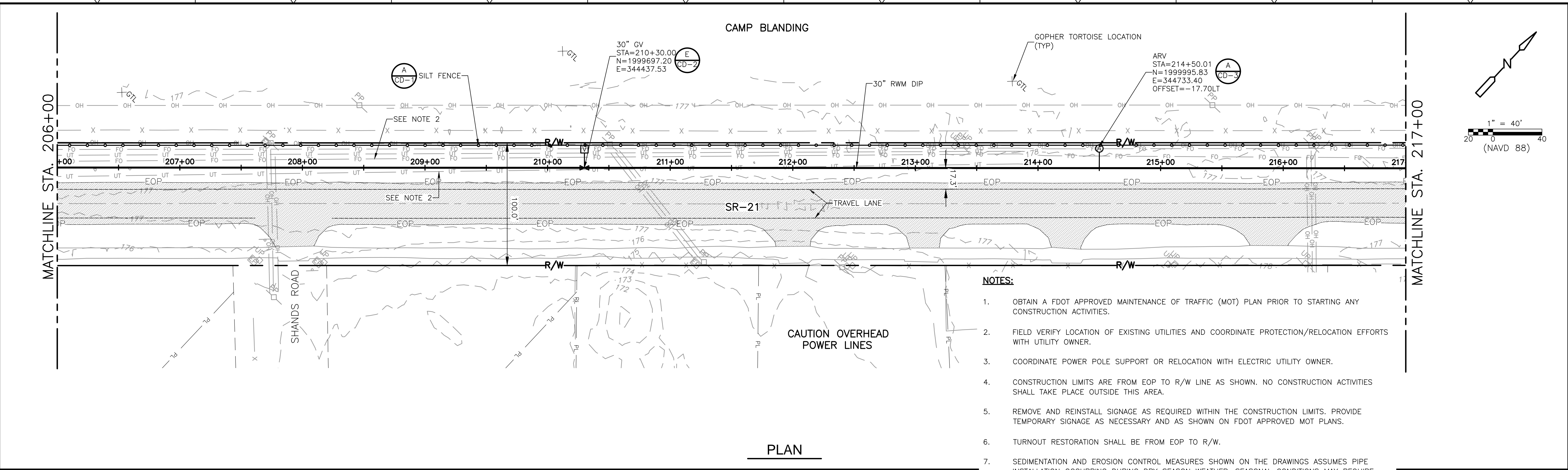


ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 21
 STA 184+00 TO STA 206+00

DATE: CLAY M TAPPAN
 PE NO. 42772
 PROJECT NO. 9247-221208
 FILE NAME: C004STPL.DWG
 SHEET NO. C-4

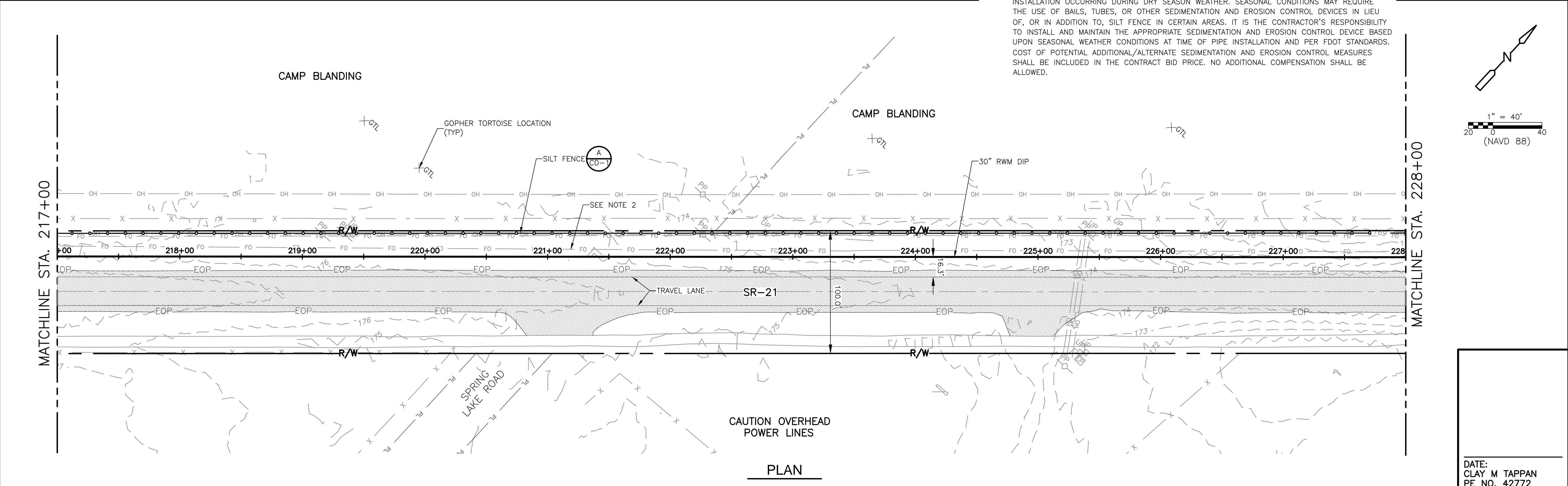
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PLAN

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PLAN

REV. NO.	DATE	DRWN	CHKD	REMARKS

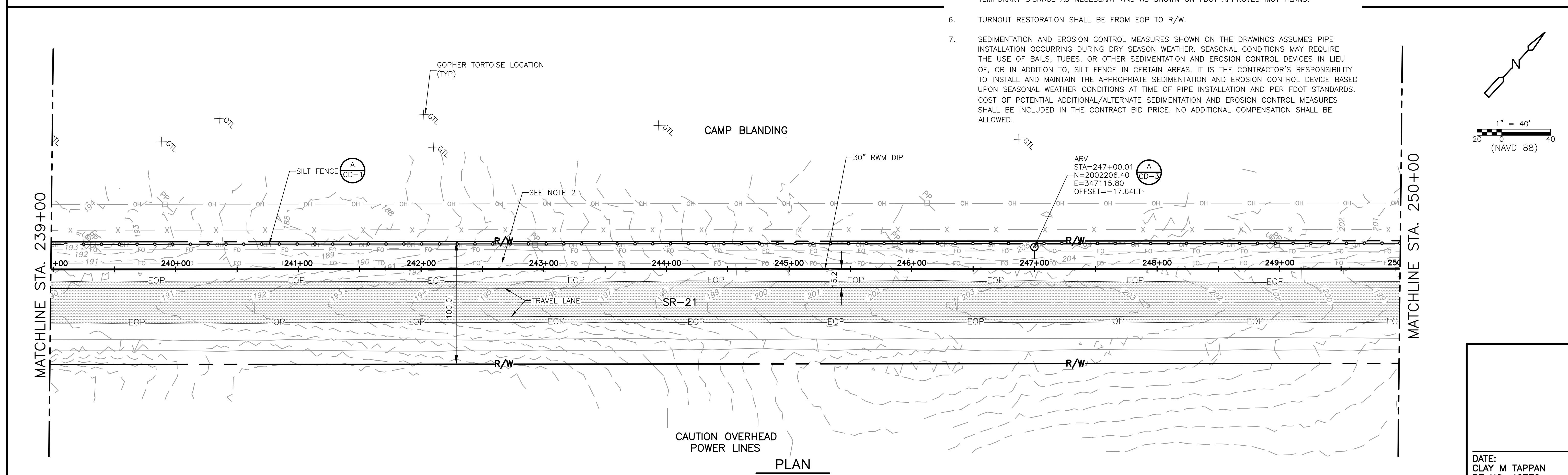
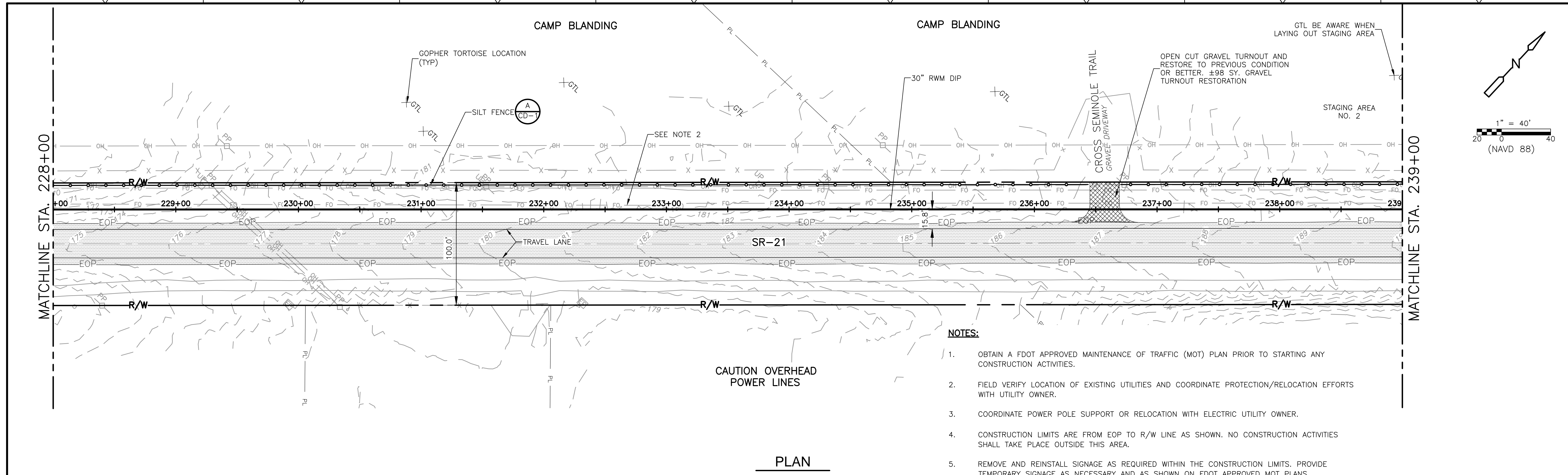
DESIGNED BY: C. TAPPAN	 4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-0000020
DRAWN BY: D. AUST	
SHEET CHK'D BY: G. CASHON	
CROSS CHK'D BY: C. TAPPAN	
APPROVED BY: _____	
DATE: JUNE 2022	

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 21
 STA 206+00 TO STA 228+00
 SHEET NO. C-5

DATE: CLAY M TAPPAN PE NO. 42772
PROJECT NO. 9247-221208 FILE NAME: C005STPL.DWG
SHEET NO. C-5

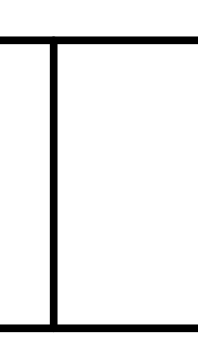
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DESIGNED BY: C. TAPPAN
 DRAWN BY: D. AUST
 SHEET CHK'D BY: G. CASHON
 CROSS CHK'D BY: C. TAPPAN
 APPROVED BY: _____
 DATE: JUNE 2022



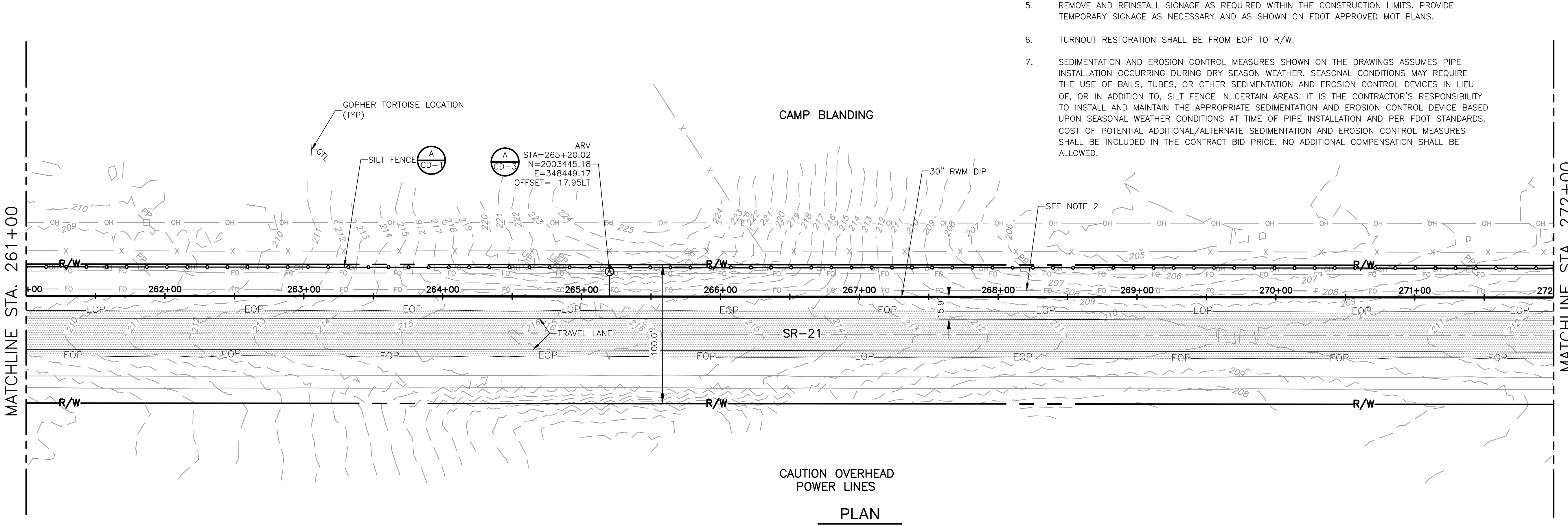
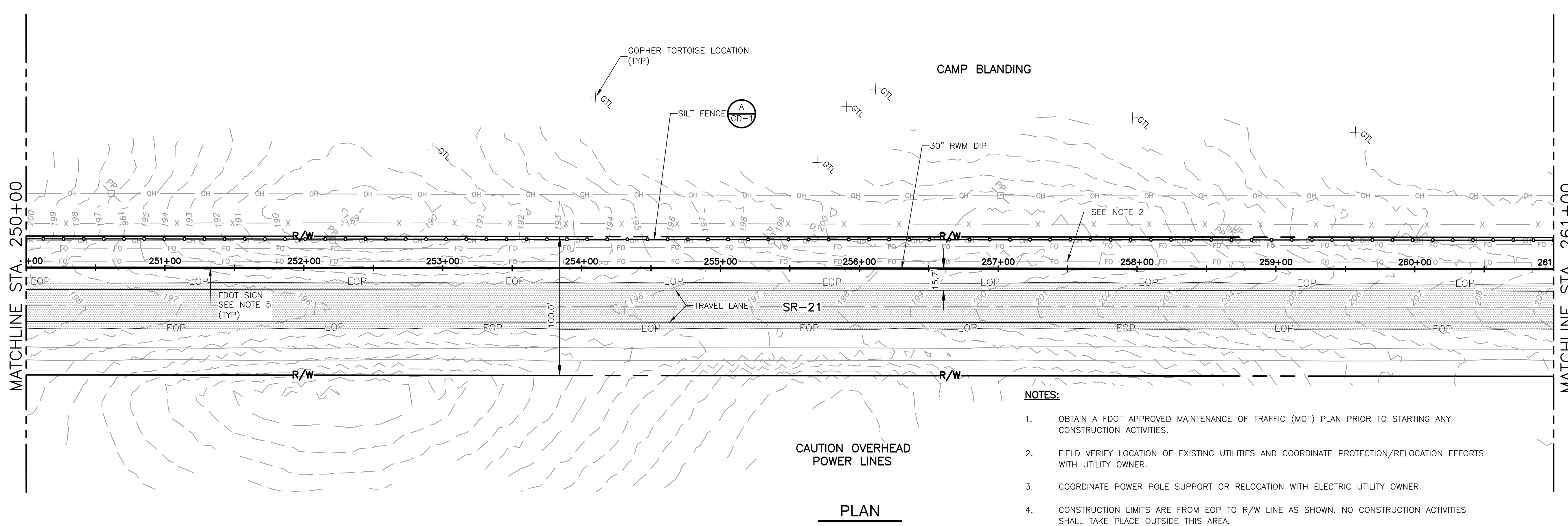
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 21
STA 228+00 TO STA 250+00

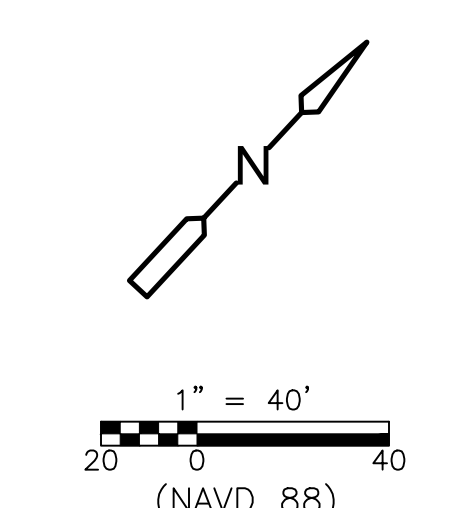
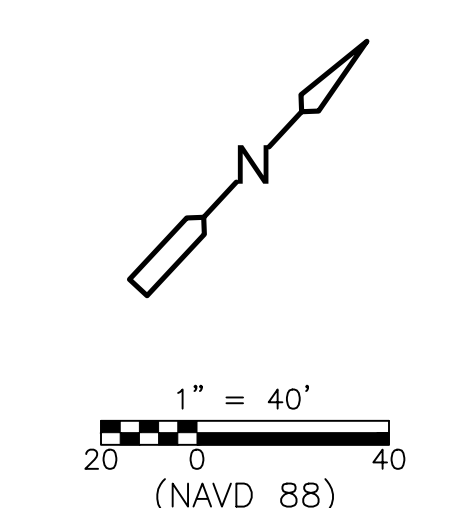
DATE: CLAY M TAPPAN
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PROJECT NO. 9247-221208
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DRAWN BY: D. AUST	
SHEET CHK'D BY: G. CASHON	
CROSS CHK'D BY: C. TAPPAN	
APPROVED BY: _____	
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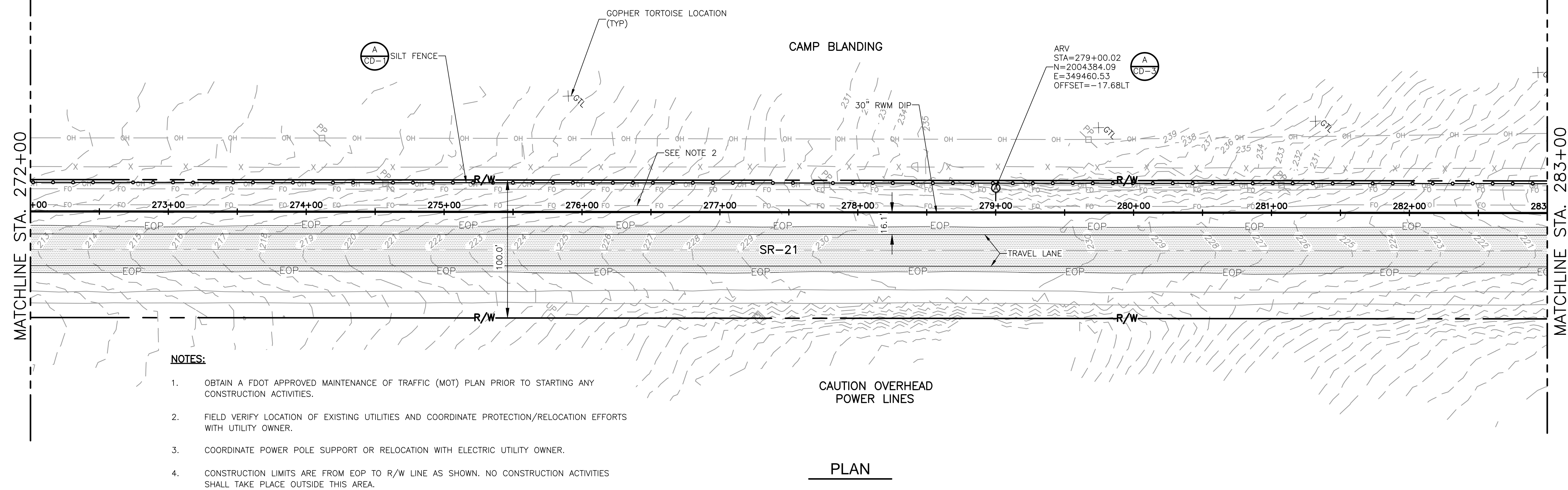
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 21
 STA 250+00 TO STA 272+00

SHEET NO.
C-7

DATE: CLAY M TAPPAN PE NO. 42772
PROJECT NO. 9247-221208 FILE NAME: C007STPL.DWG
SHEET NO. C-7

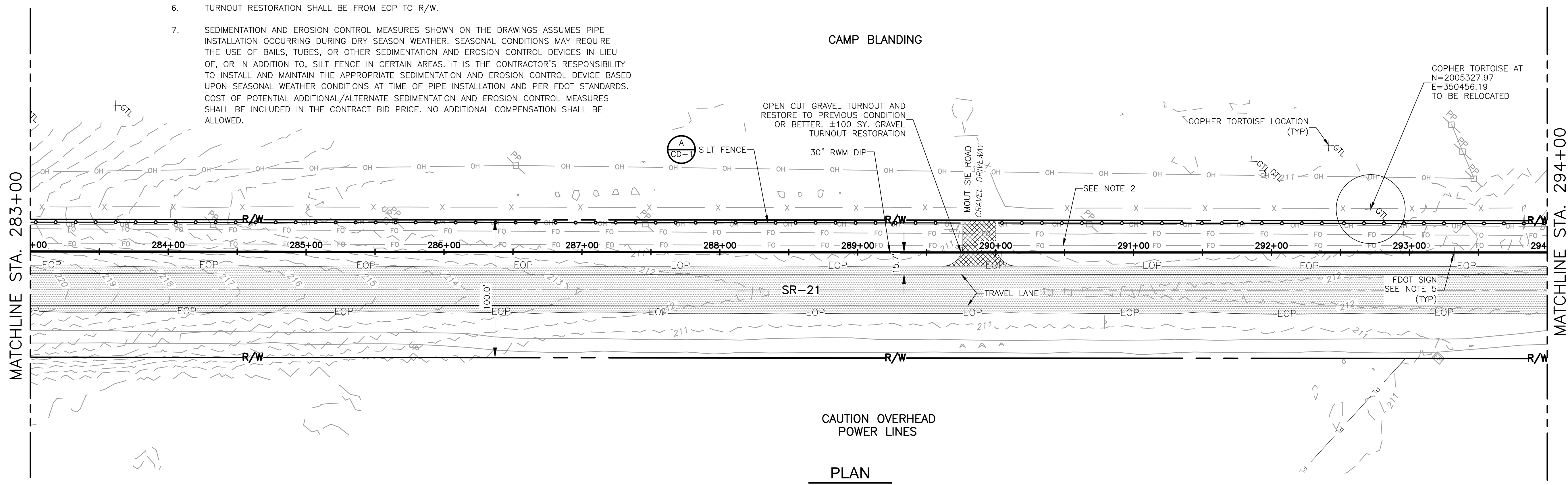
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NOTES:

1. OBTAIN A FDOT APPROVED MAINTENANCE OF TRAFFIC (MOT) PLAN PRIOR TO STARTING ANY CONSTRUCTION ACTIVITIES.
2. FIELD VERIFY LOCATION OF EXISTING UTILITIES AND COORDINATE PROTECTION/RELOCATION EFFORTS WITH UTILITY OWNER.
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PLAN



PLAN

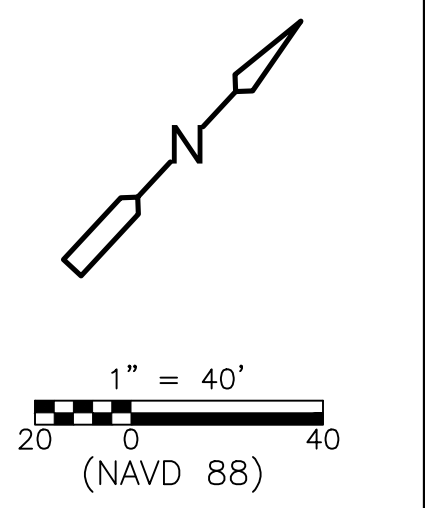
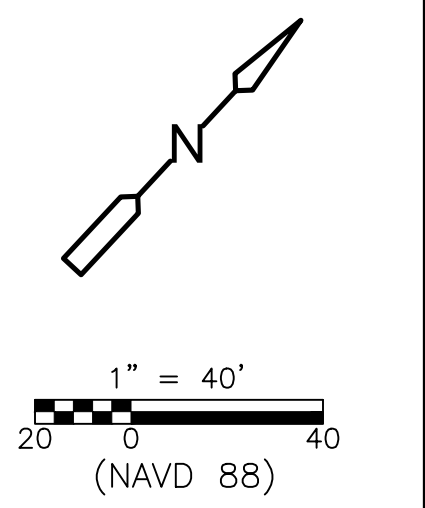
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN	 4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-0000020
DRAWN BY: D. AUST	
SHEET CHK'D BY: G. CASHON	
CROSS CHK'D BY: C. TAPPAN	
APPROVED BY: _____	
DATE: JUNE 2022	

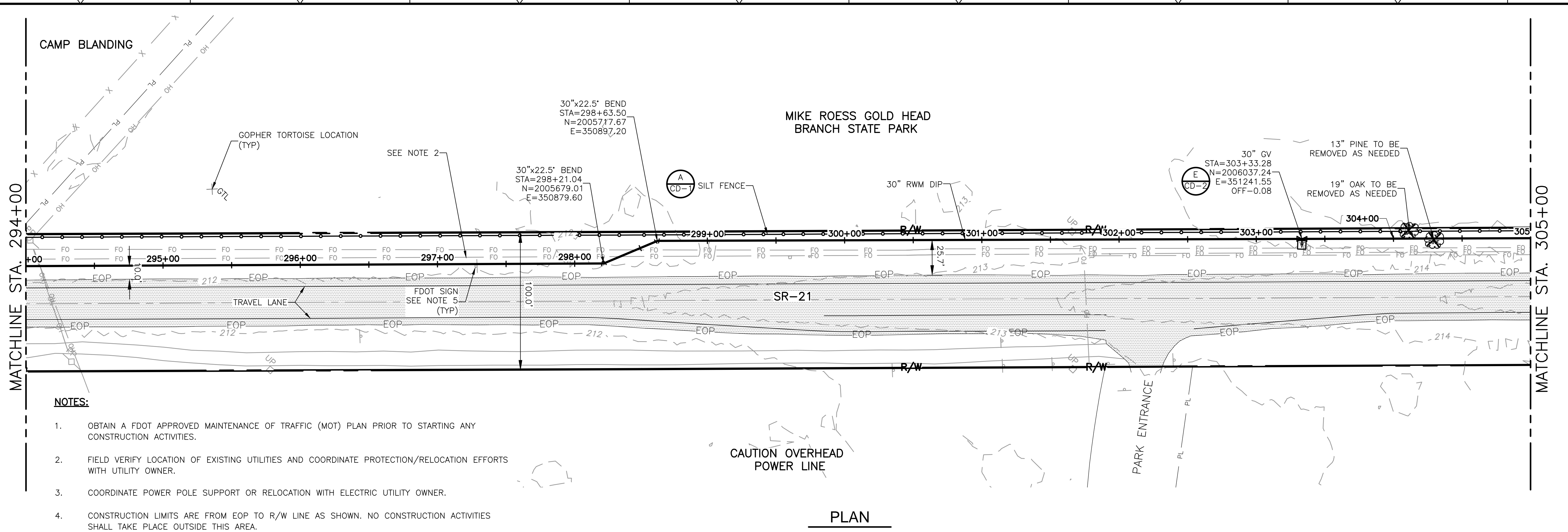
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 21
 STA 272+00 TO STA 294+00

DATE: CLAY M TAPPAN PE NO. 42772
PROJECT NO. 9247-221208 FILE NAME: C008STPL.DWG
SHEET NO. C-8

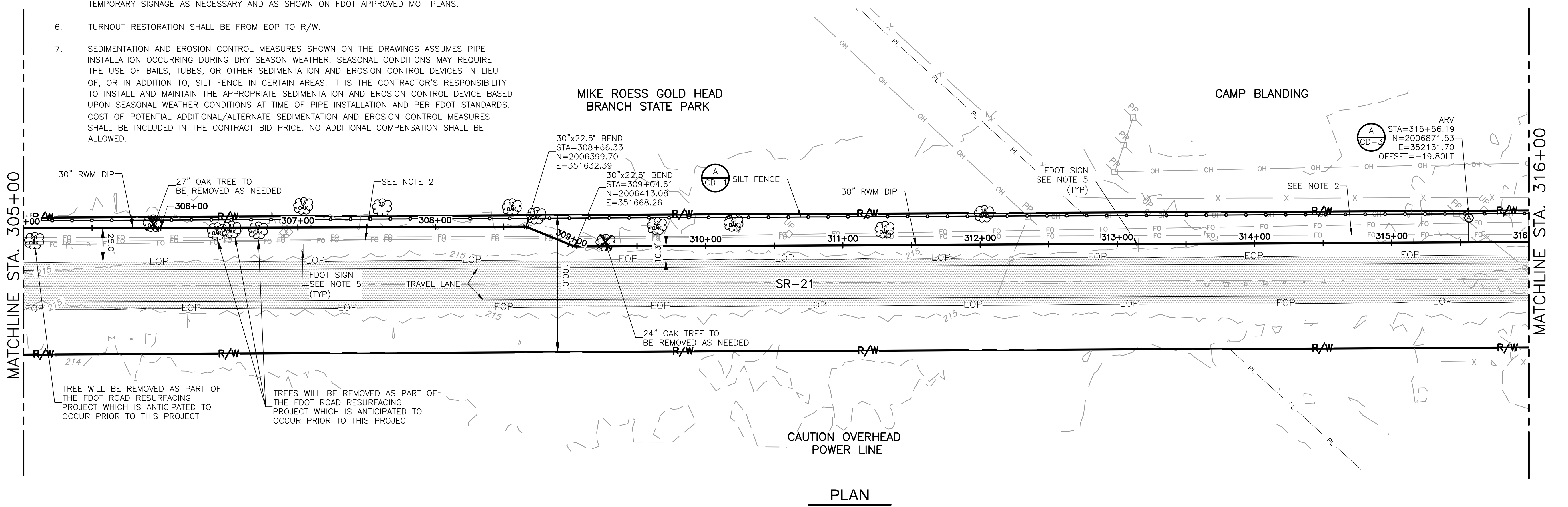


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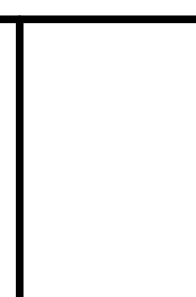
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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY:	C. TAPPAN
DRAWN BY:	D. AUST
SHEET CHK'D BY:	G. CASHON
CROSS CHK'D BY:	C. TAPPAN
APPROVED BY:	
DATE:	JUNE 2022

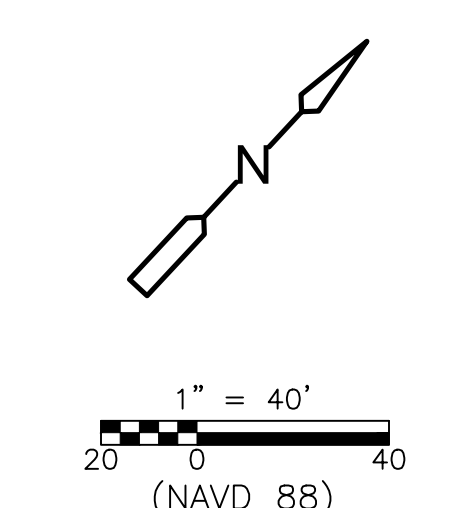
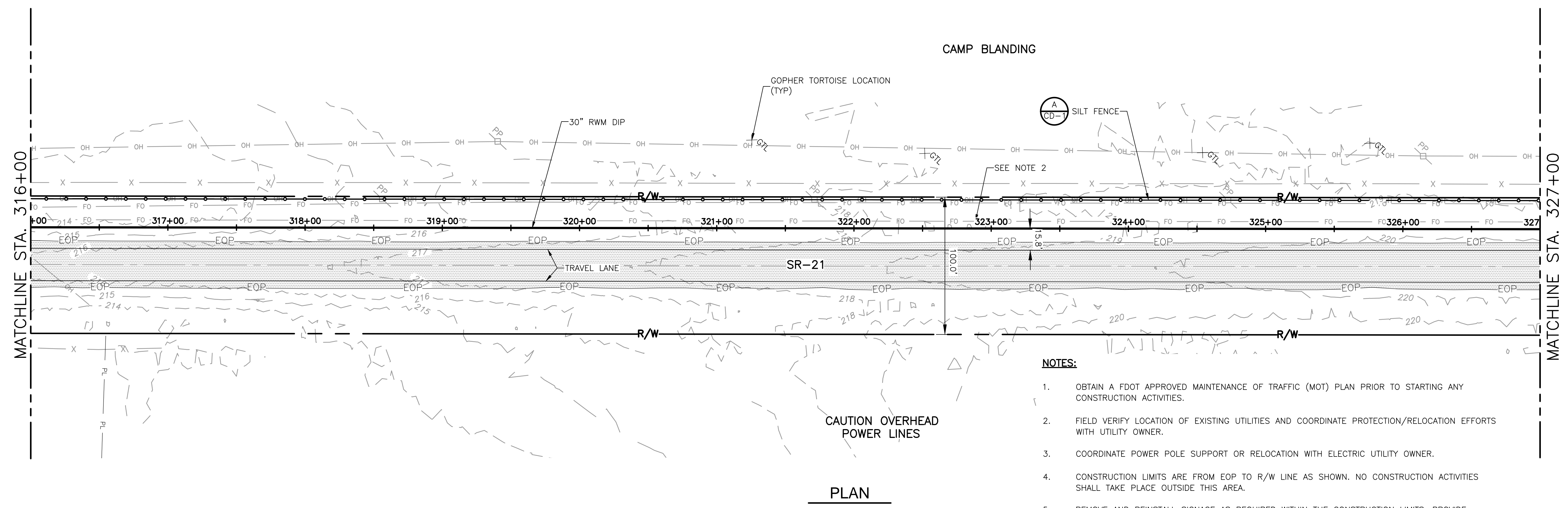


ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
BLACK CREEK WATER RESOURCE DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

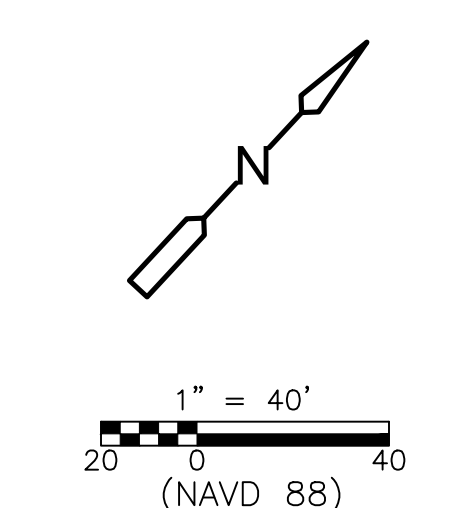
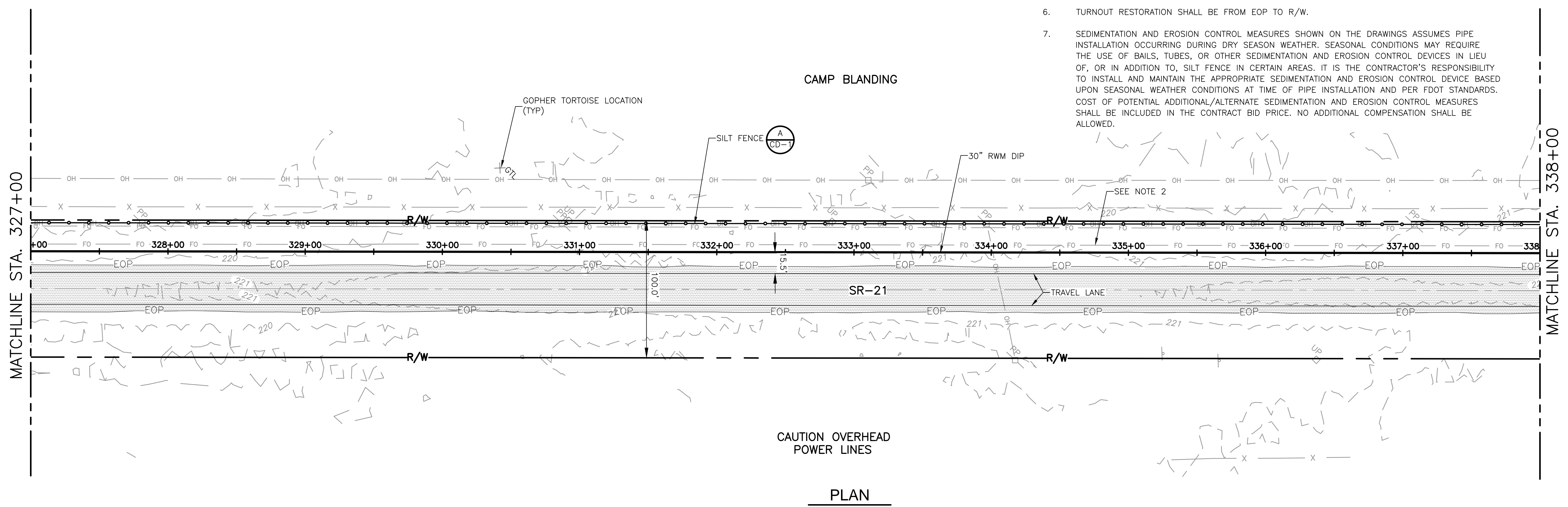
STATE ROAD 21
 STA 294+00 TO STA 316+00

DATE:	CLAY M TAPPAN
PE NO.:	42772
PROJECT NO.:	9247-221208
FILE NAME:	C009STPL.DWG
SHEET NO.:	C-9

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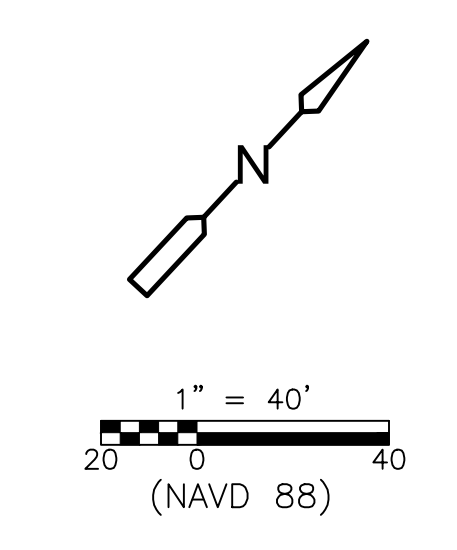
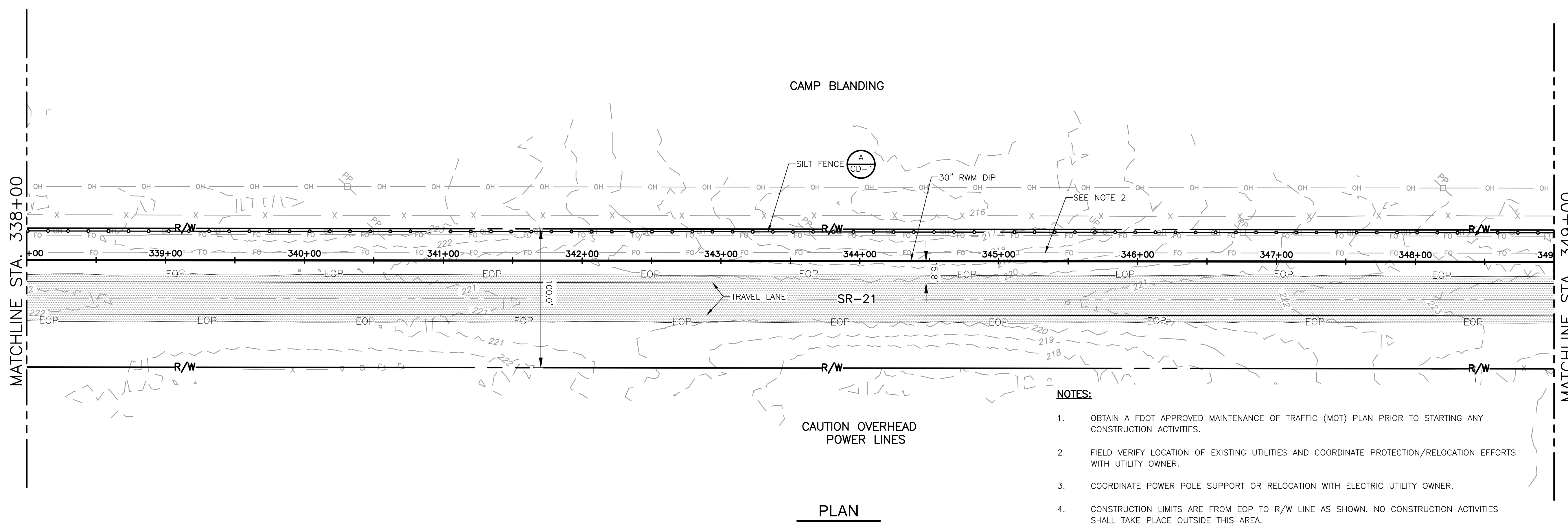
DESIGNED BY: C. TAPPAN	 4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-0000020
DRAWN BY: D. AUST	
SHEET CHK'D BY: G. CASHON	
CROSS CHK'D BY: C. TAPPAN	
APPROVED BY: _____	
DATE: JUNE 2022	

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

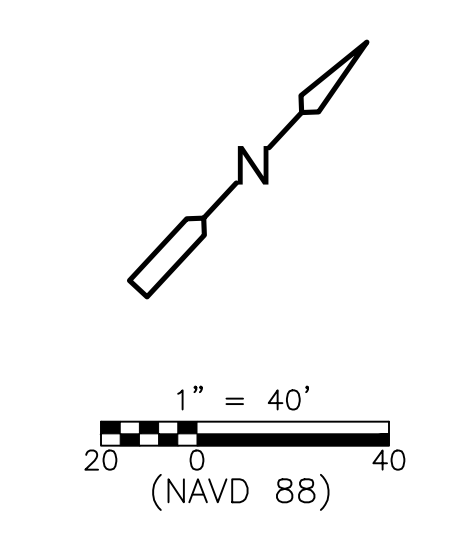
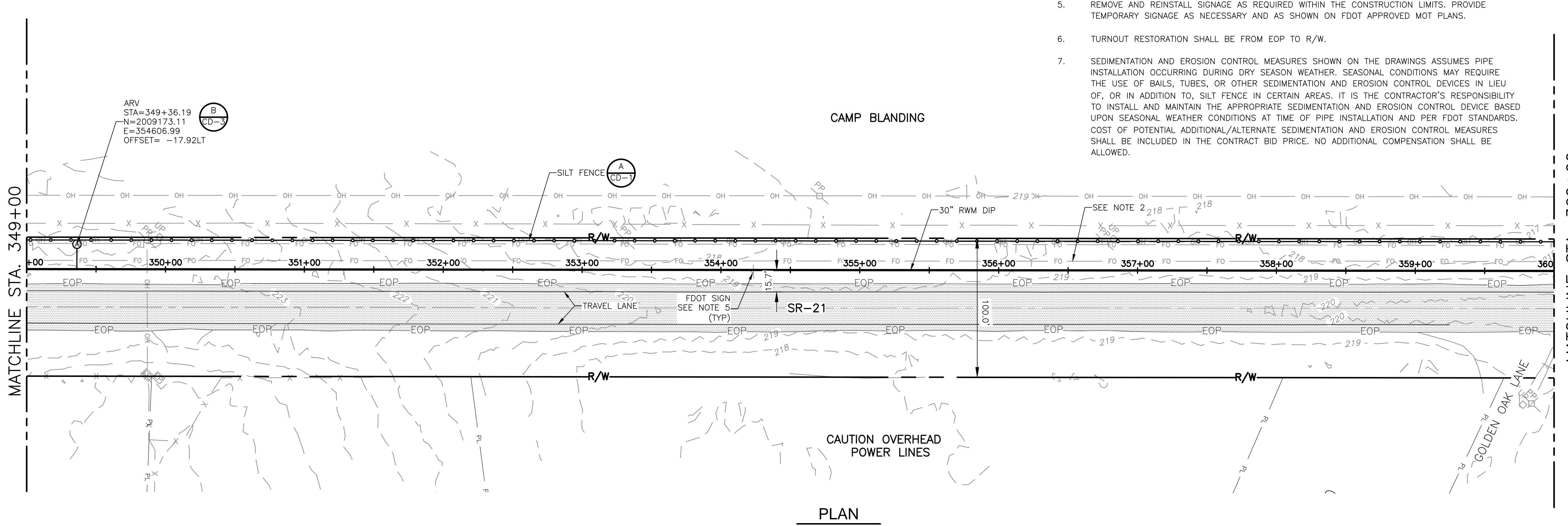
STATE ROAD 21
 STA 316+00 TO STA 338+00
 SHEET NO. C-10

PROJECT NO. 9247-221208
FILE NAME: C010STPL.DWG
SHEET NO. C-10

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN	CDM Smith 4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-0000020
DRAWN BY: D. AUST	
SHEET CHK'D BY: G. CASHON	
CROSS CHK'D BY: C. TAPPAN	
APPROVED BY: _____	
DATE: JUNE 2022	

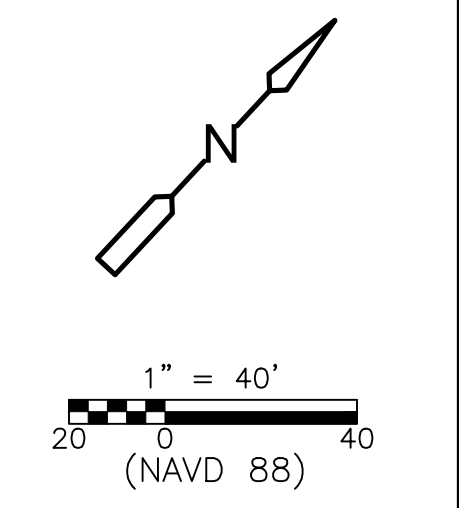
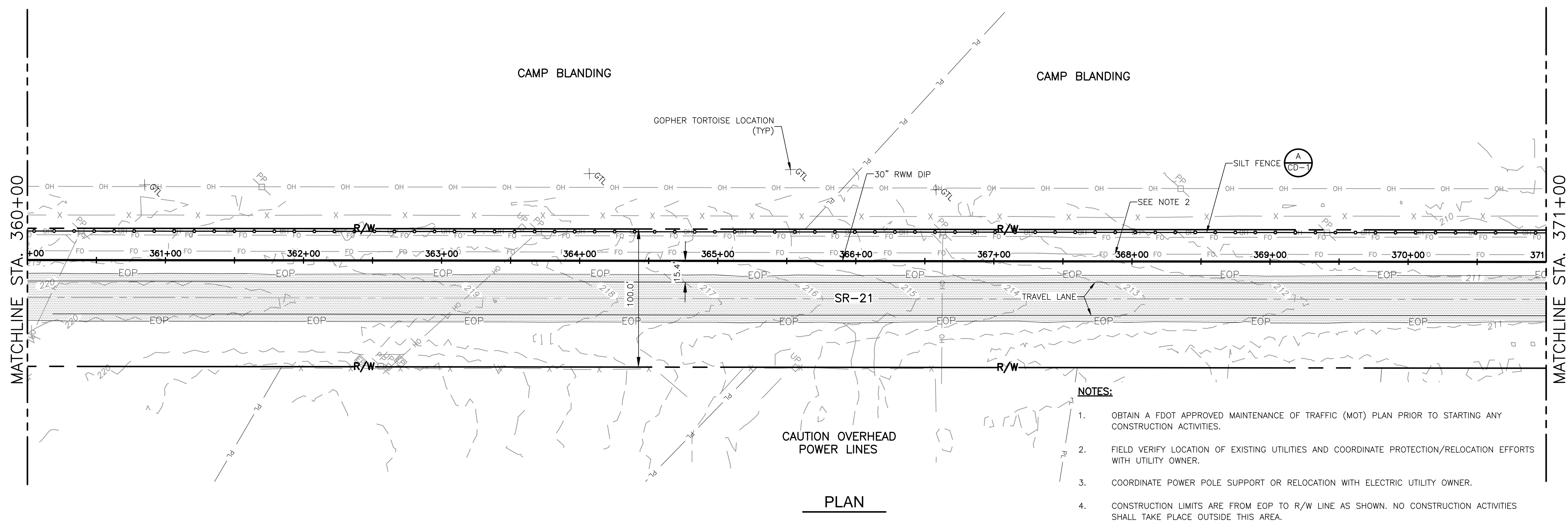
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 21
 STA 338+00 TO STA 360+00

SHEET NO.
C-11

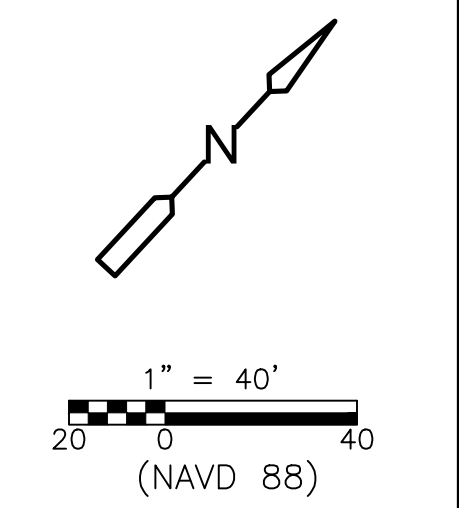
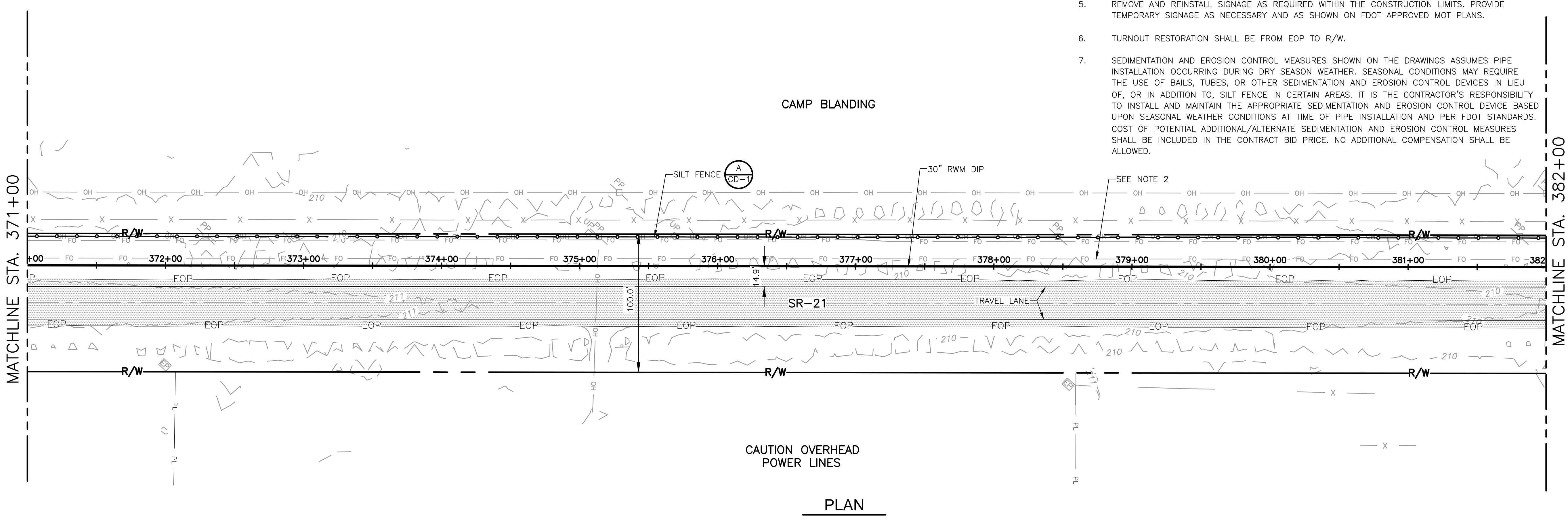
DATE: CLAY M TAPPAN PE NO. 42772
PROJECT NO. 9247-221208 FILE NAME: C011STPL.DWG
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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN	 4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-0000020
DRAWN BY: D. AUST	
SHEET CHK'D BY: G. CASHON	
CROSS CHK'D BY: C. TAPPAN	
APPROVED BY: _____	
DATE: JUNE 2022	

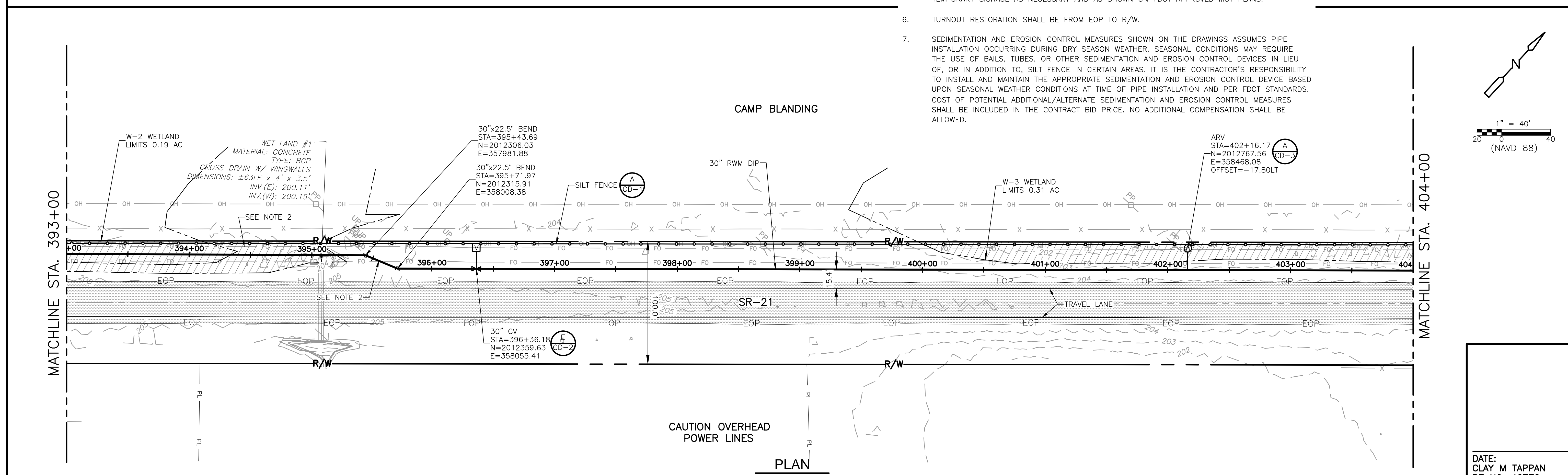
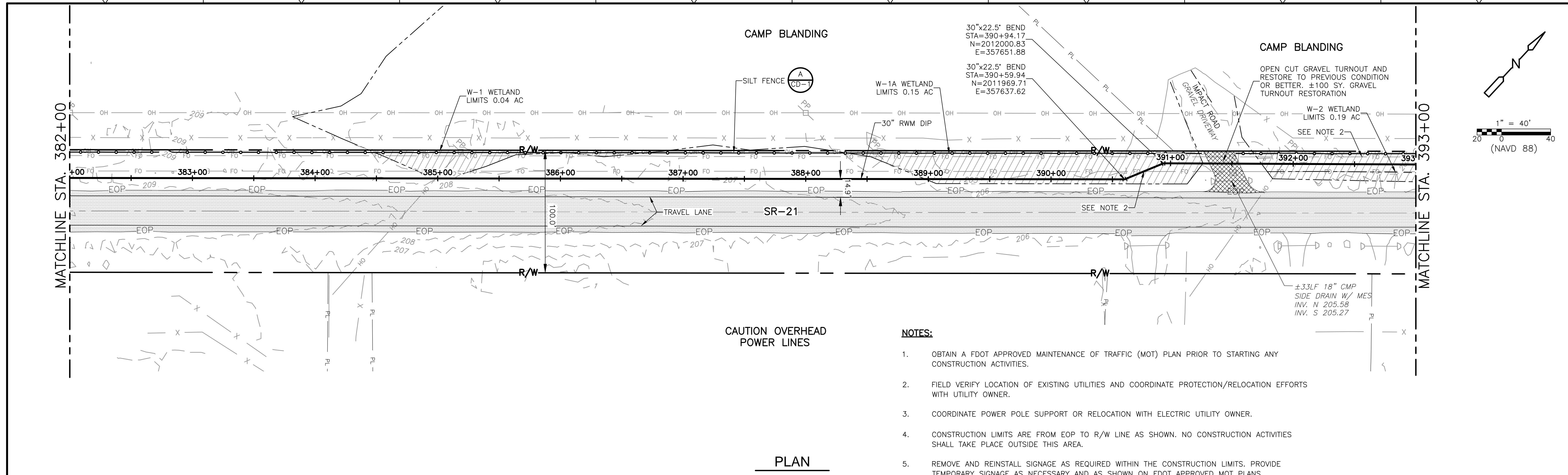
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 21
 STA 360+00 TO STA 382+00

PROJECT NO. 9247-221208
 FILE NAME: C012STPL.DWG
 SHEET NO. C-12

DATE:
 CLAY M TAPPAN
 PE NO. 42772

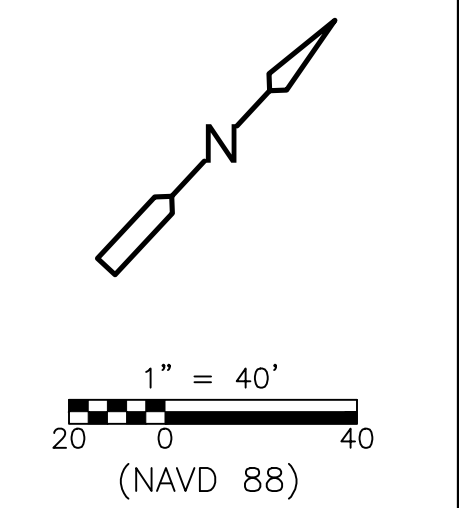
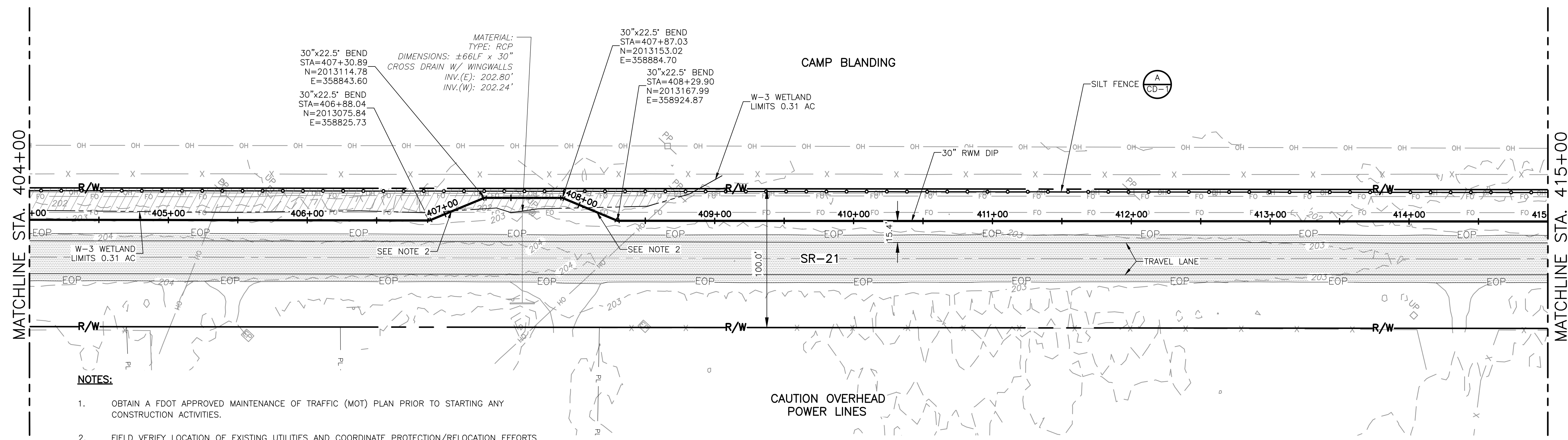
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DESIGNED BY: C. TAPPAN	DRAWN BY: D. AUST	SHEET CHK'D BY: G. CASHON	CROSS CHK'D BY: C. TAPPAN	APPROVED BY: _____	DATE: JUNE 2022	CDM Smith 4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-0000020	
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, LOWER ST. JOHNS RIVER BASIN BLACK CREEK WATER RESOURCE DEVELOPMENT PROJECT 30" RAW WATER TRANSMISSION MAIN							
REV. NO.	DATE	DRWN	CHKD	REMARKS			DATE: CLAY M TAPPAN PE NO. 42772 ISSUED FOR BID

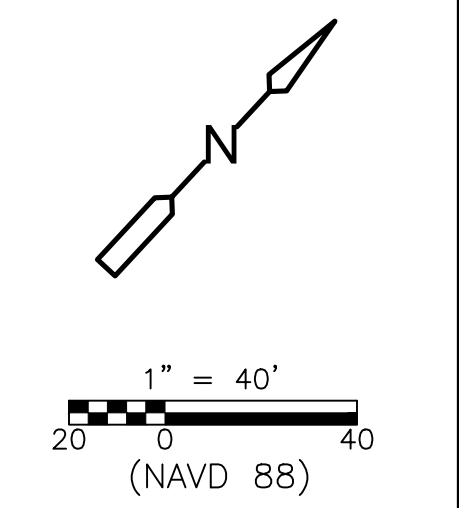
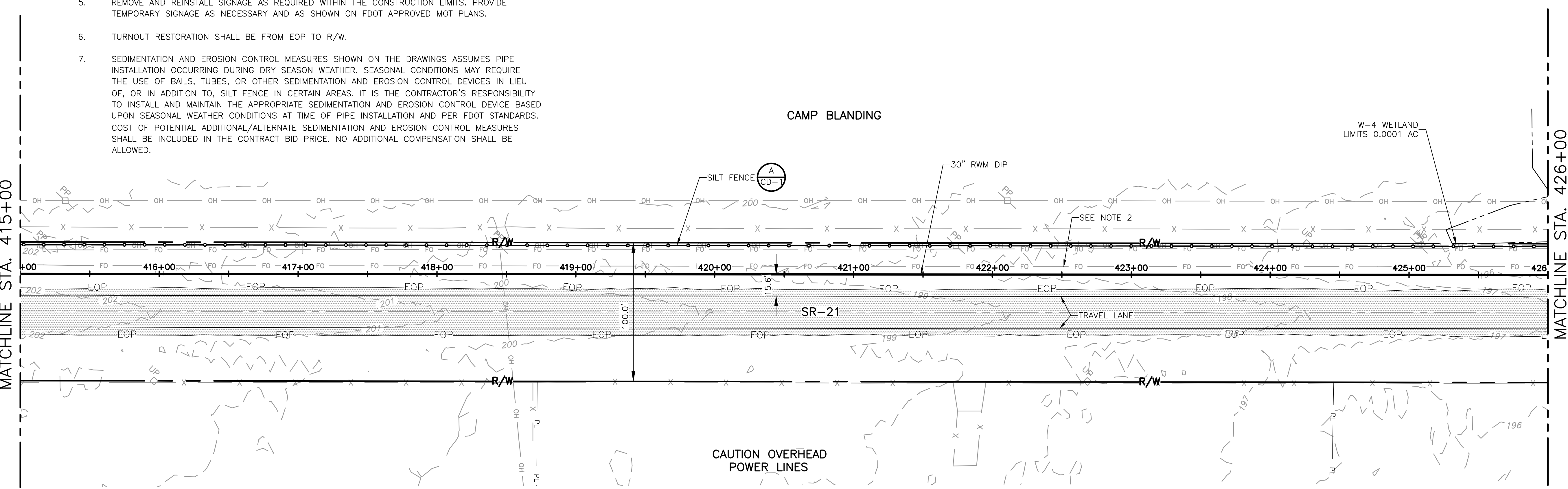
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PLAN



PLAN

REV. NO.	DATE	DRWN	CHKD	REMARKS

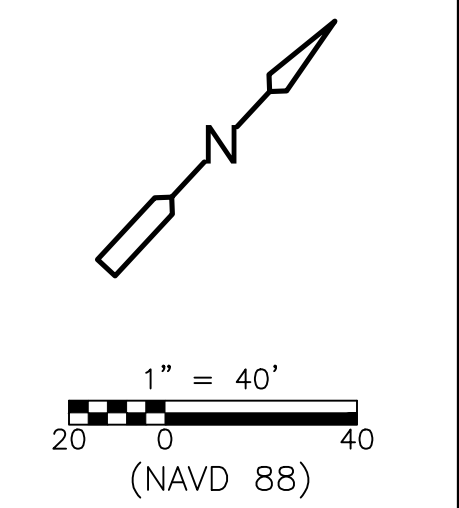
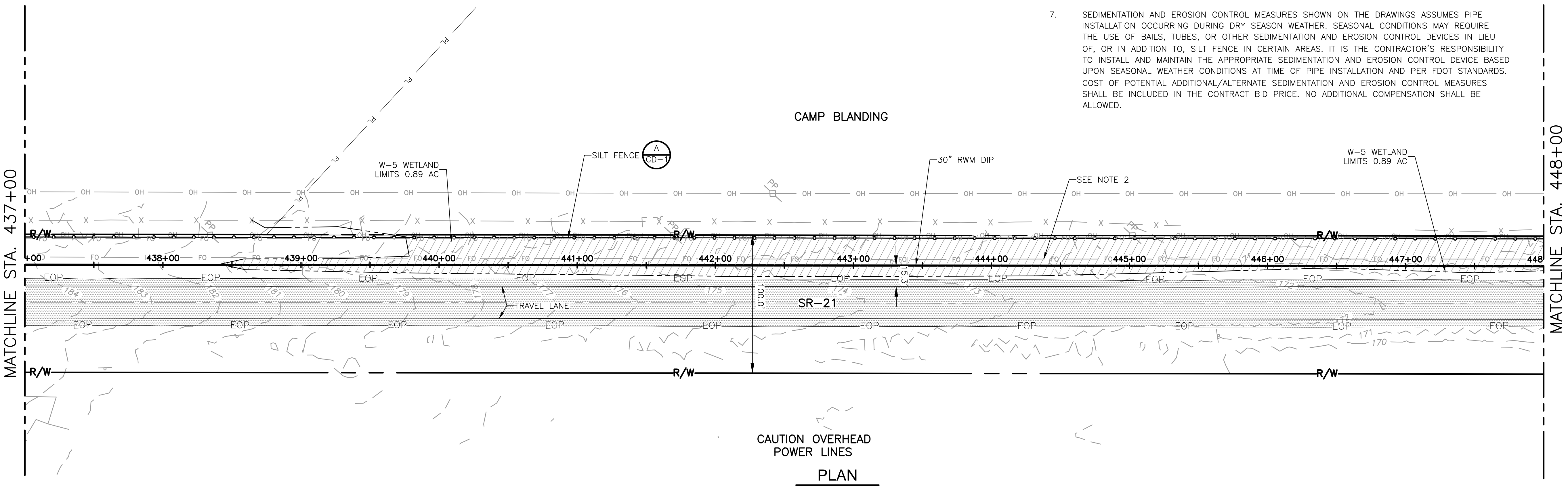
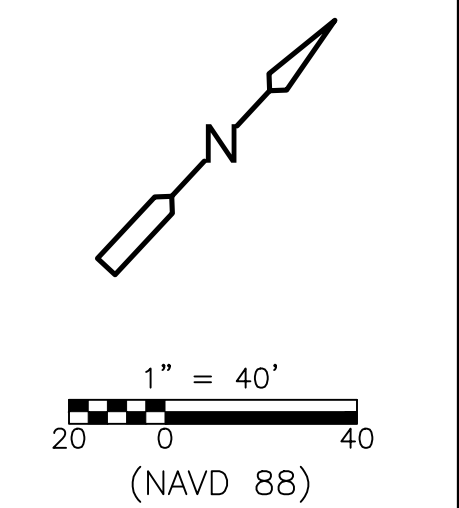
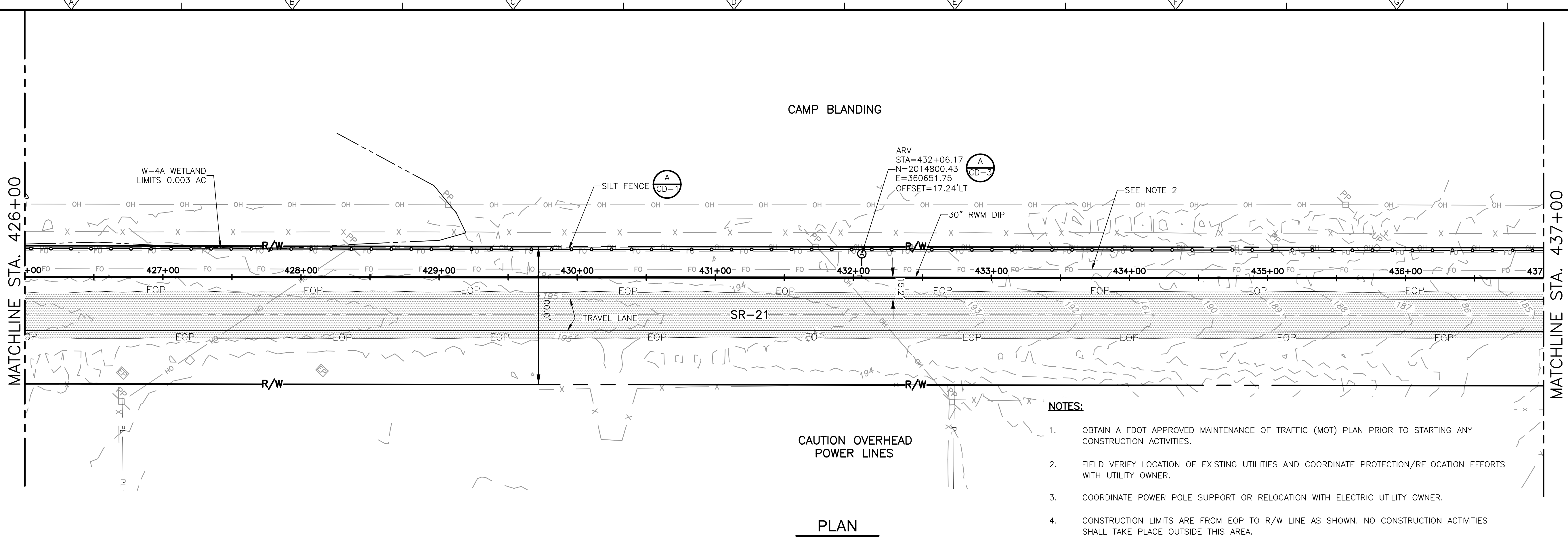
DESIGNED BY: C. TAPPAN	 4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-0000020
DRAWN BY: D. AUST	
SHEET CHK'D BY: G. CASHON	
CROSS CHK'D BY: C. TAPPAN	
APPROVED BY: _____	
DATE: JUNE 2022	

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 21
 STA 404+00 TO STA 426+00

DATE: CLAY M TAPPAN PE NO. 42772
PROJECT NO. 9247-221208 FILE NAME: C014STPL.DWG
SHEET NO. C-14

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REV. NO.	DATE	DRWN	CHKD	REMARKS

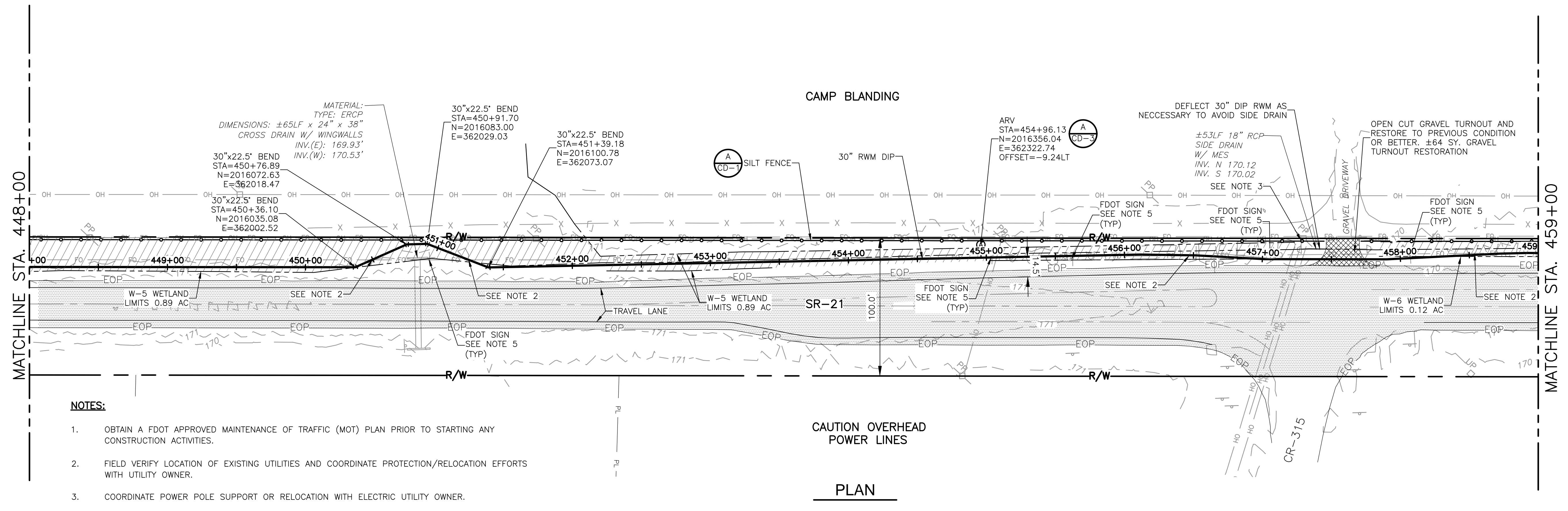
DESIGNED BY: C. TAPPAN	CDM Smith 4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-0000020
DRAWN BY: D. AUST	
SHEET CHK'D BY: G. CASHON	
CROSS CHK'D BY: C. TAPPAN	
APPROVED BY: _____	
DATE: JUNE 2022	

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
LOWER ST. JOHNS RIVER BASIN
BLACK CREEK WATER RESOURCE
DEVELOPMENT PROJECT
30" RAW WATER TRANSMISSION MAIN

STATE ROAD 21
STA 426+00 TO STA 448+00

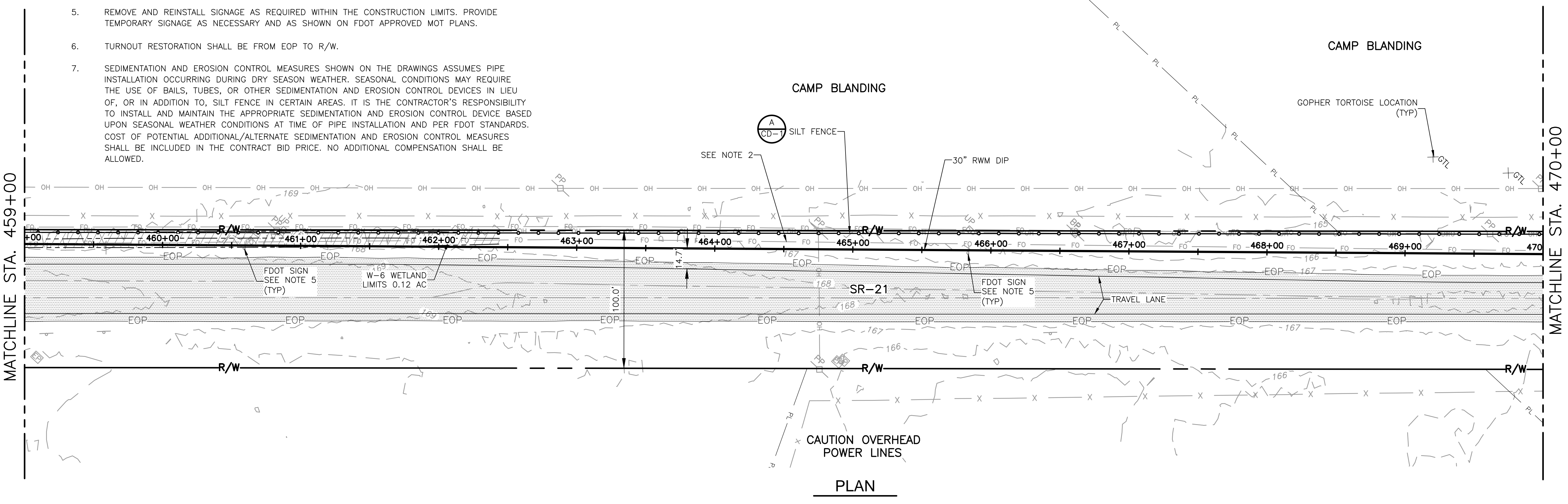
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FILE NAME: C015STPL.DWG
SHEET NO. C-15

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PLAN



PLAN

REV. NO.	DATE	DRWN	CHKD	REMARKS

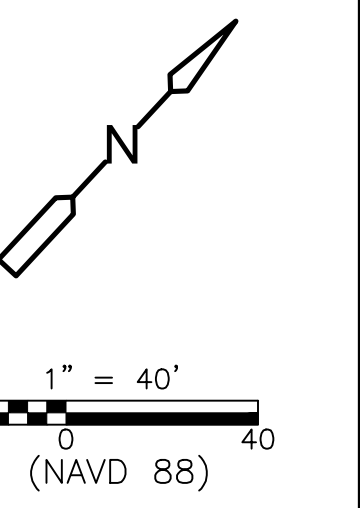
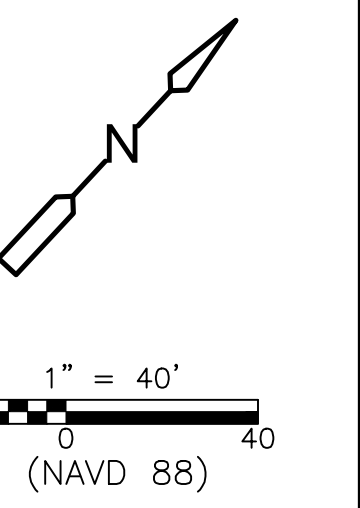
DESIGNED BY: C. TAPPAN
 DRAWN BY: D. AUST
 SHEET CHK'D BY: G. CASHON
 CROSS CHK'D BY: C. TAPPAN
 APPROVED BY: _____
 DATE: JUNE 2022

CDM Smith
 4651 Salisbury Road, Suite 420
 Jacksonville, FL 32256
 Tel: (904) 731-7109
 FL COA No. EB-0000020

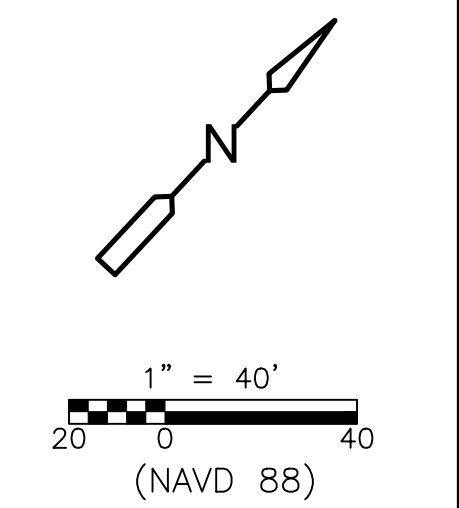
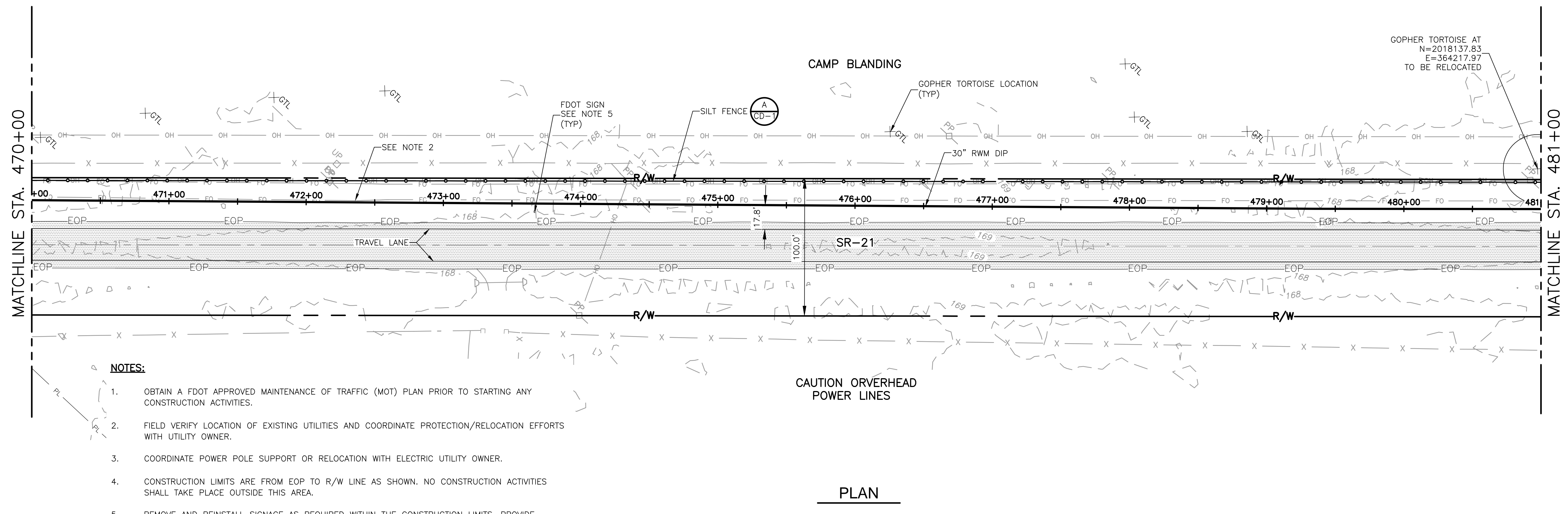
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 21
 STA 448+00 TO STA 470+00

DATE:	CLAY M TAPPAN
PROJECT NO.:	9247-221208
FILE NAME:	C0165TPL.DWG
SHEET NO.:	C-16



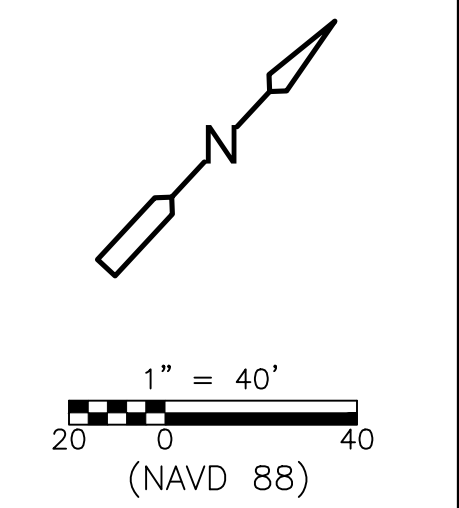
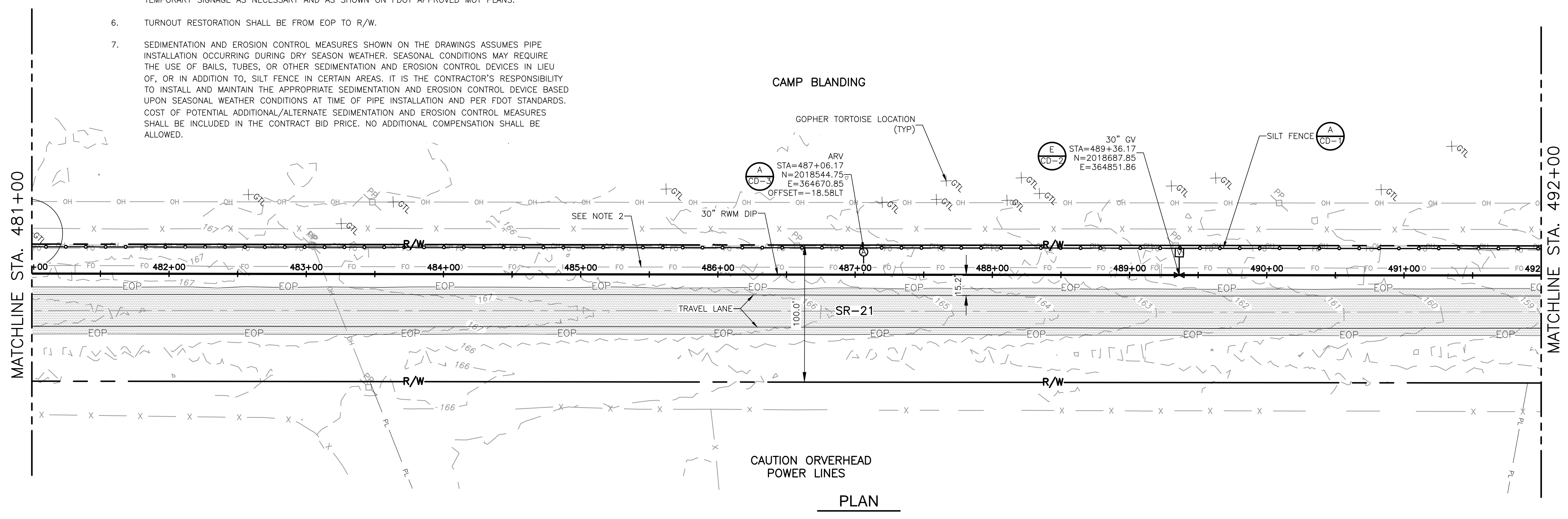
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PLAN



PLAN

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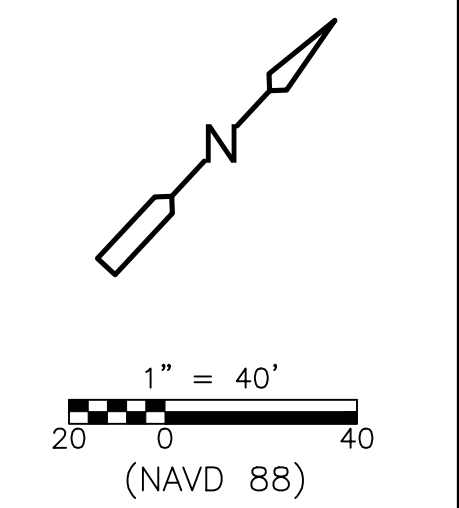
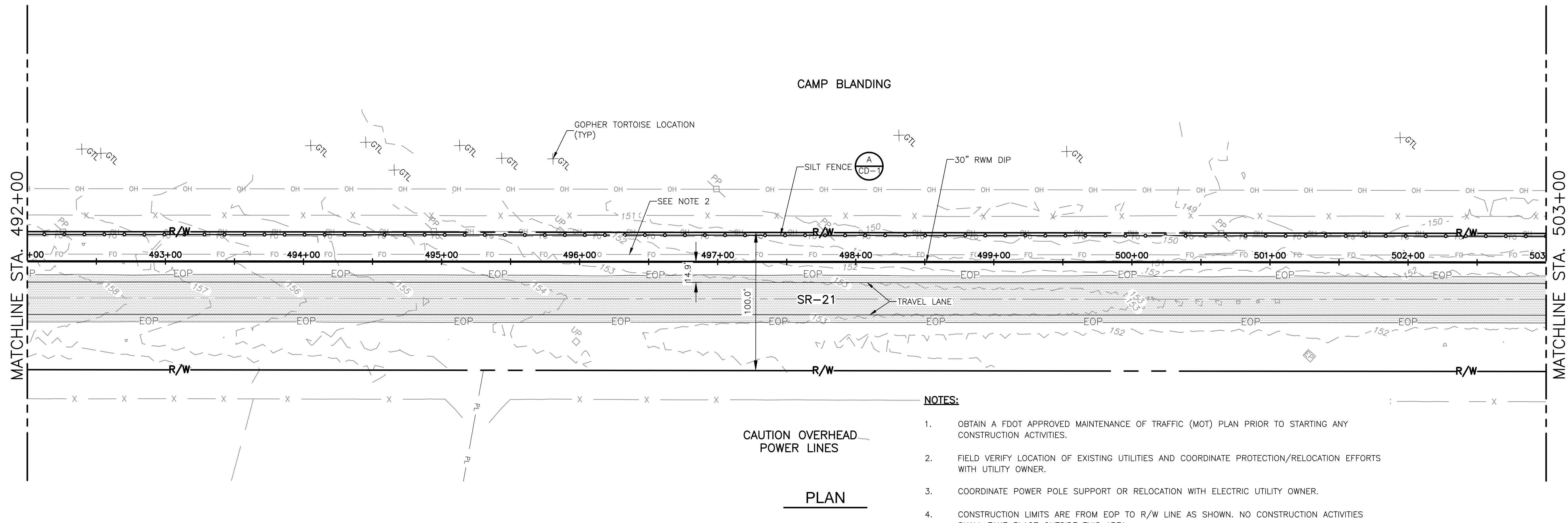
DESIGNED BY: C. TAPPAN	 4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-0000020
DRAWN BY: D. AUST	
SHEET CHK'D BY: G. CASHON	
CROSS CHK'D BY: C. TAPPAN	
APPROVED BY: _____	
DATE: JUNE 2022	

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

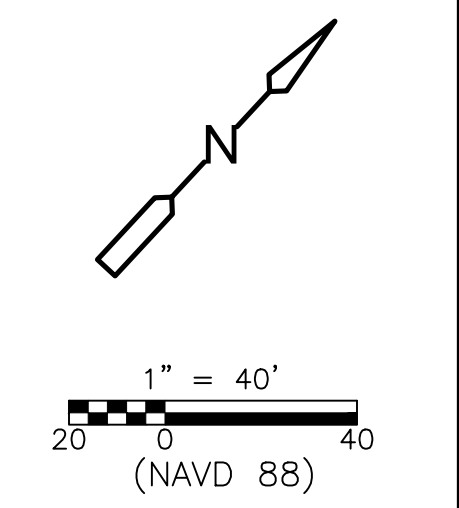
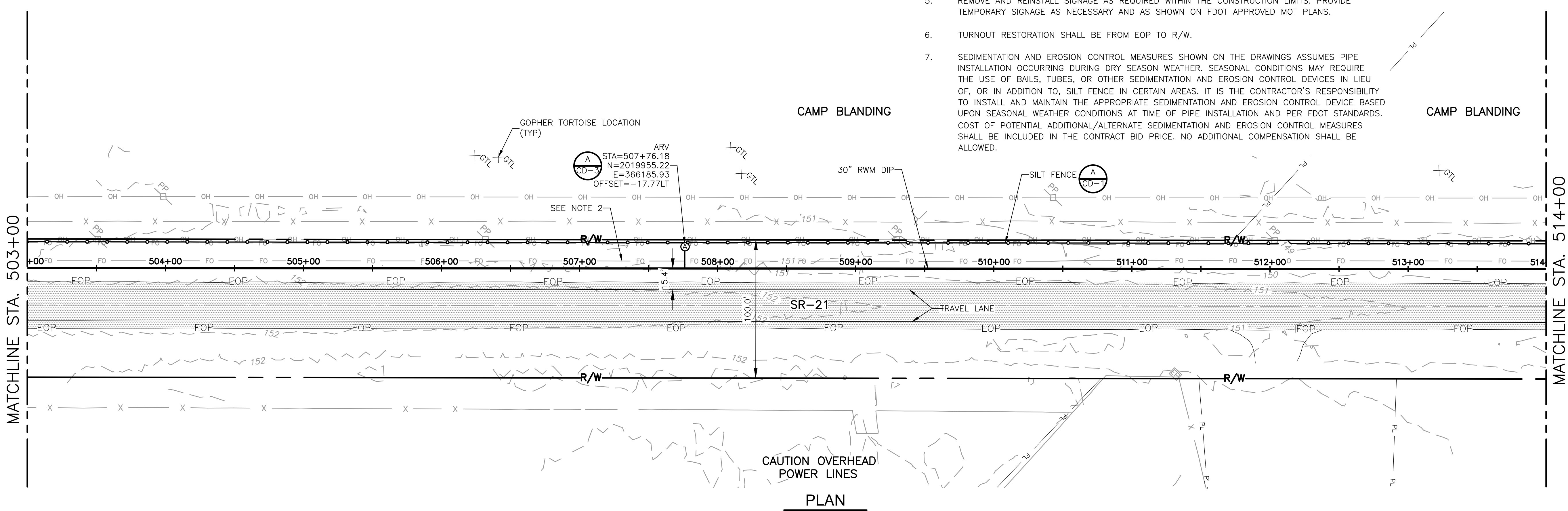
STATE ROAD 21
 STA 470+00 TO STA 492+00

DATE: CLAY M TAPPAN PE NO. 42772
PROJECT NO. 9247-221208 FILE NAME: C017STPL.DWG
SHEET NO. C-17

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN
 DRAWN BY: D. AUST
 SHEET CHK'D BY: G. CASHON
 CROSS CHK'D BY: C. TAPPAN
 APPROVED BY: _____
 DATE: JUNE 2022

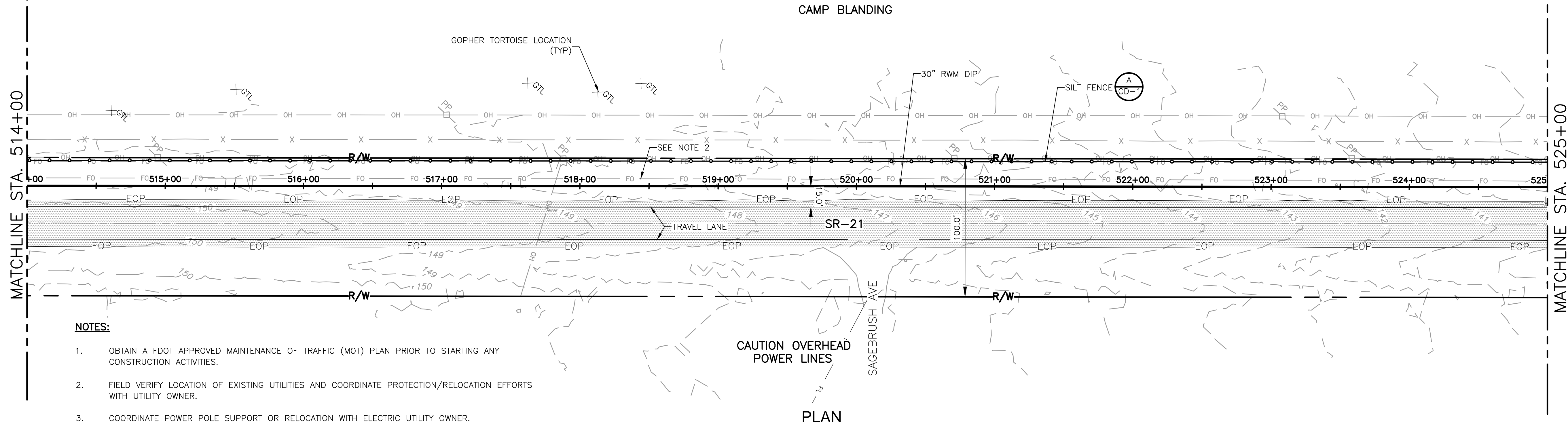
CDM Smith
 4651 Salisbury Road, Suite 420
 Jacksonville, FL 32256
 Tel: (904) 731-7109
 FL COA No. EB-0000020

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 21
 STA 492+00 TO STA 514+00

DATE: CLAY M TAPPAN
 PE NO. 42772
 PROJECT NO. 9247-221208
 FILE NAME: C018STPL.DWG
 SHEET NO. C-18

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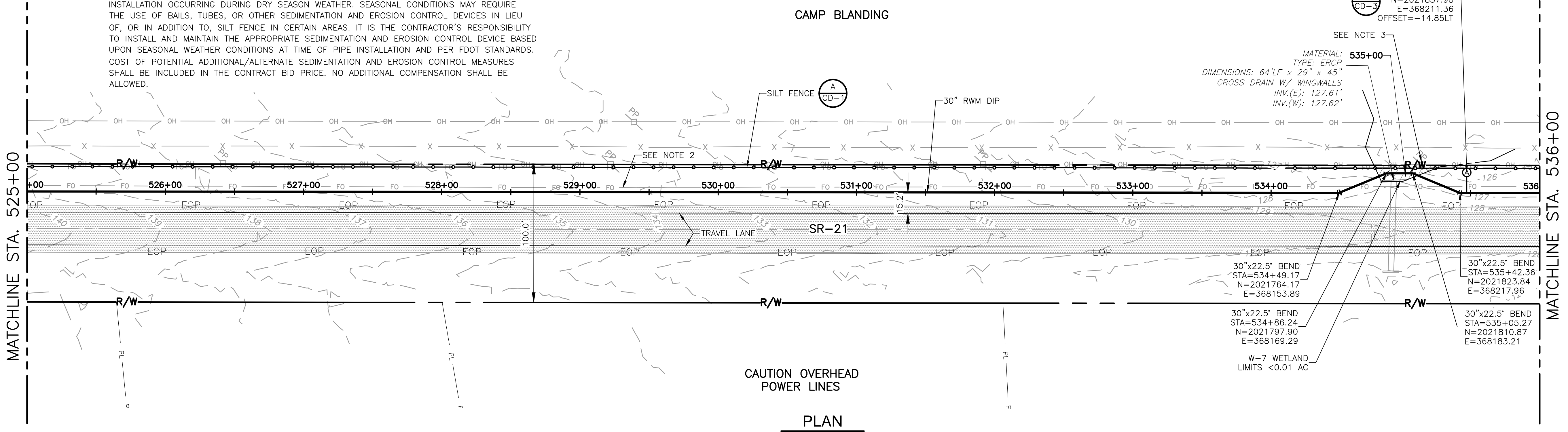


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CAUTION OVERHEAD POWER LINES

PLAN



CAUTION OVERHEAD POWER LINES

PLAN

REV. NO.	DATE	DRWN	CHKD	REMARKS

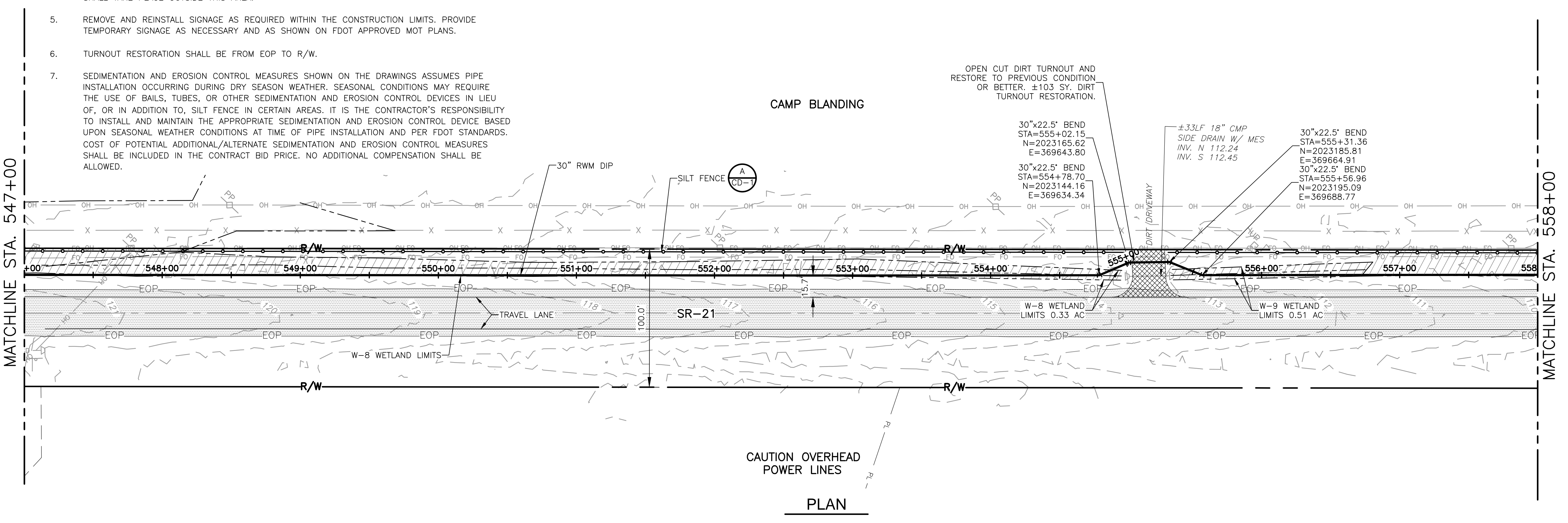
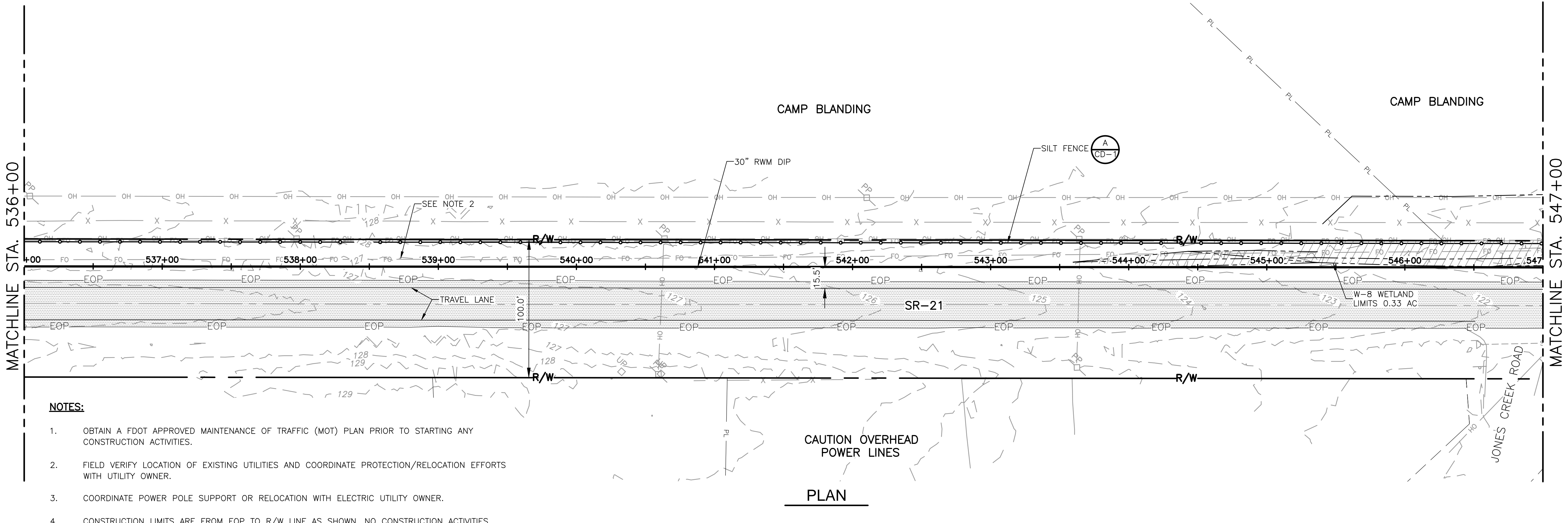
DESIGNED BY: C. TAPPAN	<p>4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-0000020</p>
DRAWN BY: D. AUST	
SHEET CHK'D BY: G. CASHON	
CROSS CHK'D BY: C. TAPPAN	
APPROVED BY: _____	
DATE: JUNE 2022	

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 21
 STA 514+00 TO STA 536+00
 SHEET NO. C-19

PROJECT NO. 9247-221208
FILE NAME: C019STPL.DWG
SHEET NO. C-19

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN
 DRAWN BY: D. AUST
 SHEET CHK'D BY: G. CASHON
 CROSS CHK'D BY: C. TAPPAN
 APPROVED BY: _____
 DATE: JUNE 2022

CDM Smith
 4651 Salisbury Road, Suite 420
 Jacksonville, FL 32256
 Tel: (904) 731-7109
 FL COA No. EB-0000020

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 21
 STA 536+00 TO STA 558+00

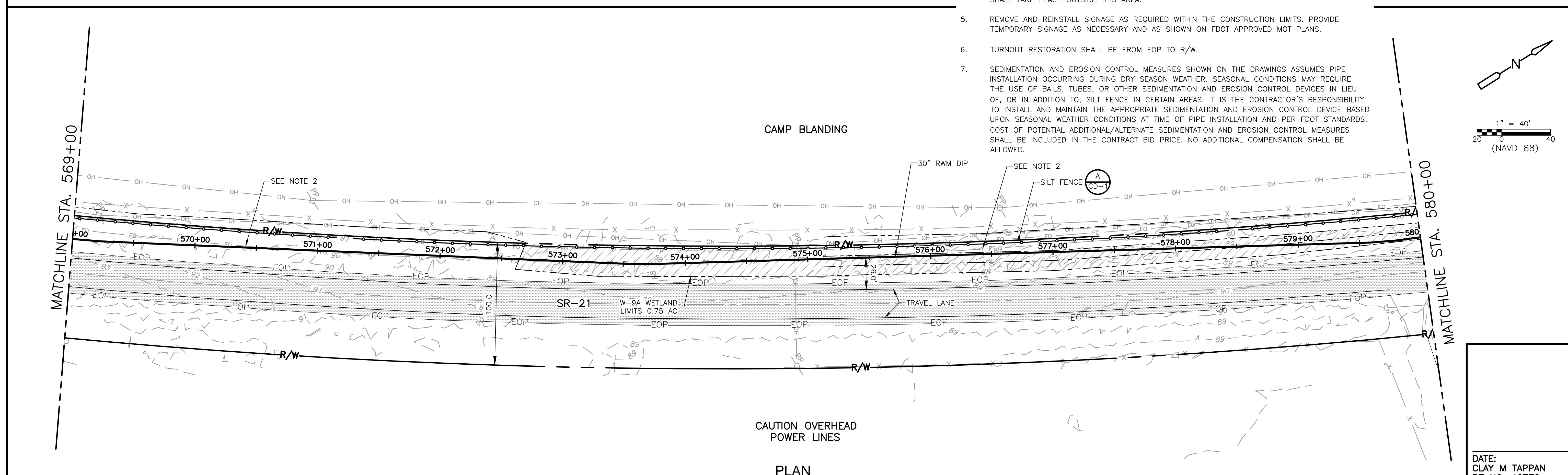
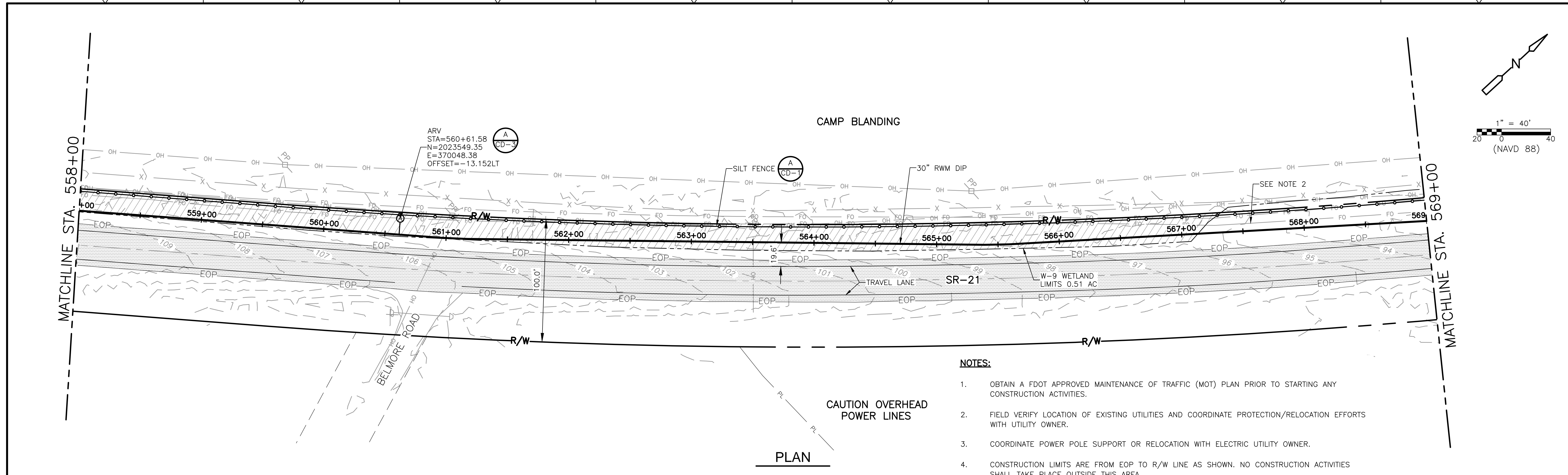
DATE: CLAY M TAPPAN
 PE NO. 42772

PROJECT NO. 9247-221208
 FILE NAME: C020STPL.DWG

SHEET NO. C-20

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DESIGNED BY: C. TAPPAN
 DRAWN BY: D. AUST
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4651 Salisbury Road, Suite 420
 Jacksonville, FL 32256
 Tel: (904) 731-7109
 FL COA No. EB-0000020

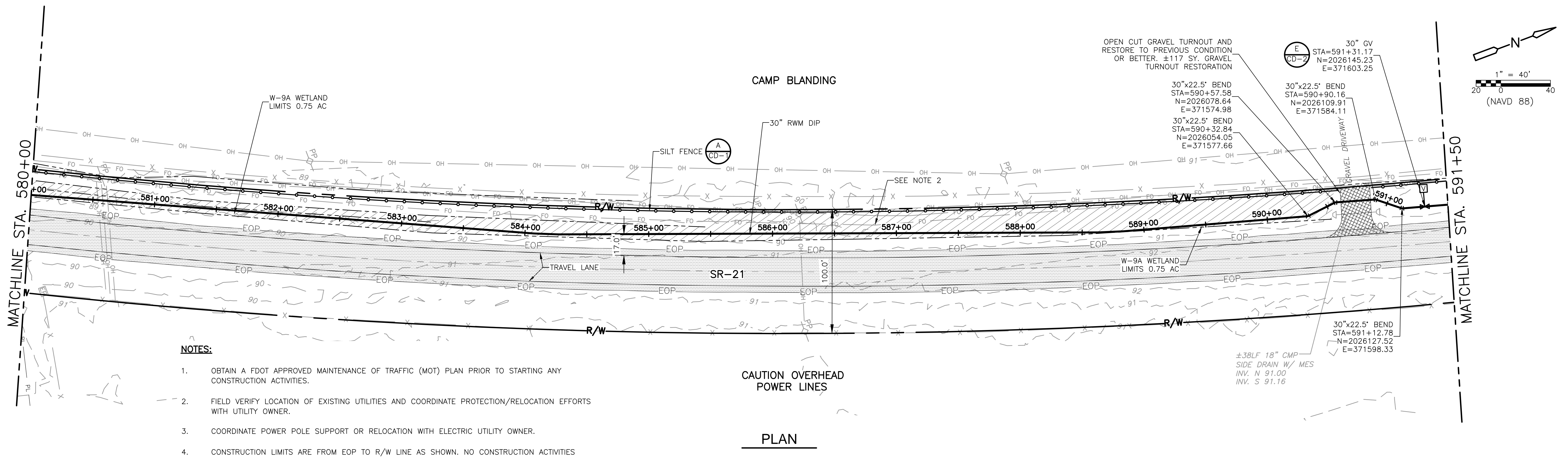
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 21
 STA 558+00 TO STA 580+00

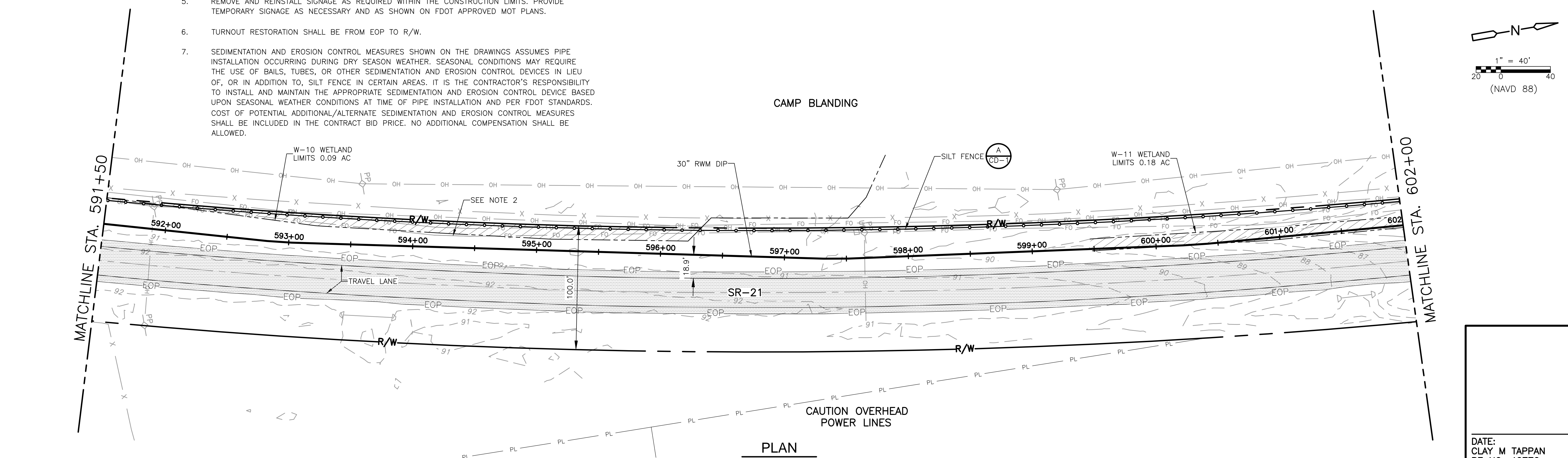
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ISSUED FOR BID

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- NOTES:**
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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN
 DRAWN BY: D. AUST
 SHEET CHK'D BY: G. CASHON
 CROSS CHK'D BY: C. TAPPAN
 APPROVED BY: _____
 DATE: JUNE 2022

CDM Smith
 4651 Salisbury Road, Suite 420
 Jacksonville, FL 32256
 Tel: (904) 731-7109
 FL COA No. EB-0000020

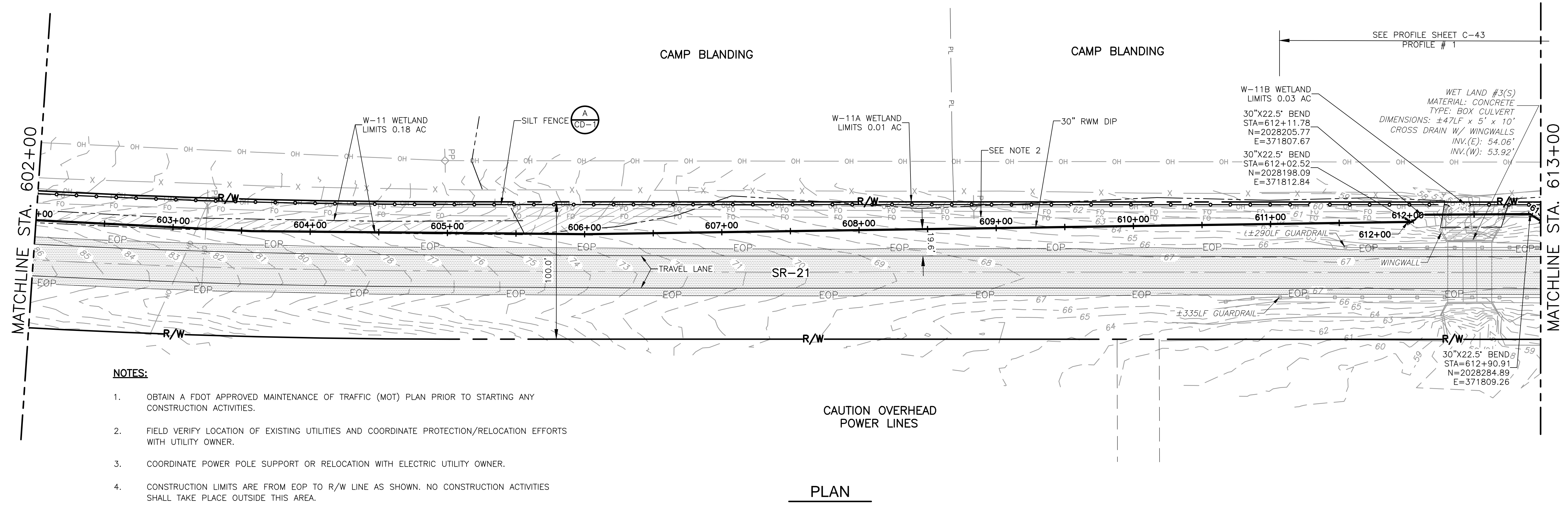
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 21
 STA 580+00 TO STA 602+00

DATE: CLAY M TAPPAN
 PE NO. 42772

PROJECT NO. 9247-221208
 FILE NAME: C022STPL.DWG
 SHEET NO. C-22

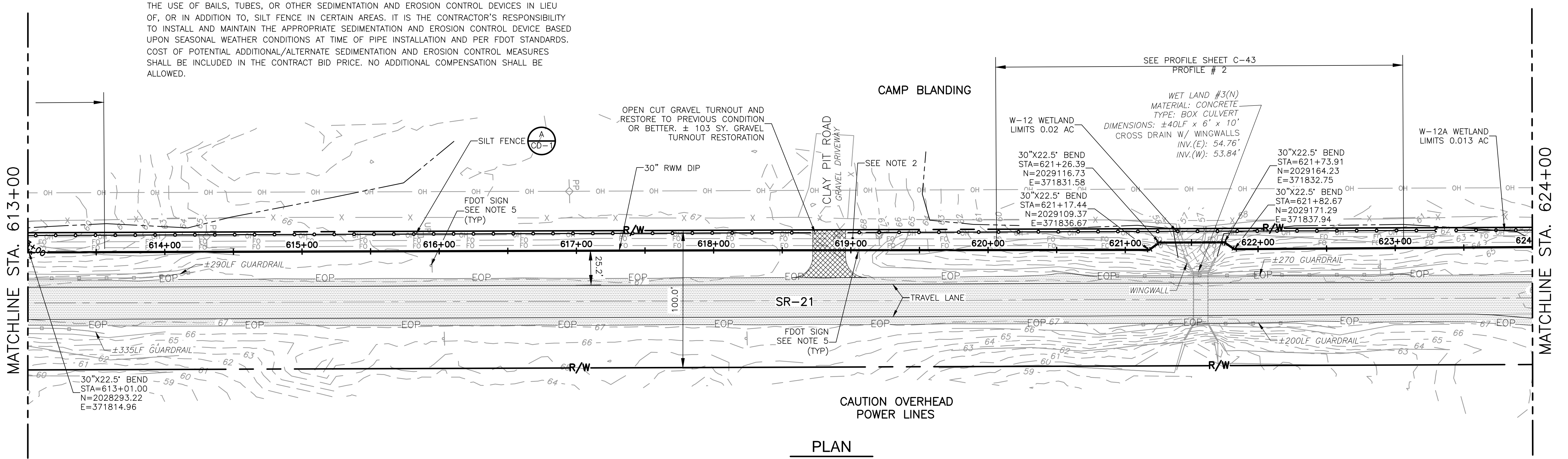
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PLAN



PLAN

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN
 DRAWN BY: D. AUST
 SHEET CHK'D BY: G. CASHON
 CROSS CHK'D BY: C. TAPPAN
 APPROVED BY: _____
 DATE: JUNE 2022

CDM Smith
 4651 Salisbury Road, Suite 420
 Jacksonville, FL 32256
 Tel: (904) 731-7109
 FL COA No. EB-0000020

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

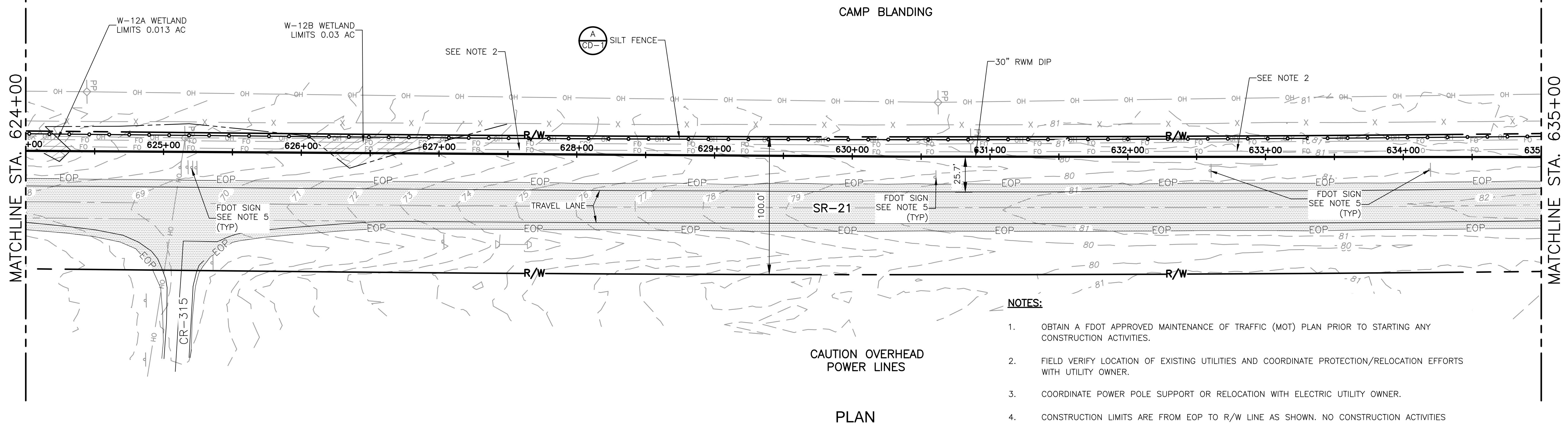
STATE ROAD 21
 STA 602+00 TO STA 624+00

DATE: CLAY M TAPPAN
 PE NO. 42772

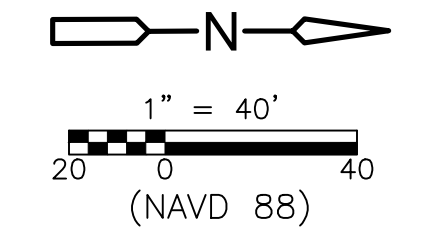
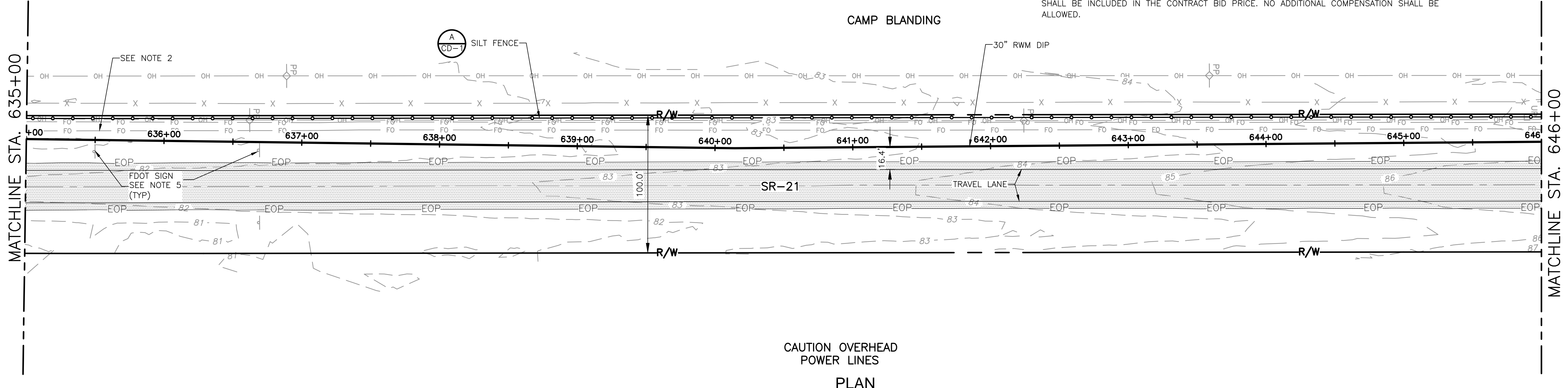
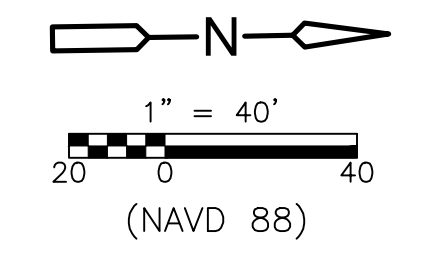
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 FILE NAME: C0235TPL.DWG
 SHEET NO. C-23

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REV. NO.	DATE	DRWN	CHKD	REMARKS

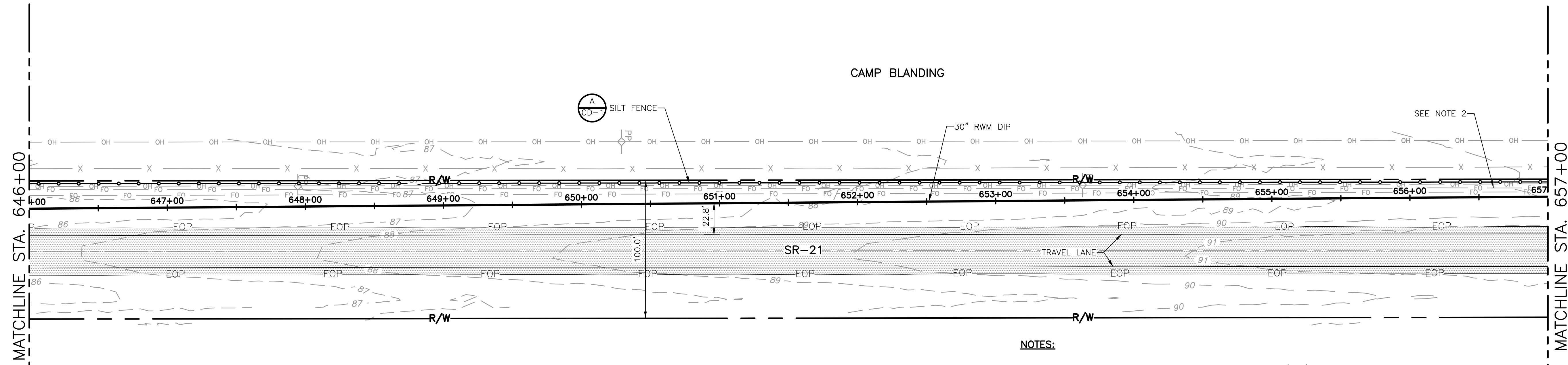
DESIGNED BY: C. TAPPAN	<p>4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-0000020</p>
DRAWN BY: D. AUST	
SHEET CHK'D BY: G. CASHON	
CROSS CHK'D BY: C. TAPPAN	
APPROVED BY: _____	
DATE: JUNE 2022	

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 21
 STA 624+00 TO STA 646+00

DATE: CLAY M TAPPAN PE NO. 42772
PROJECT NO. 9247-221208 FILE NAME: C024STPL.DWG
SHEET NO. C-24

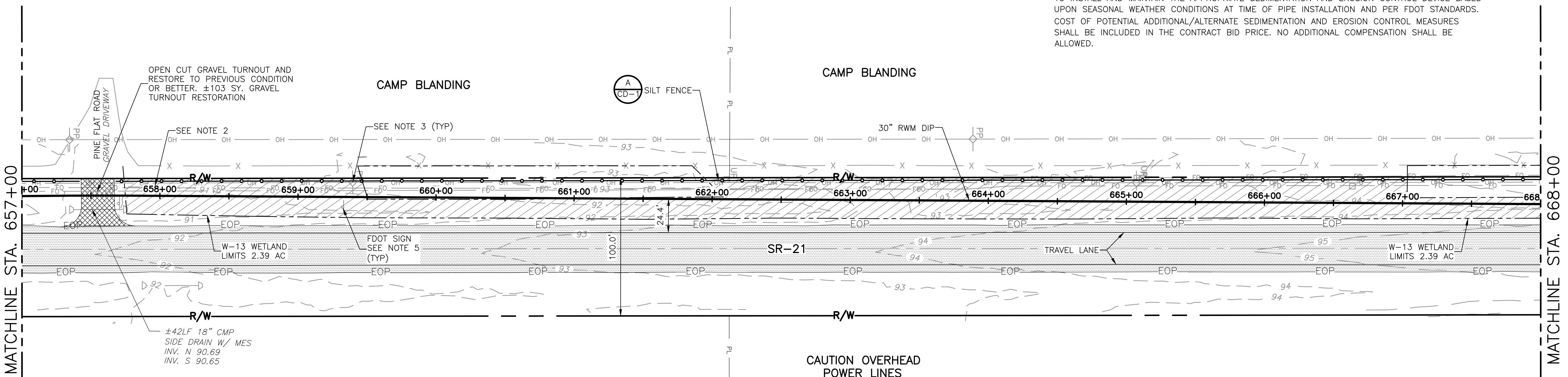
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CAUTION OVERHEAD POWER LINES

PLAN



CAUTION OVERHEAD POWER LINES

PLAN

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN	 4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-0000020
DRAWN BY: D. AUST	
SHEET CHK'D BY: G. CASHON	
CROSS CHK'D BY: C. TAPPAN	
APPROVED BY: _____	
DATE: JUNE 2022	

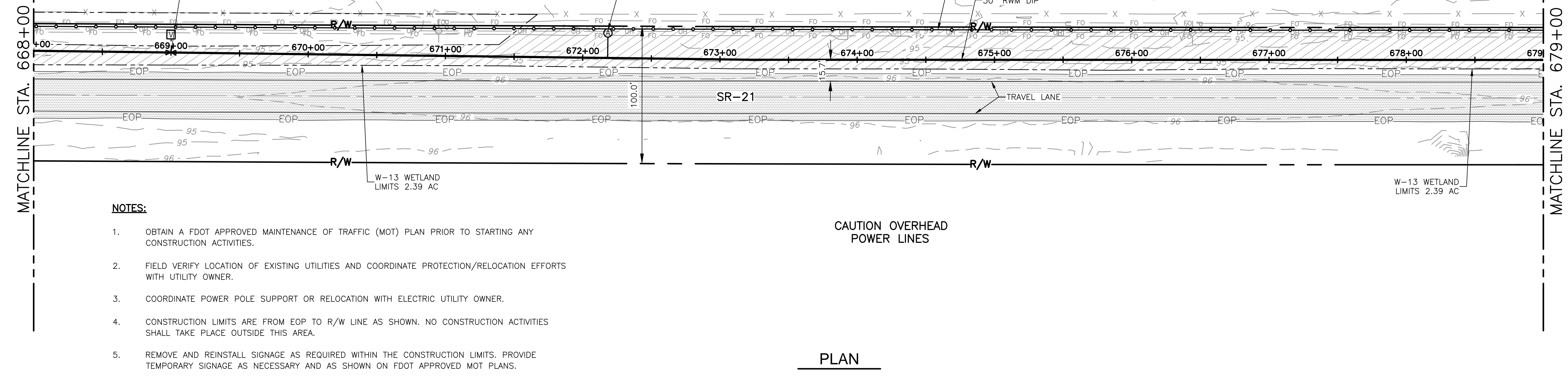
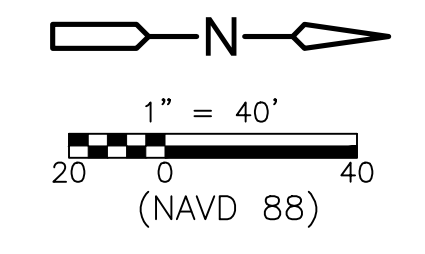
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 21
 STA 646+00 TO STA 668+00
 SHEET NO. C-25

DATE: CLAY M TAPPAN PE NO. 42772
PROJECT NO. 9247-221208
FILE NAME: C025STPL.DWG
SHEET NO. C-25

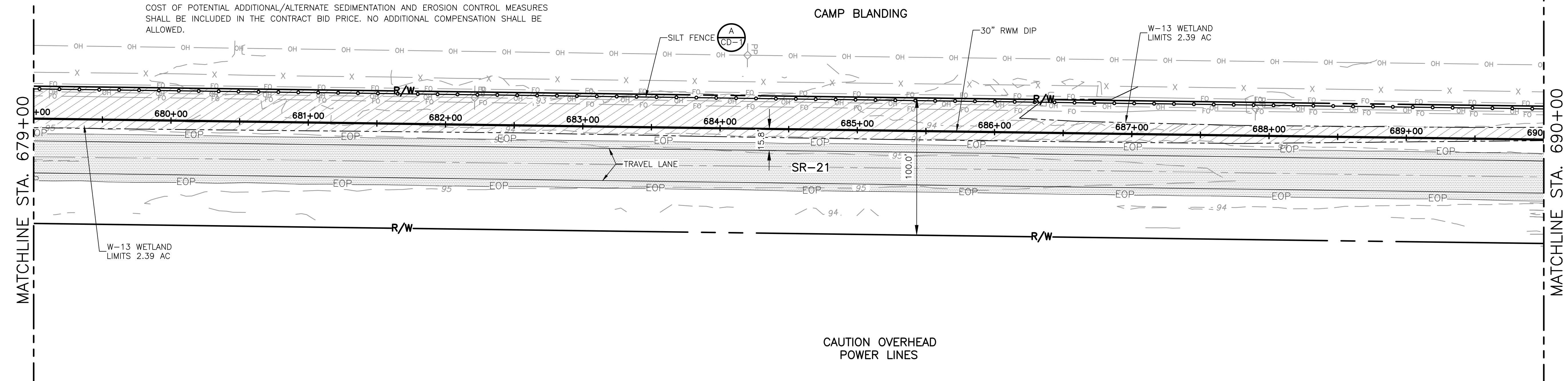
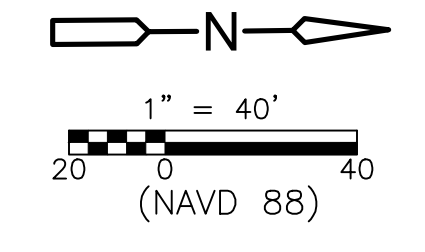
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REV. NO.	DATE	DRWN	CHKD	REMARKS

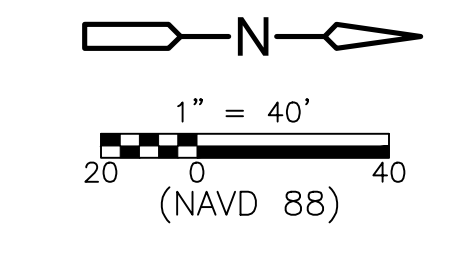
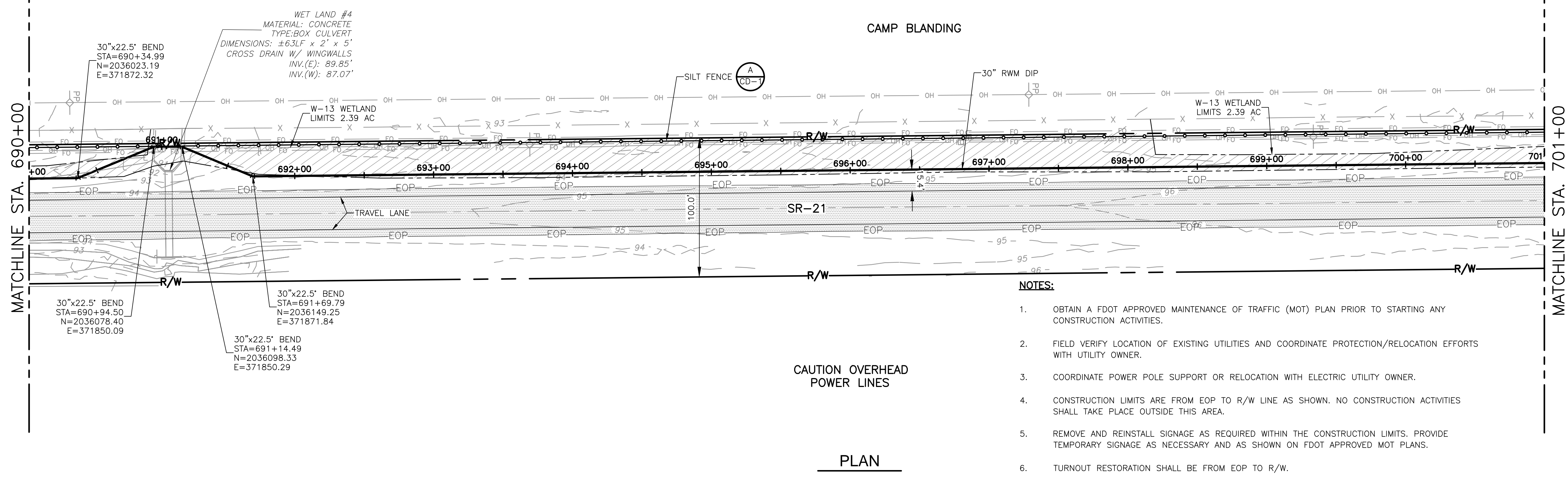
DESIGNED BY: C. TAPPAN	<p>4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-0000020</p>
DRAWN BY: D. AUST	
SHEET CHK'D BY: G. CASHON	
CROSS CHK'D BY: C. TAPPAN	
APPROVED BY: _____	
DATE: JUNE 2022	

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 21
 STA 668+00 TO STA 690+00

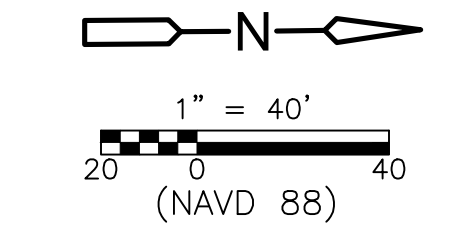
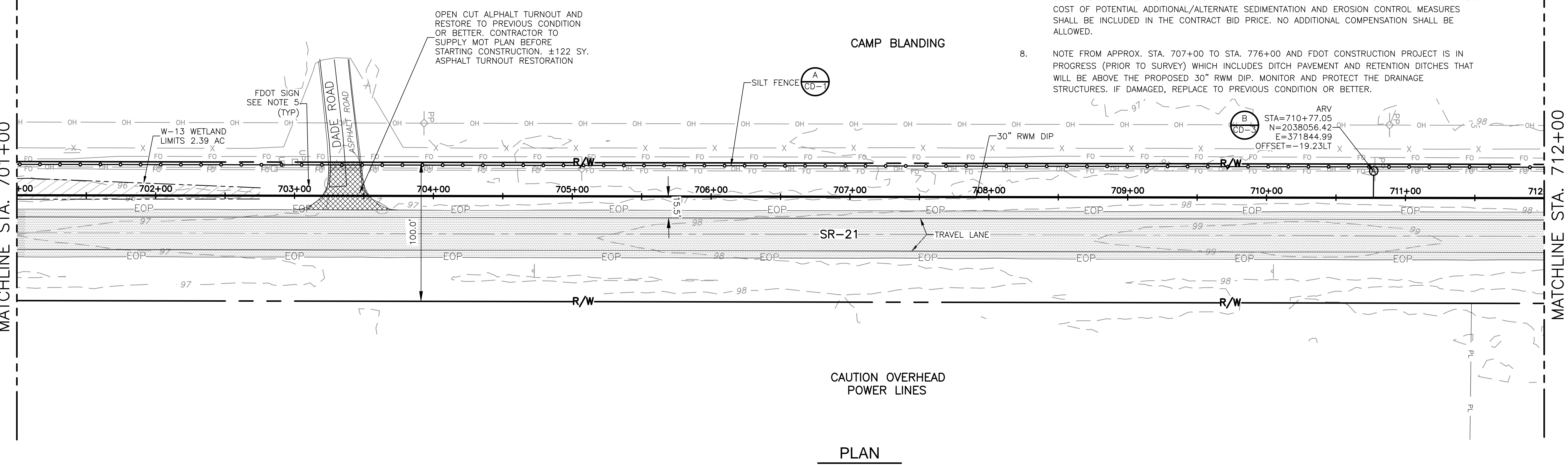
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PROJECT NO. 9247-221208
FILE NAME: C026STPL.DWG
SHEET NO. C-26

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 - NOTE FROM APPROX. STA. 707+00 TO STA. 776+00 AND FDOT CONSTRUCTION PROJECT IS IN PROGRESS (PRIOR TO SURVEY) WHICH INCLUDES DITCH PAVEMENT AND RETENTION DITCHES THAT WILL BE ABOVE THE PROPOSED 30" RWM DIP. MONITOR AND PROTECT THE DRAINAGE STRUCTURES. IF DAMAGED, REPLACE TO PREVIOUS CONDITION OR BETTER.

PLAN



PLAN

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN
 DRAWN BY: D. AUST
 SHEET CHK'D BY: G. CASHON
 CROSS CHK'D BY: C. TAPPAN
 APPROVED BY: _____
 DATE: JUNE 2022

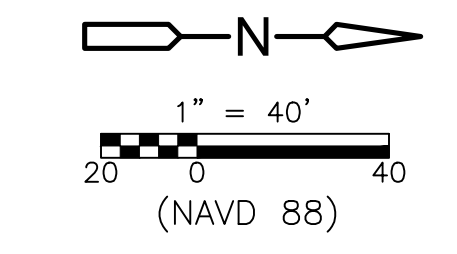
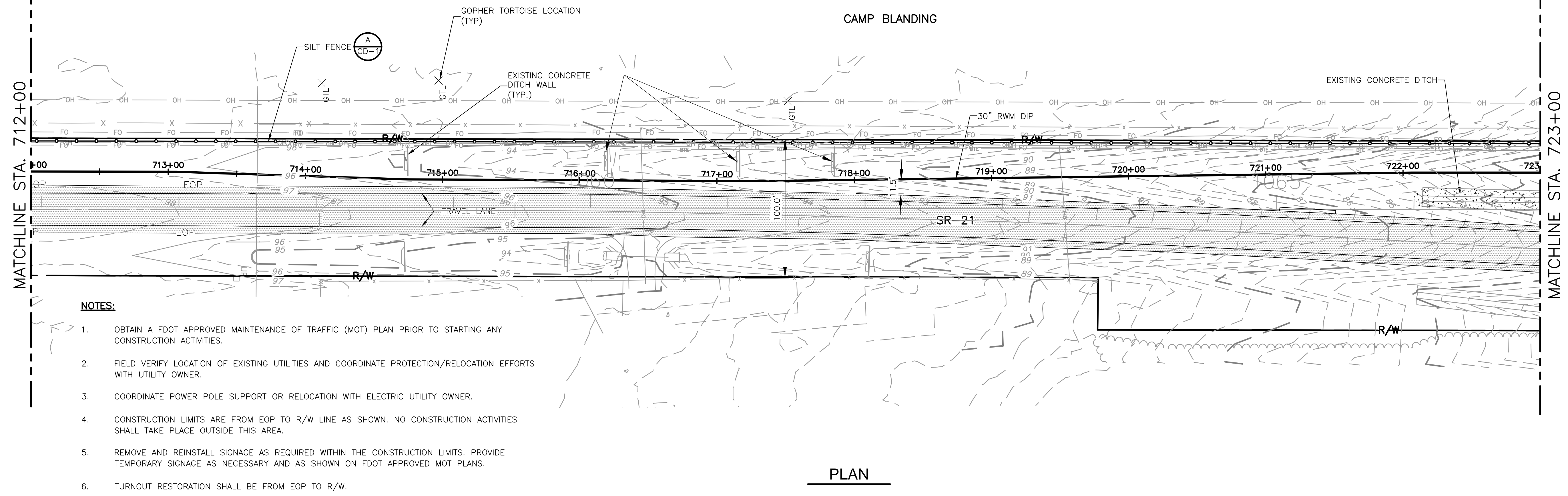
4651 Salisbury Road, Suite 420
 Jacksonville, FL 32256
 Tel: (904) 731-7109
 FL COA No. EB-0000020

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 21
 STA 690+00 TO STA 712+00

DATE: CLAY M TAPPAN
 PE NO. 42772
 PROJECT NO. 9247-221208
 FILE NAME: C0275TPL.DWG
 SHEET NO. C-27
 ISSUED FOR BID

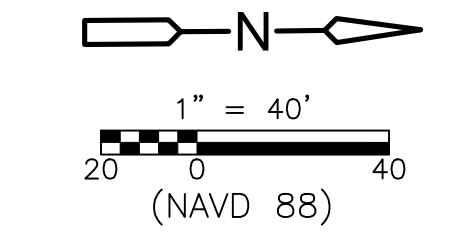
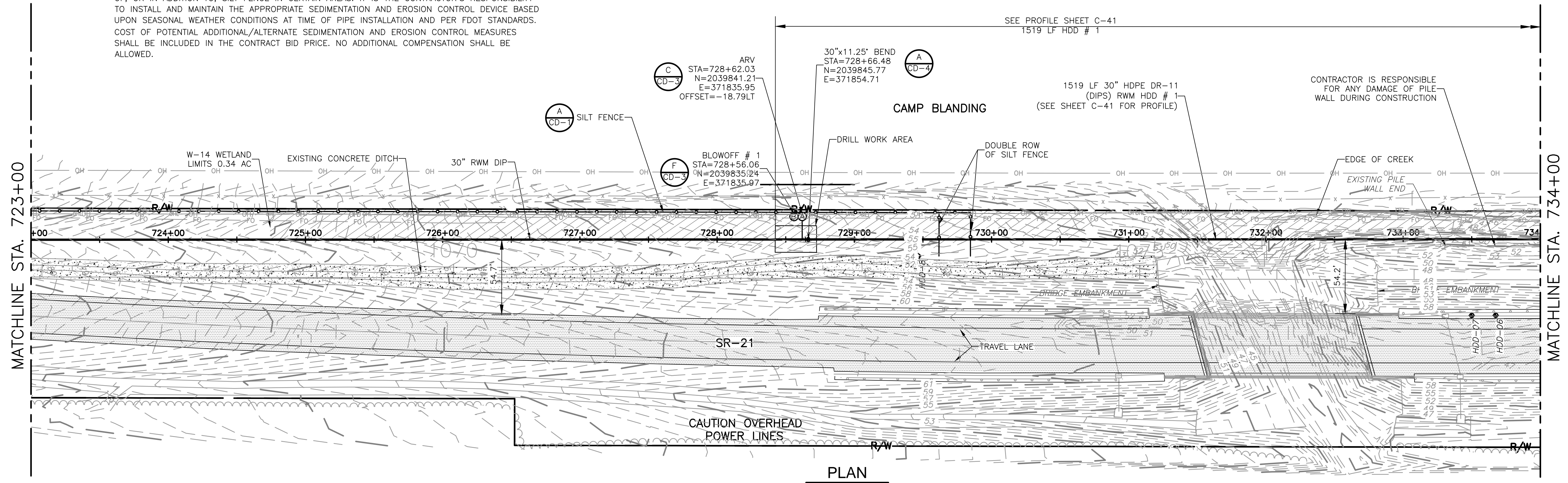
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PLAN



PLAN

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN
 DRAWN BY: D. AUST
 SHEET CHK'D BY: G. CASHON
 CROSS CHK'D BY: C. TAPPAN
 APPROVED BY: _____
 DATE: JUNE 2022

4651 Salisbury Road, Suite 420
 Jacksonville, FL 32256
 Tel: (904) 731-7109
 FL COA No. EB-000020

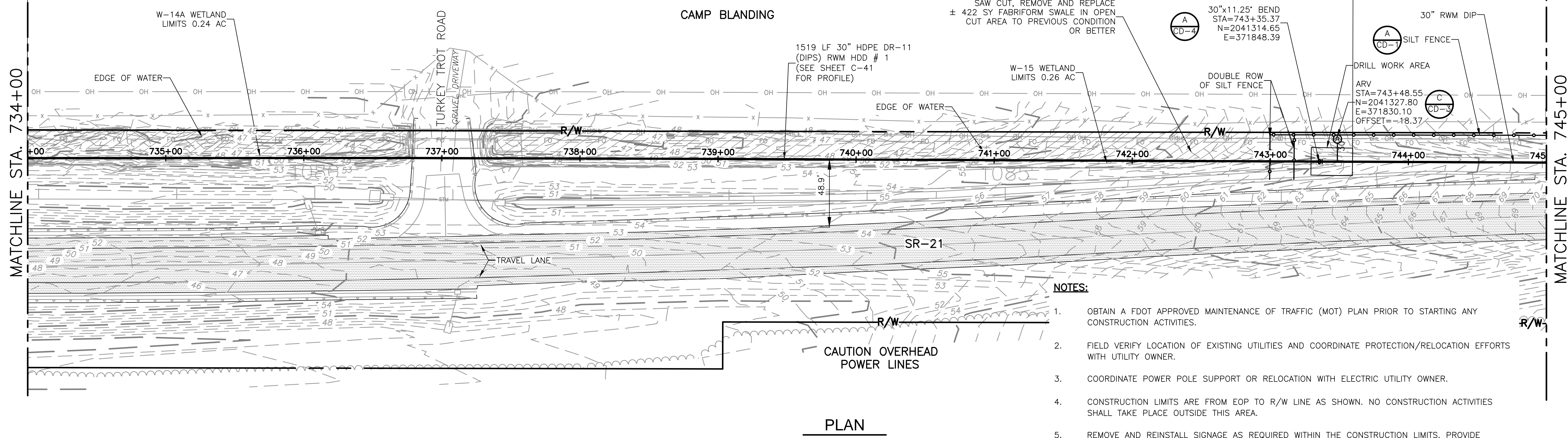
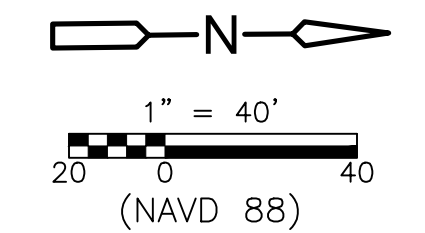
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 21
 STA 712+00 TO STA 734+00

DATE:	CLAY M TAPPAN
PE NO.:	42772
PROJECT NO.:	9247-221208
FILE NAME:	C028STPL.DWG
SHEET NO.:	C-28

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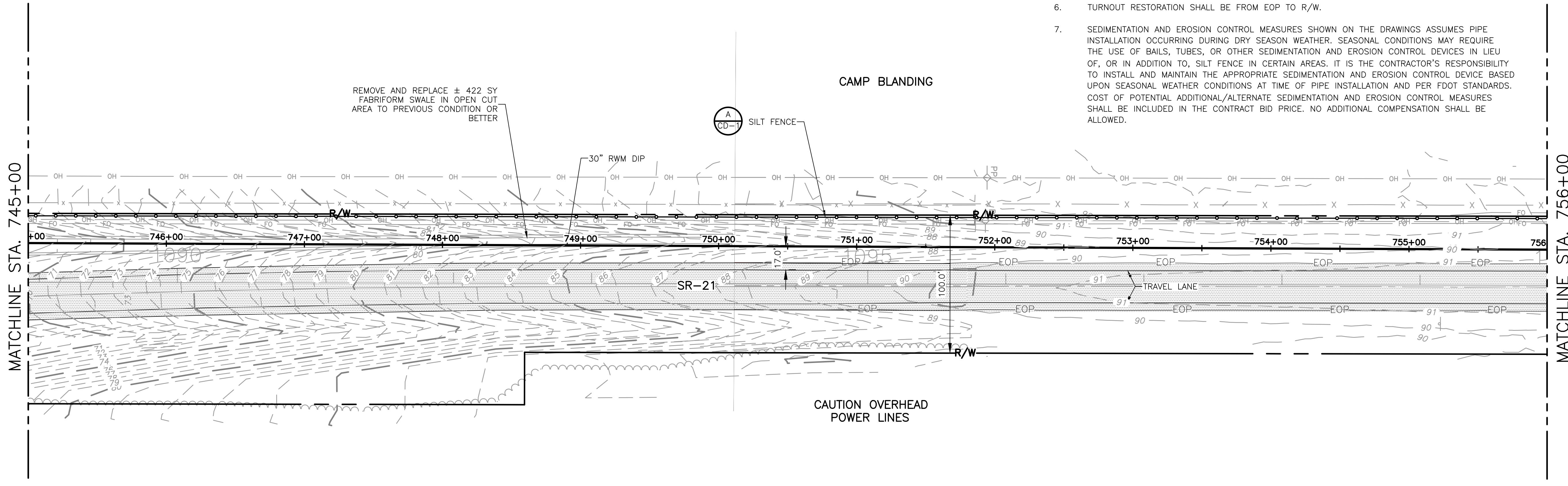
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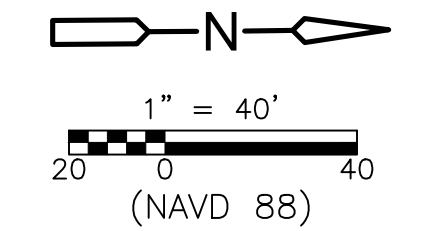
PLAN

NOTES:

1. OBTAIN A FDOT APPROVED MAINTENANCE OF TRAFFIC (MOT) PLAN PRIOR TO STARTING ANY CONSTRUCTION ACTIVITIES.
2. FIELD VERIFY LOCATION OF EXISTING UTILITIES AND COORDINATE PROTECTION/RELOCATION EFFORTS WITH UTILITY OWNER.
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PLAN



REV. NO.	DATE	DRWN	CHKD	REMARKS

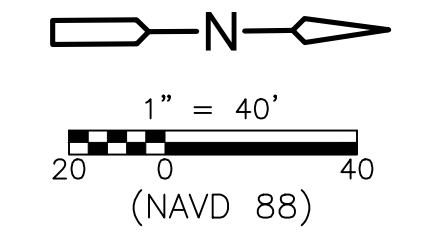
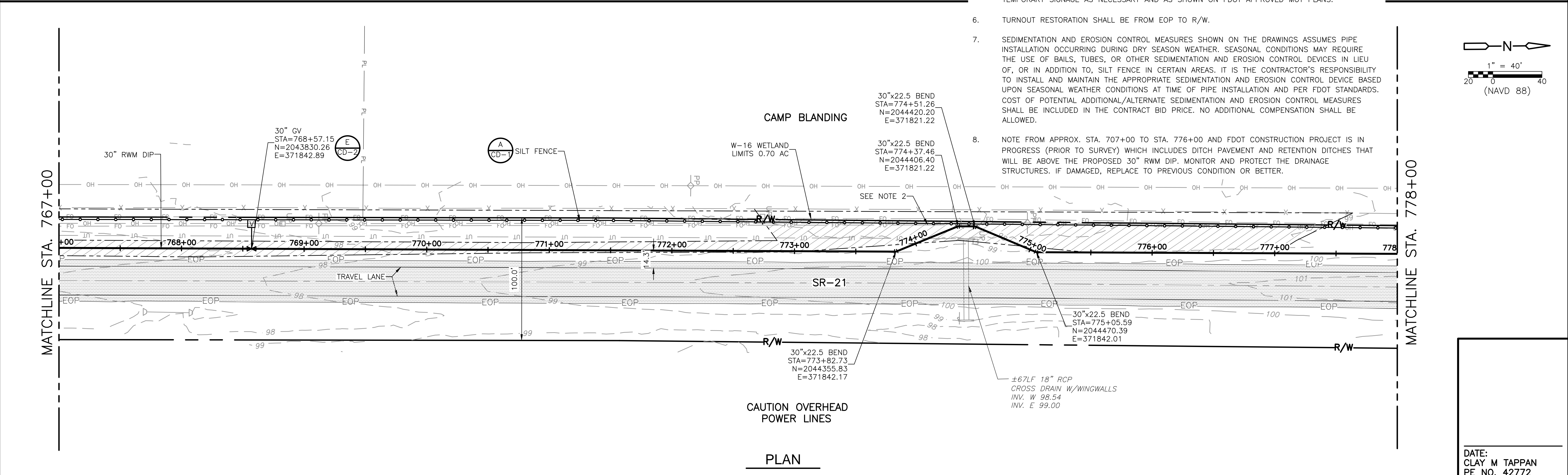
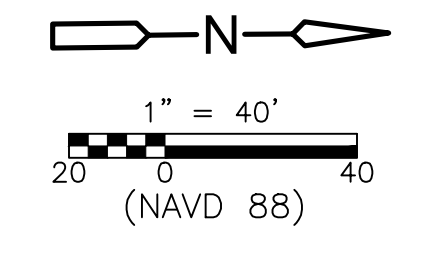
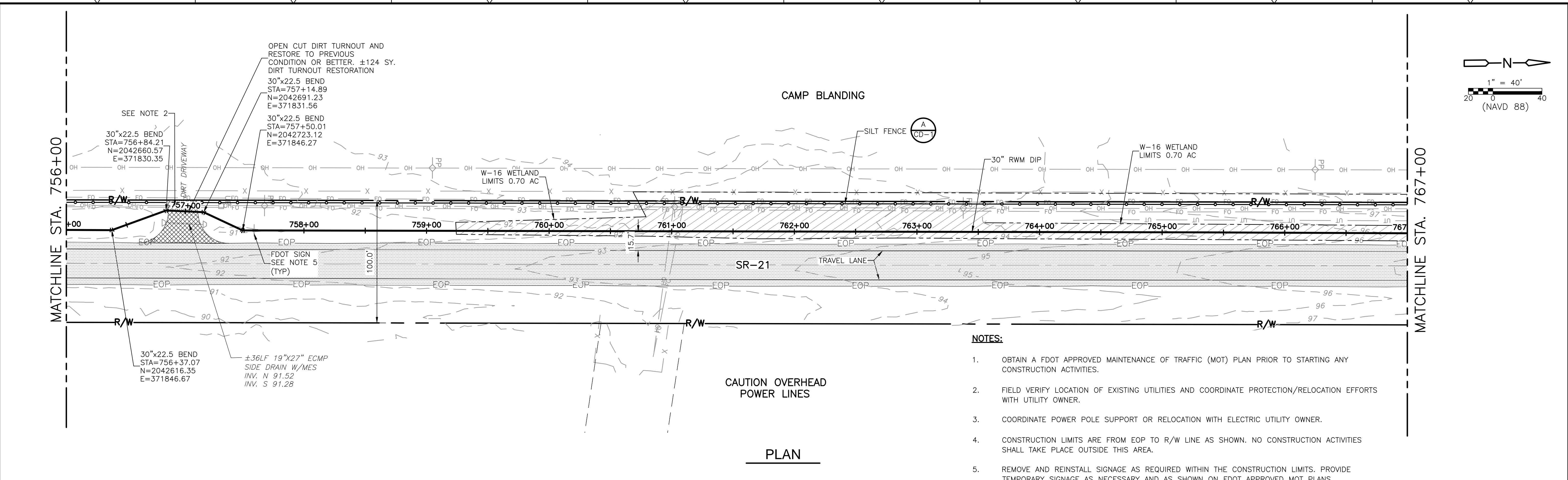
DESIGNED BY: C. TAPPAN	 4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-0000020
DRAWN BY: D. AUST	
SHEET CHK'D BY: G. CASHON	
CROSS CHK'D BY: C. TAPPAN	
APPROVED BY: _____	
DATE: JUNE 2022	

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 21
 STA 734+00 TO STA 756+00

DATE: CLAY M TAPPAN PE NO. 42772
PROJECT NO. 9247-221208 FILE NAME: C029STPL.DWG
SHEET NO. C-29

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 - NOTE FROM APPROX. STA. 707+00 TO STA. 776+00 AND FDOT CONSTRUCTION PROJECT IS IN PROGRESS (PRIOR TO SURVEY) WHICH INCLUDES DITCH PAVEMENT AND RETENTION DITCHES THAT WILL BE ABOVE THE PROPOSED 30" RWM DIP. MONITOR AND PROTECT THE DRAINAGE STRUCTURES. IF DAMAGED, REPLACE TO PREVIOUS CONDITION OR BETTER.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN	<p>4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-0000020</p>
DRAWN BY: D. AUST	
SHEET CHK'D BY: G. CASHON	
CROSS CHK'D BY: C. TAPPAN	
APPROVED BY: _____	
DATE: JUNE 2022	

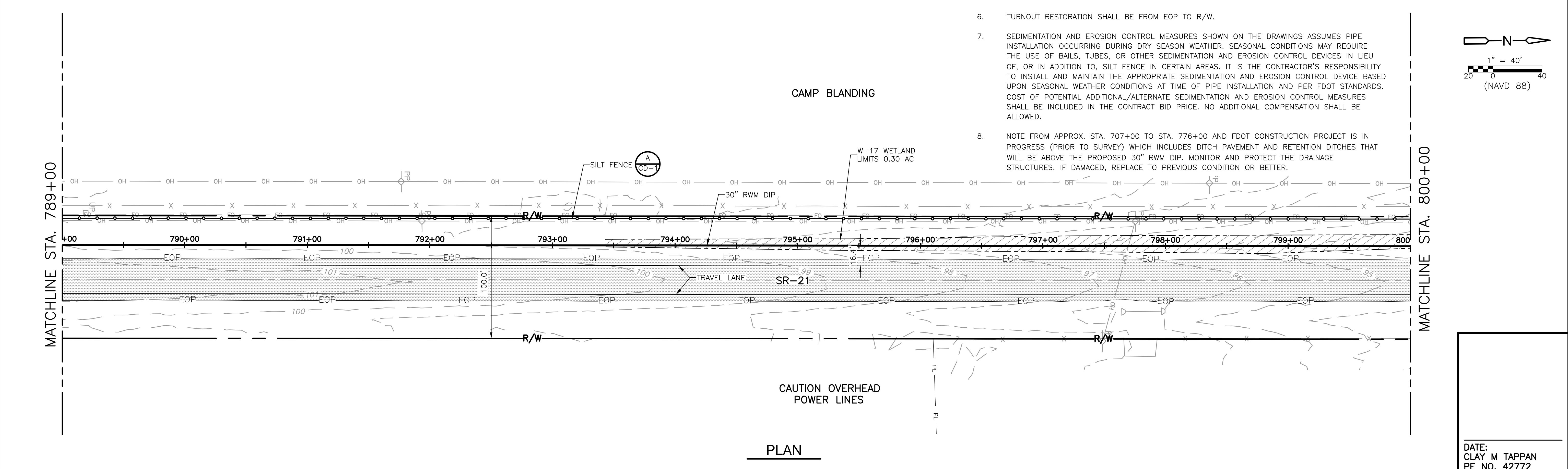
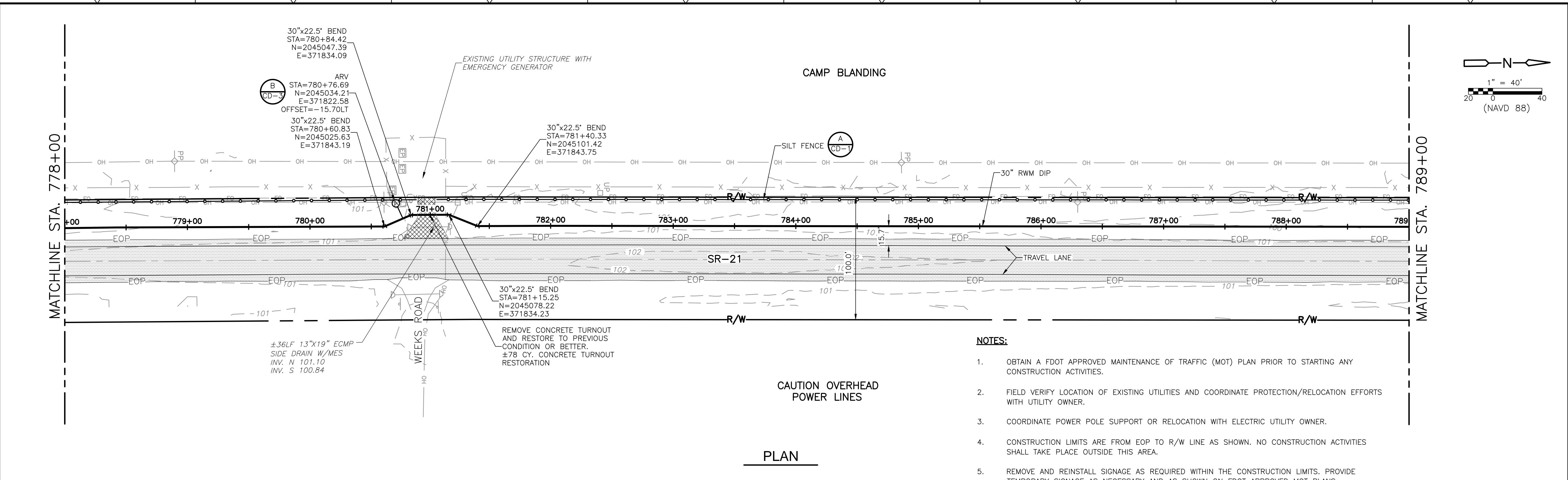
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 21
 STA 756+00 TO STA 778+00

PROJECT NO. 9247-221208
FILE NAME: C030STPL.DWG
SHEET NO. C-30

ISSUED FOR BID

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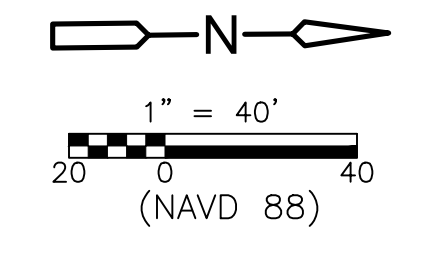
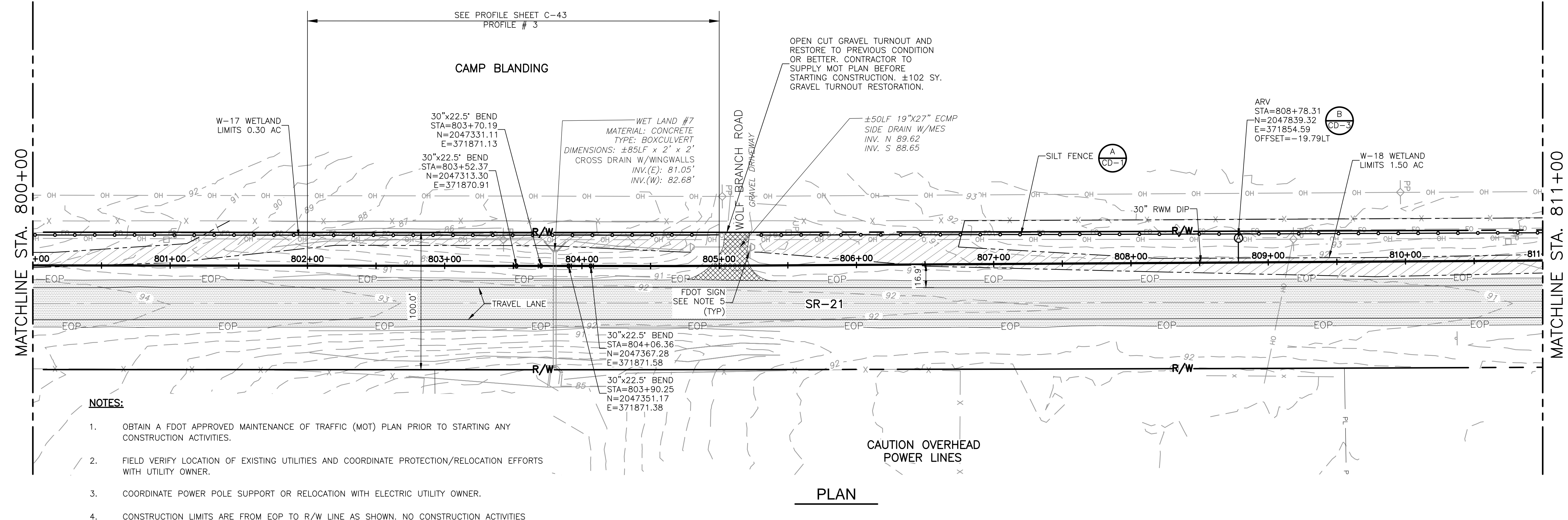
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN	 <small>4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-0000020</small>
DRAWN BY: D. AUST	
SHEET CHK'D BY: G. CASHON	
CROSS CHK'D BY: C. TAPPAN	
APPROVED BY: _____	
DATE: JUNE 2022	

**ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN**

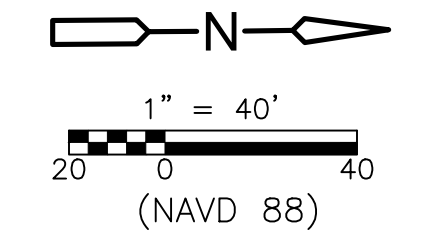
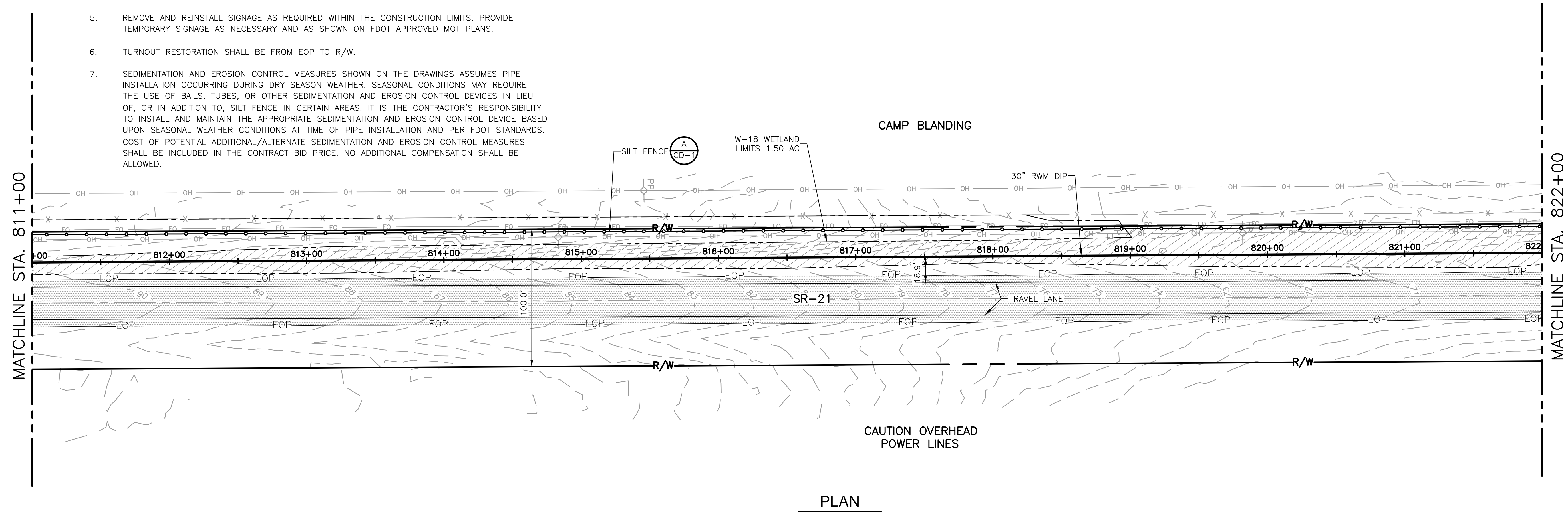
STATE ROAD 21 STA 778+00 TO STA 800+00	DATE: CLAY M TAPPAN PE NO. 42772
PROJECT NO. 9247-221208	FILE NAME: C031STPL.DWG
SHEET NO.	C-31

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NOTES:

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN	 4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-000020
DRAWN BY: D. AUST	
SHEET CHK'D BY: G. CASHON	
CROSS CHK'D BY: C. TAPPAN	
APPROVED BY: _____	
DATE: JUNE 2022	

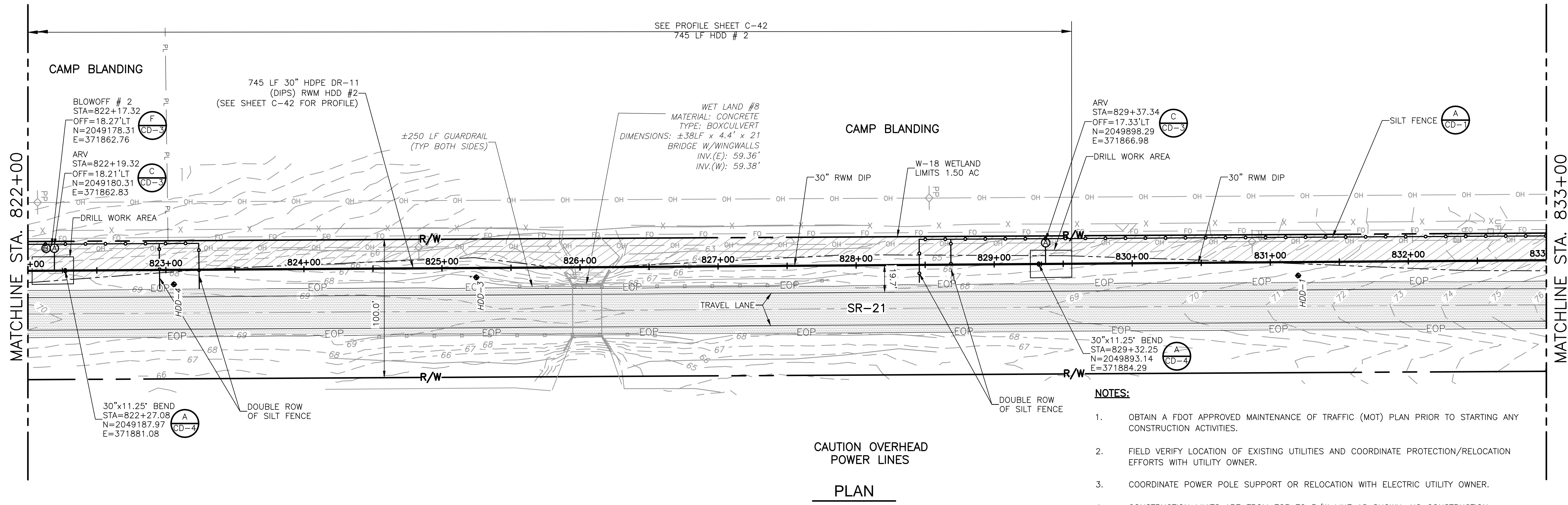
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 21
 STA 800+00 TO STA 822+00

SHEET NO.
C-32

DATE: CLAY M TAPPAN PE NO. 42772
PROJECT NO. 9247-221208 FILE NAME: C032STPL.DWG
SHEET NO. C-32

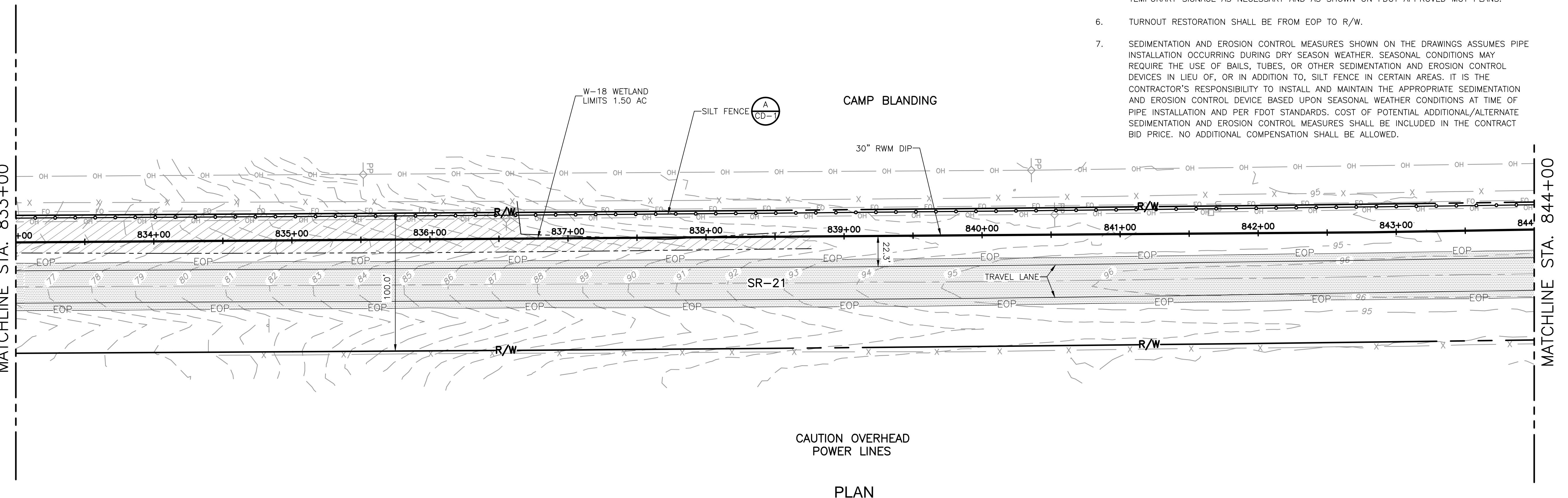
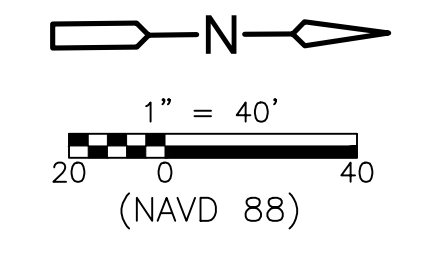
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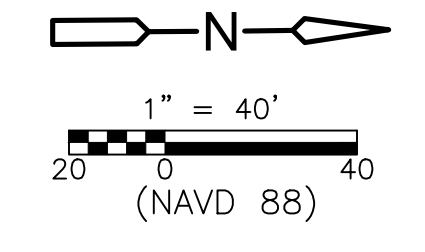
CAUTION OVERHEAD
POWER LINES
PLAN

NOTES:

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CAUTION OVERHEAD
POWER LINES
PLAN



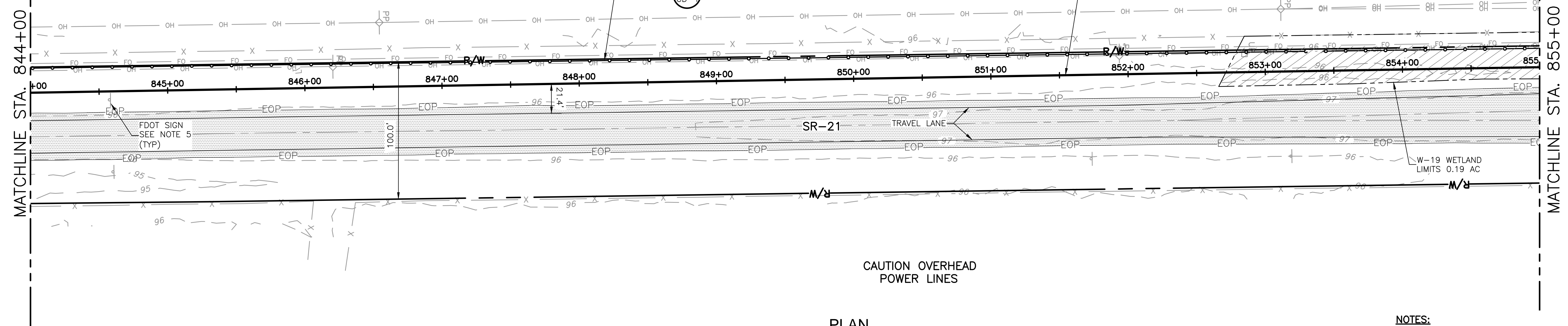
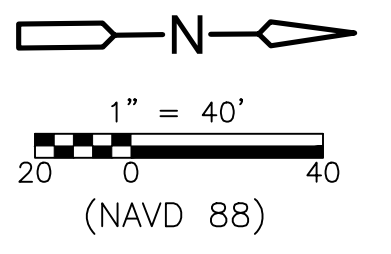
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN	<p>4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-0000020</p>
DRAWN BY: D. AUST	
SHEET CHK'D BY: G. CASHON	
CROSS CHK'D BY: C. TAPPAN	
APPROVED BY: _____	
DATE: JUNE 2022	

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
LOWER ST. JOHNS RIVER BASIN
BLACK CREEK WATER RESOURCE
DEVELOPMENT PROJECT
30" RAW WATER TRANSMISSION MAIN

STATE ROAD 21
STA 822+00 TO STA 844+00

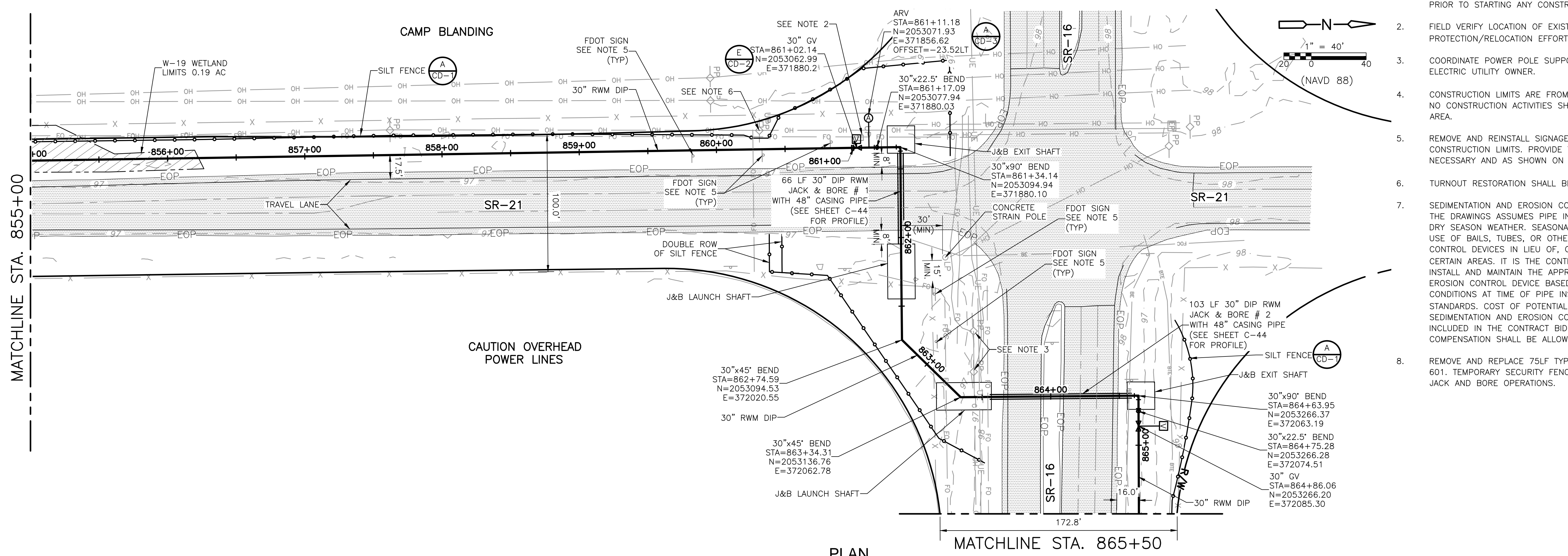
DATE: CLAY M TAPPAN PE NO. 42772
PROJECT NO. 9247-221208 FILE NAME: C033STPL.DWG
SHEET NO. C-33



PLAN

NOTES:

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- REMOVE AND REPLACE 75LF TYPE A FENCE PER FDOT INDEX 601. TEMPORARY SECURITY FENCE SHALL BE INSTALLED DURING JACK AND BORE OPERATIONS.



PLAN

XREFS: [CDMS_2234; CEP001SS; CEP002SS; CEP004SS; Wetland_snd_Points; CEP0000SS; CWP0000ST] Images: []
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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN
 DRAWN BY: D. AUST
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 APPROVED BY: _____
 DATE: JUNE 2022

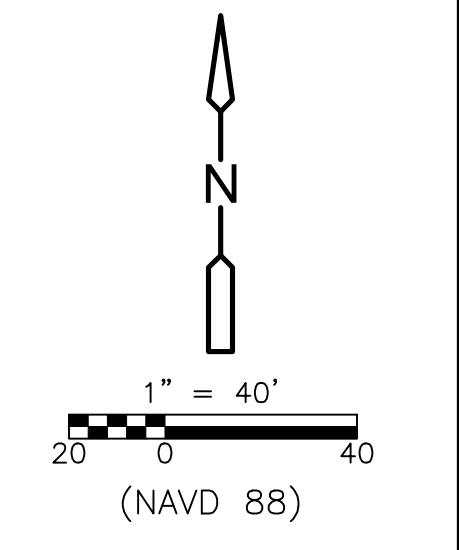
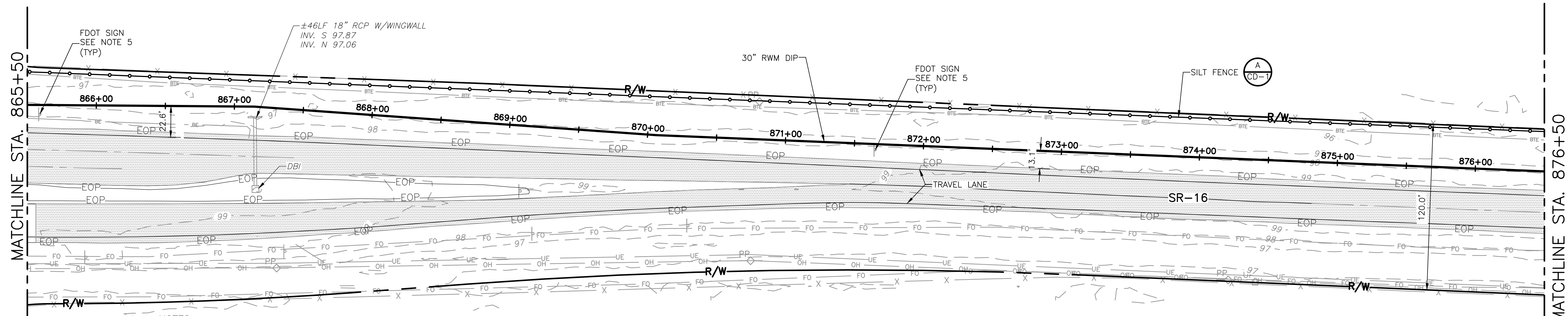


ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 21/ STATE ROAD 16
 STA 844+00 TO STA 865+50

DATE: CLAY M TAPPAN
 PE NO. 42772
 PROJECT NO. 9247-221208
 FILE NAME: CO34STPP.DWG
 SHEET NO. C-34
 ISSUED FOR BID

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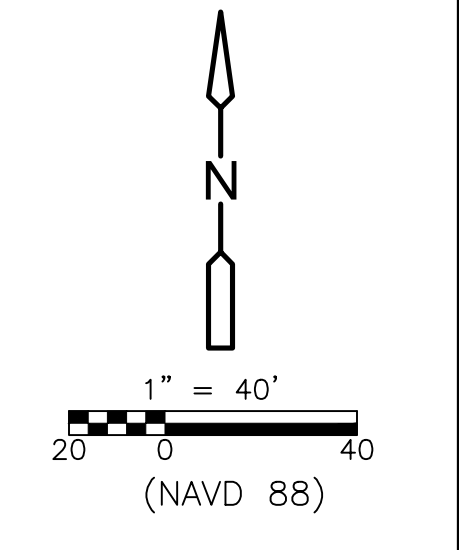
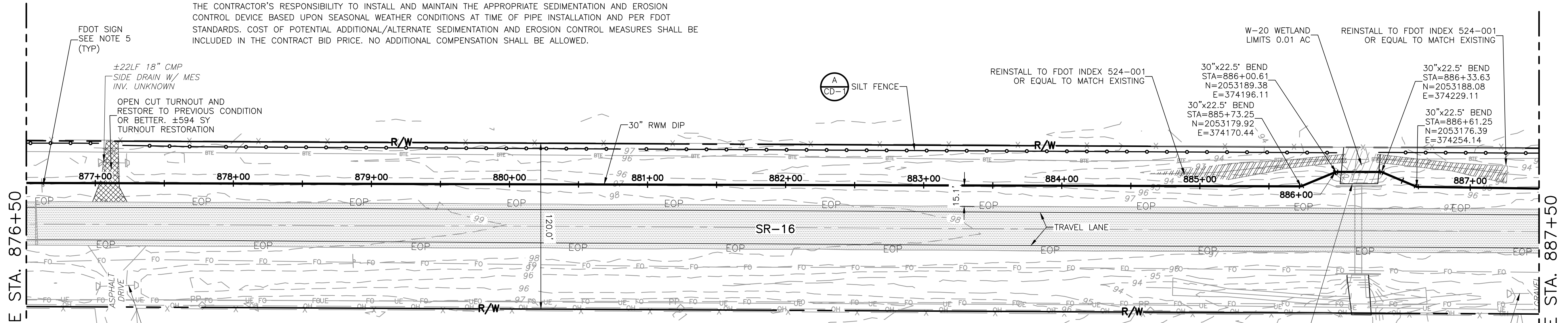


NOTES:

1. OBTAIN A FDOT APPROVED MAINTENANCE OF TRAFFIC (MOT) PLAN PRIOR TO STARTING ANY CONSTRUCTION ACTIVITIES.
2. FIELD VERIFY LOCATION OF EXISTING UTILITIES AND COORDINATE PROTECTION/RELOCATION EFFORTS WITH UTILITY OWNER.
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CAUTION OVERHEAD POWER LINES

PLAN



CAUTION OVERHEAD POWER LINES

PLAN

REV. NO.	DATE	DRWN	CHKD	REMARKS

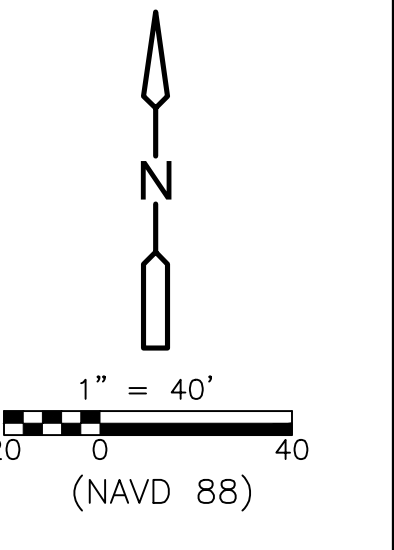
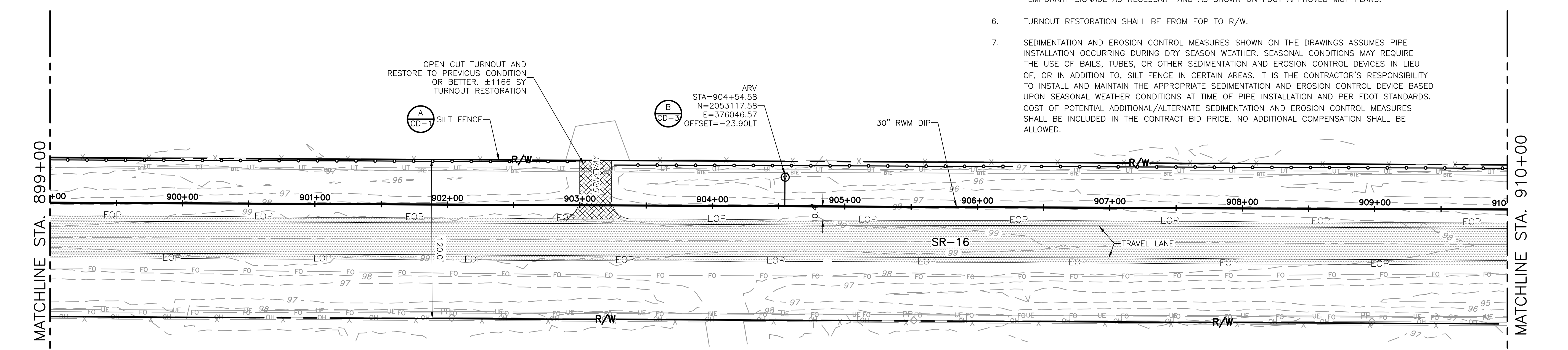
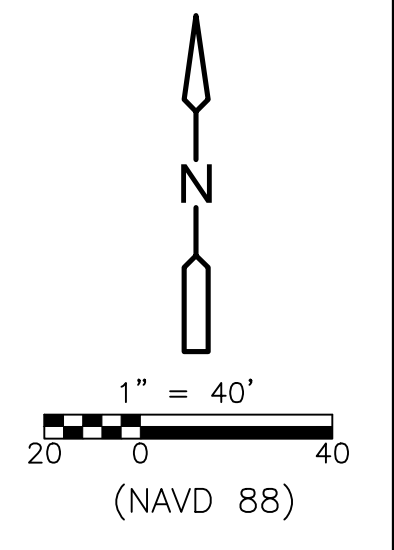
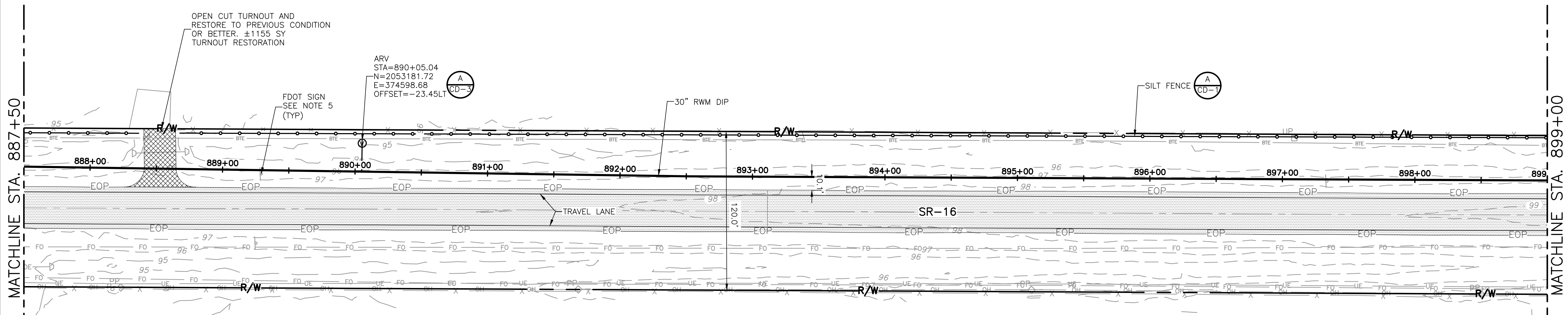
DESIGNED BY: C. TAPPAN	<p>4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-0000020</p>
DRAWN BY: D. AUST	
SHEET CHK'D BY: G. CASHON	
CROSS CHK'D BY: C. TAPPAN	
APPROVED BY: _____	
DATE: JUNE 2022	

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 16
 STA 865+50 TO STA 887+50
 C-35

DATE: CLAY M TAPPAN PE NO. 42772
PROJECT NO. 9247-221208 FILE NAME: C035STPL.DWG
SHEET NO. C-35

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN
 DRAWN BY: D. AUST
 SHEET CHK'D BY: G. CASHON
 CROSS CHK'D BY: C. TAPPAN
 APPROVED BY: _____
 DATE: JUNE 2022

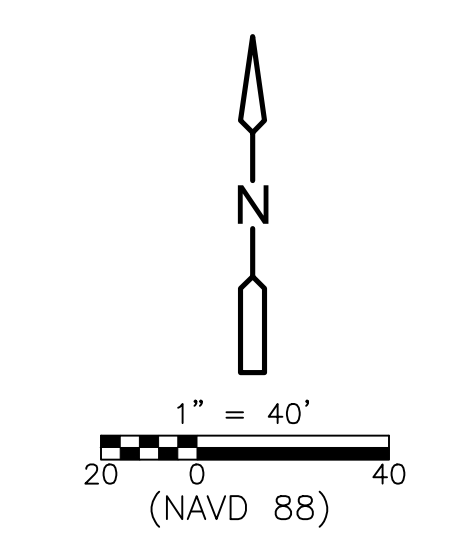
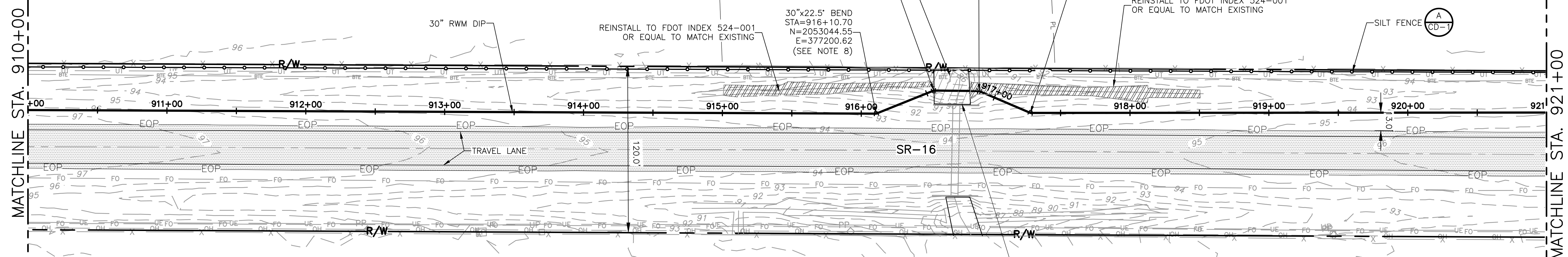


ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 16
 STA 887+50 TO STA 910+00

DATE: CLAY M TAPPAN
 PE NO. 42772
 PROJECT NO. 9247-221208
 FILE NAME: C0365TPL.DWG
 SHEET NO. C-36

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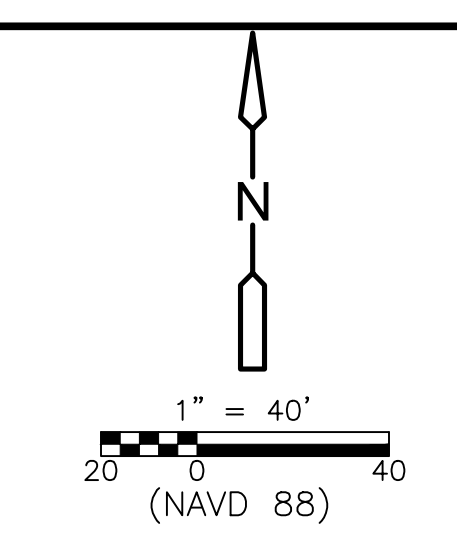
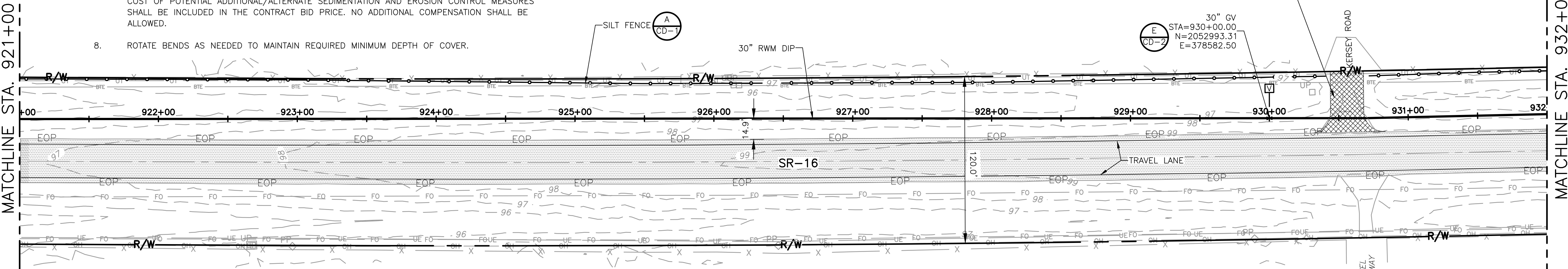
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8. ROTATE BENDS AS NEEDED TO MAINTAIN REQUIRED MINIMUM DEPTH OF COVER.

CAUTION OVERHEAD POWER LINES

WET LAND #10
 MATERIAL: CONCRETE
 TYPE: BOXCULVERT
 DIMENSIONS: ±84LF x 6' x 5'
 CROSS DRAIN W/WINGWALLS
 INV.(N): 84.41'
 INV.(S): 84.27'

PLAN



CAUTION OVERHEAD POWER LINES

PLAN

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN
 DRAWN BY: D. AUST
 SHEET CHK'D BY: G. CASHON
 CROSS CHK'D BY: C. TAPPAN
 APPROVED BY: _____
 DATE: JUNE 2022

4651 Salisbury Road, Suite 420
 Jacksonville, FL 32256
 Tel: (904) 731-7109
 FL COA No. EB-0000020

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

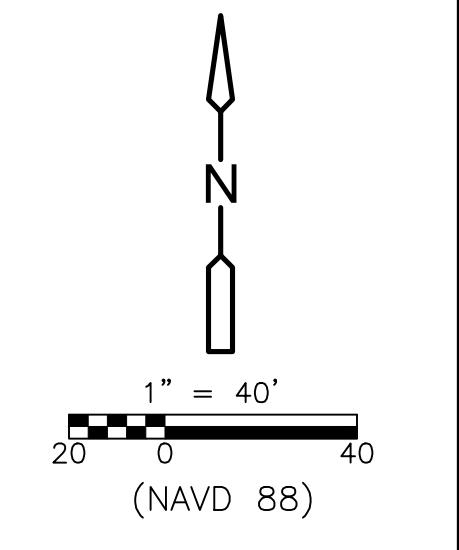
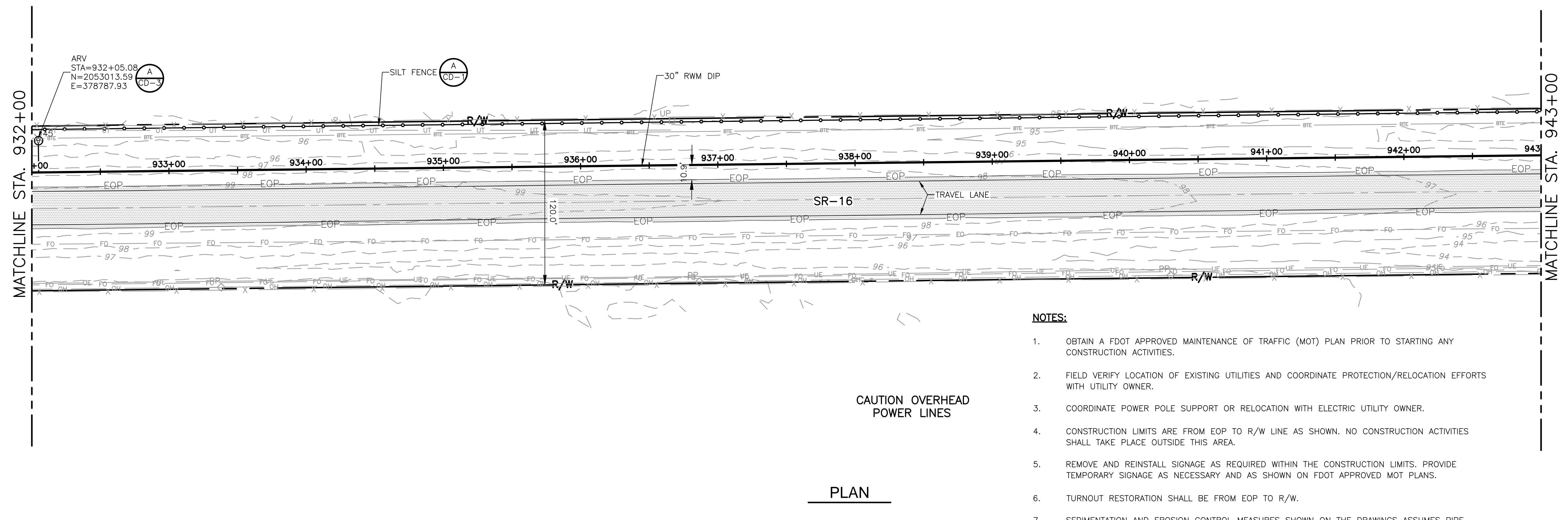
STATE ROAD 16
 STA 910+00 TO STA 932+00

PROJECT NO. 9247-221208
 FILE NAME: C0375TPL.DWG
 SHEET NO. C-37

DATE: CLAY M TAPPAN
 PE NO. 42772

ISSUED FOR BID

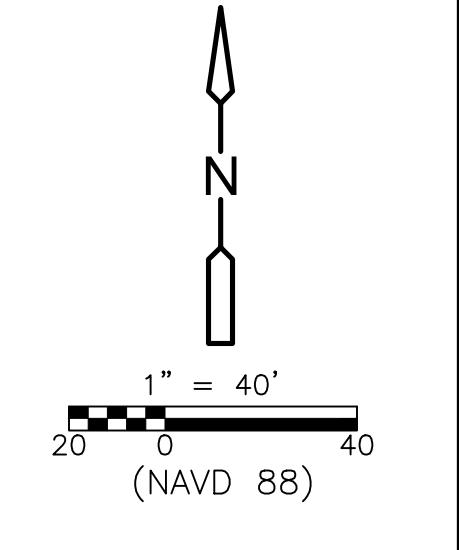
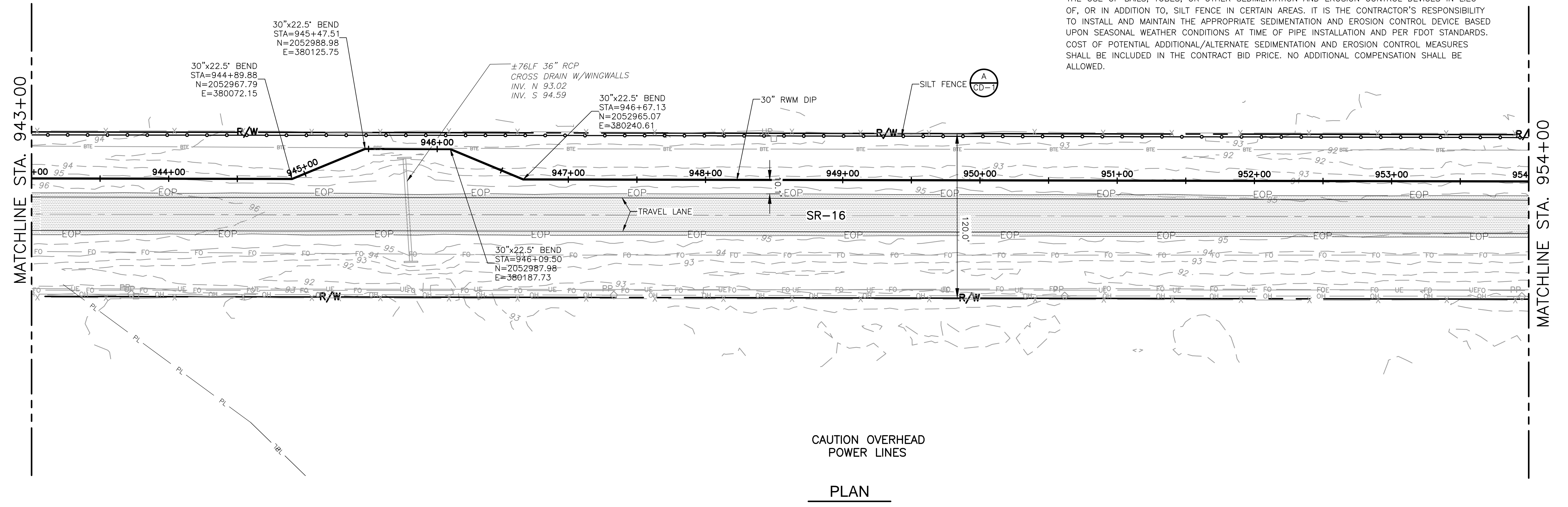
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CAUTION OVERHEAD POWER LINES

PLAN



CAUTION OVERHEAD POWER LINES

PLAN

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN	<p>4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-000020</p>
DRAWN BY: D. AUST	
SHEET CHK'D BY: G. CASHON	
CROSS CHK'D BY: C. TAPPAN	
APPROVED BY: _____	
DATE: JUNE 2022	

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 16
 STA 932+00 TO STA 954+00

DATE: CLAY M TAPPAN
 PE NO. 42772

PROJECT NO. 9247-221208
 FILE NAME: C038STPL.DWG

SHEET NO. C-38

ISSUED FOR BID

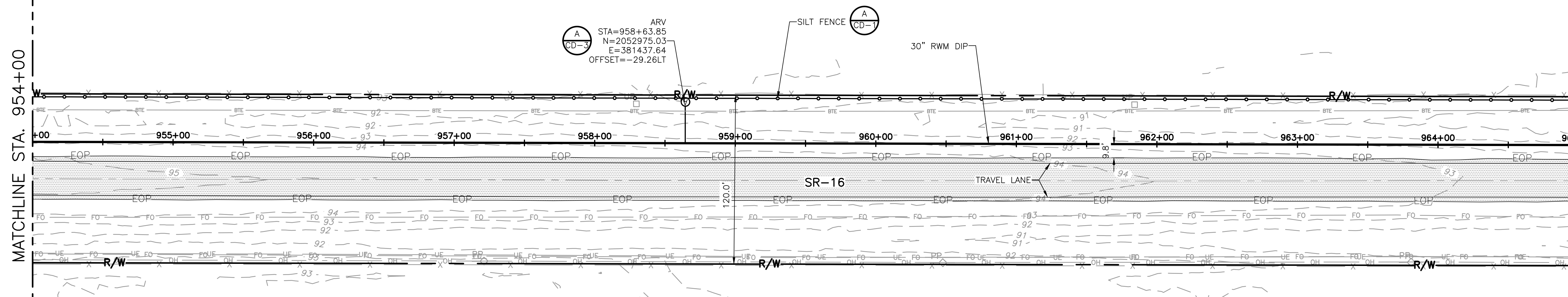
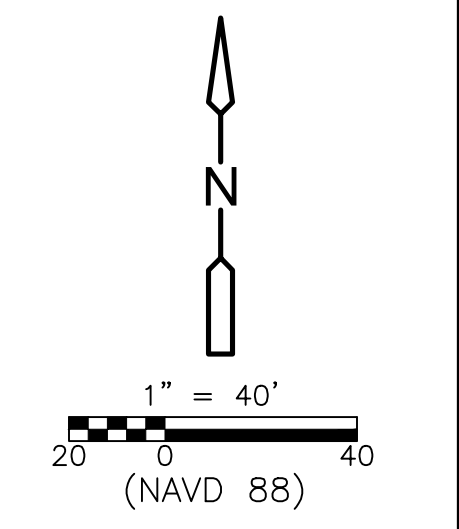
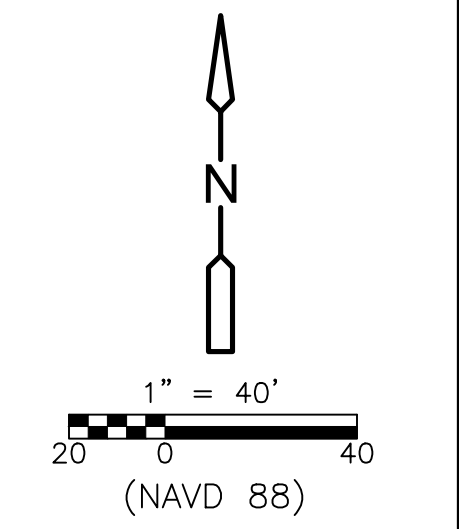
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MATCHLINE STA. 954+00

MATCHLINE STA. 965+00

MATCHLINE STA. 965+00

MATCHLINE STA. 976+00

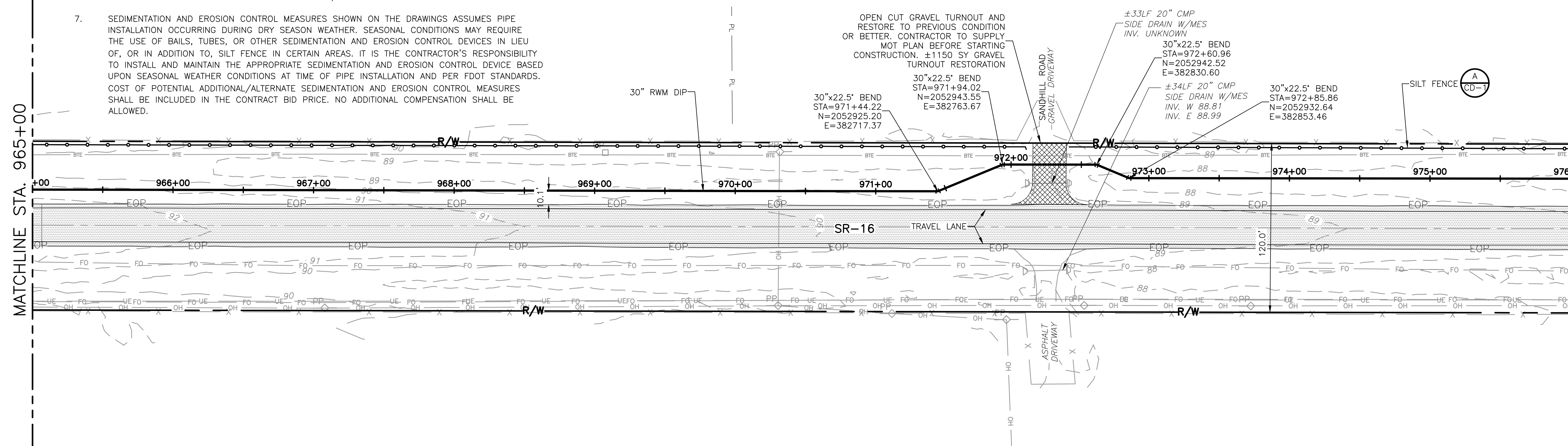


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CAUTION OVERHEAD POWER LINES

PLAN



CAUTION OVERHEAD POWER LINES

PLAN

REV. NO.	DATE	DRWN	CHKD	REMARKS

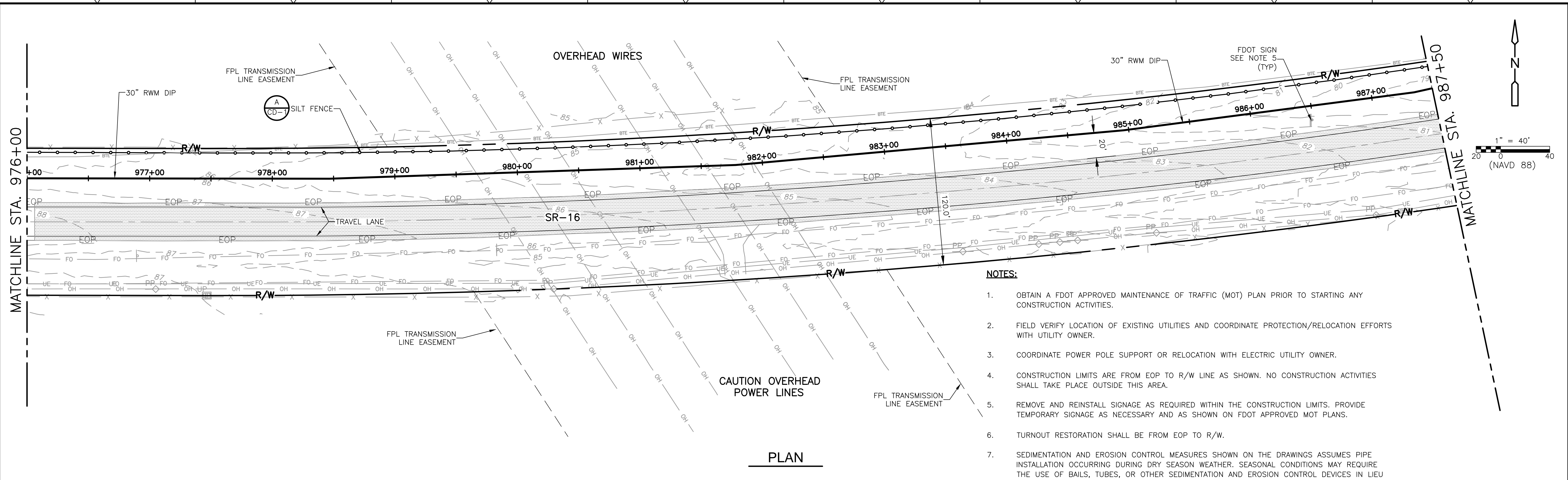
DESIGNED BY: C. TAPPAN	<p>4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-000020</p>
DRAWN BY: D. AUST	
SHEET CHK'D BY: G. CASHON	
CROSS CHK'D BY: C. TAPPAN	
APPROVED BY: _____	
DATE: JUNE 2022	

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

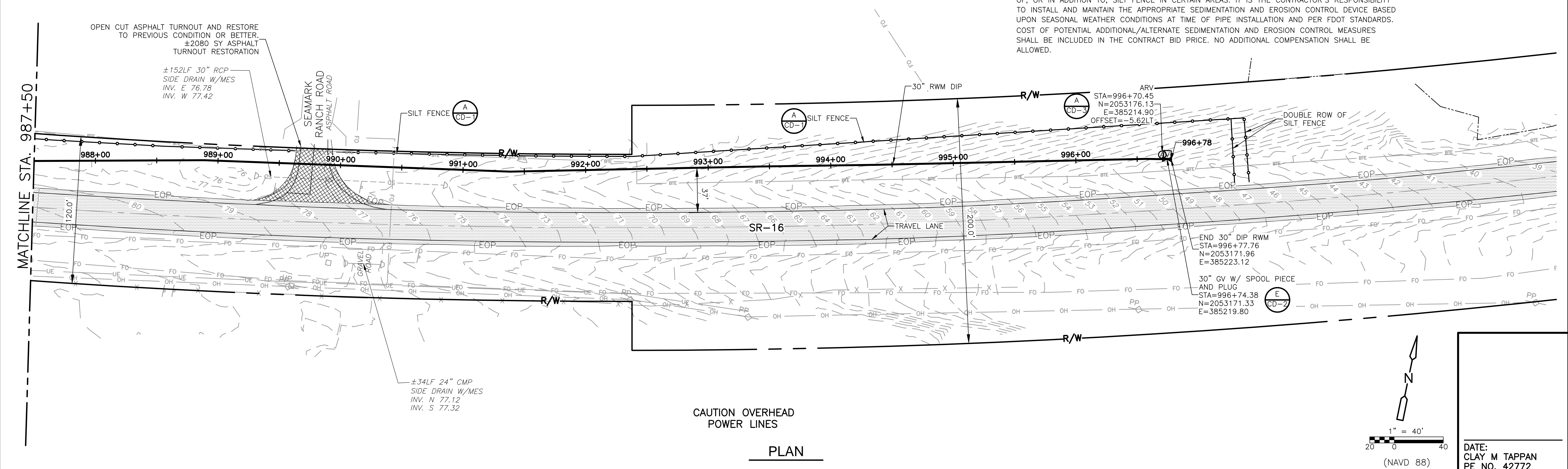
STATE ROAD 16
 STA 954+00 TO STA 976+00

DATE: CLAY M TAPPAN PE NO. 42772
PROJECT NO. 9247-221208 FILE NAME: C039STPL.DWG
SHEET NO. C-39

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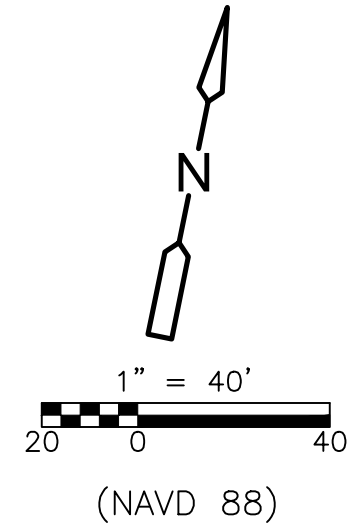
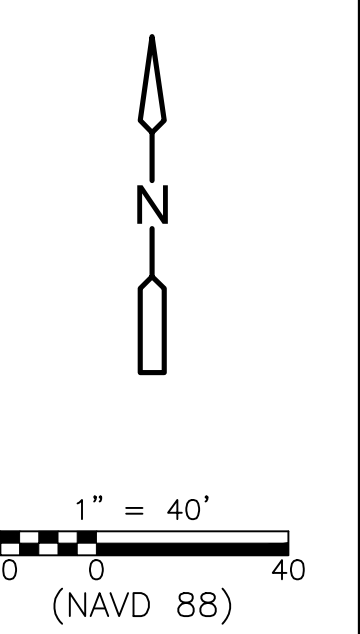
REV. NO.	DATE	DRWN	CHKD	REMARKS

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APPROVED BY: _____
DATE: JUNE 2022

CDM Smith
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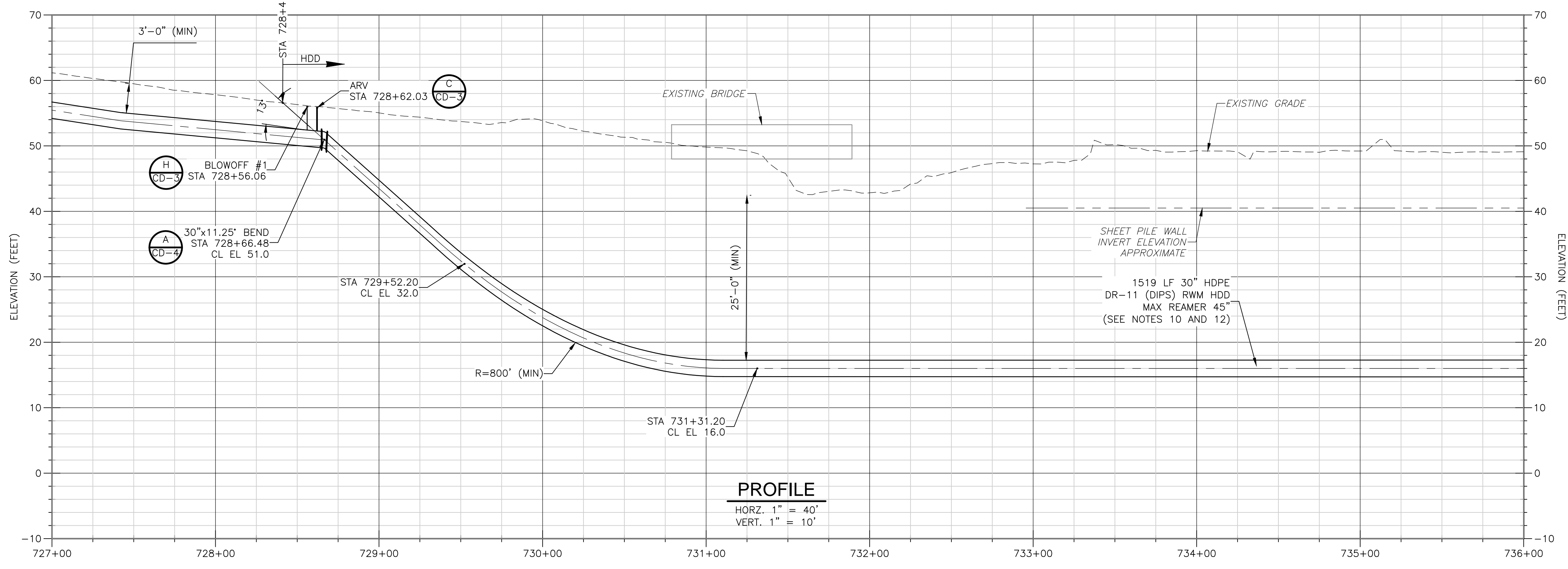
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
**BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT**
30" RAW WATER TRANSMISSION MAIN

DATE: CLAY M TAPPAN PE NO. 42772
PROJECT NO. 9247-221208 FILE NAME: C040STPL.DWG
SHEET NO. C-40

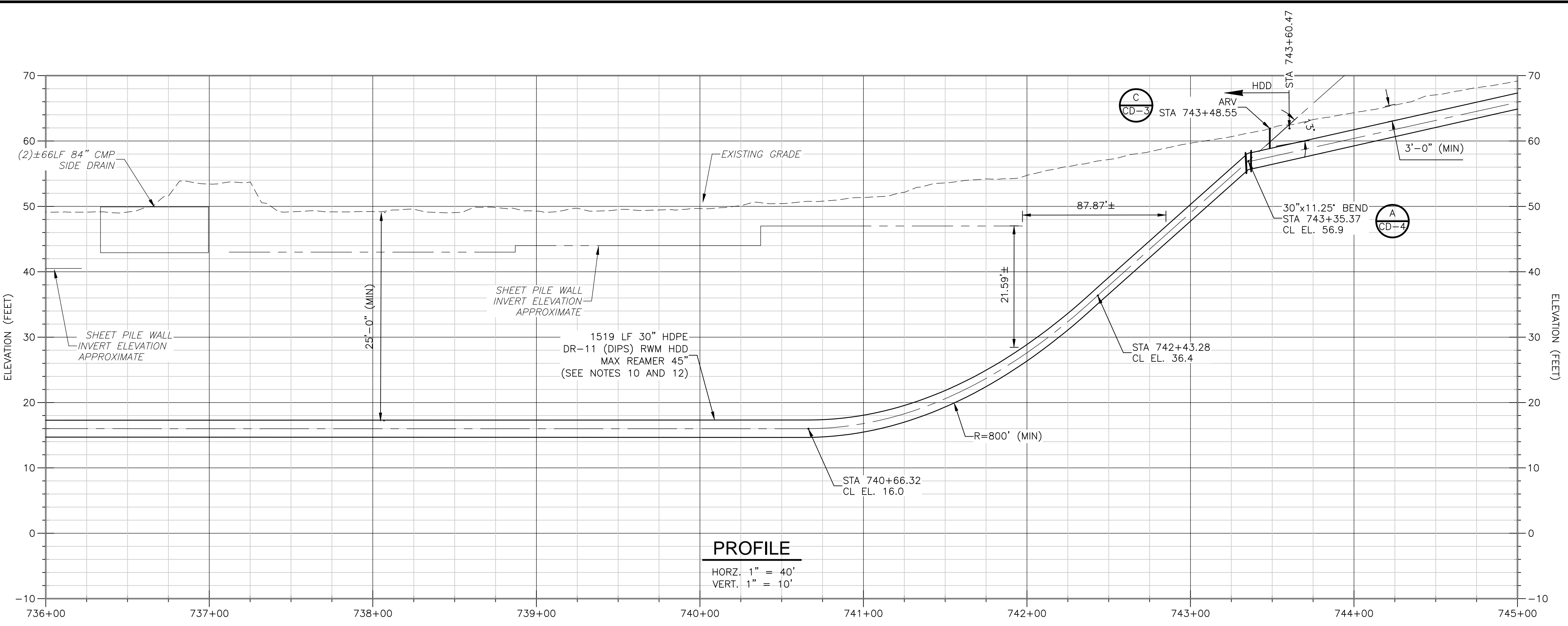
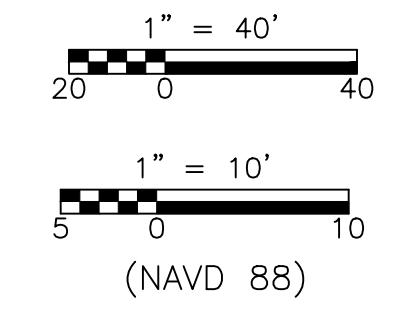


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- NOTES:**
- AIR RELEASE VALVES SHALL BE OFFSET TO BE LOCATED AT EDGE OF FDOT RIGHT OF WAY FURTHEST FROM THE ROADWAY. FINAL LOCATION TO BE COORDINATED WITH OWNER/ ENGINEER.
 - CONTRACTOR SHALL COMPLY WITH FDOT 2017 UTILITY ACCOMMODATION MANUAL. REQUIREMENTS FOR ALL WORK WITHIN FDOT RIGHT OF WAY.
 - THE CONTRACTOR SHALL REVIEW THE GEOTECHNICAL BORING INFORMATION (SEE THE GEOTECHNICAL DATA REPORT DATED MAY 31, 2018, PREPARED BY CDMSmith, INC.) PRIOR TO THE SELECTIONS OF TOOLS/EQUIPMENT FOR DRILLING THE PILOT HOLE AND REAMING.
 - THE CONTRACTOR SHALL BE AWARE THAT A POTENTIAL CONDITION EXISTS FOR A FRAC-OUT IN THE VICINITY OF THE HDD ENTRY AND EXIT AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHOOSING MEANS AND METHODS IN ORDER TO AVOID/MITIGATE SUCH AT/OR IN THE VICINITY OF THE HDD ENTRY AND EXIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY PERMITS REQUIRED BASED UPON THEIR MEANS AND METHODS.
 - THE CONTRACTOR SHALL ELECT TO INSTALL CONDUCTOR CASING AT HDD ENTRY TO FACILITATE HDD OPERATION AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING THE REQUIRED CASING DIAMETER AND THE LENGTH BASED ON HIS/HER MEANS AND METHODS.
 - THE CONTRACTOR SHALL SUBMIT A PLAN THAT PROVIDES DETAILS ON MEASURES TO BE TAKEN TO MONITOR AND PROTECT ADJACENT UTILITIES, STRUCTURES, ROADWAYS AND SIDEWALKS. INCLUDED IN THIS PLAN SHOULD BE DETAILS ON MONITORING EQUIPMENT AND PROVISIONS, INCLUDING THE LAYOUT OF ALL SETTLEMENT MONITORING AND OTHER MONITORING POINTS, A PRE-CONSTRUCTION SURVEY OF ADJACENT UTILITIES, STRUCTURES, ROADWAYS AND SIDEWALKS, AND PHOTOGRAPHS WITH CAPTIONS TO DOCUMENT PRE-CONSTRUCTION CONDITIONS PRIOR TO COMMENCING HDD OPERATIONS.
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 - CROSSING LENGTH AND DRILLED PATH STATIONING ARE MEASURED IN FEET BY PLAN LENGTHS. THE CONTRACTOR MUST TAKE INTO ACCOUNT VERTICAL PIPE RUNS AND BENDING RADII WHEN CALCULATING PIPE LENGTH QUANTITIES.
 - ELEVATIONS SHOWN ARE IN FEET AND REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) DATUM.
 - MAXIMUM REAMER SIZE SHALL BE 1.5 TIMES THE OD OF THE CARRIER PIPE. IF CONTRACTOR DETERMINES A LARGER REAMER IS REQUIRED, APPROVAL SHALL BE REQUESTED PRIOR TO MOBILIZING DRILLING EQUIPMENT.



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN
 DRAWN BY: D. AUST
 SHEET CHK'D BY: G. CASHON
 CROSS CHK'D BY: C. TAPPAN
 APPROVED BY: _____
 DATE: JUNE 2022

CDM Smith
 4651 Salisbury Road, Suite 420
 Jacksonville, FL 32256
 Tel: (904) 731-7109
 FL COA No. EB-0000020

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

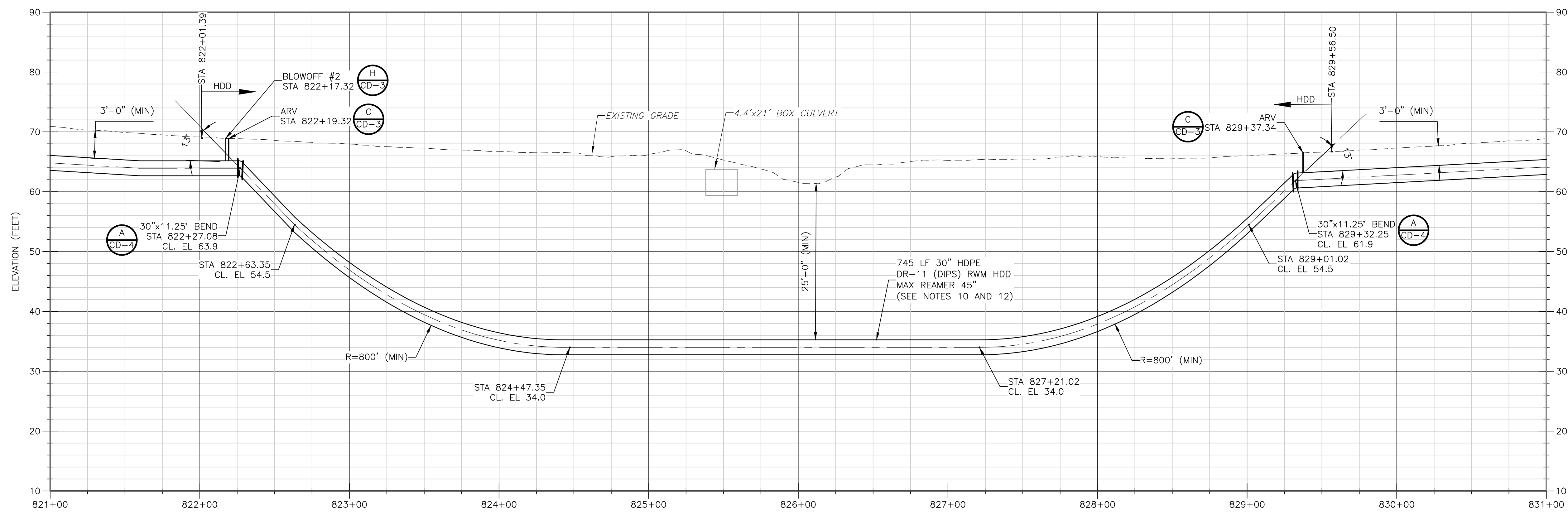
STATE ROAD 21
 HORIZONTAL DIRECTIONAL DRILL # 1 PROFILE
 STA 727+00 TO STA 745+00

DATE: CLAY M TAPPAN
 PE NO. 42772

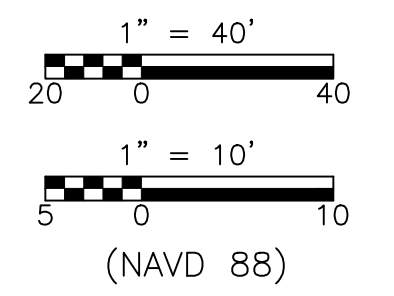
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PROFILE
 HORZ. 1" = 40'
 VERT. 1" = 10'



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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN
 DRAWN BY: D. AUST
 SHEET CHK'D BY: G. CASHON
 CROSS CHK'D BY: C. TAPPAN
 APPROVED BY: _____
 DATE: JUNE 2022

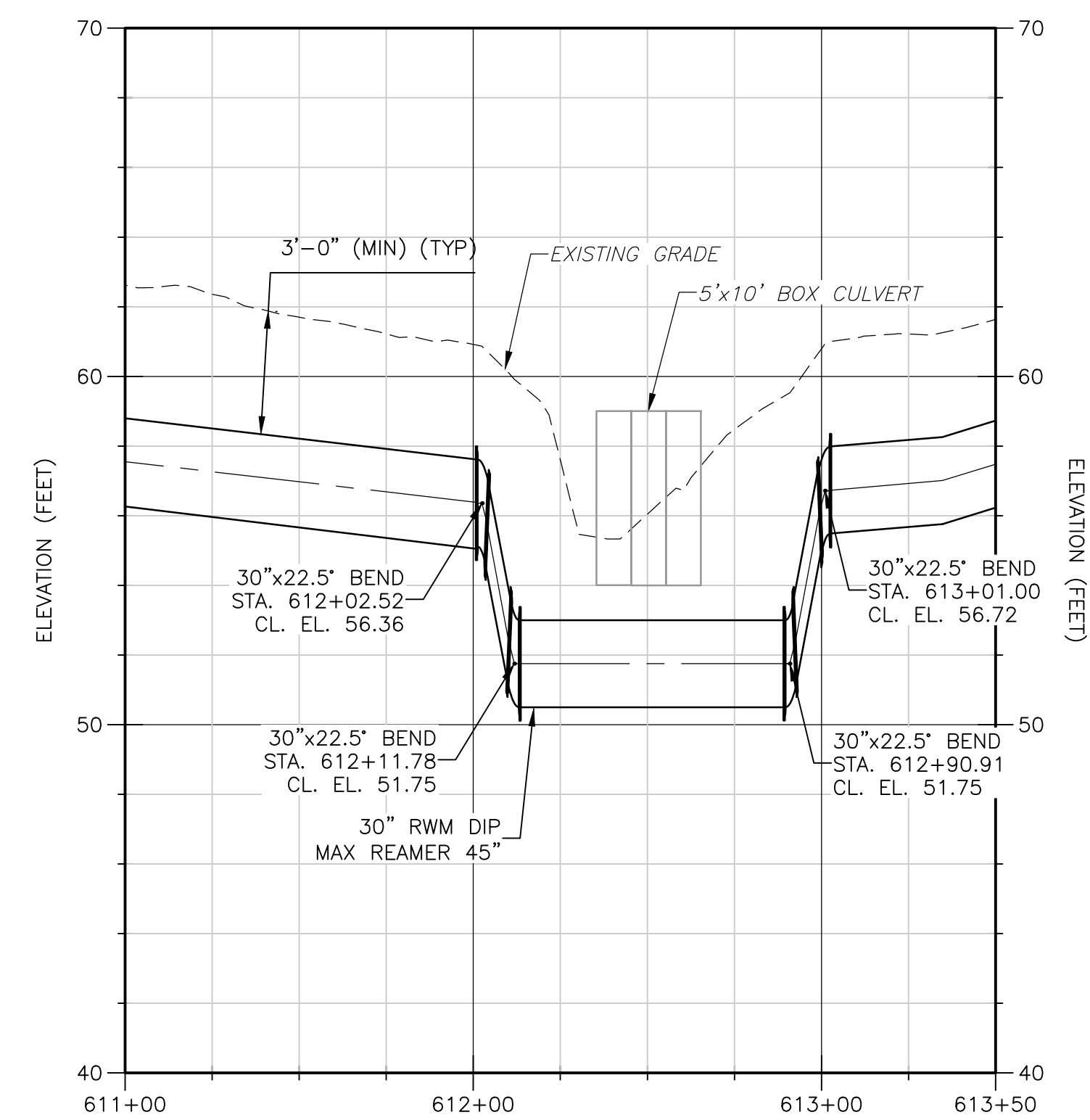


ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 21
 HORIZONTAL DIRECTIONAL DRILL # 2 PROFILE
 STA 821+00 TO STA 831+00

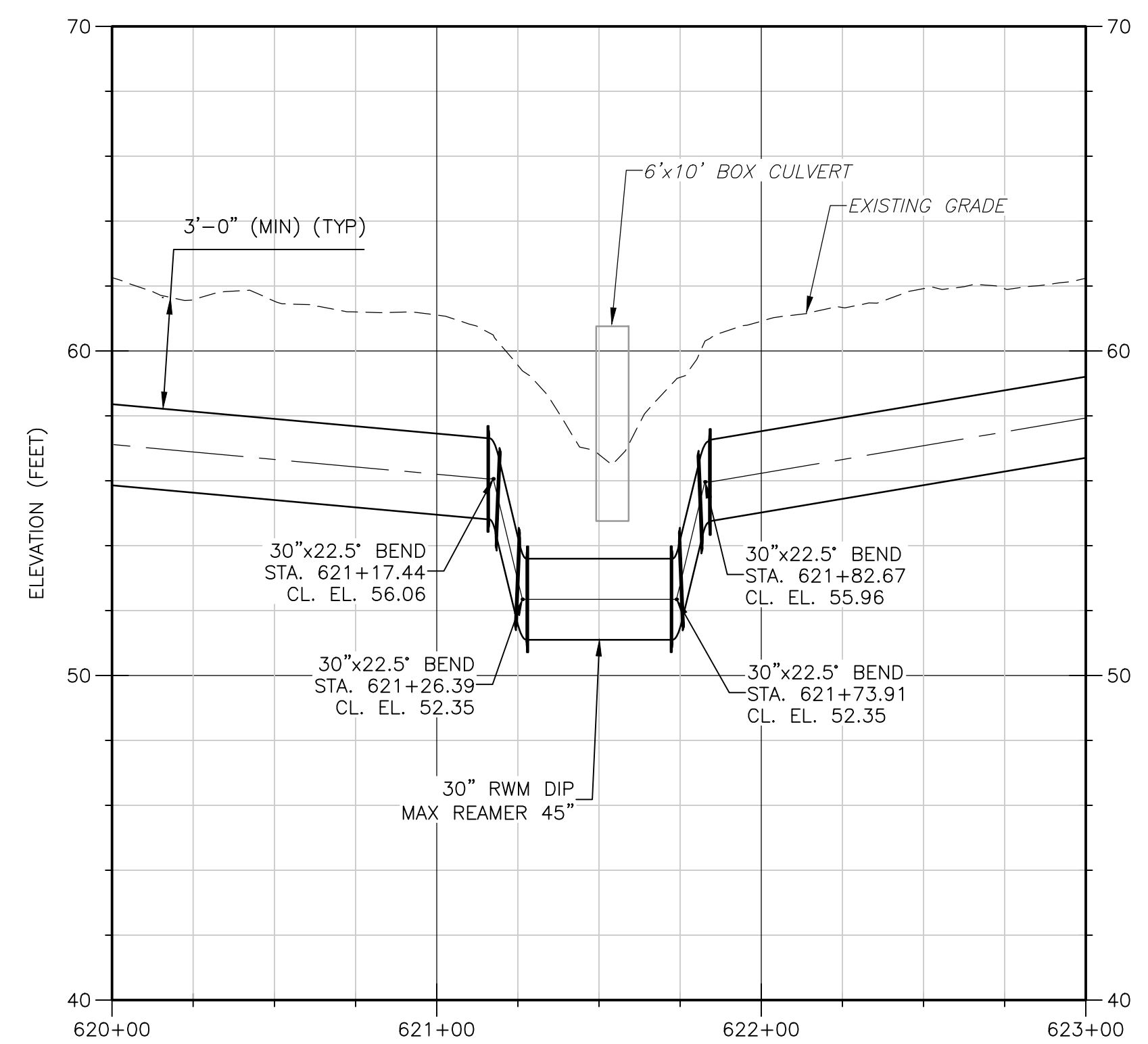
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 CLAY M TAPPAN
 PE NO. 42772
 PROJECT NO. 9247-221208
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 SHEET NO.
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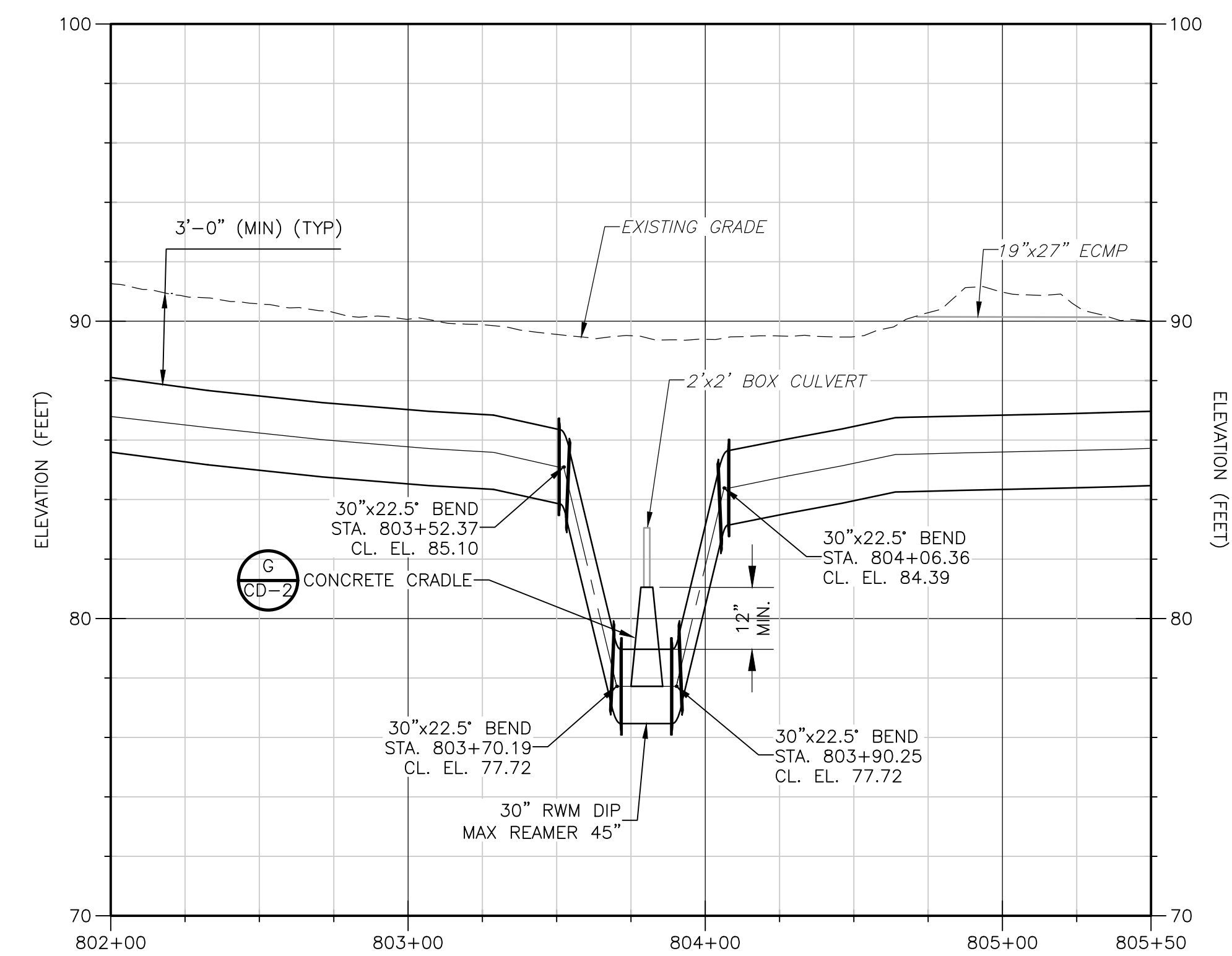
PROFILE #1
 HORZ. 1" = 40'
 VERT. 1" = 4'

(NAVD 88)



PROFILE #2
 HORZ. 1" = 40'
 VERT. 1" = 4'

(NAVD 88)



PROFILE #3
 HORZ. 1" = 40'
 VERT. 1" = 4'

(NAVD 88)

- NOTES:**
- AIR RELEASE VALVES SHALL BE OFFSET TO BE LOCATED AT EDGE OF FDOT RIGHT OF WAY FURTHEST FROM THE ROADWAY. FINAL LOCATION TO BE COORDINATED WITH OWNER/ ENGINEER.
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REV. NO.	DATE	DRWN	CHKD	REMARKS

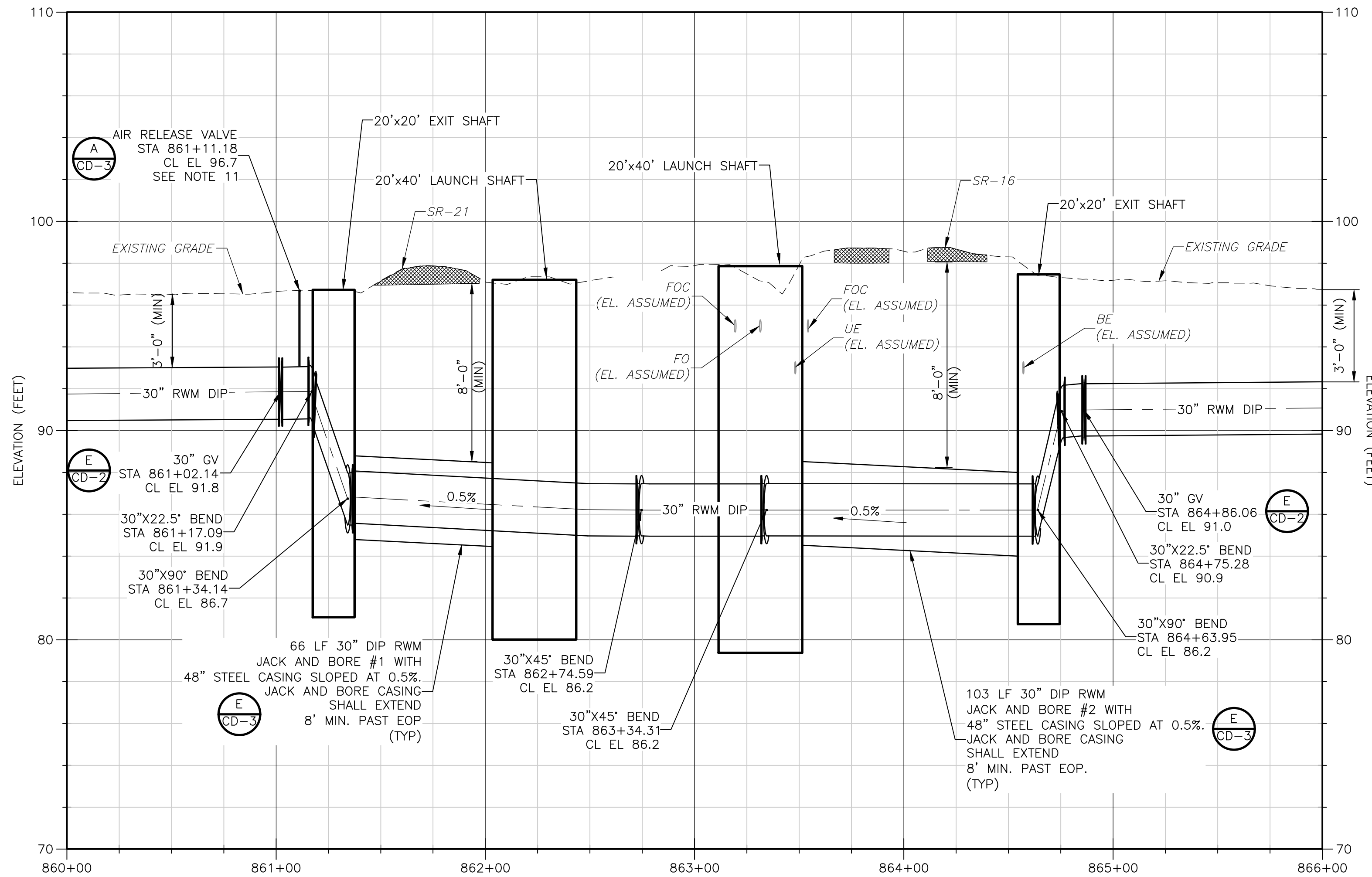
DESIGNED BY: C. TAPPAN	 4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-0000020
DRAWN BY: D. AUST	
SHEET CHK'D BY: G. CASHON	
CROSS CHK'D BY: C. TAPPAN	
APPROVED BY: _____	
DATE: JUNE 2022	

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 21
 30" DIP RWM CROSSING PROFILE

DATE: CLAY M TAPPAN
PE NO. 42772
PROJECT NO. 9247-221208
FILE NAME: C043PLPP.DWG
SHEET NO. C-43

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JACK AND BORE # 1

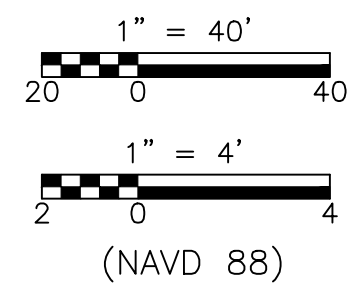
PROFILE

HORZ. 1" = 40'
VERT. 1" = 4'

JACK AND BORE # 2

PROFILE

HORZ. 1" = 40'
VERT. 1" = 4'



NOTES:

- COORDINATE PROTECTION / RELOCATION WITH UTILITY OWNER. FIELD VERIFY LOCATION OF EXISTING UTILITIES AND PROTECT/RELOCATE AS NEEDED.
- REMOVE AND REINSTALL SIGNAGE AS REQUIRED WITHIN CONSTRUCTION LIMITS. PROVIDE TEMPORARY SIGNAGE AS NECESSARY AND AS SHOWN ON DOT APPROVED MOT PLANS (TYP).
- CONSTRUCTION LIMITS ARE FROM EOP TO R/W LINE AS SHOWN. NO CONSTRUCTION ACTIVITIES SHALL TAKE PLACE OUTSIDE THIS AREA.
- OBTAIN AN APPROVED MOT PLAN PRIOR TO STARTING CONSTRUCTION ACTIVITIES.
- TURNOUT RESTORATION SHALL BE FROM EOP TO R/W.
- COORDINATE WITH ELECTRIC UTILITY OWNER FOR TEMPORARY POWER POLE SUPPORT OR RELOCATION AS REQUIRED.
- SEDIMENTATION AND EROSION CONTROL SHOWN ON THE DRAWINGS ASSUME PIPE INSTALLATION OCCURRING DURING DRY SEASON WEATHER. SEASONAL CONDITIONS MAY REQUIRE THE USE OF BAILS, TUBES OR OTHER SEDIMENTATION AND EROSION CONTROL DEVICES IN LIEU OF SILT FENCE IN CERTAIN AREAS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL AND MAINTAIN THE APPROPRIATE SEDIMENTATION AND EROSION CONTROL DEVICE BASED UPON SEASONAL WEATHER CONDITIONS AT TIME OF PIPE INSTALLATION AND PER FDOT STANDARDS. COST OF POTENTIAL ADDITIONAL/ALTERNATE SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE INCLUDED IN THE CONTRACT BID PRICE. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- TRENCHLESS CROSSING SHALL BE SLOPED 0.5%-1% DOWN FROM EXIT SHAFT.
- SHAFTS SHALL EXTEND TO 2' BELOW BOTTOM OF CASING.
- ALL PIPE INSTALLATIONS SHALL CONFORM TO 2017 UTILITIES ACCOMMODATION MANUAL (UAM). IF A CONFLICT EXISTS BETWEEN THESE DOCUMENTS AND THE UAM THE MORE STRINGENT SHALL APPLY.
- ARV AND VALVE BOXES SHALL BE INSTALLED BETWEEN EOP AND FENCE ADJACENT TO FENCE. SEE PLAN VIEW.
- EXCAVATIONS WITHIN FDOT RIGHT-OF-WAYS SHALL BE A MINIMUM OF 8- FEET FROM EDGE OF ROADWAY PAVEMENT.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN
 DRAWN BY: D. AUST
 SHEET CHK'D BY: G. CASHON
 CROSS CHK'D BY: C. TAPPAN
 APPROVED BY: _____
 DATE: JUNE 2022



ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

STATE ROAD 21/ STATE ROAD 16
 JACK AND BORE PROFILE

DATE:
 CLAY M TAPPAN
 PE NO. 42772

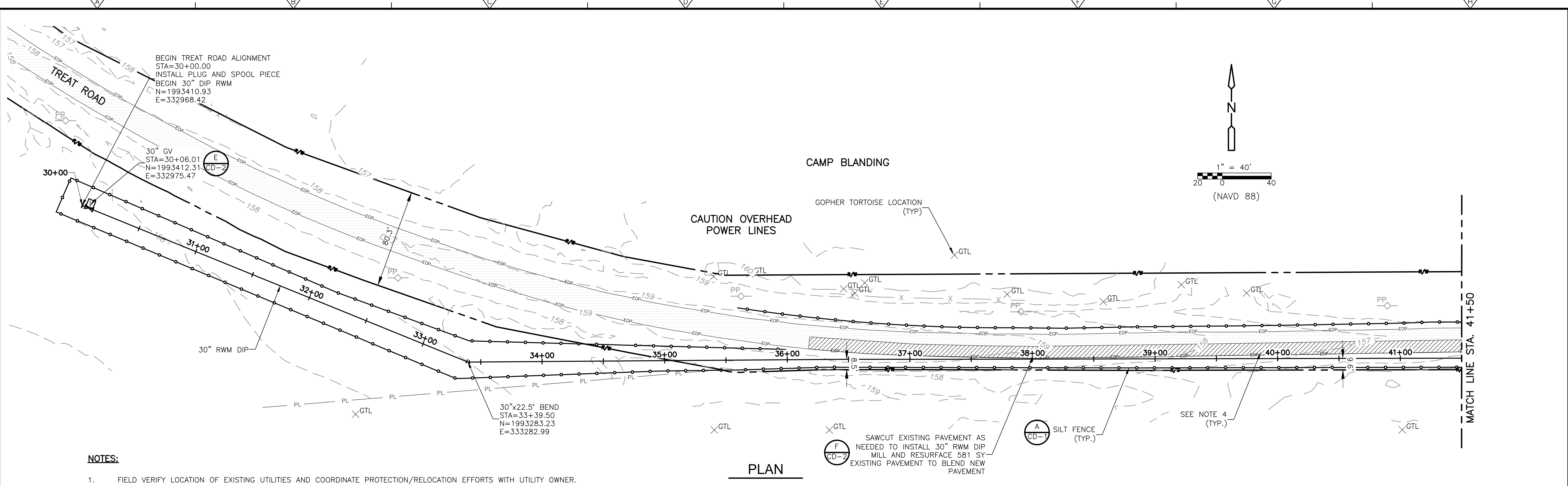
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SHEET NO.

C-44

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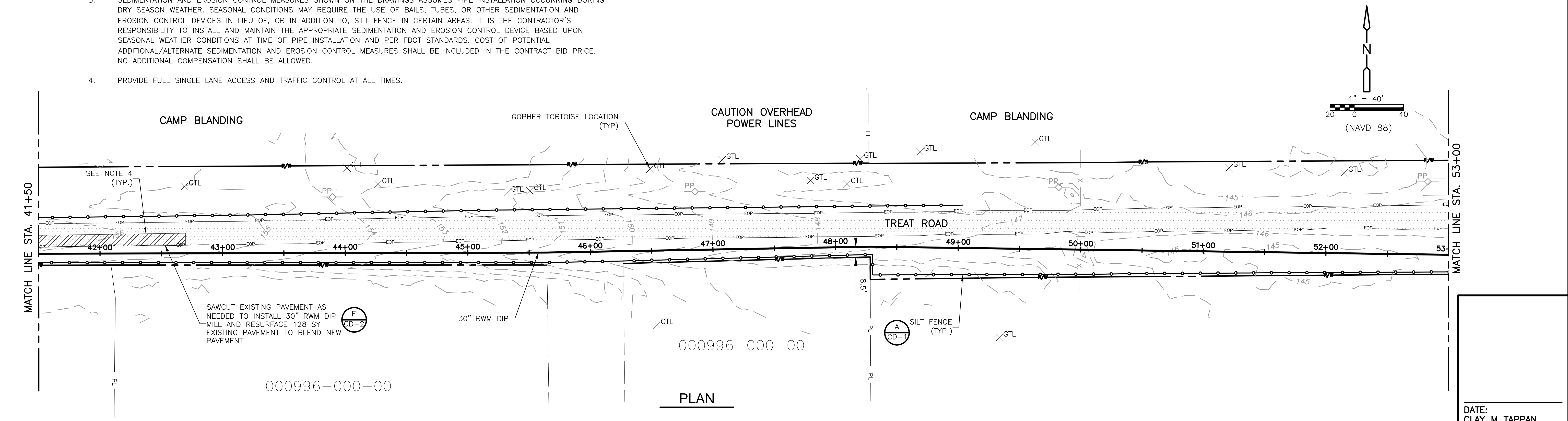
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PLAN

NOTES:

1. FIELD VERIFY LOCATION OF EXISTING UTILITIES AND COORDINATE PROTECTION/RELOCATION EFFORTS WITH UTILITY OWNER.
2. REMOVE AND REINSTALL SIGNAGE AS REQUIRED WITHIN THE CONSTRUCTION LIMITS. PROVIDE TEMPORARY SIGNAGE AS NECESSARY.
3. SEDIMENTATION AND EROSION CONTROL MEASURES SHOWN ON THE DRAWINGS ASSUMES PIPE INSTALLATION OCCURRING DURING DRY SEASON WEATHER. SEASONAL CONDITIONS MAY REQUIRE THE USE OF BAILS, TUBES, OR OTHER SEDIMENTATION AND EROSION CONTROL DEVICES IN LIEU OF, OR IN ADDITION TO, SILT FENCE IN CERTAIN AREAS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL AND MAINTAIN THE APPROPRIATE SEDIMENTATION AND EROSION CONTROL DEVICE BASED UPON SEASONAL WEATHER CONDITIONS AT TIME OF PIPE INSTALLATION AND PER FDOT STANDARDS. COST OF POTENTIAL ADDITIONAL/ALTERNATE SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE INCLUDED IN THE CONTRACT BID PRICE. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
4. PROVIDE FULL SINGLE LANE ACCESS AND TRAFFIC CONTROL AT ALL TIMES.



PLAN

REV. NO.	DATE	DRWN	CHKD	REMARKS

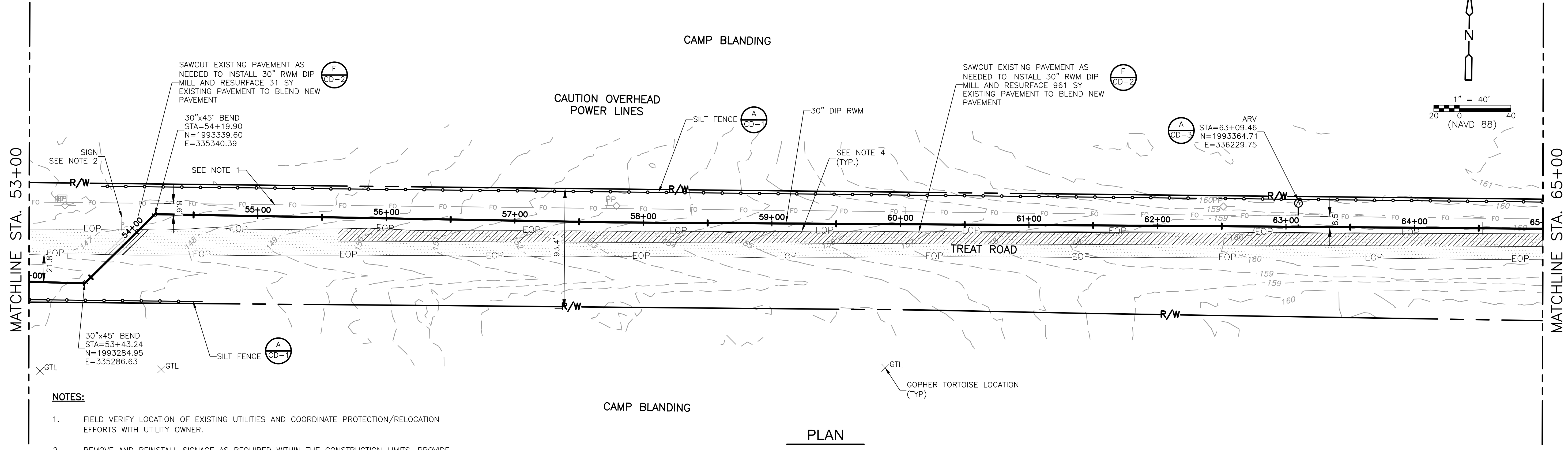
DESIGNED BY: C. TAPPAN	 4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-0000020
DRAWN BY: D. AUST	
SHEET CHK'D BY: G. CASHON	
CROSS CHK'D BY: C. TAPPAN	
APPROVED BY: _____	
DATE: JUNE 2022	

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

TREAT ROAD
 STA 30+00 TO STA 53+00

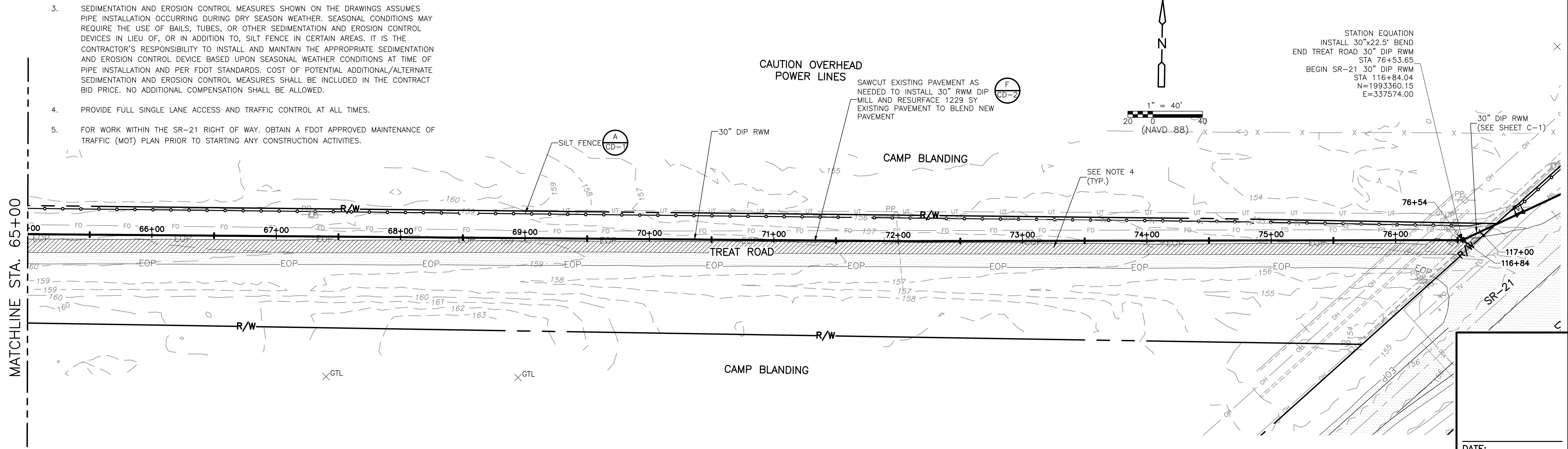
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PROJECT NO. 9247-221208 FILE NAME: C045STPL.DWG
SHEET NO. C-45

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PLAN

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 - PROVIDE FULL SINGLE LANE ACCESS AND TRAFFIC CONTROL AT ALL TIMES.
 - FOR WORK WITHIN THE SR-21 RIGHT OF WAY, OBTAIN A FDOT APPROVED MAINTENANCE OF TRAFFIC (MOT) PLAN PRIOR TO STARTING ANY CONSTRUCTION ACTIVITIES.



PLAN

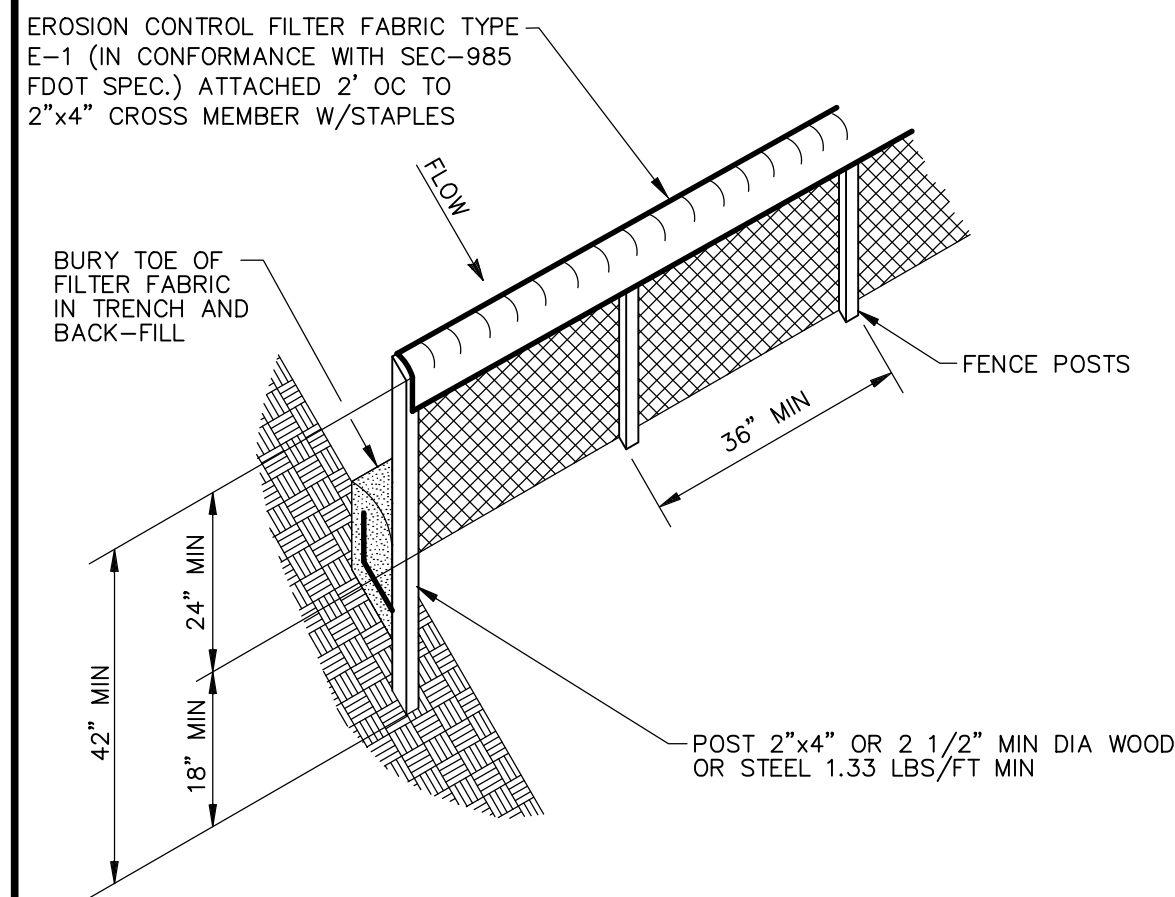
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN	 4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-000020
DRAWN BY: D. AUST	
SHEET CHK'D BY: G. CASHON	
CROSS CHK'D BY: C. TAPPAN	
APPROVED BY: _____	
DATE: JUNE 2022	

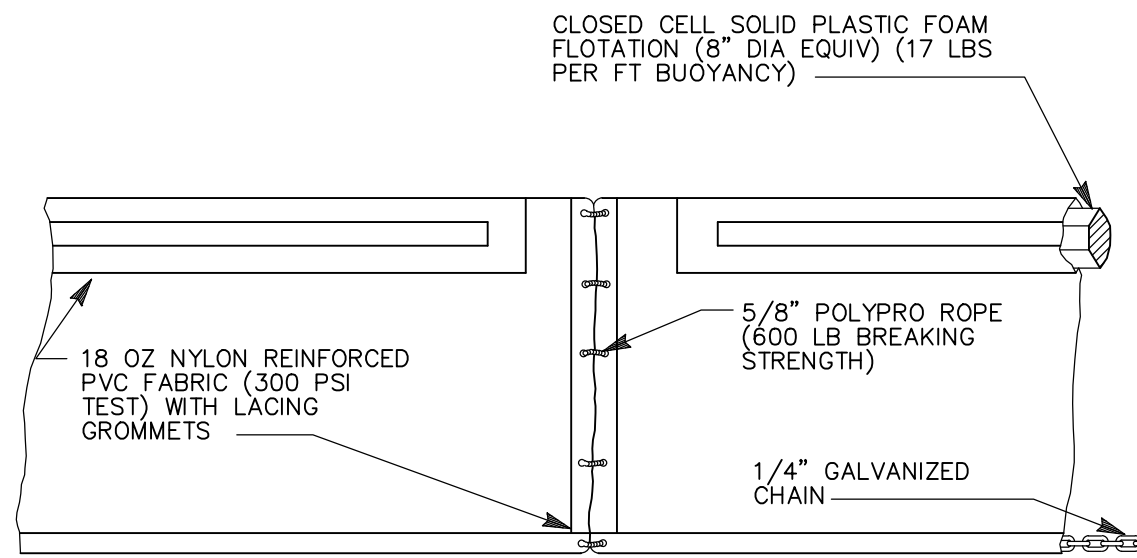
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

TREAT ROAD
 STA 53+00 TO STA 76+53.65

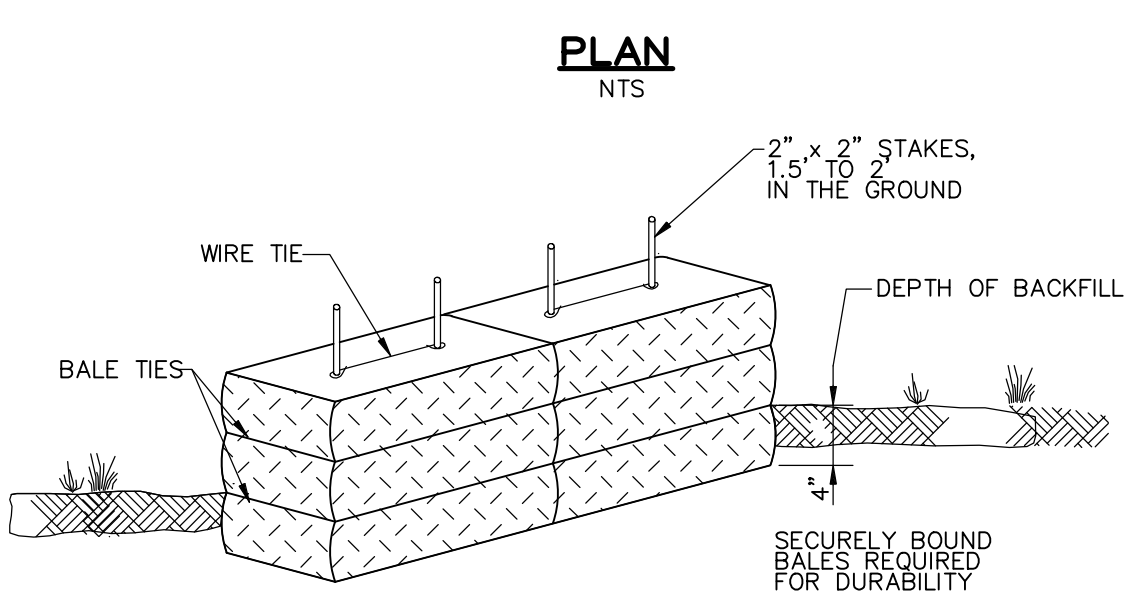
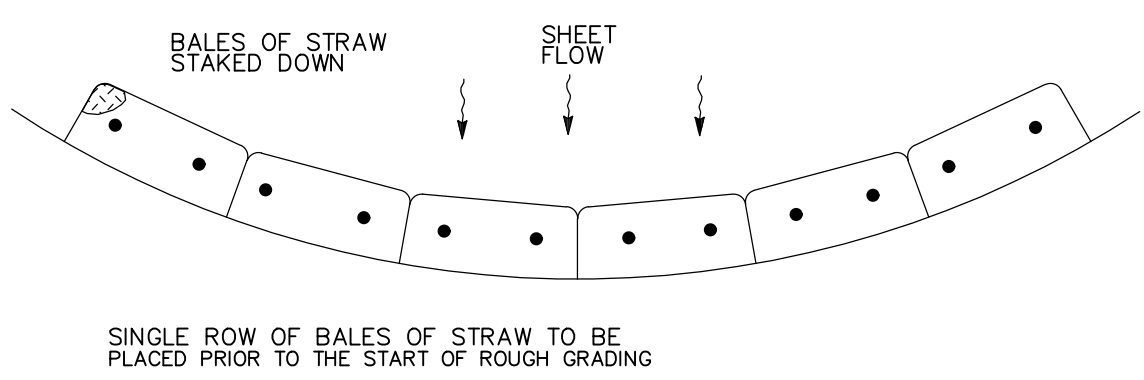
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SHEET NO. C-46



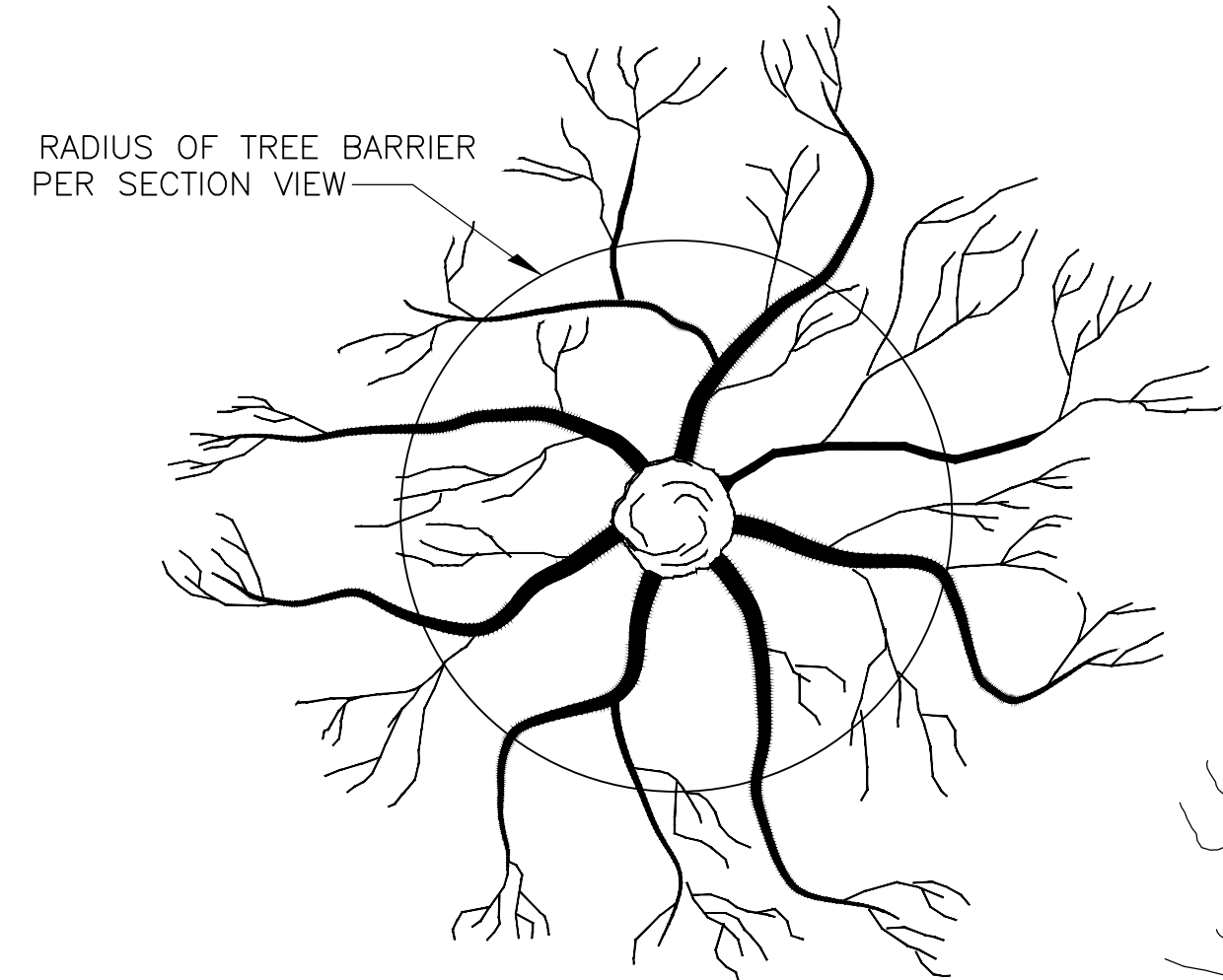
STAKED SILT FENCE
DETAIL A
 NTS



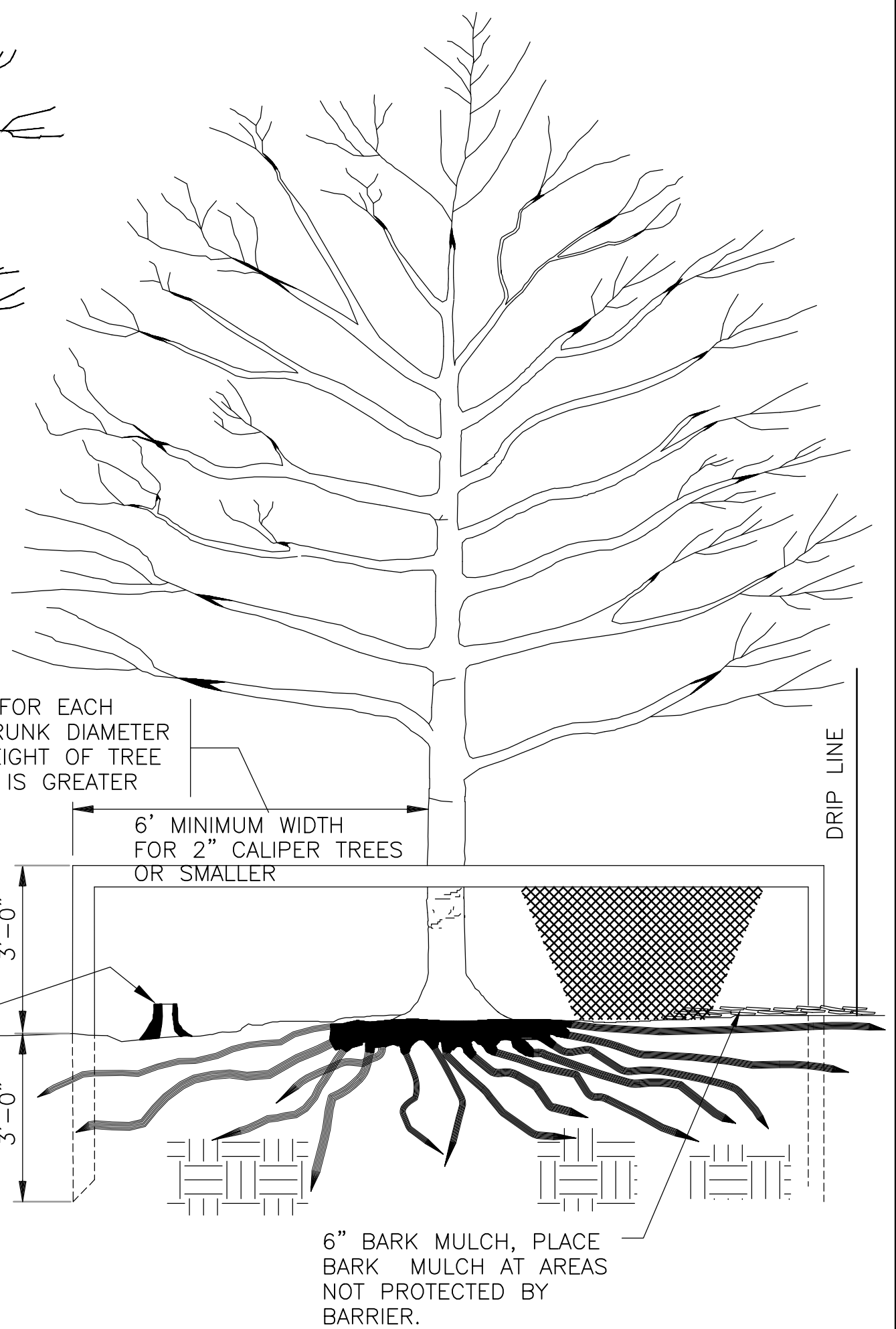
FLOATING TURBIDITY BARRIER
DETAIL B
 NTS



TEMPORARY STRAW BALE SEDIMENT BARRIER
DETAIL C
 NTS



PLAN VIEW OF ROOT ZONE



ONE FOOT FOR EACH INCH OF TRUNK DIAMETER OR 1/2 HEIGHT OF TREE WHICHEVER IS GREATER

FOR PRUNING SEE NATIONAL ARBORIST ASSOCIATION SPECS.

DEAD TREES AND SCRUB OF UNDER GROWTH SHALL BE CUT FLUSH WITH ADJACENT GRADE. NO GRUBBING ALLOWED UNDER DRIP LINE.

2x4" STANDARDS + 1x4" RAILS OR ORANGE SAFETY FENCING MAY BE USED.

6" BARK MULCH, PLACE BARK MULCH AT AREAS NOT PROTECTED BY BARRIER.

TREE PROTECTION BARRICADE SPECIFICATIONS:

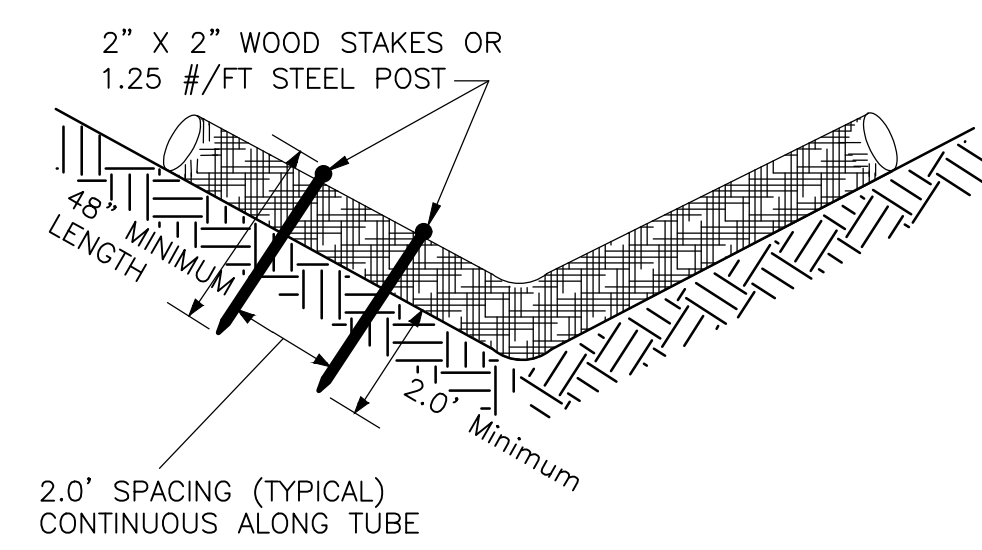
- CONTRACTOR TO COMPLY WITH ALL LOCAL TREE ORDINANCES IN ADDITION TO THE SPECIFICATIONS NOTED BELOW.
- FOUR CORNER UPRIGHT STAKES OF NO LESS THAN 2" X 2" LUMBER CONNECTED BY HORIZONTAL MEMBERS OF NO LESS THAN 1" X 4" LUMBER; OR UPRIGHT STAKES SPACED AT 4-5' INTERVALS OF NO LESS THAN 2" X 2" LUMBER CONNECTED BY TWINE FLAGGED WITH PLASTIC SURVEYING TAPE AT REGULAR INTERVALS.
- REQUIRED BARRICADES AND FLAGGING SHALL BE ERECTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO COMMENCEMENT OF LAND ALTERATION ACTIVITIES. BARRICADES SHALL REMAIN IN PLACE UNTIL ALTERATION AND CONSTRUCTION ACTIVITIES ARE COMPLETED.
- DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, IT SHALL BE UNLAWFUL TO REMOVE VEGETATION BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIPLINE OF A TREE TO REMAIN ON THE SITE UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- LAND ALTERATION ACTIVITIES SHALL NOT UNNECESSARILY REMOVE EXISTING VEGETATION AND ALTER EXISTING TOPOGRAPHY.

TREE PROTECTION BARRICADE

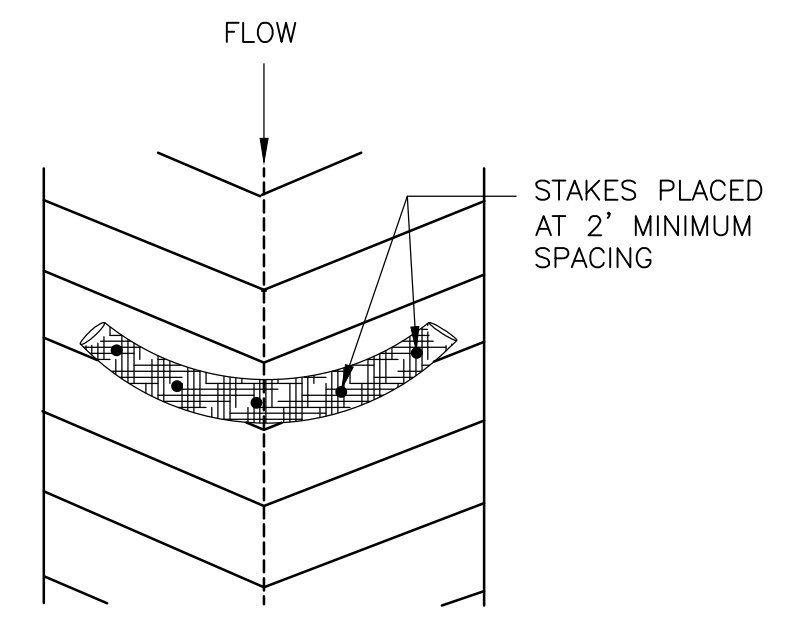
DETAIL D
 NTS

NOTES:

- TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 30 DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.
- TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 12 ABOVE LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.
- TEMPORARY GRASSING: THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING SHALL BE THE SAME MIX & AMOUNT REQUIRED FOR PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS.
- TEMPORARY REGRASSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.
- MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.
- PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.
- PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEEDED. THE SEEDING MIX MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDED AND MULCHED OR SODDED.
- ALL SLOPES STEEPER THAN 3:1 SHALL BE SODDED.



END VIEW OF DITCH



TOP VIEW OF DITCH

NOTES:

- REMOVE SEDIMENT WHEN IT REACHES 1/3 THE HEIGHT OF THE EXPOSED SEDIMENT TUBE.

SEDIMENT TUBES
DETAIL E
 NOT TO SCALE

EROSION CONTROL

IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE PLANS. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE PLANS AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE PLANS AND AS REQUIRED BY THE REGULATORY AGENCIES.

- SEDIMENT BASINS AND TRAPS, PERIMETER DITCHES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP BEFORE ANY LAND-DISTURBING TAKES PLACE.
- ALL SEDIMENT CONTROL MEASURES ARE TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON BALANCE OF SITE. PERIMETER SEDIMENT BARRIERS SHALL BE CONSTRUCTED TO PREVENT SEDIMENT OR TRASH FROM FLOWING OR FLOATING ON TO ADJACENT PROPERTIES.
- DURING CONSTRUCTION OF THE PROJECT, SOIL STOCK PILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY PROTECTIONS AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
- AFTER ANY SIGNIFICANT RAINFALL SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED FOR INTEGRITY. ANY DAMAGED DEVICES SHALL BE REPAIRED IMMEDIATELY.
- CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.
- WHENEVER WATER SEEPS FROM A SLOPE FACE ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.
- SEDIMENT WILL BE PREVENTED FROM ENTERING ANY STORM DRAIN SYSTEM, DITCH, OR CHANNEL. ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
- BEFORE TEMPORARY OR NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.
- WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENRICHMENT. CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NONERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NONERODIBLE COVER MATERIALS.
- STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.
- EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 1 ACRE. IF THE TOTAL AREA TO BE CLEARED IS EQUAL TO, OR EXCEEDS ONE (1) ACRE, THEN THE CONTRACTOR WILL BE RESPONSIBLE FOR PREPARING A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH EPA'S NPDES REGULATIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR SUBMITTING A NOTICE ON INTENT (NOI) TO EPA FORTY-EIGHT (48) HOURS PRIOR TO COMMENCING CONSTRUCTION.

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY:	C. TAPPAN
DRAWN BY:	D. AUST
SHEET CHK'D BY:	G. CASHON
CROSS CHK'D BY:	C. TAPPAN
APPROVED BY:	
DATE:	JUNE 2022

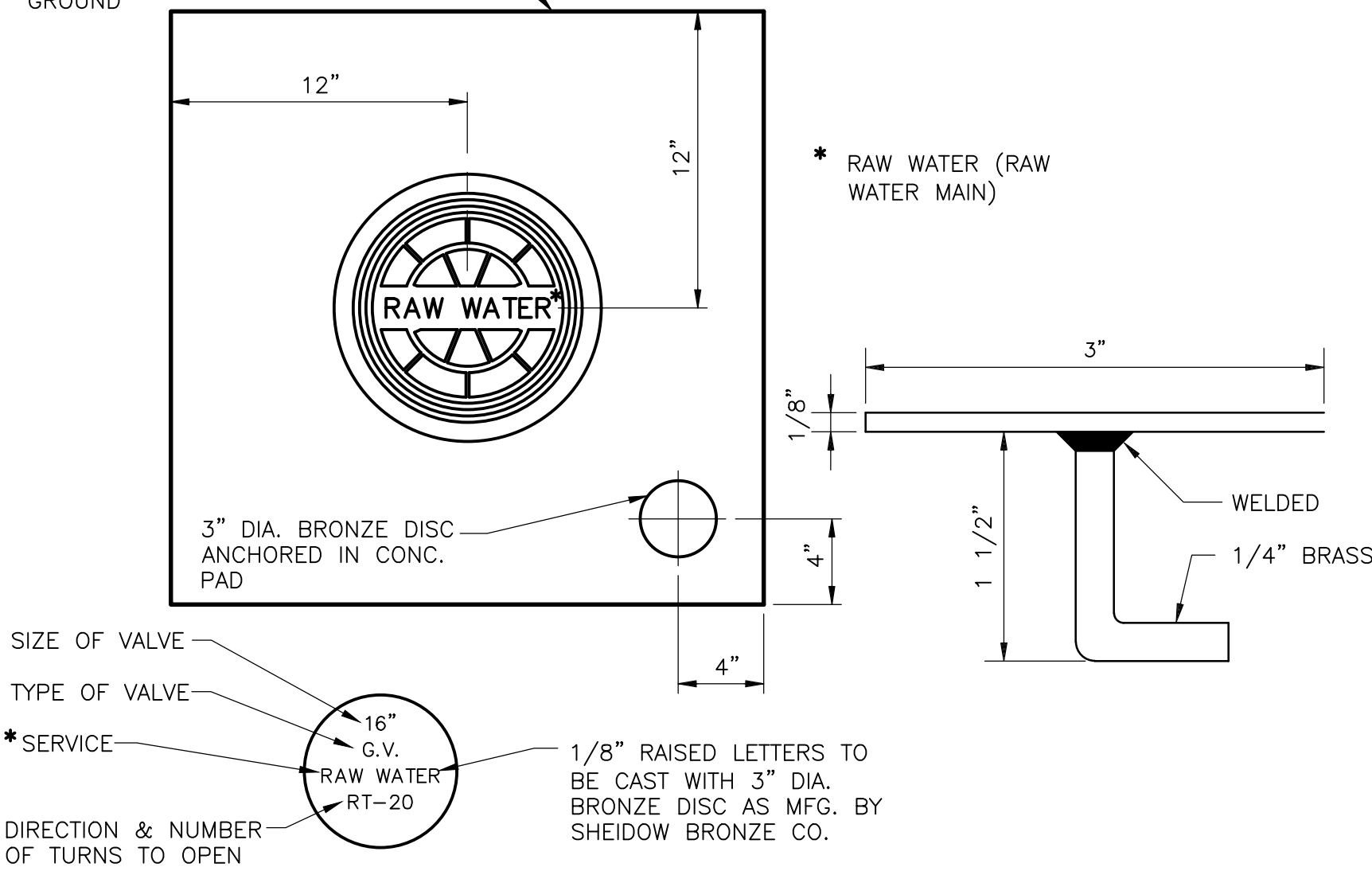
CDM Smith
 4651 Salisbury Road, Suite 420
 Jacksonville, FL 32256
 Tel: (904) 731-7109
 FL COA No. EB-000020

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

SEDIMENTATION AND EROSION CONTROL DETAILS

DATE:	CLAY M TAPPAN
PE NO.	42772
PROJECT NO.	9247-221208
FILE NAME:	CD01NFD.DWG
SHEET NO.	CD-1

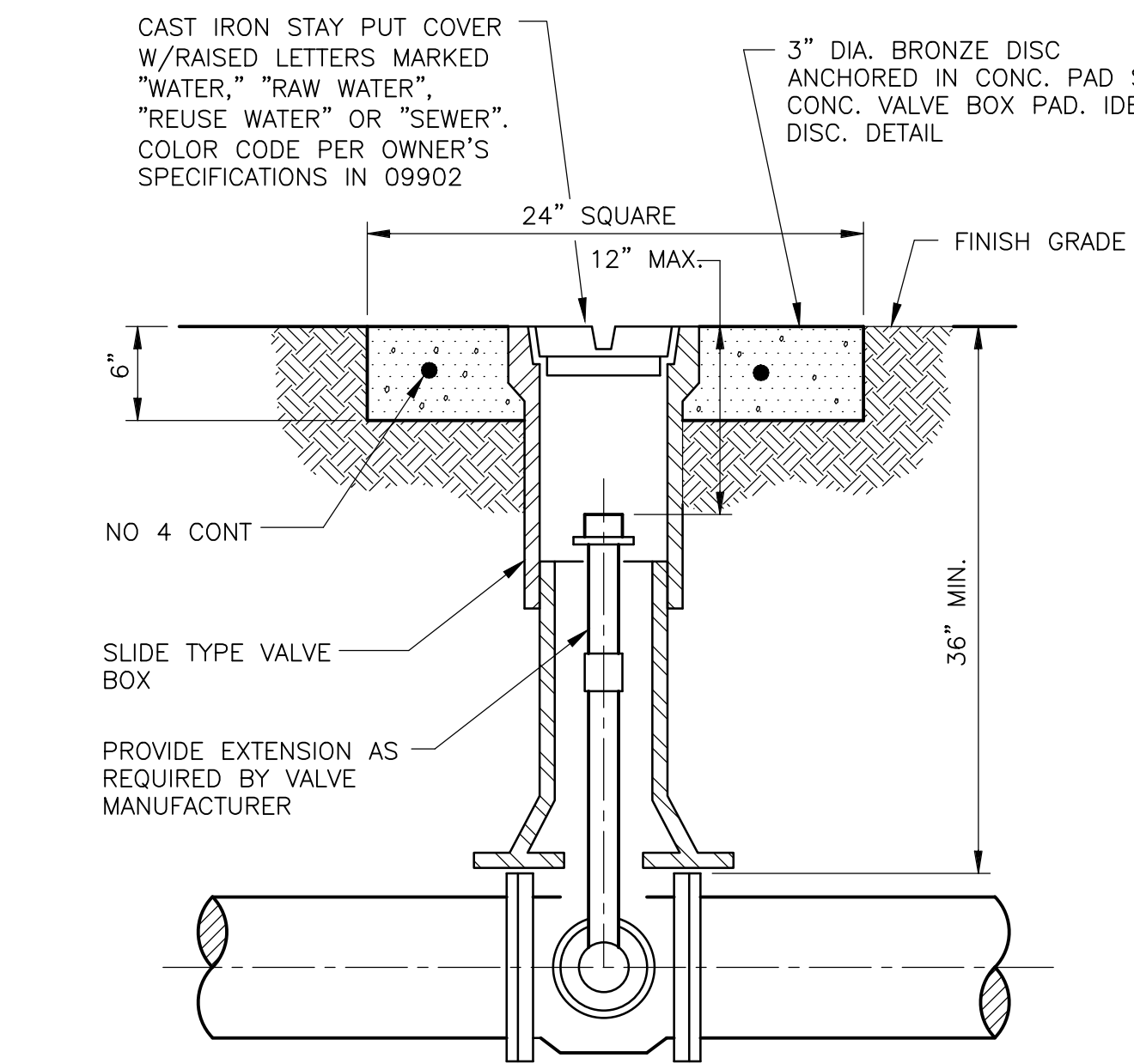
24" x 24" x 8" THICK CONCRETE PAD AT EACH VALVE BOX WITH 1-NO.3 CONT. CONCRETE PAD SHALL EXTEND AT LEAST 2" ABOVE GROUND



CONCRETE VALVE PAD / IDENT. DISC

DETAIL A

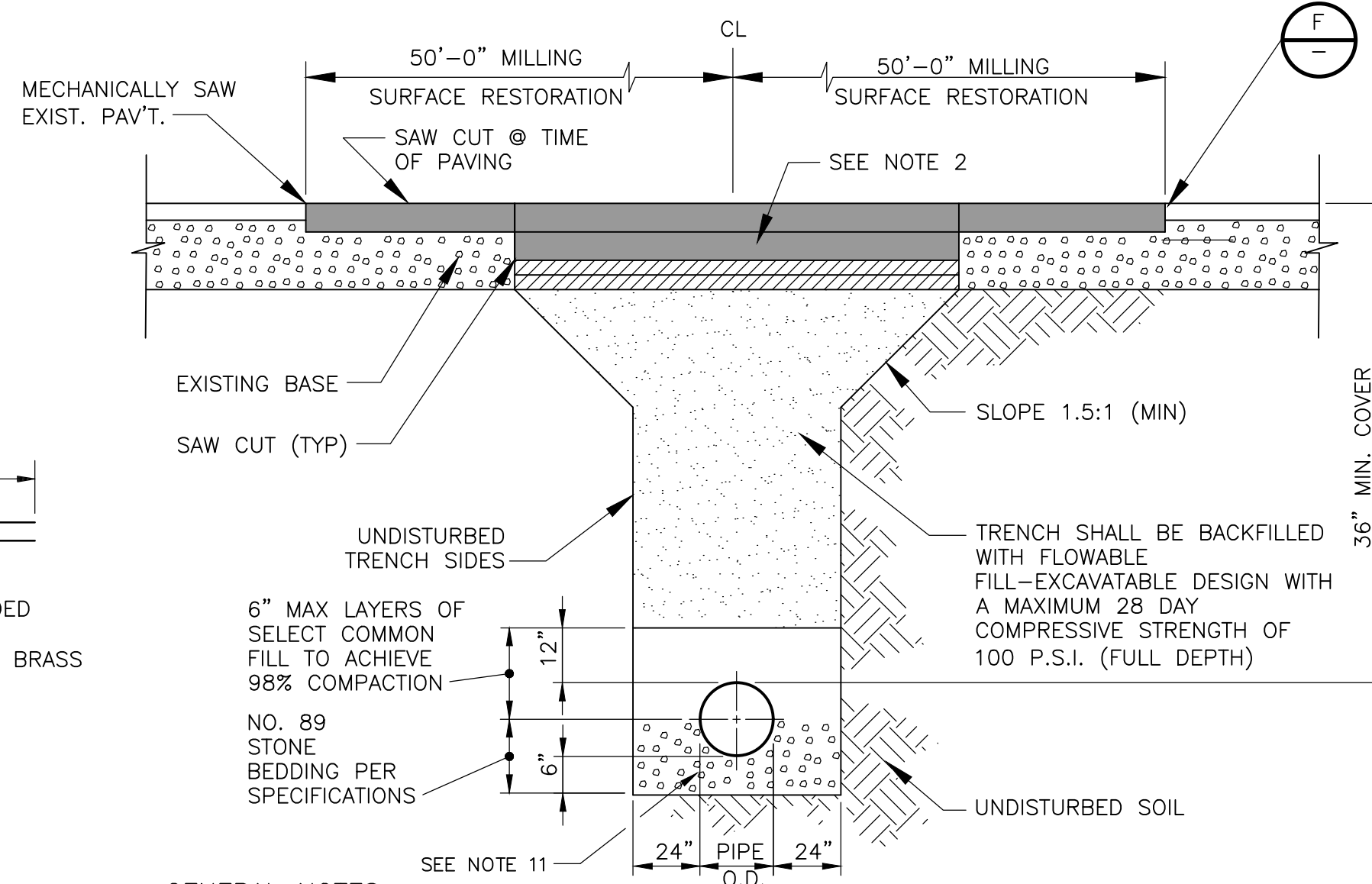
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VALVE AND BOX

DETAIL B

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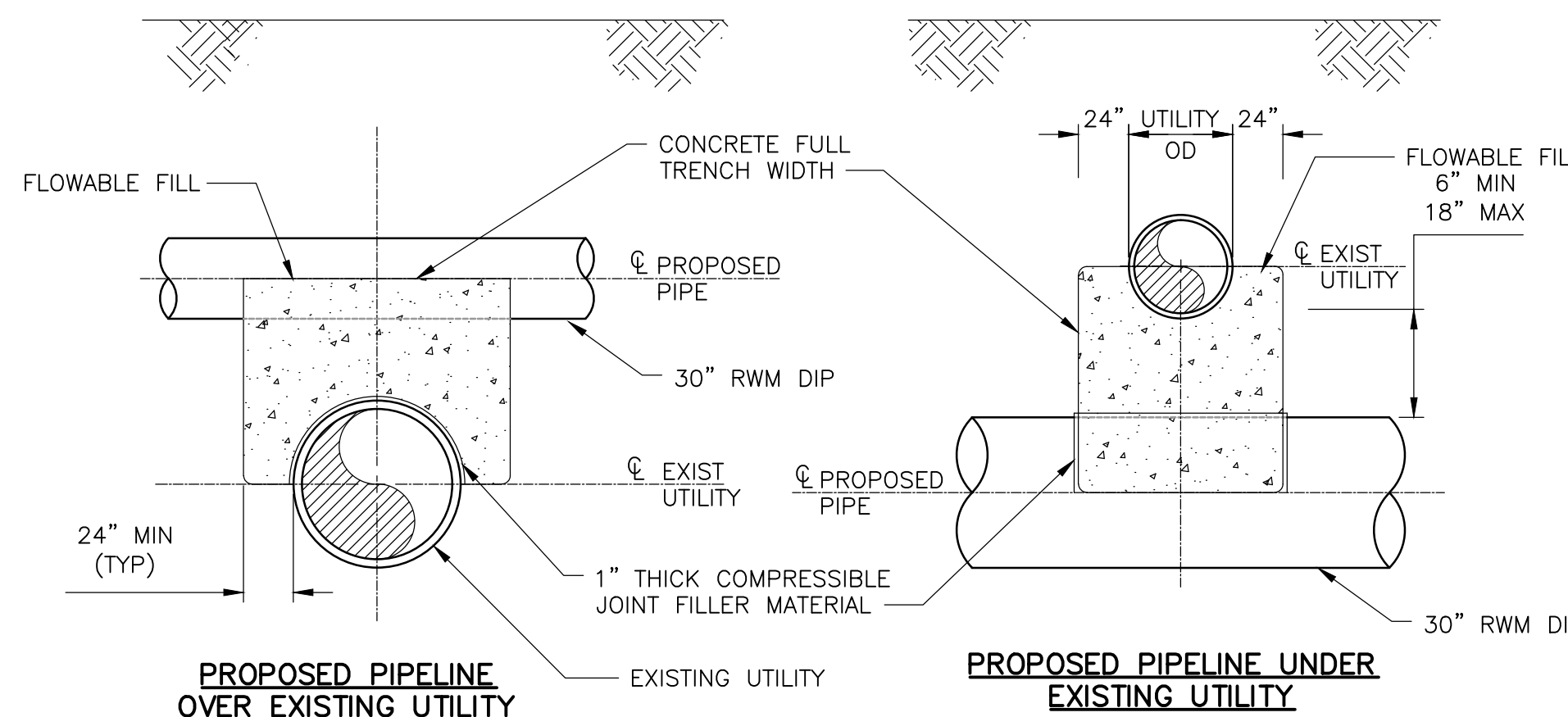
GENERAL NOTES:

1. ALL MATERIALS, WORK AND TESTING SHALL MEET FDOT STANDARD SPECIFICATIONS.
2. ROADWAY RESTORATION WILL UTILIZE FULL DEPTH ASPHALT (TWO 3" LIFTS OF SP12.5 AND TWO 2" LIFTS OF SP9.5). MILL AND RESURFACE THE ROADWAY 50 FEET EITHER SIDE OF THE CENTER LINE OF THE ASPHALT PATCH 28 DAYS AFTER INSTALLATION.
3. TRENCH SHALL BE BACKFILLED TO BOTTOM OF ASPHALT WITH EXCAVATABLE FLOWABLE FILL WITH A MAXIMUM 28 DAY COMPRESSIVE STRENGTH OF 100 P.S.I. CONFORMING TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), SECTION 121.
4. PAVEMENT REPLACEMENT SHALL BE DETERMINED BY THE LOCATION & DEPTH OF THE TRENCH. CONTRACTOR SHALL ENDEAVOR TO KEEP OPEN TRENCH WIDTH TO A MINIMUM IN ORDER TO MINIMIZE IMPACTS AND RESTORATION LIMITS WITHIN FDOT RIGHT-OF-WAY.
5. CONTRACTOR SHALL RESTORE PAVEMENT TO MATCH GRADES WHICH EXISTED PRIOR TO CONSTRUCTION. ANY ADDITIONAL SURVEY NECESSARY TO ENSURE THAT THIS REQUIREMENT IS MET SHALL BE PERFORMED BY THE CONTRACTOR AT HIS EXPENSE.
6. WHERE SOIL CONDITIONS CAN NOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE ALTERNATE METHOD OF CONSTRUCTION TO COMPLY WITH THE FLORIDA TRENCH SAFETY ACT.
7. SHEETING WILL BE REQUIRED AS DETERMINED IN THE FIELD. SEE SPECIFICATIONS.
8. COMPACTION PERCENTAGES SHOWN REFER TO A.A.S.H.T.O. T-180.
9. FOR PVC AND HDPE PIPE - INSTALL MARKER BALLS AS SPECIFIED. SEE SPECIFICATIONS.
10. THE BACK FILL MATERIAL SHALL BE SELECT COMMON FILL PER SPECIFICATIONS.
11. NO. 89 STONE BEDDING 6 INCHES BELOW INVERT TO SPRINGLINE PER SPECIFICATIONS. INSTALL IMPERMEABLE GROUNDWATER BARRIER AT 100-FOOT INTERVALS PER SPECIFICATIONS.
12. MAINTAIN MAXIMUM WATER LEVEL 2' BELOW THE BOTTOM OF THE TRENCH.

TYPICAL SECTION FOR FLEXIBLE RESTORATION WITHIN FDOT RIGHT-OF-WAY

DETAIL C

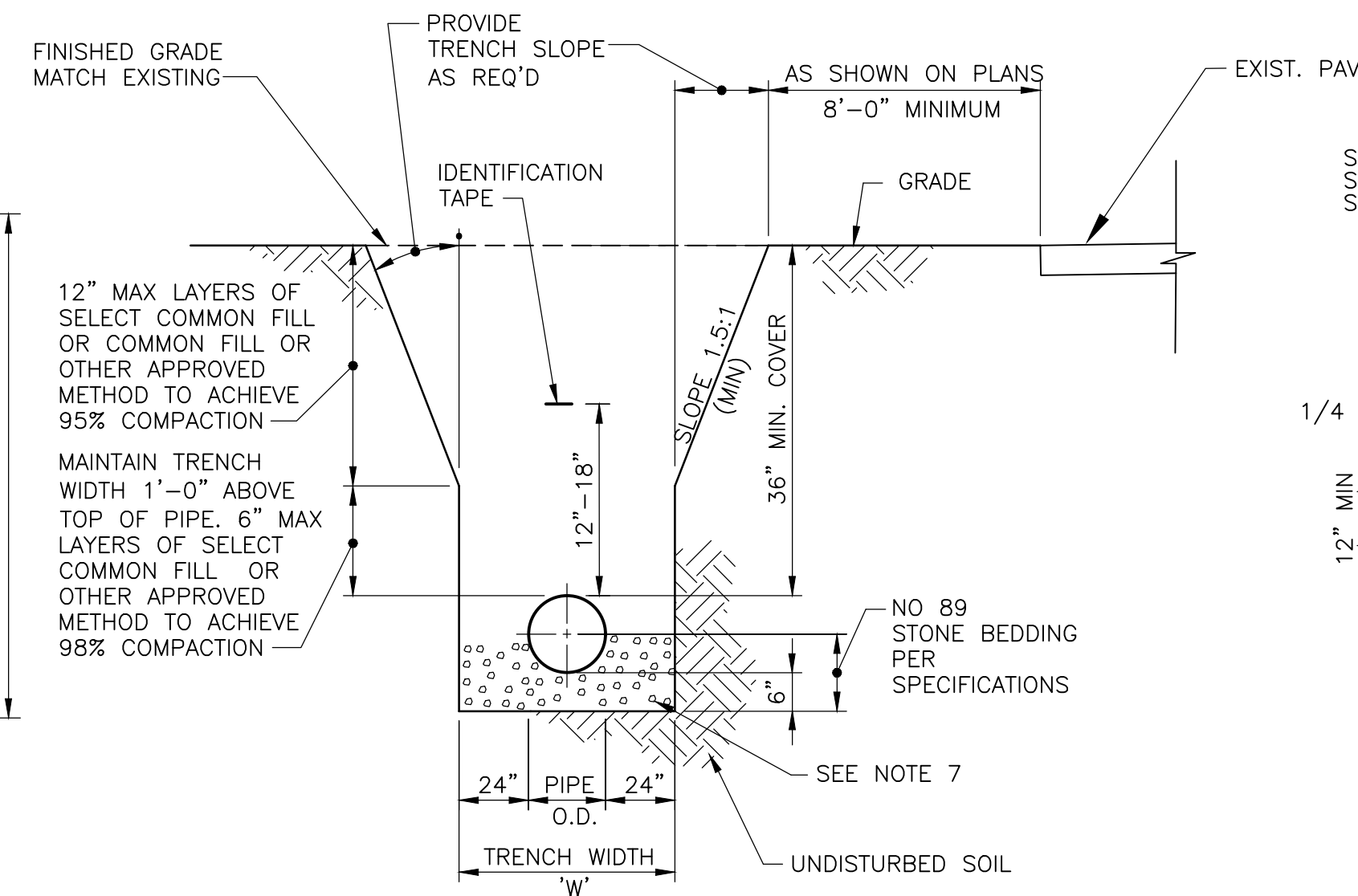
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CONCRETE CRADLE

DETAIL G

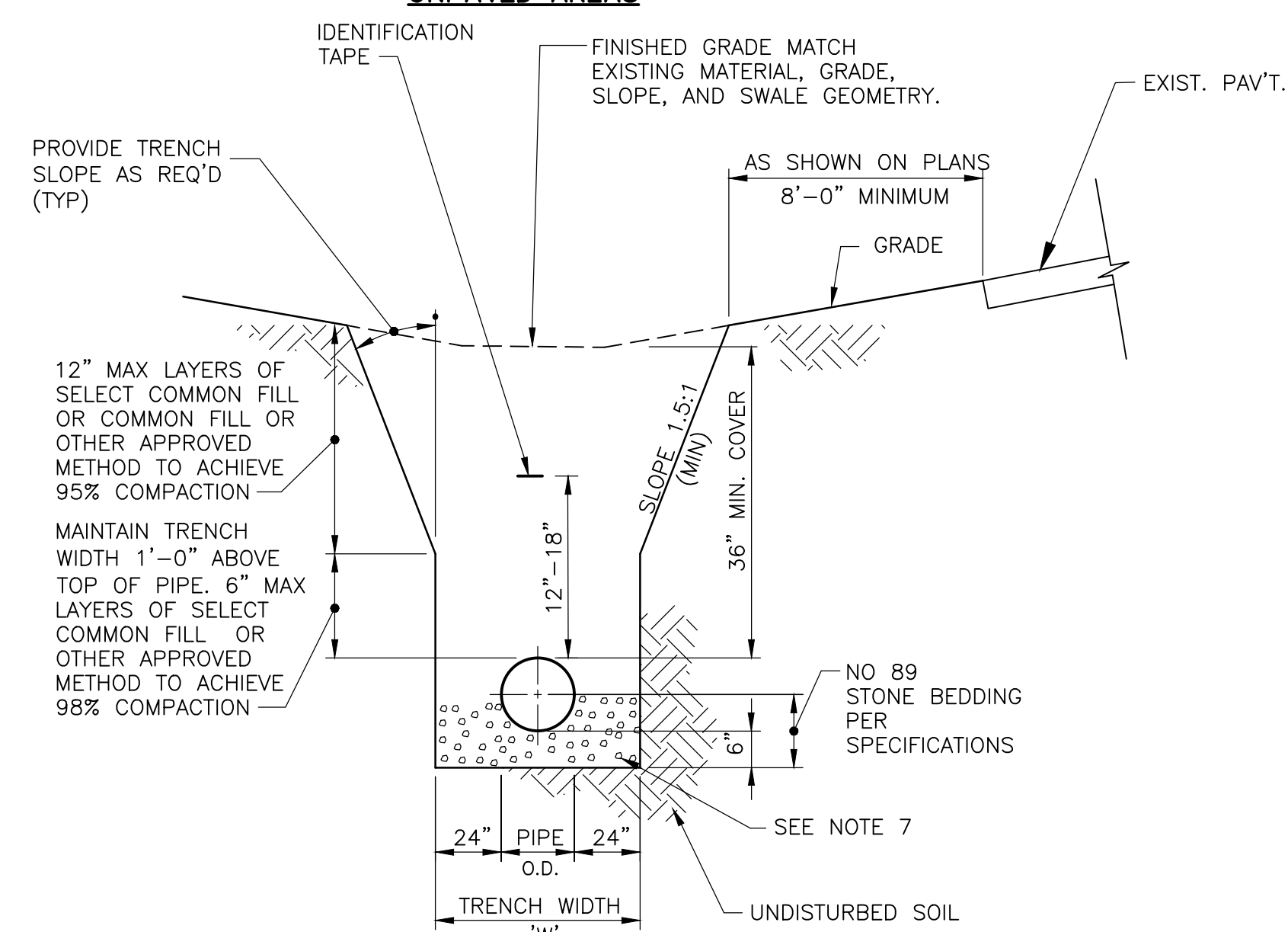
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UNPAVED AREAS

DETAIL E

NTS



ROADSIDE SWALES

DETAIL F

NTS

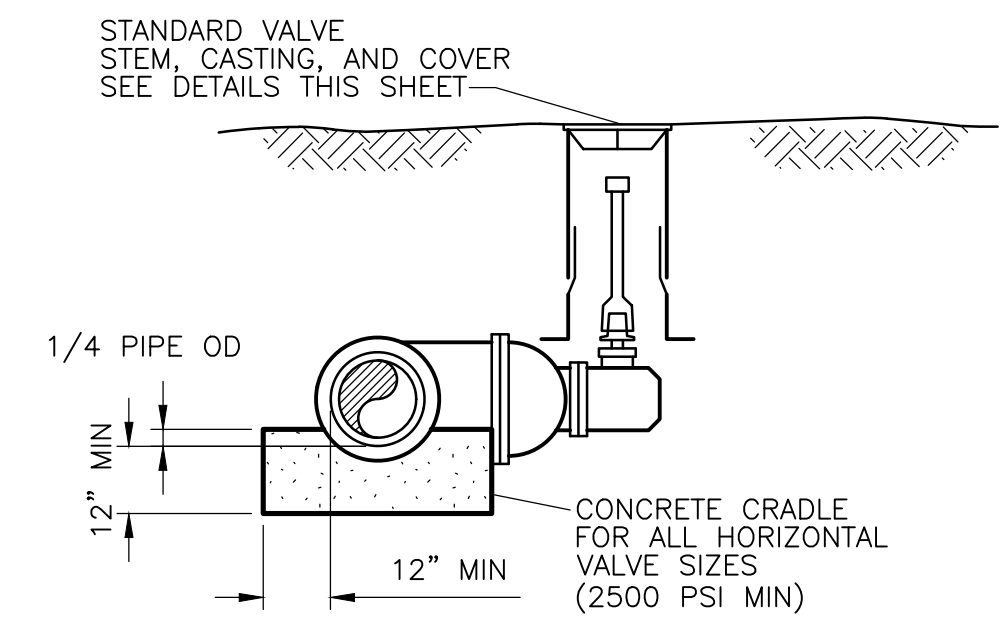
NOTES:

1. WHERE SOIL CONDITIONS CAN NOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE ALTERNATE METHOD OF CONSTRUCTION TO COMPLY WITH THE FLORIDA TRENCH SAFETY ACT, SEE SPECIFICATION SECTION 02311.
2. SHEETING WILL BE REQUIRED AS DETERMINED IN THE FIELD. SEE SPECIFICATIONS.
3. COMPACTION PERCENTAGES SHOWN REFER TO A.A.S.H.T.O. T-180.
4. FOR PVC AND HDPE PIPE - INSTALL MARKER BALLS AS SPECIFIED.
5. WHEREVER POSSIBLE, USE IN - SITU MATERIAL FOR BACK FILL PER SPECIFICATIONS.
6. ALL PIPE SHALL BE BURIED WITH IDENTIFICATION TAPE ABOVE THE TOP OF THE PIPE.
7. NO. 89 STONE BEDDING 6 INCHES BELOW INVERT TO SPRINGLINE. INSTALL IMPERMEABLE GROUNDWATER BARRIER AT 100-FOOT INTERVALS PER SPECIFICATIONS.
8. DEWATERING SHALL BE PER SPECIFICATION SECTION 02140.

TRENCH DETAIL

DETAIL D

NTS



HORIZONTAL GATE VALVE INSTALLATION

DETAIL F

NTS

- NOTES:
1. VALVE ACTUATOR AND VALVE BOX SHALL BE PLACED TOWARDS THE RIGHT-OF-WAY LINE AWAY FROM THE EDGE OF PAVEMENT.

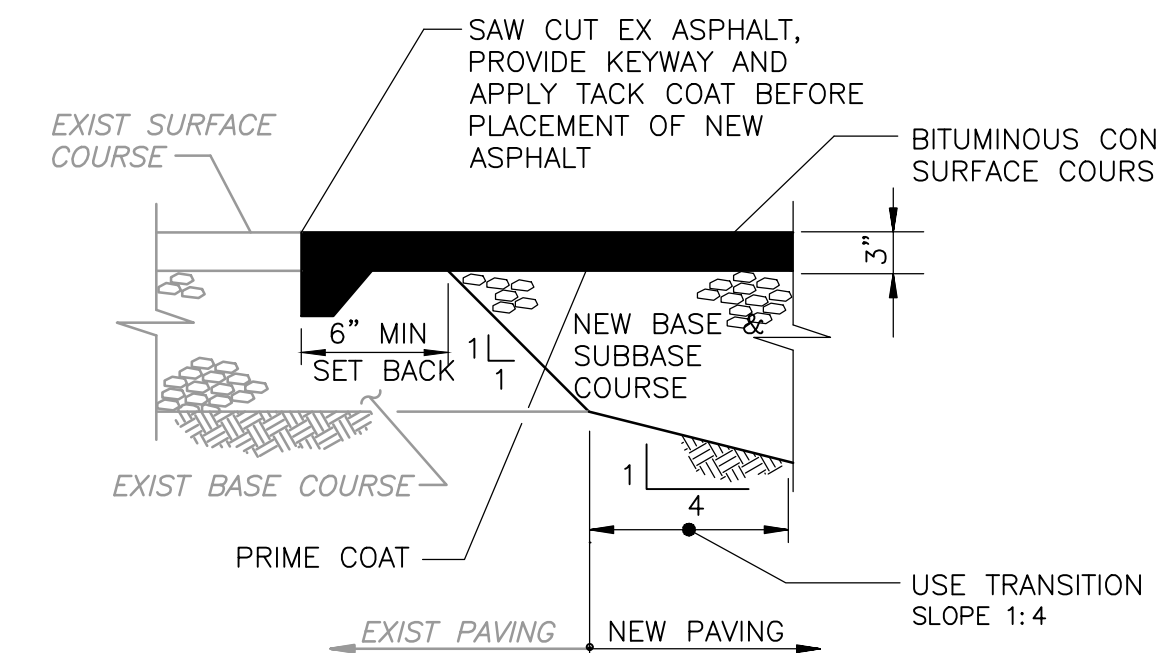
GATE VALVE TABLE	
VALVE TYPE	STATION
30" GV	30+06.01
30" GV	117+35.19
30" GV	210+30.00
30" GV	303+33.28
30" GV	396+36.18
30" GV	489+36.17
30" GV	591+31.17
30" GV	669+00.00
30" GV	768+57.15
30" GV	861+02.14
30" GV	864+86.06
30" GV	930+00.00
30" GV	996+74.38

DETAIL E

NTS

NOTE:

1. VALVE ACTUATORS SHALL BE LAID TOWARDS RIGHT OF WAY AWAY FROM EOP.



PAVEMENT TRANSITION BETWEEN NEW AND EXISTING ASPHALT PAVEMENTS

DETAIL F

NTS

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN	<p>4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-0000020</p>
DRAWN BY: D. AUST	
SHEET CHK'D BY: G. CASHON	
CROSS CHK'D BY: C. TAPPAN	
APPROVED BY: _____	
DATE: JUNE 2022	

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

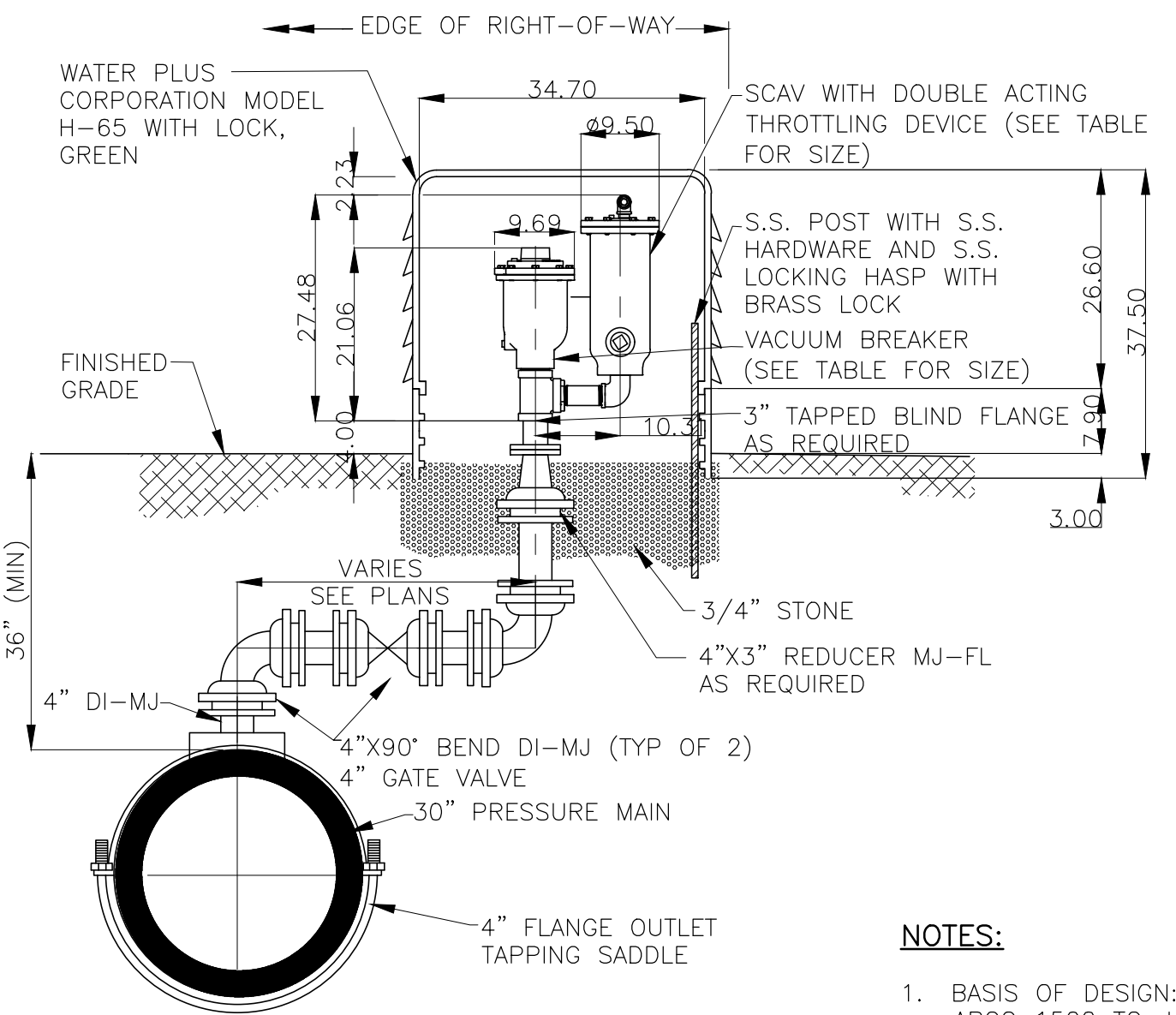
CIVIL DETAILS

DATE: CLAY M TAPPAN
 PE NO. 42772

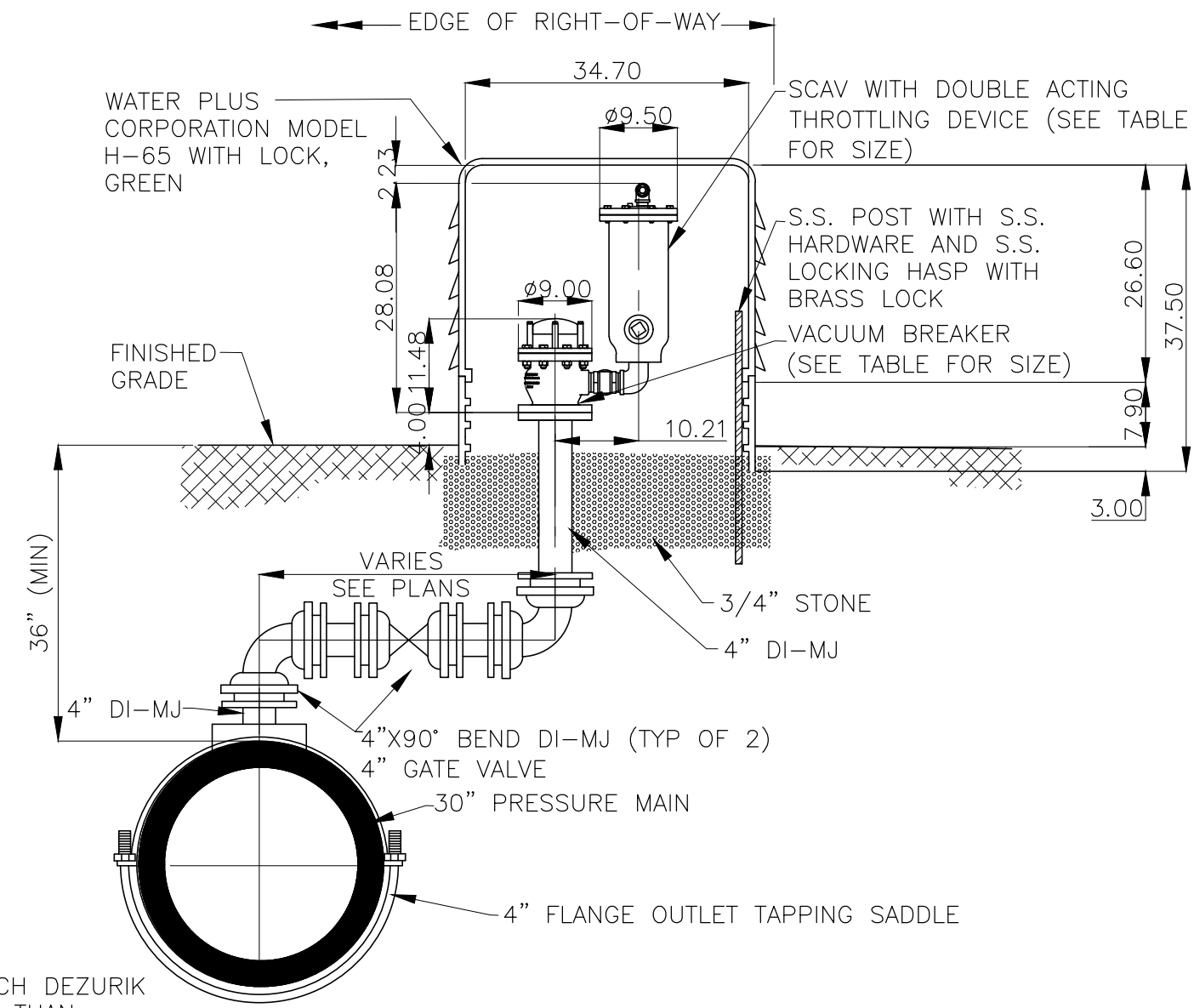
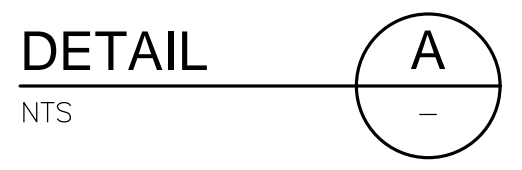
PROJECT NO. 9247-221208
 FILE NAME: CD02NFD.DWG

SHEET NO. CD-2

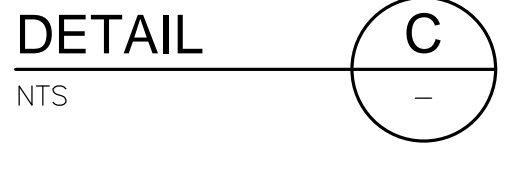
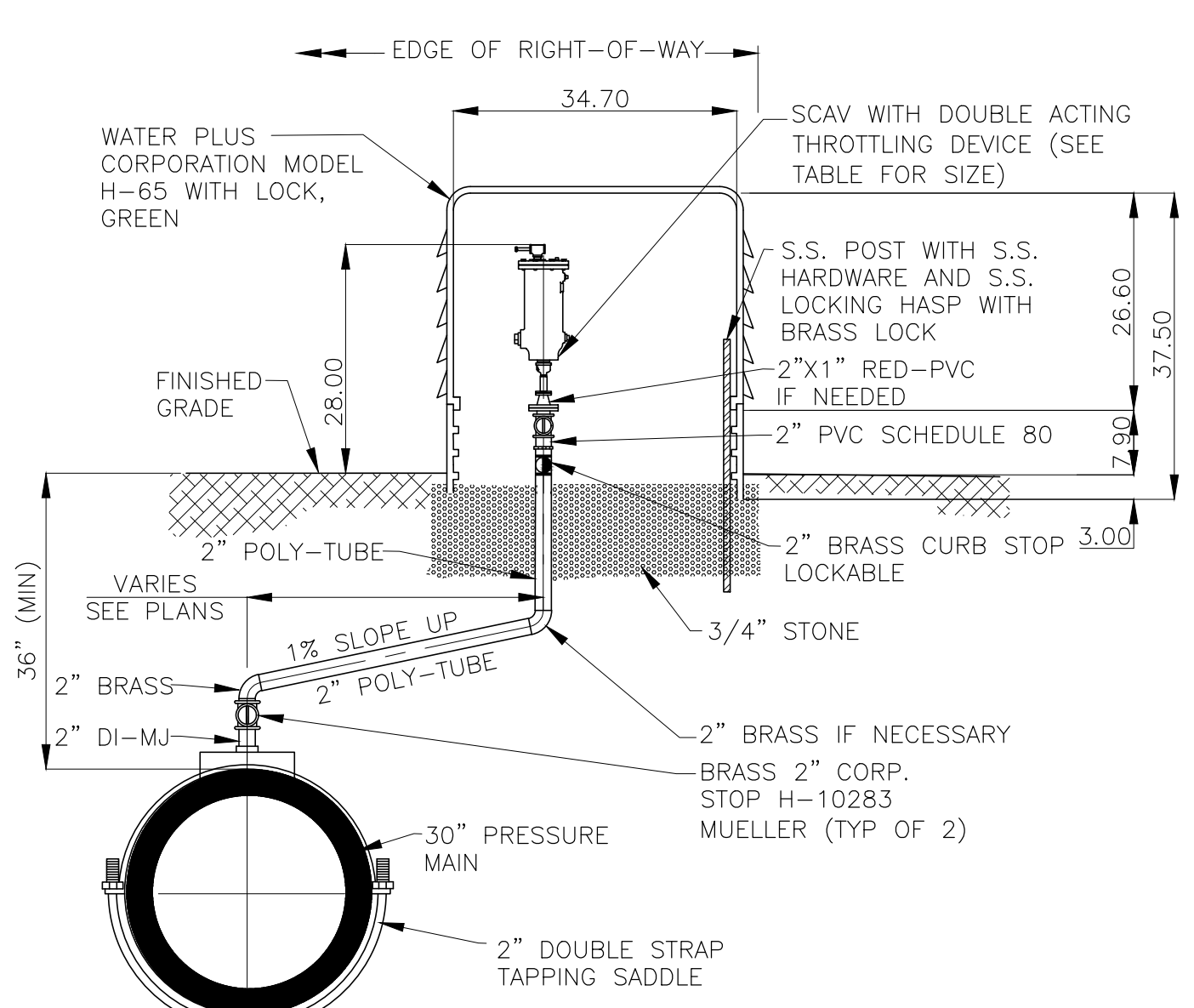
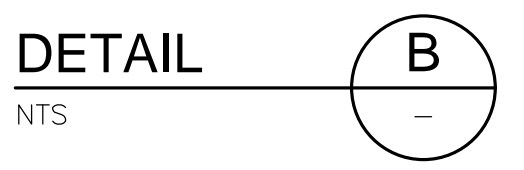
ISSUED FOR BID



3" COMBINATION AIR (CAV WITH VB) VALVE WITH VACUUM BREAKER DETAIL I



4" COMBINATION AIR (CAV WITH VB) VALVE WITH VACUUM BREAKER DETAIL II



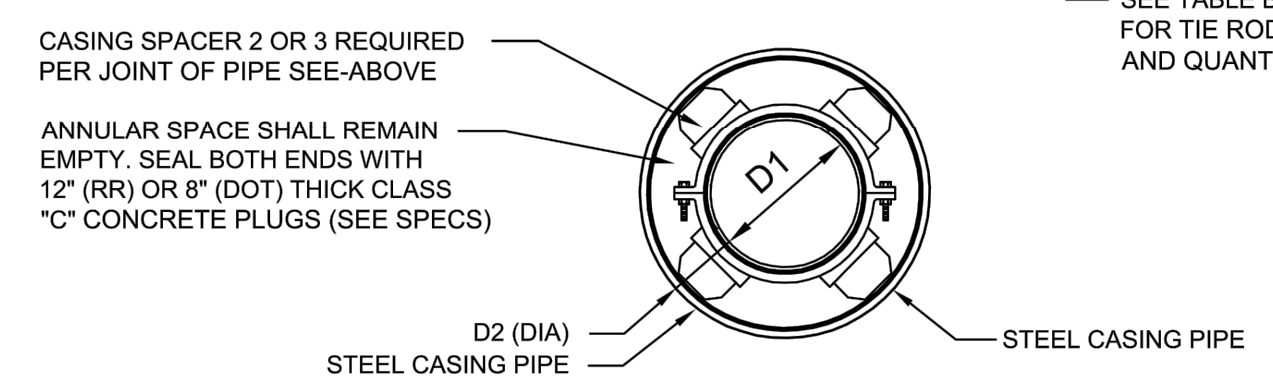
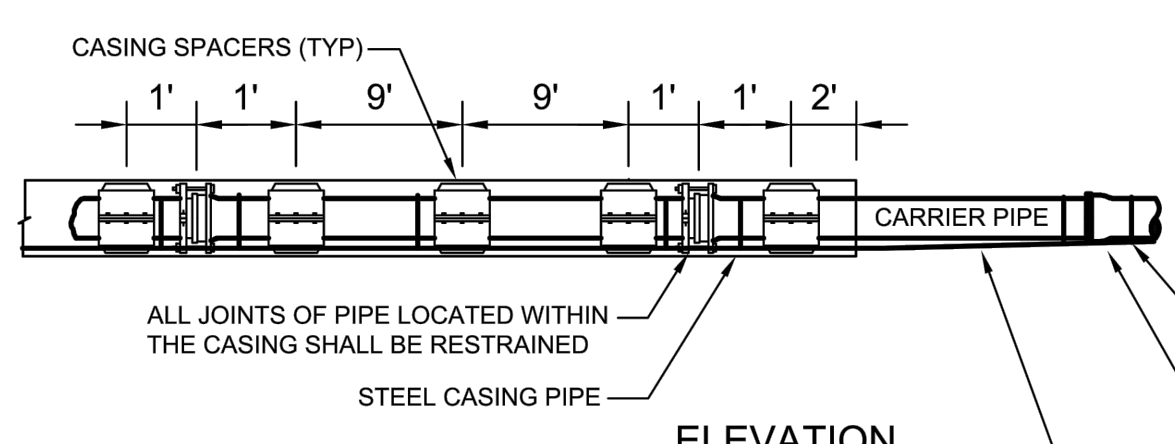
Fitting Type	Minimum Required Restraint Length (feet)			
	Station 600+00 to end	Station 370+00 to 475+00	Station 475+00 to 600+00	Station 10+00 to 370+00
11.25 Degree Bend	56	49	34	29
22.5 Degree Bend	112	99	68	59
45 Degree Bend	234	207	142	122
90 Degree Bend, Valve, Plug	564	499	343	294
Vertical Down 11.25 Degree Bend	56	49	34	29
Vertical Down 22.5 Degree Bend	112	99	68	59
Vertical Down 45 Degree Bend	234	207	142	122
Vertical Down 90 Degree Bend	564	499	343	294
Combined 45 Degree Bend	464	411	281	241

LENGTH FIGURES BASED ON FOLLOWING:
 Pressure = 200 psi, FS = 1.5, trench type = 3, 36" cover on Bare pipe, Soil type = GP & SP

RESTRAINED LENGTH SCHEDULE



APPURTENANCE TABLE					
STATION	VACUUM BREAKER SIZE -INCHES (SEE NOTE 1)	NUMBER OF VACUUM BREAKER VALVES	SCAV SIZE -INCHES (SEE NOTE 2)	NUMBER OF SCAV	NORMAL OPERATING PRESSURE BELOW 10 PSI
63+09.46	-	-	1	1	YES
155+00.00	-	1	1	1	YES
174+50.23	3	1	1	1	YES
214+50.01	3	1	1	1	YES
247+00.01	3	1	1	1	YES
265+20.02	3	1	1	1	YES
279+00.02	3	2	1	2	YES
315+56.19	3	1	1	1	YES
349+36.19	4	2	1	2	YES
402+16.17	3	1	1	1	NO
432+06.17	3	1	1	1	NO
454+96.13	3	1	1	1	NO
487+06.17	3	1	1	1	NO
507+76.18	3	1	1	1	NO
535+47.17	3	1	1	1	NO
560+61.58	3	1	1	1	NO
672+18.18	3	1	1	1	NO
710+77.05	4	1	1	1	NO
728+62.03	-	-	1	1	NO
743+48.55	-	-	1	1	NO
780+76.69	4	1	1	1	NO
808+78.31	4	1	1	1	NO
822+19.32	-	-	1	1	NO
829+37.34	-	-	1	1	NO
861+11.18	3	1	1	1	NO
890+05.04	3	1	1	1	NO
904+54.58	4	1	1	1	NO
932+05.08	3	1	1	1	NO
958+63.85	3	1	1	1	NO
996+70.45	3	1	1	1	NO

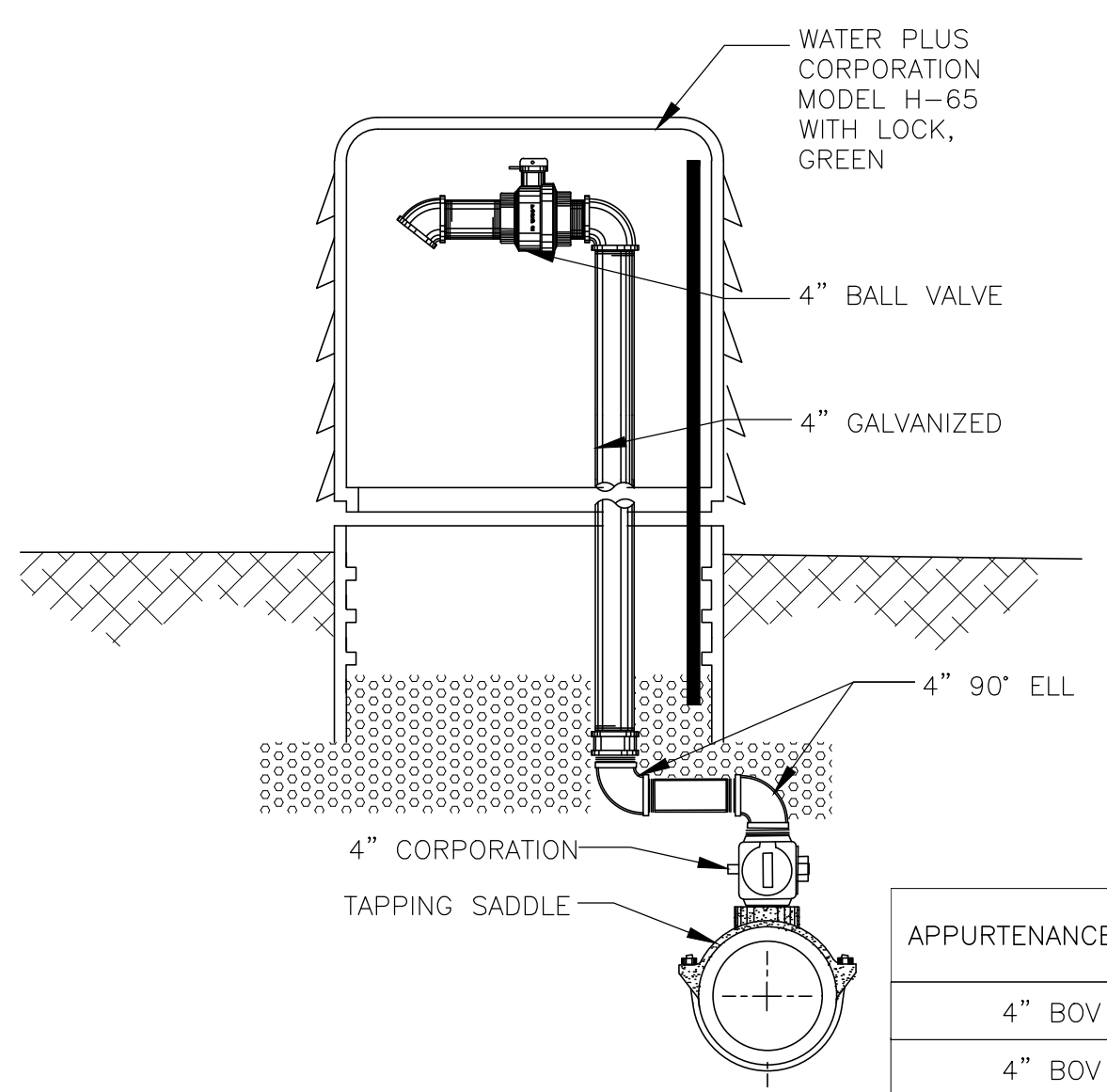
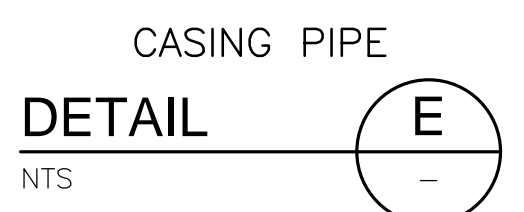


CARRIER TYPE AND CASING PIPE SIZES (MIN) IN INCHES												
CARRIER PIPE NO. DIA. (D1)	4	6	8	10	12	14	16	18	20	24	30	36
CASING PIPE NOM. DIA. (D2)	14	16	20	20	24	30	30	36	36	42	48	54
WALL THICKNESS RAILROAD (CSX)	0.25	0.281	0.375	0.375	0.375	0.469	0.469	0.469	0.562	0.625	0.688	0.781
WALL THICKNESS DOT	0.25	0.25	0.25	0.25	0.25	0.312	0.312	0.312	0.375	0.50	0.50	0.50
NUMBER OF TIE RODS (EACH END)	2	2	2	4	4	6	6	8	8	12	14	14
TIE ROD SIZE (DIA.)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"	1"

CASING SIZE SCHEDULE

- NOTES
- MIN. COVER TO TOP OF CASING; a) FDOT-3.0' b) RAILROAD-5.5' TO BASE OF RAIL, 4.5' FOR SECONDARY OR INDUSTRIAL TRACKS.
 - ALL JOINTS WITHIN CARRIER PIPE SHALL BE MECHANICAL RESTRAINED JOINTS.
 - FOR STREET USES WHICH ARE NOT DOT OR RAILROAD, USE DOT CASING THICKNESS UNLESS OTHERWISE INDICATED BY ENGINEER.
 - CASING PIPE SHALL BE FURNISHED IN NOMINAL 8 FOOT LENGTHS (MIN.) UNLESS OTHERWISE INDICATED ON THE DRAWING OR APPROVED BY CCUA.
 - PIPE TO BE USED AS A CASING SHALL CONFORM TO EITHER ASTM STANDARD A139 FOR "ELECTRIC FUSION (ARC) WELDED STEEL PIPE" WITH A MINIMUM YIELD STRENGTH OF 35,000 PSI OR "API SPECIFICATION API-5LX, GRADE X-42 WELDED STEEL PIPE".

TYPICAL CASING DETAIL - WATER (NTS)



BLOWOFF AND SAMPLE TAP



APPURTENANCE TYPE	STATION
4" BOV	728+56.06
4" BOV	822+17.32

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN
 DRAWN BY: D. AUST
 SHEET CHK'D BY: G. CASHON
 CROSS CHK'D BY: C. TAPPAN
 APPROVED BY: _____
 DATE: JUNE 2022

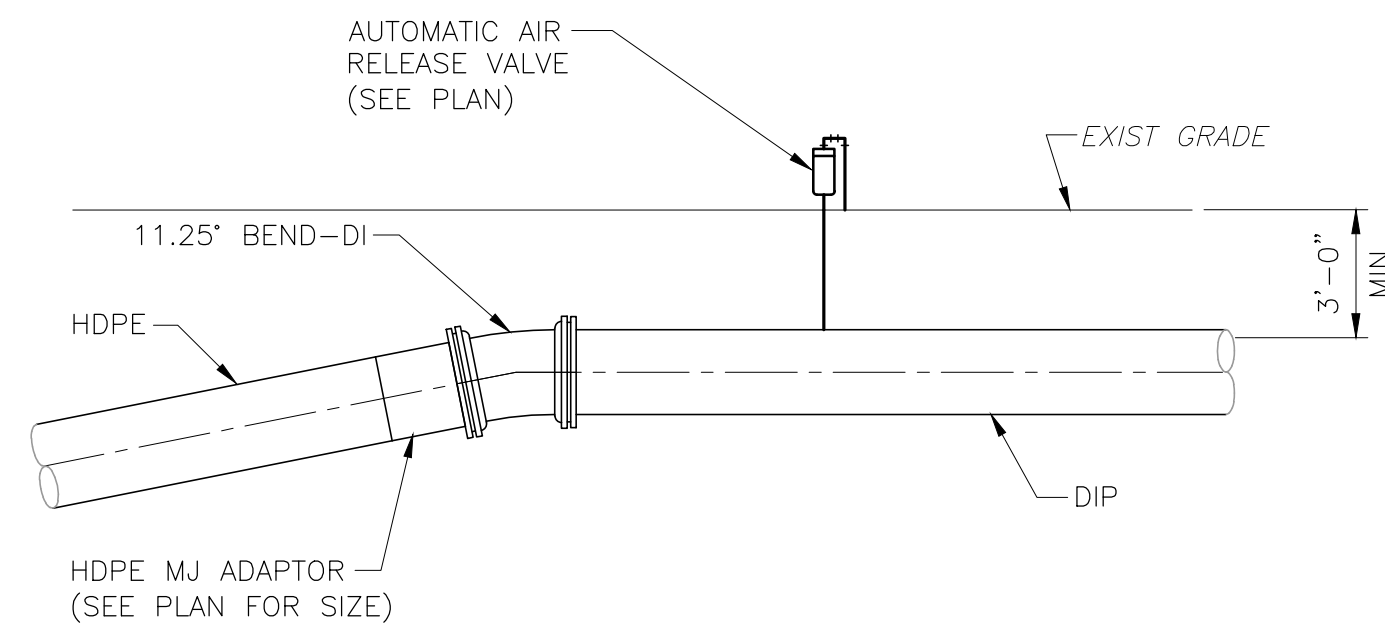


ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

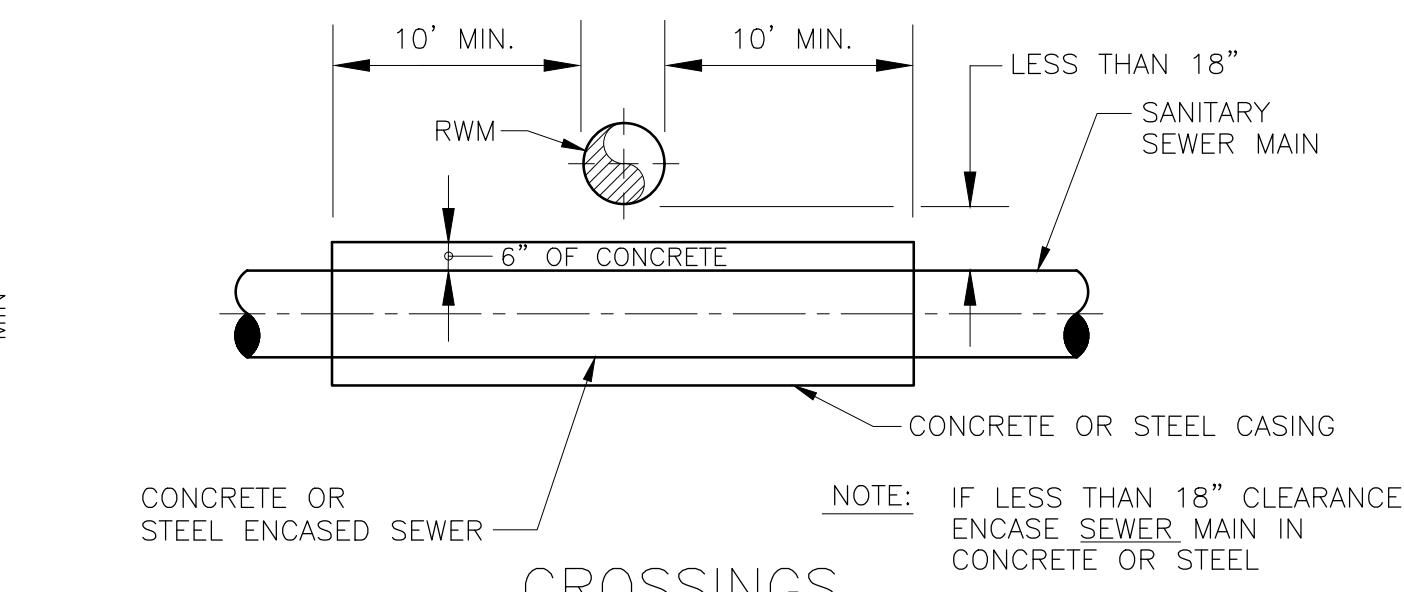
CIVIL DETAILS

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 PROJECT NO. 9247-221208
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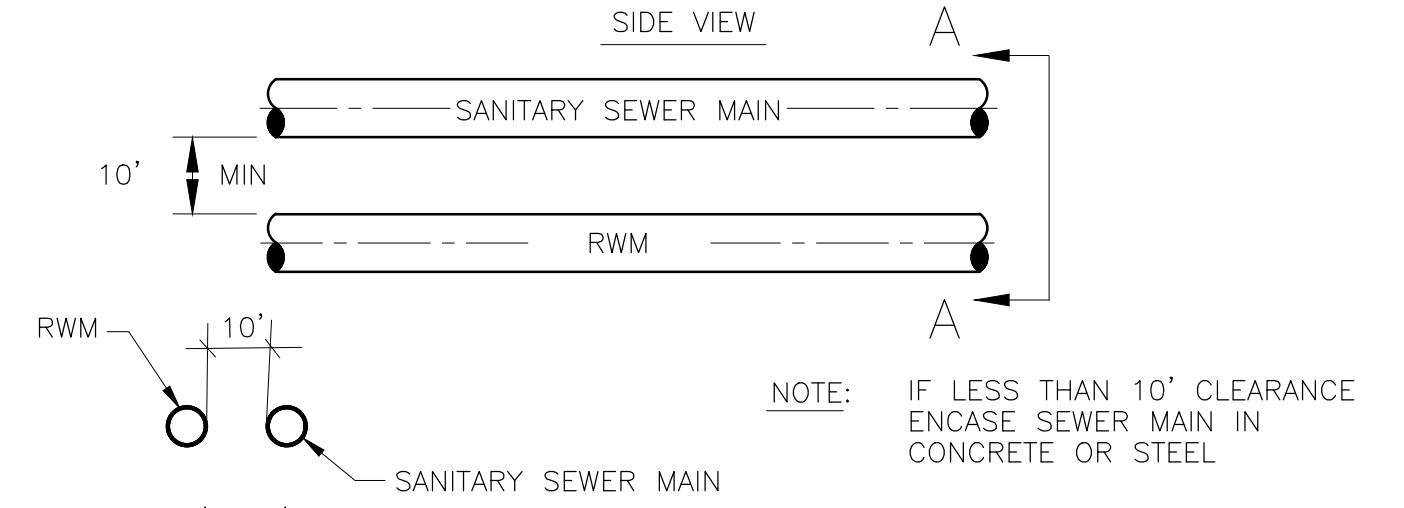
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HDPE MJ ADAPTOR DETAIL
DETAIL A
 NTS

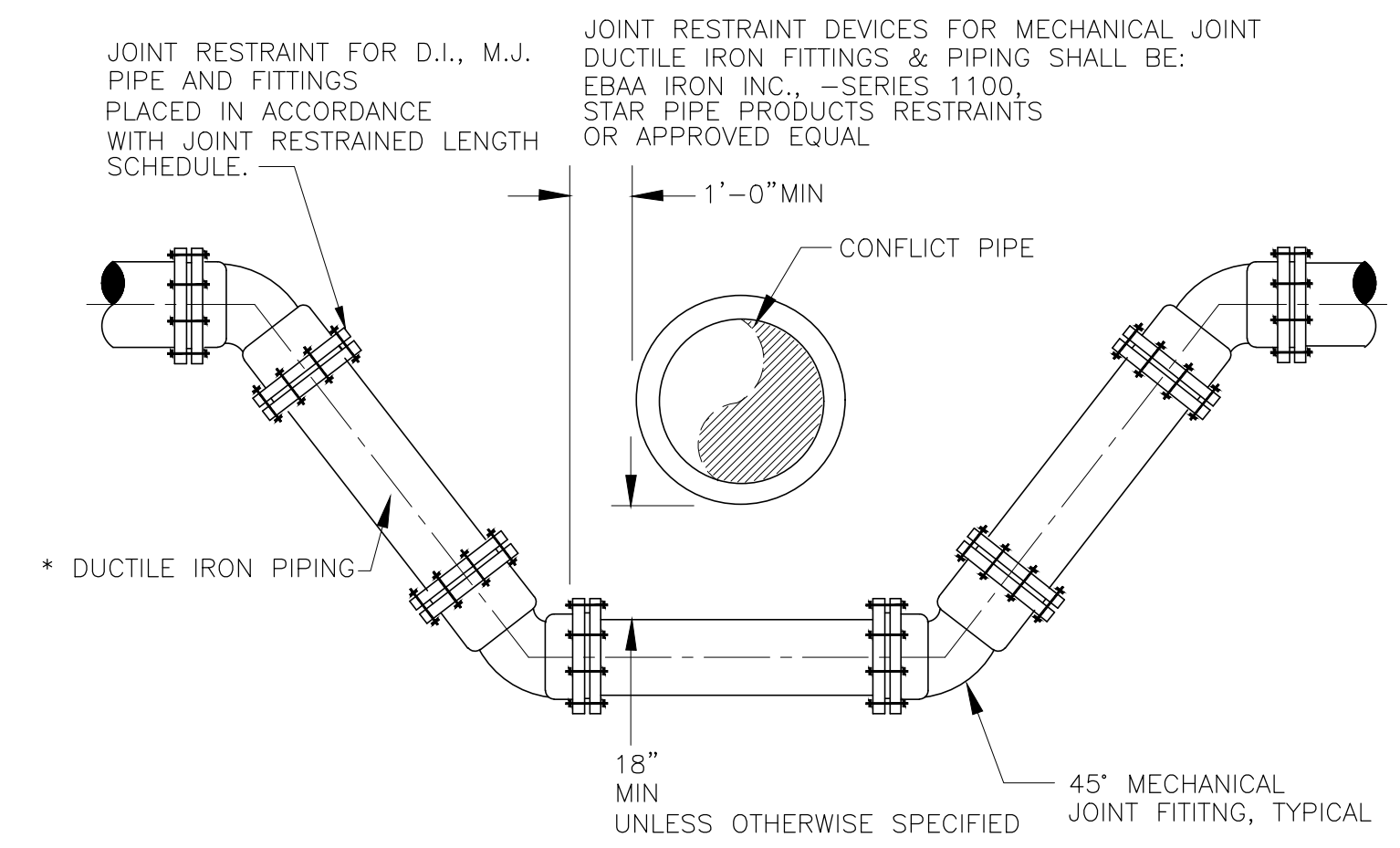


CROSSINGS



PARALLEL PLAN VIEW

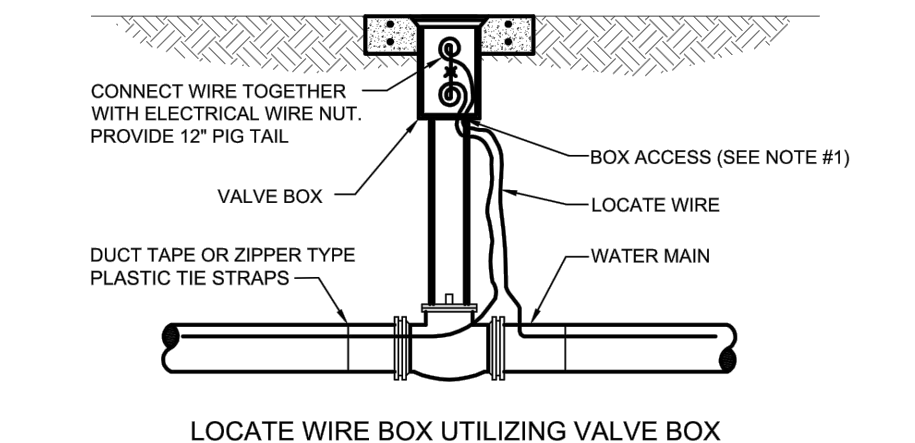
RWM AND SEWER CROSSING DETAIL
DETAIL B
 NTS



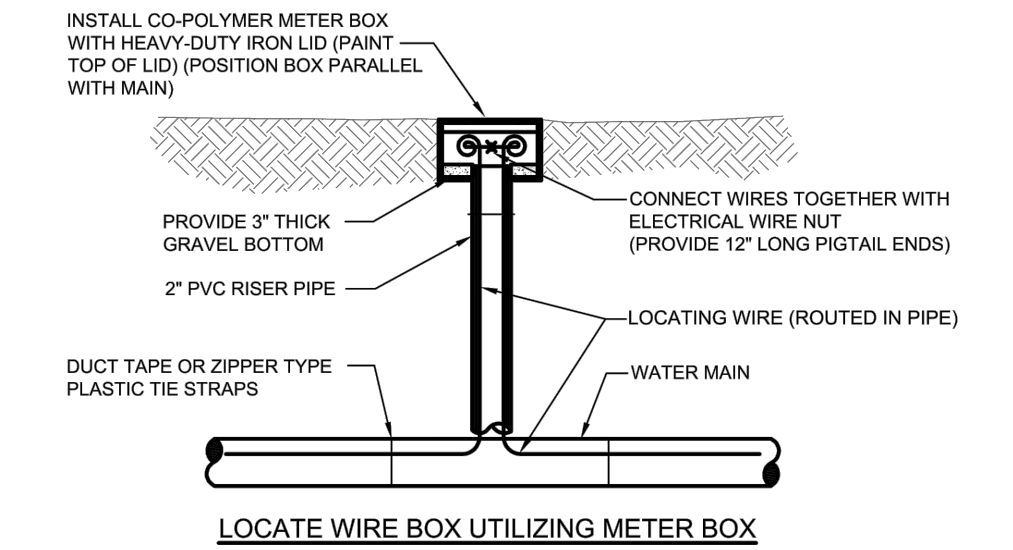
* IF MECHANICAL JOINT DUCTILE IRON FITTINGS ARE USED IN CONJUNCTION WITH P.V.C. PIPE, RESTRAINT DEVICES SHALL BE:
 EBAA IRON INC., -SERIES 2000 PV
 UNIFLANGE -SERIES 1300
 STAR PIPE PRODUCTS RESTRAINTS
 OR APPROVED EQUAL

WATER PRESSURE LINE VERTICAL OFFSET W/ DUCTILE IRON MJ FITTING & PIPE

DETAIL C
 NTS



LOCATE WIRE BOX UTILIZING VALVE BOX



LOCATE WIRE BOX UTILIZING METER BOX

NOTES
 1. LOCATE WIRE SHALL ENTER THE VALVE BOX THROUGH A 1/2" CUT IN THE 6" PVC RISER PIPE.

LOCATE WIRE BOX

DETAIL D
 NTS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. TAPPAN
DRAWN BY: D. AUST
SHEET CHK'D BY: G. CASHON
CROSS CHK'D BY: C. TAPPAN
APPROVED BY: _____
DATE: JUNE 2022

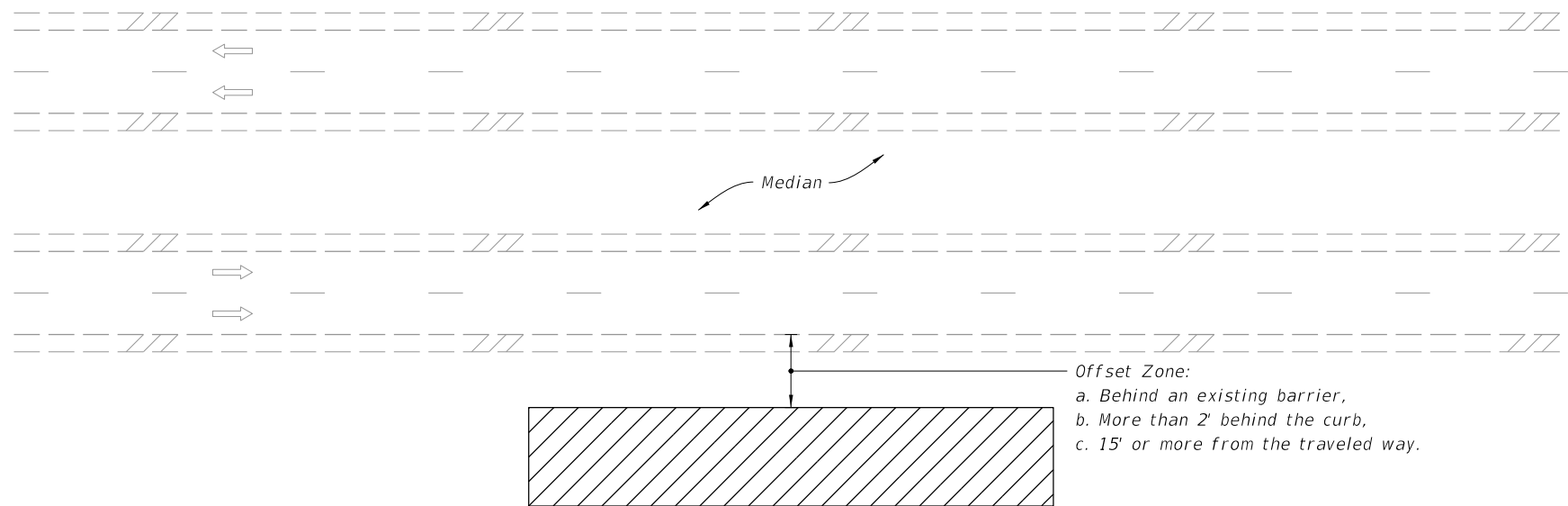


4651 Salisbury Road, Suite 420
 Jacksonville, FL 32256
 Tel: (904) 731-7109
 FL COA No. EB-0000020

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT,
 LOWER ST. JOHNS RIVER BASIN
 BLACK CREEK WATER RESOURCE
 DEVELOPMENT PROJECT
 30" RAW WATER TRANSMISSION MAIN

CIVIL DETAILS
 CD-4

DATE: CLAY M TAPPAN PE NO. 42772
PROJECT NO. 9247-221208 FILE NAME: CD04NFD.DWG
SHEET NO. CD-4





=====**MULTILANE ROADWAY SHOWN, TWO-LANE ROADWAY SIMILAR**=====

NOTES:

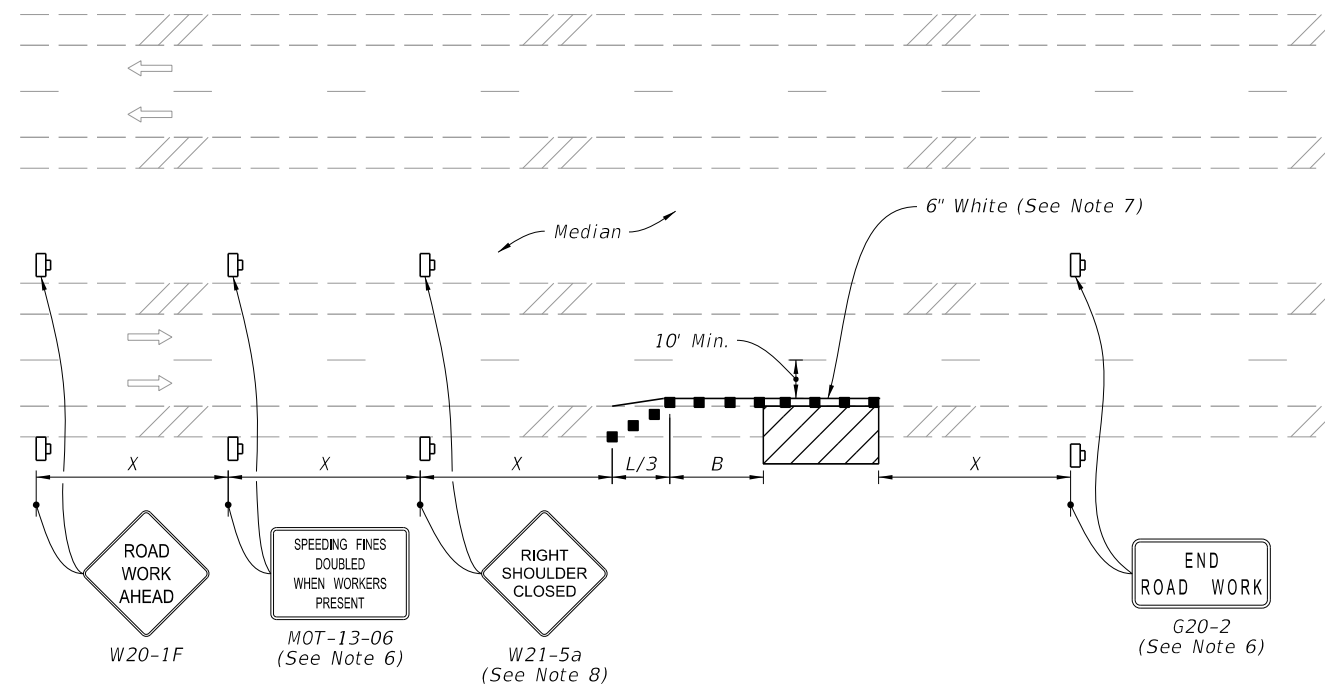
1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work beyond the shoulder.
2. Use Index 102-602 when the work operation (excluding establishing and terminating the work area) requires that two or more work vehicles cross the Offset Zone in any one hour period.
3. Use Index 102-660 when Work Area encroaches a Sidewalk.

SYMBOLS:

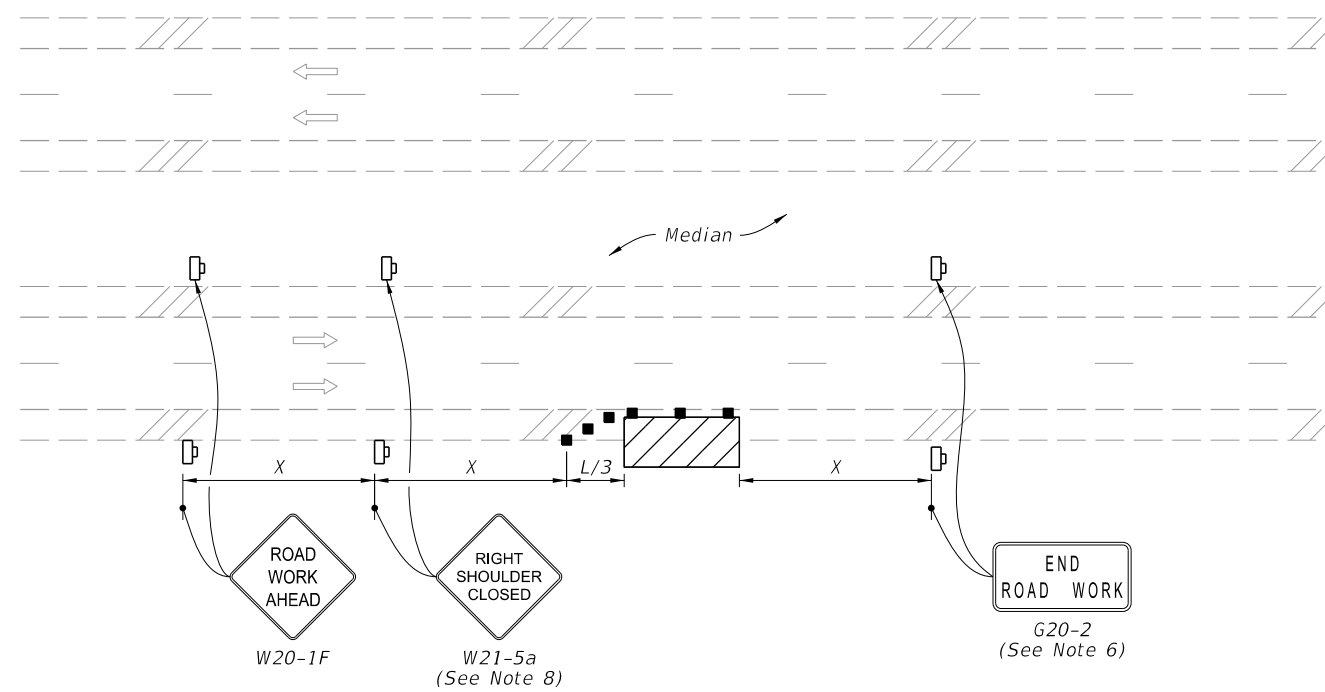
-  Work Area
-  Lane Identification and Direction of Traffic

9/21/2021 12:16:02 PM

LAST REVISION 11/01/20	REVISION	DESCRIPTION:		FY 2022-23 STANDARD PLANS	TWO-LANE AND MULTILANE ROADWAY, WORK BEYOND THE SHOULDER	INDEX 102-601	SHEET 1 of 1
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





MULTILANE ROADWAY
 SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
 WITH WORK ZONE SPEED OF 45 MPH OR LESS




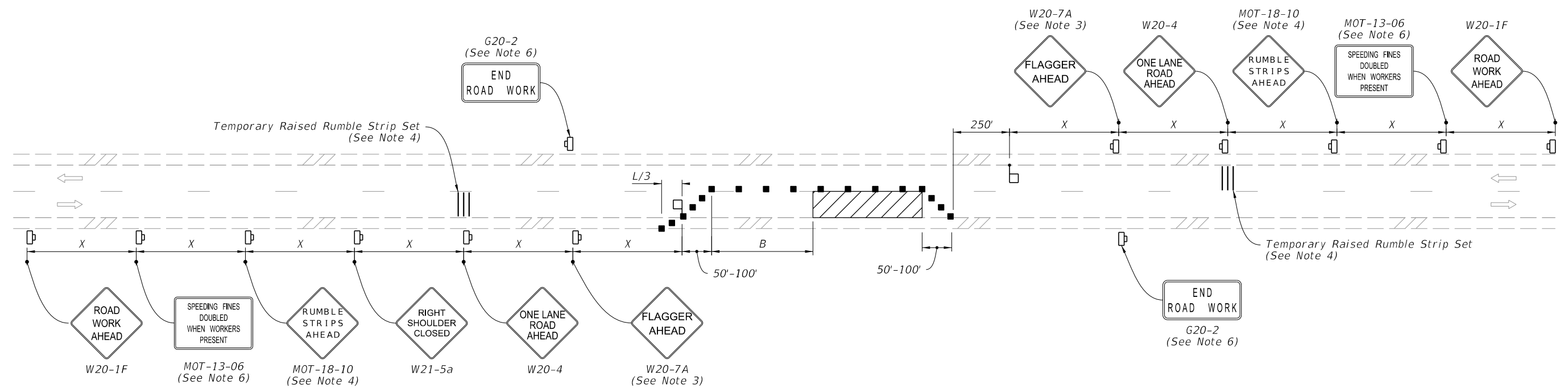
MULTILANE ROADWAY
 SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

SYMBOLS:

-  Work Area
-  Channelizing Device (See Index 102-600)
-  Work Zone Sign
-  Lane Identification and Direction of Traffic

9/23/2021 2:40:49 PM

LAST REVISION 11/01/20	REVISION	DESCRIPTION:	 FY 2022-23 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX 102-602	SHEET 2 of 2
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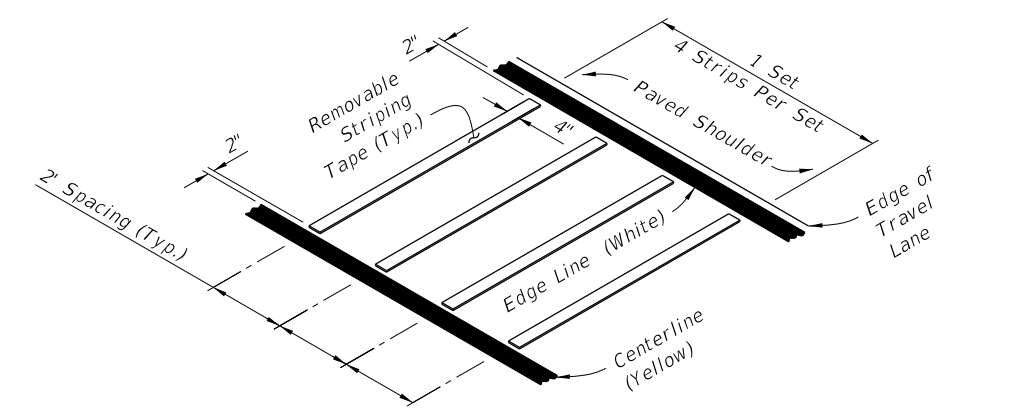
NOTES:

- This Index applies to Two-Lane, Two-Way Roadways with work within the traveled way.
- L = Taper Length
B = Buffer Length
X = Work Zone Sign Spacing
See Index 102-600 for "L", "B", "X" and channelizing device spacing values.
- Optionally, use "Flagger Ahead" sign with symbol (W20-7) instead of "Flagger Ahead" sign with text (W20-7A).
- Use temporary raised rumble strips when the existing posted speed is 55 mph or greater and the work duration is greater than 60 minutes. If temporary raised rumble strips are not used, omit "Rumble Strips Ahead" signs (MOT-18-10) and associated work zone sign spacing.
- Additional one-way control may be provided by the following means:
 - Flag-carrying vehicle
 - Official vehicle
 - Pilot vehicles
 - Traffic signals
- The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" signs (G20-2), along with associated work zone sign spacing, may be omitted when the work operation will be in place for 24 hours or less.
- Automated Flagger Assistance Devices (AFADs) may be used in accordance with Specification Sections 102, 990 and the APL vendor drawings.
- Railroad Crossings:
 - If an active railroad crossing is located closer to the Work Area than the queue length plus 300 feet, extend the Buffer Space as shown on Sheet 2.
 - If the queuing of vehicles across an active railroad crossing cannot be avoided, provide a uniformed traffic control officer or flagger at the highway-rail grade crossing to prevent vehicles from stopping within the highway-rail grade crossing, even if automatic train warning devices are in place.

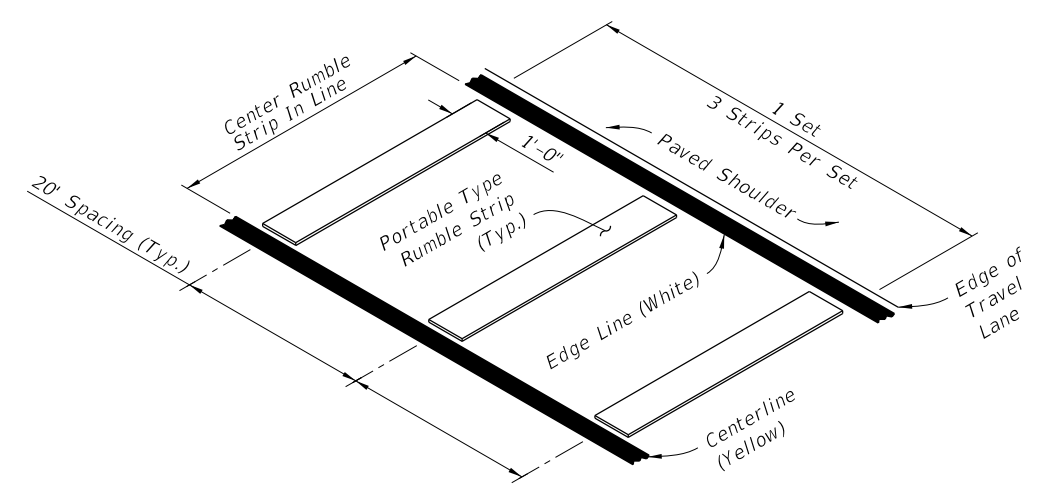
When flaggers are the sole means of one-way control, the flaggers must be in sight of each other or in direct communication at all times.

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Flagger
- Lane Identification and Direction of Traffic



**OPTION - 1
REMOVABLE STRIPING TYPE**

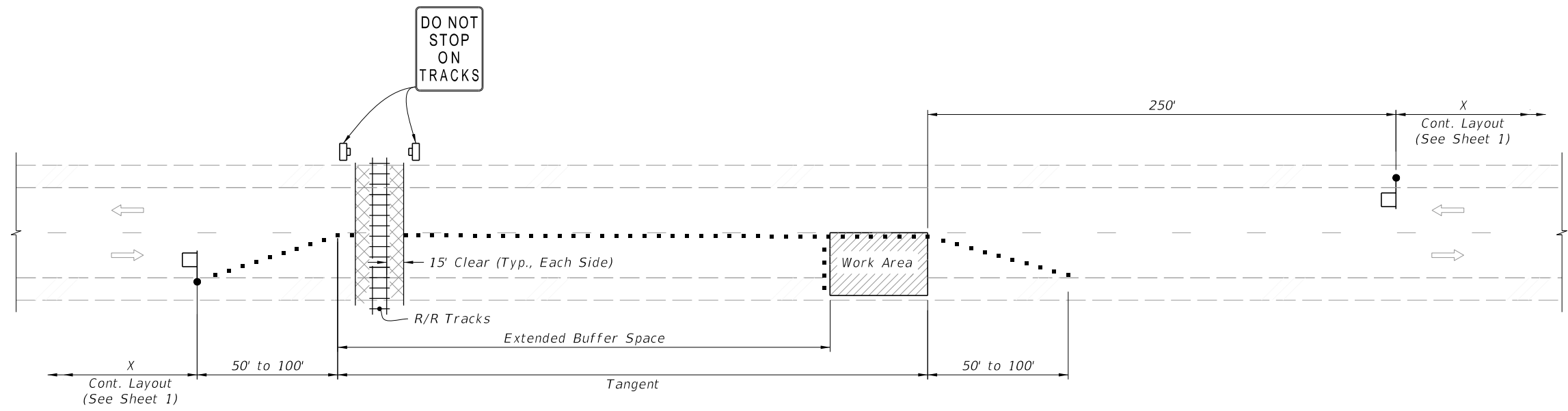


**OPTION - 2
PORTABLE TYPE**

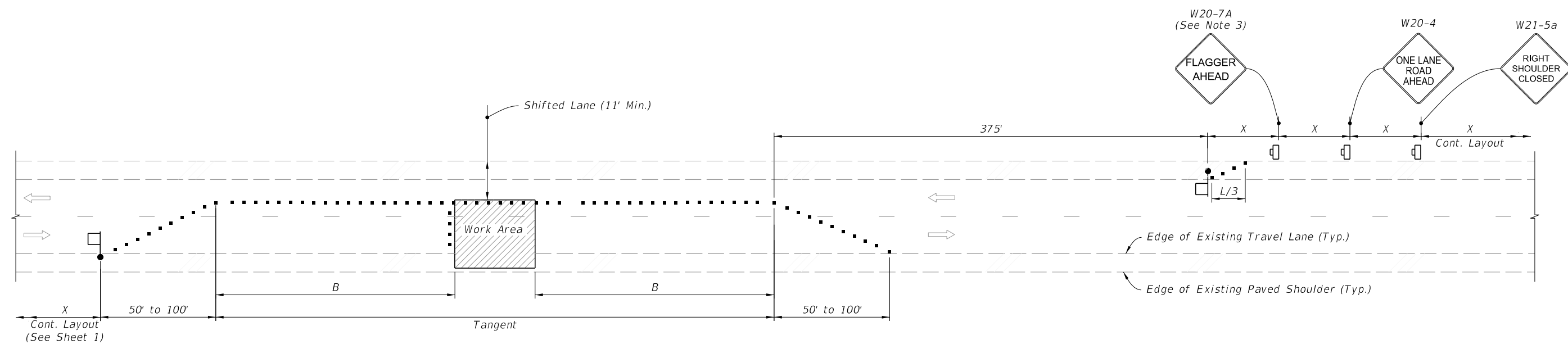
RUMBLE STRIP SETS

9/23/2021 2:41:17 PM

LAST REVISION 11/01/21	DESCRIPTION:	 FY 2022-23 STANDARD PLANS	TWO-LANE, TWO-WAY WORK WITHIN THE TRAVEL WAY	INDEX 102-603	SHEET 1 of 2
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TEMPORARY RAILROAD CROSSING BUFFER SPACE EXTENSION



TEMPORARY LANE SHIFT TO SHOULDER WHEN WORK AREA ENCROACHES ON THE CENTERLINE
 (For Work Operations In place 24 Hours or Less)

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Flagger
- Lane Identification and Direction of Traffic

SPECIAL CONDITIONS

9/23/2021 2:41:18 PM

LAST REVISION 11/01/21	REVISION	DESCRIPTION:		FY 2022-23 STANDARD PLANS	TWO-LANE, TWO-WAY WORK WITHIN THE TRAVEL WAY	INDEX 102-603	SHEET 2 of 2
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