

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS

ROADWAY CONTRACT PLANS

66TH AVENUE FROM 69TH STREET
TO SR-510/85TH STREET

INDIAN RIVER COUNTY PROJECT No. IRC-I505B
FDOT FPID No. 436379-2-5I-0I

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LANDSCAPE SHOP DRAWINGS
TO BE SUBMITTED TO:
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REGISTRY No. 696

LANDSCAPE PLANS
LANDSCAPE ARCHITECT OF RECORD: MATTHEW FRANKO

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LANDSCAPE / IRRIGATION CONTRACT PLANS

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

BID PLANS
OCTOBER 2022

PREPARED FOR



Department of Public Works

RICHARD B. SZPYRKA P.E., DIRECTOR

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
"DESIGN STANDARDS" DATED JANUARY 2016,
AND "STANDARDS SPECIFICATIONS FOR ROAD
AND BRIDGE CONSTRUCTION" DATED 2016, AS
AMENDED BY CONTRACT DOCUMENTS.

SHEET
NO.

LD-1

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

GENERAL LANDSCAPE SPECIFICATIONS AND NOTES

A. SCOPE OF WORK

1. THE WORK CONSISTS OF FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS HEREIN SPECIFIED.
2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL PLANTING AREAS OF THIS CONTRACT UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER.

B. PROTECTION OF EXISTING STRUCTURES

ALL EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, AND OTHER ITEMS OF CONSTRUCTION AND PLANTING ALREADY COMPLETED OR ESTABLISHED SHALL BE PROTECTED FROM DAMAGE BY THIS CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER.

C. PROTECTION OF EXISTING PLANT MATERIALS OUTSIDE LIMIT OF WORK

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES AND SHRUBS EXISTING OR OTHERWISE, CAUSED BY CARELESS OPERATION OF EQUIPMENT, STOCKPIILING OF MATERIALS, ETC. THIS SHALL INCLUDE COMPACTION BY DRIVING OR PARKING INSIDE THE DRIP-LINE OR THE SPILLING OF OIL, GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIP-LINE. NO MATERIALS SHALL BE BURNED WHERE THE HEAT WILL DAMAGE ANY PLANT. TREES KILLED OR DAMAGED SO THAT THEY ARE MISSHAPEN AND/ OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF ONE HUNDRED DOLLARS (\$100) PER CALIPER INCH ON AN ESCALATING SCALE WHICH ADDS AN ADDITIONAL TWENTY (20) PER CENT PER INCH OVER FOUR (4) INCHES CALIPER AS FIXED AND AGREED LIQUIDATED DAMAGES. CALIPER SHALL BE MEASURED SIX (6) INCHES ABOVE GROUND LEVEL FOR TREES UP TO AND INCLUDING FOUR (4) INCHES IN CALIPER AND TWELVE (12) INCHES ABOVE GROUND LEVEL FOR TREES OVER FOUR (4) INCHES IN CALIPER.

D. MATERIALS

1. GENERAL

SAMPLES OF MATERIALS AS LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL, ON THE SITE OR AS OTHERWISE DETERMINED BY THE OWNER. UPON APPROVAL OF SAMPLES, DELIVERY OF MATERIALS MAY BEGIN.

MATERIALS	SAMPLES
MULCH	ONE (1) CUBIC FOOT
TOPSOIL	ONE (1) CUBIC YARD
PLANTS	ONE (1) OF EACH VARIETY

2. PLANT MATERIALS

A. PLANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS. NOMENCLATURE SHALL CONFORM TO STANDARDIZED PLANT NAMES, 1942 EDITION. ALL NURSERY STOCK SHALL BE IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS PARTS I AND II, LATEST EDITION PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. ALL PLANTS SHALL BE FLORIDA GRADE NO. 1 OR BETTER AS DETERMINED BY THE FLORIDA DIVISION OF PLANT INDUSTRY. ALL PLANTS SHALL BE FRESHLY DUG, SOUND, HEALTHY, VIGOROUS, WELL-BRANCHED AND FREE OF DISEASE AND INSECTS, INSECT EGGS AND LARVAE AND SHALL HAVE ADEQUATE ROOT SYSTEMS. TREES FOR PLANTING IN ROWS SHALL BE UNIFORM IN SIZE AND SHAPE. ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER. WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL BE NORMAL FOR THE VARIETY. PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY UPON THE APPROVAL OF THE OWNER.

B. MEASUREMENTS: THE HEIGHT AND/OR WIDTH OF TREES SHALL BE MEASURED FROM THE GROUND OR ACROSS THE NORMAL SPREAD OF BRANCHES WITH THE PLANTS IN THEIR NORMAL POSITION. THIS MEASUREMENT SHALL NOT INCLUDE THE IMMEDIATE TERMINAL GROWTH. PLANTS LARGER IN SIZE THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED IF APPROVED BY THE OWNER. IF THE USE OF LARGER PLANTS IS APPROVED, THE BALL OF EARTH OR SPREAD OF ROOTS SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT.

C. INSPECTION: PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER, FOR QUALITY, SIZE, AND VARIETY; SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION AT THE SITE DURING PROGRESS OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF BALLS OR ROOTS, LATENT DEFECTS OR INJURIES. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE.

E. TOPSOIL AND SAND

TOPSOIL FOR USE IN PREPARING SOIL FOR BACKFILLING PLANT PITS SHALL BE THIRTY PERCENT (30%) MUCK AND SEVENTY PERCENT (70%) SAND AND BE FERTILE, FRIABLE, AND OF A LOAMY CHARACTER, WITHOUT MIXTURE OF SUBSOIL MATERIALS, AND OBTAINED FROM A WELL-DRAINED, ARABLE SITE. IT SHALL CONTAIN THREE (3) TO FIVE (5) PERCENT DECOMPOSED ORGANIC MATTER AND SHALL BE FREE FROM HEAVY CLAY, COARSE SAND, STONES, LIME, LUMPS, PLANTS, ROOTS OR OTHER FOREIGN MATERIALS, OR NOXIOUS WEEDS. IT SHALL NOT CONTAIN TOXIC SUBSTANCES WHICH MAY BE HARMFUL TO PLANT GROWTH. PH RANGE SHALL BE 5.0 TO 7.0 INCLUSIVE.

SAND SHALL BE COARSE, CLEAN, WELL DRAINING NATIVE SAND. CONTRACTOR SHALL SUBMIT RESULTS OF SOIL TESTS FOR TOPSOIL AND SAND PROPOSED FOR USE UNDER THIS CONTRACT FOR APPROVAL BY THE OWNER.

TREES SHALL BE PLANTED IN THE EXISTING NATIVE SOIL ONSITE UNLESS DETERMINED TO BE UNSUITABLE AT WHICH POINT THE CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT TO DISCUSS ALTERNATE RECOMMENDATION PRIOR TO PLANTING.

F. WATER

WATER NECESSARY FOR PLANTING AND MAINTENANCE SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN AN ADEQUATE GROWTH OF PLANTS AND SHALL NOT CONTAIN HARMFUL, NATURAL OR MAN-MADE ELEMENTS DETRIMENTAL TO PLANTS. WATER MEETING THE ABOVE STANDARD SHALL BE OBTAINED ON THE SITE FROM THE OWNER, IF AVAILABLE, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR ITS USE BY HIS TANKS, HOSES, SPRINKLERS, ETC. IF SUCH WATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SUCH SATISFACTORY WATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE OWNER.

G. COMMERCIAL FERTILIZER

COMMERCIAL FERTILIZER SHALL BE A COMPLETE FORMULA; IT SHALL BE UNIFORM IN COMPOSITION, DRY AND FREE FLOWING. THIS FERTILIZER SHALL BE DELIVERED TO THE SITE IN THE ORIGINAL UNOPENED CONTAINERS, EACH BEARING THE MANUFACTURER'S GUARANTEED STATEMENT OF ANALYSIS.

FIFTY PERCENT (50%) OF THE NITROGEN SHALL BE DERIVED FROM NATURAL ORGANIC SOURCES. THE FOLLOWING FERTILIZERS SHALL BE USED AND APPLIED AT RATES AS SUGGESTED BY MANUFACTURER'S SPECIFICATIONS:

- SHRUBS AND TREES – MILORGANITE, OR APPROVED EQUAL
- ANNUALS AND GROUNDCOVERS – OSMOCOTE/SIERRA BLEND 14-14-14
- SOD – 8-8-8 FERTILIZER

IN ADDITION TO SURFACE APPLIED FERTILIZERS, ALL CONTAINER GROWN AND FIELD GROWN PLANT MATERIAL SHALL RECEIVE "AGRIFORM" PLANTING TABLETS 24-10-5 FORMULA, 21 GRAM OR EQUAL. THESE TABLETS SHALL BE PLACED AT A DEPTH OF ROOT BALL AT THE RATE AS SPECIFIED BY MANUFACTURER.

H. MULCH

MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A DEPTH OF 3 INCHES. SEE PLANT LIST FOR TYPE OF MATERIAL (E.G. "FLORA-MULCH," EUCALYPTUS MULCH, OR PINE STRAW) AND GRADE.

I. DIGGING AND HANDLING

1. PROTECT ROOTS OR BALLS OF PLANTS AT ALL TIMES FROM SUN AND DRYING WINDS, WATER AND FREEZING, AS NECESSARY UNTIL PLANTING. PLANT MATERIALS SHALL BE ADEQUATELY PACKED TO PREVENT BREAKAGE AND DRYING OUT DURING TRANSIT. TREES TRANSPORTED MORE THAN TEN (10) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (3) DAYS OF DELIVERY TO SITE SHALL BE SPRAYED WITH AN ANTITRANSPIRANT PRODUCT ("WILTPRUF" OR EQUAL) TO MINIMIZE TRANSPIRATIONAL WATER LOSS.

2. BALLED AND BURLAPPED PLANTS (B&B) SHALL BE DUG WITH FIRM, NATURAL BALLS OF SOIL OF SUFFICIENT SIZE TO ENCOMPASS THE FIBROUS AND FEEDING ROOTS OF THE PLANTS. NO PLANTS MOVED WITH A BALL SHALL BE PLANTED IF THE BALL IS CRACKED OR BROKEN. PLANTS BALLED AND BURLAPPED OR CONTAINER GROWN SHALL NOT BE HANDLED BY STEMS.

3. PLANTS MARKED "BR" IN THE PLANT LIST SHALL BE DUG WITH BARE ROOTS. THE ROOTS SHALL NOT BE CUT WITHIN THE MINIMUM SPREAD SPECIFIED IN THE PLANT LIST. CARE SHALL BE EXERCISED THAT THE ROOTS DO NOT DRY OUT IN MOVING AND PRIOR TO PLANTING.

4. PROTECTION OF PALMS (IF APPLICABLE): ONLY A MINIMUM OF FRONDS SHALL BE REMOVED FROM THE CROWN OF THE PALM TREES TO FACILITATE MOVING AND ANDLING. CLEAR TRUNK (CT) SHALL BE AS SPECIFIED AFTER THE MINIMUM OF FRONDS HAVE BEEN REMOVED. ALL PALMS SHALL BE BRACED PER DETAIL.

5. EXCAVATION OF TREE PITS SHALL BE DONE USING EXTREME CARE TO AVOID DAMAGE TO SURFACE AND SUBSURFACE ELEMENTS SUCH AS UTILITIES OR HARDSCAPE ELEMENTS, FOOTERS AND PREPARED SUB- BASES.

J. CONTAINER GROWN STOCK

1. ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED PLANTS AND ESTABLISHED IN THECONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE OF GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION.

2. AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER SUFFICIENTLY LONG FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER. CONTAINER GROWN STOCK SHALL NOT BE HANDLED BY THEIR STEMS.

3. PLANT ROOTS BOUND IN CONTAINERS SHALL NOT BE ACCEPTABLE.

4. SUBSTITUTION OF NON-CONTAINER GROWN MATERIAL FOR MATERIAL EXPLICITLY SPECIFIED TO BE CONTAINER GROWN WILL NOT BE PERMITTED UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE OWNER AND LANDSCAPE ARCHITECT.

K. COLLECTED STOCK

WHEN THE USE OF COLLECTED STOCK IS PERMITTED AS INDICATED ON THE PLANT LIST SCHEDULE, THE MINIMUM SIZES OF ROOTBALLS SHALL BE EQUAL TO THAT SPECIFIED FOR THE NEXT LARGER SIZE OF NURSERY GROWN STOCK OF THE SAME VARIETY.

L. NATIVE STOCK

PLANTS COLLECTED FROM WILD OR NATIVE STAMDS SHALL BE CONSIDERED NURSERY GROWN WHEN THEY HAVE BEEN SUCCESSFULLY RE-ESTABLISHED IN A NURSERY ROW AND GROWN UNDER REGULAR NURSERY CULTURAL PRACRICES FOR A MINIMUM OF TWO (2) GROWING SEASONS AND HAVE ATTAINED ADEQUATE ROOT AND TOP GROWTH TO INDICATE FULL RECOVERY FROM TRANSPLANTING INTO THE NURSERY ROW.

M. MATERIALS LIST

QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED BY THE CONTRACTOR. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE LANDSCAPE ARCHITECT OR OWNER ASSUMES NO LIABILITY FOR OMISSIONS OR ERRORS. SHOULD A DISCREPANCY OCCUR BETWEEN THE BIDDERS TAKE OFF AND THE PLANT LIST QUANTITY, THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO THE SUBMISSIONS OF BIDS. ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE.

N. FINE GRADING

1. FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS. BERMING AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR, UNLESS OTHERWISE NOTED.

2. THE LANDSCAPE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROUGH GRADE UP TO FINAL FINISHED GRADE ALLOWING FOR THICKNESS OF SOD AND/OR MULCH DEPTH. THIS CONTRACTOR SHALL FINE GRADE BY HAND AND/OR WITH ALL EQUIPMENT NECESSARY INCLUDING A GRADING TRACTOR WITH FRONT-END LOADER FOR TRANSPORTING SOIL WITHIN THE SITE.

3. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER. AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS.

O. PLANTING PROCEDURES

1. CLEANING UP BEFORE COMMENCING WORK: THE CONTRACTOR SHALL CLEAN UP WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER. ALL MORTAR, CEMENT, AND TOXIC MATERIAL SHALL BE REMOVED FROM THE SURFACE OF ALL PLANT BEDS. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS BENEATH THE SOIL WHICH WILL IN ANY WAY ADVERSELY AFFECT THE PLANT GROWTH, HE SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT OR OWNER. FAILURE TO DO SO BEFORE PLANTING SHALL MAKE THE CORRECTIVE MEASURES THE RESPONSIBILITY OF THE CONTRACTOR.

2. VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES, INCLUDING BUT NOT LIMITED TO: ELECTRIC, GAS (LINES AND TANKS), WATER, SANITARY SEWER, STORMWATER LINES, CABLE AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES.


3. SUBGRADE EXCAVATION: SITE CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED LIMEROCK AND LIMEROCK SUB-BASE FROM ALL LANDSCAPE PLANTING AREAS TO A MINIMUM DEPTH OF 36". SITE CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINISHED GRADE WITH CLEAN TOPSOIL FROM AN ON-SITE SOURCE OR AN IMPORTED SOURCE. IF LIMEROCK OR OTHER ADVERSE CONDITIONS OCCUR IN PLANTED AREAS AFTER 36" DEEP EXCAVATION BY SITE CONTRACTOR, AND POSITIVE DRAINAGE CAN NOT BE ACHIEVED, LANDSCAPE CONTRACTOR SHALL UTILIZE PLANTING DETAIL THAT ADDRESSES POOR DRAINAGE.

4. FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL REQUIREMENTS AS HEREIN SPECIFIED AND REQUIRED. INSPECT AND SELECT PLANT MATERIALS BEFORE PLANTS ARE DUG AT NURSERY OR GROWING SITE.

5. GENERAL: COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING LANDSCAPEMATERIALS AND WORK. CONFORM TO ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE. PLANTS SHALL BE PROTECTED UPON ARRIVAL AT THE SITE BY BEING THOROUGHLY WATERED AND PROPERLY MAINTAINED UNTIL PLANTED. PLANTS SHALL NOT REMAIN UNPROTECTED FOR A PERIOD EXCEEDING TWENTY-FOUR (24) HOURS. AT ALL TIMES WORKMANLIKE METHODS CUSTOMARY IN GOOD HORTICULTURAL PRACTICES SHALL BE EXERCISED.

6. THE WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS. COORDINATE THE PLANTING WITH THE IRRIGATION WORK TO ASSURE AVAILABILITY OF WATER AND PROPER LOCATION OF IRRIGATION ITEMS AND PLANTS.

7. ALL PLANTING PITS SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE USA STANDARD FOR NURSERY STOCK 260.1, UNLESS SHOWN OTHERWISE ON THE DRAWINGS, AND BACKFILLED WITH THE PREPARED PLANTING SOIL AS SPECIFIED HEREINBEFORE (SECTION E). TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER DRAINAGE. IF POOR DRAINAGE EXISTS, UTILIZE PLANTING DETAIL THAT ADDRESSES THIS CONDITION. TREES SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLUSHED INTO PLACE WITH A SLOW, FULL HOSE STREAM. ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURE AND UNDER THE SUPERVISION OF A QUALIFIED PLANTING FOREMAN. PROPER "JETTING IN" SHALL BE ASSURED TO ELIMINATE AIR POCKETS AROUND THE ROOTS. "JET STICK" OR EQUAL IS RECOMMENDED.

R E V I S I O N S						<div> MATTHEW T. FRANKO, P.L.A. No. 6667292 445 24TH STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 CA Number: LC-C000219</div>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	LANDSCAPE SPECS AND NOTES	SHEET NO.
		DESCRIPTION	DATE	BY	DESCRIPTION				LD-2

8. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS AND BUILDING STRUCTURES WHILE INSTALLING TREES.

9. SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION E OF THESE SPECIFICATIONS. IN ADDITION, EACH PLANTING PIT SHALL RECEIVE 21-GRAM "AGRIFORM" PLANTING TABLETS PER MANUFACTURER'S SPECIFICATIONS OR AS FOLLOWS:

- TWO (2) TABLETS PER 1 GAL. PLANT
- THREE (3) TABLETS PER 3 GAL. PLANT
- FOUR (4) TABLETS PER 10 GAL. PLANT
- LARGER MATERIAL – TWO (2) TABLETS PER 1/2" OF TRUNK CALIPER

10. TREES AND SHRUBS SHALL BE SET STRAIGHT AND AT SUCH A LEVEL THAT AFTER SETTLEMENT, THE PLANT CROWN WILL STAND ONE (1) TO TWO (2) INCHES ABOVE GRADE. EACH PLANT SHALL BE SET IN THE CENTER OF THE PIT. PLANTING SOIL MIXTURE SHALL BE BACKFILLED AND THOROUGHLY TAMPED AROUND THE BALL AND SHALL BE SETTLED BY WATER AFTER TAMPING.

11. FILL HOLE WITH SOIL MIXTURE, MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW TO SOAK MINIMUM TWENTY (20) MINUTES, STIRRING IF NECESSARY TO GET SOIL THOROUGHLY WET. PACK LIGHTLY WITH FEET. ADD MORE WET SOIL MIXTURE. DO NOT COVER TOP OF BALL WITH SOIL MIXTURE, ONLY WITH MULCH. ALL BURLAP, ROPE, WIRES, ETC., SHALL BE REMOVED FROM THE SIDES AND TOPS OF BALLS, BUT NO BURLAP SHALL BE PULLED FROM UNDERNEATH.

12. PRUNING: EACH TREE SHALL BE PRUNED TO PRESERVE THE NATURAL CHARACTER OF THE PLANT AS SHOWN ON THE DRAWINGS. ALL SOFT WOOD OR SUCKER GROWTH AND ALL BROKEN OR BADLY DAMAGED BRANCHES SHALL BE REMOVED WITH A CLEAN CUT.

13. SHRUBS AND GROUND COVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED ON THE PLANT LIST. CULTIVATE ALL PLANTING AREAS TO A MINIMUM DEPTH OF 6", REMOVE AND DISPOSE ALL DEBRIS. TILL INTO TOP 4" THE PLANTING SOIL MIX AS SPECIFIED IN SECTION E. THOROUGHLY WATER ALL PLANTS AFTER INSTALLATION.

14. TREE GUYING AND BRACING SHALL BE INSTALLED BY THE LANDSCAPE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO INSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION. IF THE LANDSCAPE CONTRACTOR AND OWNER DECIDE TO WAIVE THE TREE GUYING AND BRACING, THE OWNER SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING OF THEIR INTENTIONS AND AGREE TO HOLD HARMLESS THE LANDSCAPE ARCHITECT IN THE EVENT ANY TREES FALL DOWN AND DAMAGE PERSON OR PROPERTY.

15. MULCHING: PROVIDE A THREE (3) INCH MINIMUM LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH SHRUB BED, GROUND COVER AND VINE BED AND TREE PIT.

16. HERBICIDE WEED CONTROL: ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK. IF DIRECTED BY THE OWNER, "ROUND-UP" SHALL BE APPLIED FOR WEED CONTROL BY QUALIFIED PERSONNEL TO ALL PLANTING AREAS IN SPOT APPLICATIONS PER MANUFACTURER'S PRECAUTIONS AND SPECIFICATIONS. PRIOR TO FINAL INSPECTION, TREAT ALL PLANTING BEDS WITH AN APPROVED PRE-EMERGENT HERBICIDE AT AN APPLICATION RATE RECOMMENDED BY THE MANUFACTURER.

P. LAWN SODDING

1. THE WORK CONSISTS OF LAWN BED PREPARATION, SOIL PREPARATION, AND SODDING COMPLETE, IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND THE APPLICABLE DRAWINGS TO PRODUCE A GRASS LAWN ACCEPTABLE TO THE OWNER.

2. LAWN BED PREPARATION: ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, WEEDS, AND DEBRIS, AND THE GROUND BROUGHT TO AN EVEN GRADE. THE WHOLE SURFACE SHALL BE ROLLED WITH A ROLLER WEIGHING NOT MORE THAN ONE-HUNDRED (100) POUNDS PER FOOT OF WIDTH. DURING THE ROLLING, ALL DEPRESSIONS CAUSED BY SETTLEMENT OF ROLLING SHALL BE FILLED WITH ADDITIONAL SOIL, AND THE SURFACE SHALL BEREGRADED AND ROLLED UNTIL PRESENTING A SMOOTH AND EVEN FINISH THAT IS UP TO THE REQUIRED GRADE.

3. SOIL PREPARATION: PREPARE LOOSE BED FOUR (4) INCHES DEEP. APPLY FERTILIZER AT RATE OF TWENTY (20) POUNDS PER ONE THOUSAND (1000) SQUARE FEET. APPLICATION SHALL BE UNIFORM, UTILIZING APPROVED MECHANICAL SPREADERS. MIX FERTILIZER THOROUGHLY WITH THE SOIL TO A DEPTH OF THREE (3) INCHES. HAND RAKE UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED. WET PREPARED AREA THOROUGHLY.

4. SODDING

A. THE CONTRACTOR SHALL SOD ALL AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS, UNLESS SPECIFICALLY NOTED OTHERWISE.

B. THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE PLANT BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETAL TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS AND DISEASE OF ANY KIND.

C. PANELS SHALL BE LAID TIGHTLY TOGETHER SO AS TO MAKE A SOLID SODDED LAWN AREA. SOD SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS, PAVED AND PLANTED AREAS. ADJACENT TO BUILDINGS, A FOUR INCH MULCH STRIP SHALL BE PROVIDED. IMMEDIATELY FOLLOWING SOD LAYING, THE LAWN AREAS SHALL BE ROLLED WITH A LAWN ROLLER CUSTOMARILY USED FOR SUCH PURPOSES, AND THEN THOROUGHLY IRRIGATED. IF, IN THE OPINION OF THE OWNER, TOP-DRESSING IS NECESSARY AFTER ROLLING TO FILL THE VOIDS BETWEEN THE SOD PANELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN SAND AS APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER SHALL BE UNIFORMLY SPREAD OVER THE ENTIRE SURFACE OF THE SOD AND THOROUGHLY WATERED IN.

D. DURING DELIVERY, PRIOR TO AND DURING THE PLANTING OF THE LAWN AREAS, THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY EXPOSURE OF THE ROOTS TO THE SUN. ALL SOD SHALL BE STACKED SO AS NOT TO BE DAMAGED BY SWEATING OR EXCESSIVE HEAT AND MOISTURE.

5. LAWN MAINTENANCE:

A. WITHIN THE CONTRACT LIMITS, THE CONTRACTOR SHALL PRODUCE A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE-SODDING OF ALL ERODED, SUNKEN OR BARE SPOTS UNTIL CERTIFICATION OF ACCEPTABILITY BY THE LANDSCAPE ARCHITECT OR OWNER. REPAIRED SODDING SHALL BE ACCOMPLISHED AS IN THE ORIGINAL WORK (INCLUDING REGRADING IF NECESSARY).

B. WATER EVERY DAY FOR TEN (10) SUCCESSIVE DAYS, THEN WATER THREE (3) TIMES PER WEEK (AT EVEN INTERVALS) FOR TWO (2) ADDITIONAL WEEKS. ALL WATERING SHALL BE OF SUFFICIENT QUANTITY TO WET OR RESTORE WATER TO DEPTH OF FOUR (4) INCHES.

Q. CLEAN-UP

UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE BROOM CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

R. PLANT MATERIAL MAINTENANCE

ALL PLANTS AND PLANTING INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS (SUCH AS RE-STAKING OR REPAIRING GUY SUPPORTS) NECESSARY TO INSURE A HEALTHY CONDITION BY THE CONTRACTOR UNTIL CERTIFICATION OF ACCEPTABILITY BY THE LANDSCAPE ARCHITECT OR OWNER. MAINTENANCE AFTER THE CERTIFICATION OF ACCEPTABILITY SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN THIS SECTION. CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE TO COVER LANDSCAPE AND IRRIGATION MAINTENANCE FOR A PERIOD OF 90 CALENDAR DAYS COMMENCING AFTER ACCEPTANCE.

S. MAINTENANCE (ALTERNATE BID ITEM)

1. CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE FOR MAINTENANCE FOLLOWING THE INITIAL 90-DAY MAINTENANCE PERIOD ON A COST PER MONTH BASIS.

T. GUARANTEE

1. THE LIFE AND SATISFACTORY CONDITION OF ALL 15 GALLON AND LARGER PLANT MATERIAL INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE GUARANTEED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE LANDSCAPE ARCHITECT OR OWNER.

2. THE LIFE AND SATISFACTORY CONDITION OF ALL OTHER PLANT MATERIAL (INCLUDING SOD) INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE GUARANTEED BY THE CONTRACTOR FOR A MINIMUM OF 90 CALENDAR DAYS, COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE LANDSCAPE ARCHITECT OR OWNER.

3. REPLACEMENT: ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION AT THE END OF THE GUARANTEE PERIOD SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED PLANTED AND MULCHED AS SPECIFIED UNDER "PLANTING", AT NO ADDITIONAL COST TO THE OWNER.

4. IN THE EVENT THE OWNER DOES NOT CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE (AND IRRIGATION) MAINTENANCE, THE CONTRACTOR IS ENCOURAGED TO VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER, AND SHALL NOTIFY THE OWNER IN WRITING OF MAINTENANCE PROCEDURES OR CONDITIONS WHICH THREATEN VIGOROUS AND HEALTH PLANT GROWTH. IT IS SUGGESTED SUCH SITE VISITS SHALL BE CONDUCTED A MINIMUM OF ONCE PER MONTH FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE.

U. FINAL INSPECTION AND ACCEPTANCE OF WORK

FINAL INSPECTION AT THE END OF THE GUARANTEE PERIOD SHALL BE ON PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT. ANY REPLACEMENT AT THIS TIME SHALL BE SUBJECT TO THE SAME ONE (1) YEAR GUARANTEE (OR AS SPECIFIED BY THE LANDSCAPE ARCHITECT OR OWNER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HEREIN DESCRIBED.

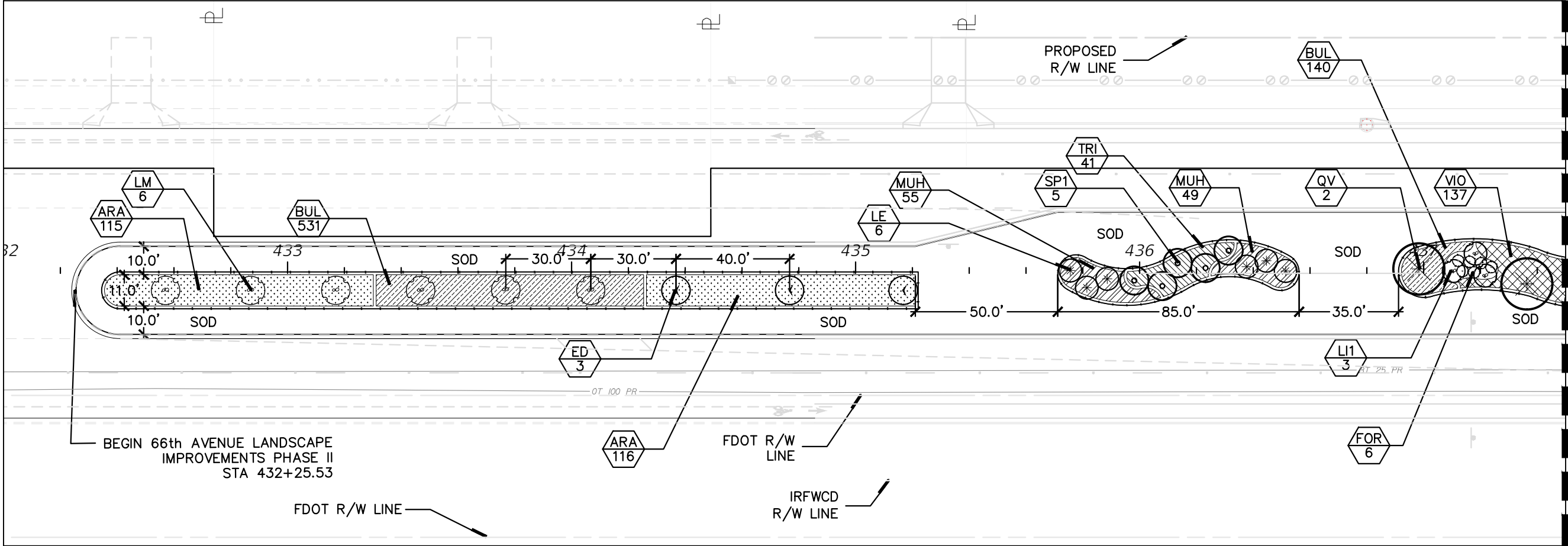
R E V I S I O N S					<div>Kimley»Horn</div> <div>MATTHEW T. FRANKO, P.L.A. No. 6667292 445 24TH STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 CA Number: LC-C000219</div>	INDIAN RIVER COUNTY	LANDSCAPE SPECS AND NOTES	SHEET NO.
DESCRIPTION			DATE	BY		BOARD OF COUNTY COMMISSIONERS		LD-3
						66th AVENUE FROM 69th STREET		
						TO SR-510/85th STREET		

GENERAL IRRIGATION SPECIFICATIONS AND NOTES

1505																										
18.CO. P-4. No.																										
TABULATION OF QUANTITIES/PLANT SCHEDULE																										
PAY ITEM NO.	PAYSIZE	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAX. MAINTAINED SIZE	SPACING	REMARKS	UNIT	SHEET NUMBERS										TOTAL THIS SHEET		SUB TOTAL		REF. SHEET		
										LD-10		LD-11		LD-12		LD-13		LD-14								
										PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL			
162-1-3				PREPARED SOIL LAYER				(SPECIAL DEPTH) SEE SPECIFICATIONS	CY	72		66		45		76		66		325		325				
570-1-2		SOD	STENOTAPHRUM SECUNDATUM 'FLORATAM'	ST. AUGUSTINE FLORATAM GRASS	2"-4"	4"		Laid tight, rolled	SY	1830		1259		472		1402		1120		6083		6083				
580-1-1	SMALL	ARA	ARACHIS GLABRATA	ORNAMENTAL PEANUT	4"-6"	8"x12"		60'x30", Laid tight, rolled	SY	231		105		208		105		293		942		942				
	SMALL	BUL	BULBINE FRUTESCENS	HALLMARK BULBINE	10"-12"x10"-12"	24"x24"	18" o.c.	Full to ground	EA	671		489		497		163		614		2434		2434				
	SMALL	CAP	CAPPARIS CYNAPHALLOPHORA	JAMACIAN CAPER	18"-24"x18"-24"	36"-48"x36"-48"	30" o.c.	Full to ground	EA						26		6		32		32					
	SMALL	FOR	FORESTIERA SEGREGATA	FLORIDA PRIVET	18"-24"x18"-24"	36"-48"x36"-48"	30" o.c.	Full to ground	EA	6		10							16		16					
	SMALL	HAC	HAMELIA PATENS 'COMPACTA'	DWARF FIREBUSH	14"-18"x14"-18"	30"x30"	30" o.c.	Full	EA			98			287				385		385					
	SMALL	MUH	MUHLENBERGIA CAPILLARIS	PINK MUHLY	12"-14"x12"-14"	30"	30" o.c.	Full	EA	104		104							208		208					
	SMALL	MYR	MYRCIANTHES FRAGRANS	SIMPSON'S STOPPER	18"-24"x18"-24"	36"-48"x36"-48"	30" o.c.	Full to ground	EA			12							12		12					
	SMALL	PHX	PHILODENDRON XANADU	PHILODENDRON	24"-30"x24"-30"	30"x30"	30" o.c.	Full	EA																	
	SMALL	PSY	PSYCHOTRIA NERVOSA 'NANA'	DWARF WILD COFFE	12"-14"x12"-14"	36"x36"	30"	Full to ground	EA						27		7		34		34					
	SMALL	TRI	TRIPSACUM DACTYLOIDES	DWARF FAKAHATCHEE GRASS	18"-24"x18"-24"	36"x36"	36" o.c.	Full to ground	EA	41		41							82		82					
	SMALL	VIO	VIBURNUM OBOVATUM 'WHORLED CLASS'	DWARF WALTER'S VIBURNUM	12"-14"x12"-14"	24"x24"	24" o.c.	Full to ground	EA	137		100				256		102		595		595				
580-1-2	LARGE	ED	ELAEOCARPUS DECIPIENS	JAPANESE BLUEBERRY TREE	12'x5', 3" cal., 4' c.t.		As shown	Standard, straight, single trunk	EA	3		2			2				7		7					
	LARGE	LE	LAGERSTROEMIA INDICA 'TUSKEGEE'	TUSKEGEE CRAPE MYRTLE	10'x6'-8'		As shown	Multi-trunk, tree form, full head	EA	6		6							12		12					
	LARGE	LI1	LAGERSTROEMIA INDICA 'NATCHEZ'	NATCHEZ CRAPE MYRTLE	10'x6'-8'		As shown	Multi-trunk, tree form, full head	EA	3		9			20		2		34		34					
	LARGE	LM	LAGERSTROEMIA INDICA 'MUSKOGEE'	MUSGOKEE CRAPE MYRTLE	10'x6'-8'		As shown	Multi-trunk, tree form, full head	EA	6						10			16		16					
	LARGE	LT	LAGERSTROEMIA INDICA 'TUSCARORA'	TUSCARORA CRAPE MYRTLE	10'x6'-8'		As shown	Multi-trunk, tree form, full head	EA			9		9	14		5		37		37					
	LARGE	SP1	SABAL PALMETTO	CABBAGE PALM	14'-22' o.a.		As shown	Booted, hurricane cut, Stagger heights by 3' when planting clusters of 3 or more	EA	5		5							10		10					
	LARGE	QV	QUERCUS VIRGINIANA 'CATHEDRAL'	CATHEDRAL LIVE OAK	12'x5'-7', 3"-4" cal.		As shown	Full head, straight, central leader	EA	2		3			7		1		13		13					
580-12-10	MULCH		FLORA-MULCH					3" Layer, Shredded, Flora-Mulch or equivalent for planting beds and tree rings	CY	55		50		34		57		49		245		245				
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 6005-23.004, F.A.C.																										
R E V I S I O N S						<div>Kimley»Horn</div> <div>MATTHEW T. FRANKO, P.L.A., No. 6667292 445 24TH STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 CA Number: LC-C000219</div>						INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET						66th AVENUE SUMMARY OF QUANTITIES						SHEET NO.		LD-5
		DESCRIPTION	DATE	BY	DESCRIPTION																					

TABULATION OF QUANTITIES/PLANT SCHEDULE																								
PAY ITEM NO.	PAYSIZE	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAX. MAINTAINED SIZE	SPACING	REMARKS	UNIT	SHEET NUMBERS										TOTAL THIS SHEET		SUB TOTAL		REF. SHEET
										LD-15		LD-16		LD-17		LD-18		LD-19						
										PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	
162-1-3				PREPARED SOIL LAYER				(SPECIAL DEPTH) SEE SPECIFICATIONS	CY	84		60		44		80		62		330		655		
570-1-2		SOD	STENOTAPHRUM SECUNDATUM 'FLORATAM'	ST. AUGUSTINE FLORATAM GRASS	2"-4"	4"		Laid tight, rolled	SF	1520		1065		451		1551		1018		5605		11688		
580-1-1	SMALL	ARA	ARACHIS GLABRATA	ORNAMENTAL PEANUT	4"-6"	8"x12"		60x30", Laid tight, rolled	SY	180		152		197		69		345		943		1885		
	SMALL	BUL	BULBINE FRUTESCENS	HALLMARK BULBINE	10"-12"x10"-12"	24"x24"	18" o.c.	Full to ground	EA	644		579		480		212		585		2500		4934		
	SMALL	CAP	CAPPARIS CYNAPHALLOPHORA	JAMACIAN CAPER	18"-24"x18"-24"	36"-48"x36"-48"	30" o.c.	Full to ground	EA						28				28		60			
	SMALL	FOR	FORESTIERA SEGREGATA	FLORIDA PRIVET	18"-24"x18"-24"	36"-48"x36"-48"	30" o.c.	Full to ground	EA	29		19							48		64			
	SMALL	HAC	HAMELIA PATENS 'COMPACTA'	DWARF FIREBUSH	14"-18"x14"-18"	30"x30"	30" o.c.	Full	EA	258		8			239				505		890			
	SMALL	MUH	MUHLENBERGIA CAPILLARIS	PINK MUHLY	12"-14"x12"-14"	30"	30" o.c.	Full	EA												208			
	SMALL	MYR	MYRCIANTHES FRAGRANS	SIMPSON'S STOPPER	18"-24"x18"-24"	36"-48"x36"-48"	30" o.c.	Full to ground	EA	19		6							25		37			
	SMALL	PHX	PHILODENDRON XANADU	PHILODENDRON	24"-30"x24"-30"	30"x30"	30" o.c.	Full	EA															
	SMALL	PSY	PSYCHOTRIA NERVOSA 'NANA'	DWARF WILD COFFE	12"-14"x12"-14"	36"x36"	30"	Full to ground	EA						28				28		62			
	SMALL	TRI	TRIPSACUM DACTYLOIDES	DWARF FAKAHATCHEE GRASS	18"-24"x18"-24"	36"x36"	36" o.c.	Full to ground	EA												82			
	SMALL	VIO	VIBURNUM OBOVATUM 'WHORLED CLASS'	DWARF WALTER'S VIBURNUM	12"-14"x12"-14"	24"x24"	24" o.c.	Full to ground	EA	215		243			512				970		1565			
580-1-2	LARGE	ED	ELAEOCARPUS DECIPIENS	JAPANESE BLUEBERRY TREE	12'x5', 3" cal., 4' c.t.		As shown	Standard, straight, single trunk	EA			1			1				2		9			
	LARGE	LE	LAGERSTROEMA INDICA 'TUSKEGEE'	TUSKEGEE CRAPE MYRTLE	10'x6'-8'		As shown	Multi-trunk, tree form, full head	EA	11									11		23			
	LARGE	LI1	LAGERSTROEMA INDICA 'NATCHEZ'	NATCHEZ CRAPE MYRTLE	10'x6'-8'		As shown	Multi-trunk, tree form, full head	EA	11		11			18				40		74			
	LARGE	LM	LAGERSTROEMIA INDICA 'MUSKOGEE'	MUSGOKEE CRAPE MYRTLE	10'x6'-8'		As shown	Multi-trunk, tree form, full head	EA	8							12		20		36			
	LARGE	LT	LAGERSTROEMIA INDICA 'TUSCARORA'	TUSCARORA CRAPE MYRTLE	10'x6'-8'		As shown	Multi-trunk, tree form, full head	EA			12		9	9				30		67			
	LARGE	SP1	SABAL PALMETTO	CABBAGE PALM	14'-22' o.a.		As shown	Booted, hurricane cut, Stagger heights by 3' when planting clusters of 3 or more	EA												10			
	LARGE	QV	QUERCUS VIRGINIANA 'CATHEDRAL'	CATHEDRAL LIVE OAK	12'x5'-7', 3'-4" cal.		As shown	Full head, straight, central leader	EA	7		3			9				19		32			
580-12-10	MULCH		FLORA-MULCH					3" Layer, Shredded, Flora-Mulch or equivalent for planting beds and tree rings	CY	63		45		33		60		46		247		492		
R E V I S I O N S							Kimley»Horn	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET							66th AVENUE SUMMARY OF QUANTITIES							SHEET NO. LD-6		
		DESCRIPTION	DATE	BY	DESCRIPTION																			
							MATTHEW T. FRANKO, P.L.A. No. 6667292 445 24TH STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 CA Numbers LC-C000219																	

1505																								
LR CO. Plat. No.																								
TABULATION OF QUANTITIES/PLANT SCHEDULE																								
PAY ITEM NO.	PAYSIZE	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAX. MAINTAINED SIZE	SPACING	REMARKS	UNIT	SHEET NUMBERS										TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
										LD-20		LD-21		LD-22		LD-23		LD-24						
										PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	
162-1-3				PREPARED SOIL LAYER				(SPECIAL DEPTH) SEE SPECIFICATIONS	CY	87		57		44		76				264		919		
570-1-2		SOD	STENOTAPHRUM SECUNDATUM 'FLORATAM'	ST. AUGUSTINE FLORATAM GRASS	2"-4"	4"		Laid tight, rolled	SF	1573		1012		453		1682		198		4918		16606		
580-1-1	SMALL	ARA	ARACHIS GLABRATA	ORNAMENTAL PEANUT	4"-6"	8"x12"		60'x30", Laid tight, rolled	SY	116		179		201		40				536		2421		
	SMALL	BUL	BULBINE FRUTESCENS	HALLMARK BULBINE	10"-12"x10"-12"	24"x24"	18" o.c.	Full to ground	EA	703		709		474		212				2098		7032		
	SMALL	CAP	CAPPARIS CYNAPHALLOPHORA	JAMACIAN CAPER	18"-24"x18"-24"	36"-48"x36"-48"	30" o.c.	Full to ground	EA						28				28		88			
	SMALL	FOR	FORESTIERA SEGREGATA	FLORIDA PRIVET	18"-24"x18"-24"	36"-48"x36"-48"	30" o.c.	Full to ground	EA	26		14							40		104			
	SMALL	HAC	HAMELIA PATENS 'COMPACTA'	DWARF FIREBUSH	14"-18"x14"-18"	30"x30"	30" o.c.	Full	EA	291					239				530		1420			
	SMALL	MUH	MUHLENBERGIA CAPILLARIS	PINK MUHLY	12"-14"x12"-14"	30"	30" o.c.	Full	EA												208			
	SMALL	MYR	MYRCIANTHES FRAGRANS	SIMPSON'S STOPPER	18"-24"x18"-24"	36"-48"x36"-48"	30" o.c.	Full to ground	EA	38									38		75			
	SMALL	PHX	PHILODENDRON XANADU	PHILODENDRON	24"-30"x24"-30"	30"x30"	30" o.c.	Full	EA															
	SMALL	PSY	PSYCHOTRIA NERVOSA 'NANA'	DWARF WILD COFFE	12"-14"x12"-14"	36"x36"	30"	Full to ground	EA						28				28		90			
	SMALL	TRI	TRIPSACUM DACTYLOIDES	DWARF FAKAHATCHEE GRASS	18"-24"x18"-24"	36"x36"	36" o.c.	Full to ground	EA												82			
	SMALL	VIO	VIBURNUM OBOVATUM 'WHORLED CLASS'	DWARF WALTER'S VIBURNUM	12"-14"x12"-14"	24"x24"	24" o.c.	Full to ground	EA	251		110				512			873		2438			
580-1-2	LARGE	ED	ELAEOCARPUS DECIPIENS	JAPANESE BLUEBERRY TREE	12'x5', 3" cal., 4' c.t.		As shown	Standard, straight, single trunk	EA			1				2			3		12			
	LARGE	LE	LAGERSTROEMIA INDICA 'TUSKEGEE'	TUSKEGEE CRAPE MYRTLE	10'x6'-8'		As shown	Multi-trunk, tree form, full head	EA	18									18		41			
	LARGE	LI1	LAGERSTROEMIA INDICA 'NATCHEZ'	NATCHEZ CRAPE MYRTLE	10'x6'-8'		As shown	Multi-trunk, tree form, full head	EA	11		7				18			36		110			
	LARGE	LM	LAGERSTROEMIA INDICA 'MUSKOGEE'	MUSGOKEE CRAPE MYRTLE	10'x6'-8'		As shown	Multi-trunk, tree form, full head	EA	6									6		42			
	LARGE	LT	LAGERSTROEMIA INDICA 'TUSCARORA'	TUSCARORA CRAPE MYRTLE	10'x6'-8'		As shown	Multi-trunk, tree form, full head	EA			12		10		8			30		97			
	LARGE	SP1	SABAL PALMETTO	CABBAGE PALM	14'-22' o.a.		As shown	Booted, hurricane cut, Stagger heights by 3' when planting clusters of 3 or more	EA												10			
	LARGE	QV	QUERCUS VIRGINIANA 'CATHEDRAL'	CATHEDRAL LIVE OAK	12'x5'-7', 3"-4" cal.		As shown	Full head, straight, central leader	EA	7		2				9			18		50			
580-12-10	MULCH		FLORA-MULCH					3" Layer, Shredded, Flora-Mulch or equivalent for planting beds and tree rings	CY	65		43		33		58			199		691			
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 6805-23.004, F.A.C.																								
R E V I S I O N S						<div>Kimley»Horn</div> <div>MATTHEW T. FRANKO, P.L.A. No. 6667292 445 24TH STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 CA Number: LC-C000219</div>				INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET				66th AVENUE SUMMARY OF QUANTITIES				SHEET NO. LD-7						
		DESCRIPTION	DATE	BY	DESCRIPTION																			

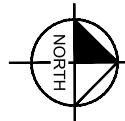


TREE AND PALM SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ED	Elaeocarpus decipiens	Japanese Blueberry Tree	12' x 5', 3" cal., 4' c.t., standard, straight trunk
LE	Lagerstroemia indica 'Tuskegee'	Tuskegee Cape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LI	Lagerstroemia indica 'Natchez'	Natchez Cape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LT	Lagerstroemia indica 'Tuscarora'	Tuscarora Cape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LM	Lagerstroemia indica 'Muskogee'	Muskogee Cape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
SP1	Sabal palmetto	Cabbage Palm	14'-22' o.a., booted, hurricane cut, stagger heights by 3' when planting clusters of 3 or more
QV	Quercus virginiana 'Cathedral'	Cathedral Live Oak	12' x 5'-7', 3"-4" cal., full head, staight trunk, central leader

SHRUB AND GROUND COVER SCHEDULE

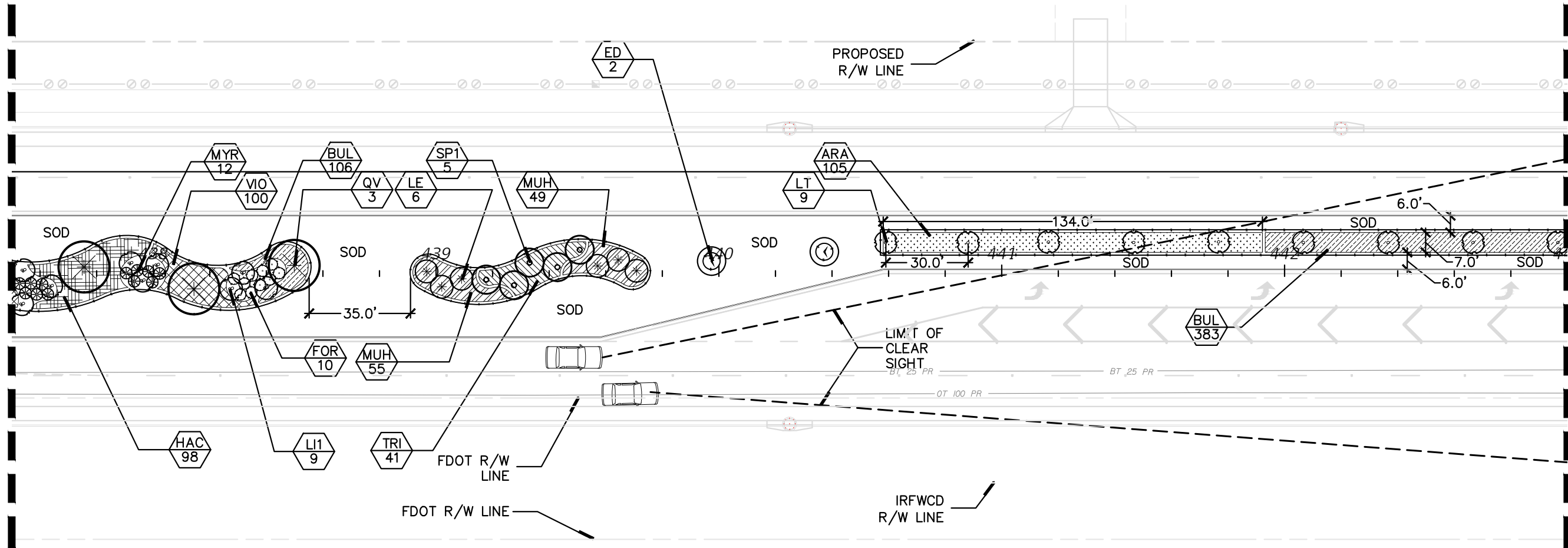
SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ARA	Arachis glabrata 'Ecoturf'	Ornamental Peanut	60" x 30", roll
BUL	Bulbine frutescens	Hallmark Bulbine	10"-12" x 10"-12", 18" o.c., full to ground
CAP	Capparis cynaphallophora	Jamcain Caper	18"-24" x 18"-24", 30" o.c., full to ground
FOR	Forestiera segregata	Florida Privet	18"-24" x 18"-24", 30" o.c., full to ground
HAC	Hamelia patens 'Compacta'	Dwarf Firebush	14"-18" x 14"-18", 30" o.c., full
MUH	Muhlenbergia capillaris	Pink Muhly	12"-14" x 12"-14", 30" o.c., full
MYR	Myrcianthes fragrans	Simpson's Stopper	18"-24" x 18"-24", 30" o.c., full to ground
PHX	Philodendron xanadu	Philodendron	24"-30" x 24"-30", 30" o.c., full
PSY	Psychotria nervosa 'Nana'	Dwarf Wild Coffe	12"-14" x 12"-14", 30" o.c., full to ground
TRI	Tripsacum dactyloides	Fakahatchee Grass	18"-24" x 18"-24", 36" o.c., full to ground
VIO	Viburnum obovatum 'Whorled Class'	Dwarf walter's Viburnum	12"-14" x 12"-14", 24" o.c., full to ground
CR	Clusia Rosea	Florida Clusia	7 Gal. 36" o.c., full



REVISIONS					Kimley»Horn <small>MATTHEW T. FRANKO, P.L.A. No. 6667292 445 24TH STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696</small>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	66th AVENUE LANDSCAPE PLAN	SHEET NO.
DESCRIPTION	DATE	BY	DESCRIPTION					LD-10

MATCHLINE STA. 437+50.00

MATCHLINE STA. 443+00.00

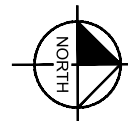


TREE AND PALM SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ED	Elaeocarpus decipiens	Japanese Blueberry Tree	12' x 5', 3" cal., 4' c.t., standard, straight trunk
LE	Lagerstroemia indica 'Tuskegee'	Tuskegee Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LI1	Lagerstroemia indica 'Natchez'	Natchez Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LT	Lagerstroemia indica 'Tuscarora'	Tuscarora Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LM	Lagerstroemia indica 'Muskogee'	Muskogee Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
SP1	Sabal palmetto	Cabbage Palm	14'-22' o.a., booted, hurricane cut, stagger heights by 3' when planting clusters of 3 or more
QV	Quercus virginiana 'Cathedral'	Cathedral Live Oak	12' x 5'-7', 3"-4" cal., full head, straight trunk, central leader

SHRUB AND GROUND COVER SCHEDULE

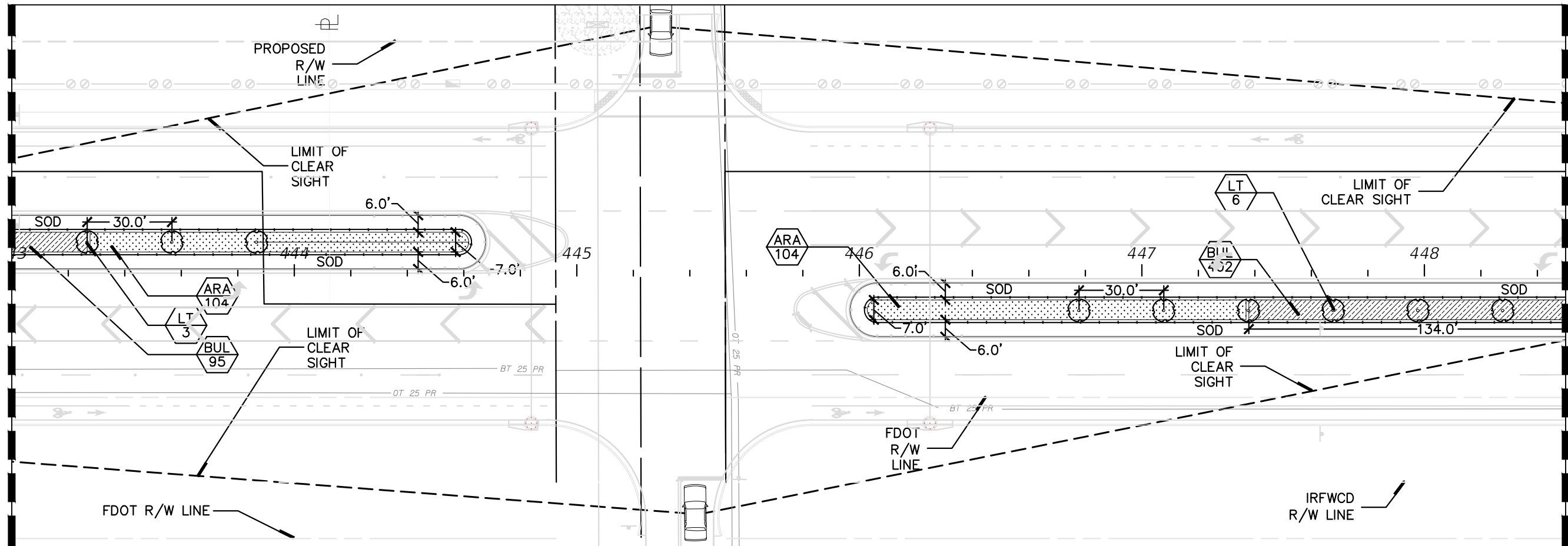
SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ARA	Arachis glabrata 'Ecoturf'	Ornamental Peanut	60" x 30", roll
BUL	Bulbine frutescens	Hallmark Bulbine	10"-12" x 10"-12", 18" o.c., full to ground
CAP	Capparis cynaphallophora	Jamcain Caper	18"-24" x 18"-24", 30" o.c., full to ground
FOR	Forestiera segregata	Florida Privet	18"-24" x 18"-24", 30" o.c., full to ground
HAC	Hamelia patens 'Compacta'	Dwarf Firebush	14"-18" x 14"-18", 30" o.c., full
MUH	Muhlenbergia capillaris	Pink Muhly	12"-14" x 12"-14", 30" o.c., full
MYR	Myrcianthes fragrans	Simpson's Stopper	18"-24" x 18"-24", 30" o.c., full to ground
PHX	Philodendron xanadu	Philodendron	24"-30" x 24"-30", 30" o.c., full
PSY	Psychotria nervosa 'Nana'	Dwarf Wild Coffee	12"-14" x 12"-14", 30" o.c., full to ground
TRI	Tripsacum dactyloides	Fakahatchee Grass	18"-24" x 18"-24", 36" o.c., full to ground
VIO	Viburnum obovatum 'Whorled Class'	Dwarf walter's Viburnum	12"-14" x 12"-14", 24" o.c., full to ground
CR	Clusia Rosea	Florida Clusia	7 Gal. 36" o.c., full



0 40
SCALE FEET

REVISIONS					Kimley»Horn MATTHEW T. FRANKO, P.L.A. No. 6667292 445 24TH STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	66th AVENUE LANDSCAPE PLAN	SHEET NO. LD-II
DESCRIPTION	DATE	BY	DESCRIPTION					

MATCHLINE STA. 443+00.00



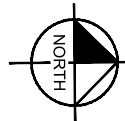
MATCHLINE STA. 448+50.00

TREE AND PALM SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ED	Elaeocarpus decipiens	Japanese Blueberry Tree	12' x 5', 3" cal., 4' c.t., standard, straight trunk
LE	Lagerstroemia indica 'Tuskegee'	Tuskegee Cape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LI	Lagerstroemia indica 'Natchez'	Natchez Cape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LT	Lagerstroemia indica 'Tuscarora'	Tuscarora Cape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LM	Lagerstroemia indica 'Muskogee'	Muskogee Cape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
SP1	Sabal palmetto	Cabbage Palm	14'-22' o.a., booted, hurricane cut, stagger heights by 3' when planting clusters of 3 or more
QV	Quercus virginiana 'Cathedral'	Cathedral Live Oak	12' x 5'-7', 3"-4" cal., full head, straight trunk, central leader

SHRUB AND GROUND COVER SCHEDULE

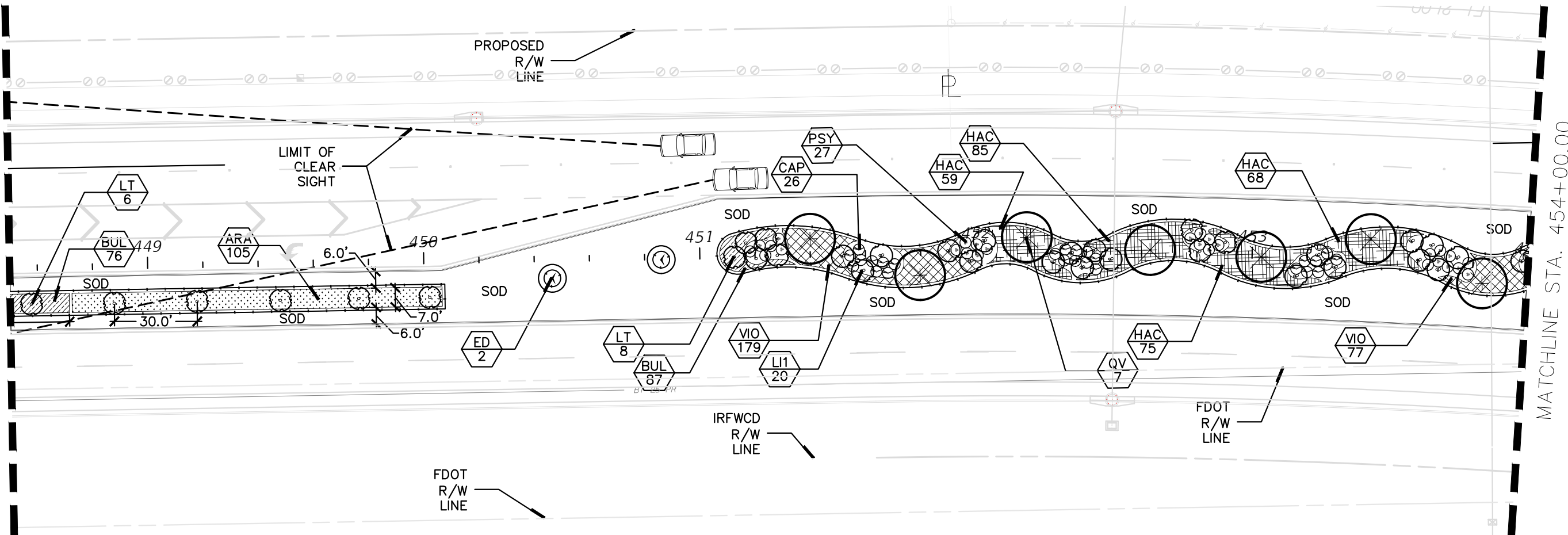
SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ARA	Arachis glabrata 'Ecoturf'	Ornamental Peanut	60" x 30", roll
BUL	Bulbine frutescens	Hallmark Bulbine	10"-12" x 10"-12", 18" o.c., full to ground
CAP	Capparis cynaphallophora	Jamcain Caper	18"-24" x 18"-24", 30" o.c., full to ground
FOR	Forestiera segregata	Florida Privet	18"-24" x 18"-24", 30" o.c., full to ground
HAC	Hamelia patens 'Compacta'	Dwarf Firebush	14"-18" x 14"-18", 30" o.c., full
MUH	Muhlenbergia capillaris	Pink Muhly	12"-14" x 12"-14", 30" o.c., full
MYR	Myrcianthes fragrans	Simpson's Stopper	18"-24" x 18"-24", 30" o.c., full to ground
PHX	Philodendron xanadu	Philodendron	24"-30" x 24"-30", 30" o.c., full
PSY	Psychotria nervosa 'Nana'	Dwarf Wild Coffe	12"-14" x 12"-14", 30" o.c., full to ground
TRI	Tripsacum dactyloides	Fakahatchee Grass	18"-24" x 18"-24", 36" o.c., full to ground
VIO	Viburnum obovatum 'Whorled Class'	Dwarf walter's Viburnum	12"-14" x 12"-14", 24" o.c., full to ground
CR	Clusia Rosea	Florida Clusia	7 Gal. 36" o.c., full



0 40
SCALE FEET

REVISIONS					Kimley»Horn <small>MATTHEW T. FRANKO, P.L.A. No. 6667292 445 24TH STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696</small>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	66th AVENUE LANDSCAPE PLAN	SHEET NO.
DESCRIPTION	DATE	BY	DESCRIPTION					LD-12

MATCHLINE STA. 448+50.00



MATCHLINE STA. 454+00.00

TREE AND PALM SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ED	Elaeocarpus decipiens	Japanese Blueberry Tree	12' x 5', 3" cal., 4' c.t., standard, straight trunk
LE	Lagerstroemia indica 'Tuskegee'	Tuskegee Cape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LI1	Lagerstroemia indica 'Natchez'	Natchez Cape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LT	Lagerstroemia indica 'Tuscarora'	Tuscarora Cape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LM	Lagerstroemia indica 'Muskogee'	Muskogee Cape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
SP1	Sabal palmetto	Cabbage Palm	14'-22' o.a., booted, hurricane cut, stagger heights by 3' when planting clusters of 3 or more
QV	Quercus virginiana 'Cathedral'	Cathedral Live Oak	12' x 5'-7', 3"-4" cal., full head, straight trunk, central leader

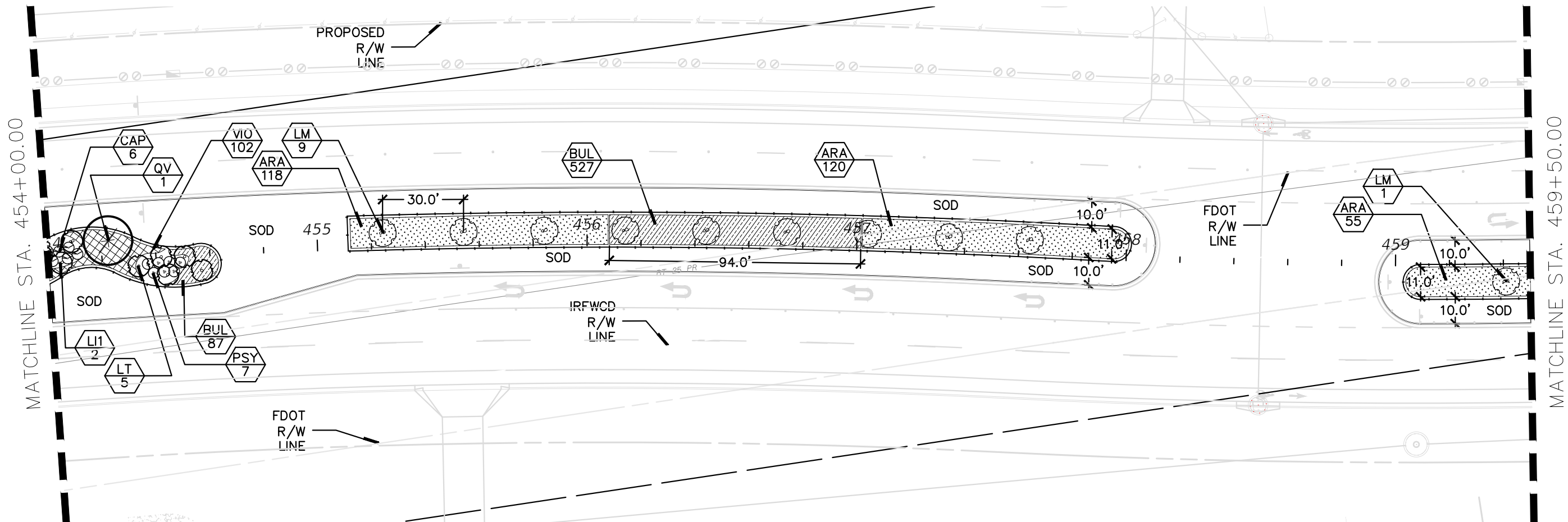
SHRUB AND GROUND COVER SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ARA	Arachis glabrata 'Ecoturi'	Ornamental Peanut	60" x 30", roll
BUL	Bulbine frutescens	Hallmark Bulbine	10"-12" x 10"-12", 18" o.c., full to ground
CAP	Capparis cynaphallophora	Jamcain Caper	18"-24" x 18"-24", 30" o.c., full to ground
FOR	Forestiera segregata	Florida Privet	18"-24" x 18"-24", 30" o.c., full to ground
HAC	Hamelia patens 'Compacta'	Dwarf Firebush	14"-18" x 14"-18", 30" o.c., full
MUH	Muhlenbergia capillaris	Pink Muhly	12"-14" x 12"-14", 30" o.c., full
MYR	Myrcianthes fragrans	Simpson's Stopper	18"-24" x 18"-24", 30" o.c., full to ground
PHX	Philodendron xanadu	Philodendron	24"-30" x 24"-30", 30" o.c., full
PSY	Psychotria nervosa 'Nana'	Dwarf Wild Coffe	12"-14" x 12"-14", 30" o.c., full to ground
TRI	Tripsacum dactyloides	Fakahatchee Grass	18"-24" x 18"-24", 36" o.c., full to ground
VIO	Viburnum obovatum 'Whorled Class'	Dwarf walter's Viburnum	12"-14" x 12"-14", 24" o.c., full to ground
CR	Clusia Rosea	Florida Clusia	7 Gal. 36" o.c., full



0 40
SCALE FEET

REVISIONS					Kimley»Horn MATTHEW T. FRANKO, P.L.A. No. 6667292 445 24TH STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	66th AVENUE LANDSCAPE PLAN	SHEET NO. LD-13
DESCRIPTION	DATE	BY	DESCRIPTION					

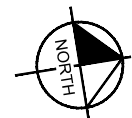


TREE AND PALM SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ED	Elaeocarpus decipiens	Japanese Blueberry Tree	12' x 5', 3" cal., 4' c.t., standard, straight trunk
LE	Lagerstroemia indica 'Tuskegee'	Tuskegee Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LI1	Lagerstroemia indica 'Natchez'	Natchez Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LT	Lagerstroemia indica 'Tuscarora'	Tuscarora Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LM	Lagerstroemia indica 'Muskogee'	Muskogee Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
SP1	Sabal palmetto	Cabbage Palm	14'-22' o.a., booted, hurricane cut, stagger heights by 3' when planting clusters of 3 or more
QV	Quercus virginiana 'Cathedral'	Cathedral Live Oak	12' x 5'-7', 3"-4" cal., full head, staight trunk, central leader

SHRUB AND GROUND COVER SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ARA	Arachis glabrata 'Ecoturf'	Ornamental Peanut	60' x 30", roll
BUL	Bulbine frutescens	Hallmark Bulbine	10"-12" x 10"-12", 18" o.c., full to ground
CAP	Capparis cynaphallophora	Jamcain Caper	18"-24" x 18"-24", 30" o.c., full to ground
FOR	Forestiera segregata	Florida Privet	18"-24" x 18"-24", 30" o.c., full to ground
HAC	Hamelia patens 'Compacta'	Dwarf Firebush	14"-18" x 14"-18", 30" o.c., full
MUH	Muhlenbergia capillaris	Pink Muhly	12"-14" x 12"-14", 30" o.c., full
MYR	Myrcianthes fragrans	Simpson's Stopper	18"-24" x 18"-24", 30" o.c., full to ground
PHX	Philodendron xanadu	Philodendron	24"-30" x 24"-30", 30" o.c., full
PSY	Psychotria nervosa 'Nana'	Dwarf Wild Coffe	12"-14" x 12"-14", 30" o.c., full to ground
TRI	Tripsacum dactyloides	Fakahatchee Grass	18"-24" x 18"-24", 36" o.c., full to ground
VIO	Viburnum obovatum 'Whorled Class'	Dwarf walter's Viburnum	12"-14" x 12"-14", 24" o.c., full to ground
CR	Clusia Rosea	Florida Clusia	7 Gal. 36" o.c., full



REVISIONS

DESCRIPTION	DATE	BY	DESCRIPTION
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Kimley»Horn
MATTHEW T. FRANKO, P.L.A. No. 6667292
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 696

INDIAN RIVER COUNTY

BOARD OF COUNTY COMMISSIONERS

66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

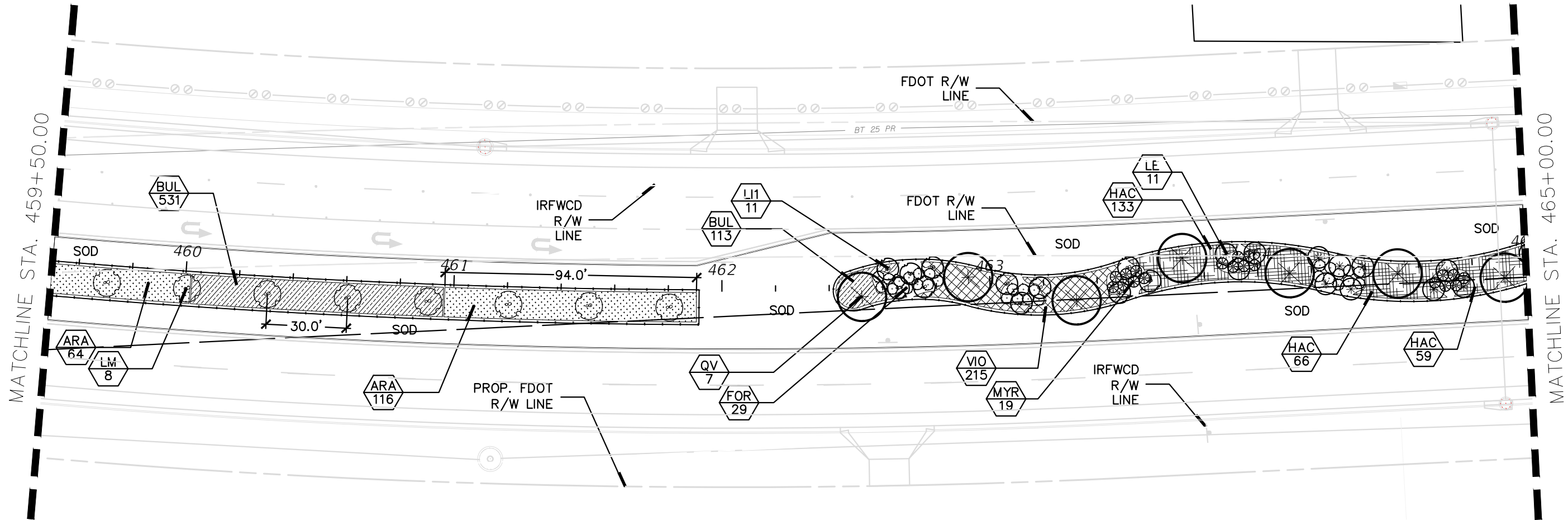
66th AVENUE

LANDSCAPE PLAN

SHEET NO.

LD-14

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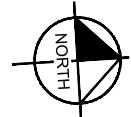


TREE AND PALM SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ED	Elaeocarpus decipiens	Japanese Blueberry Tree	12' x 5', 3" cal., 4' c.t., standard, straight trunk
LE	Lagerstroemia indica 'Tuskegee'	Tuskegee Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LI	Lagerstroemia indica 'Natchez'	Natchez Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LT	Lagerstroemia indica 'Tuscarora'	Tuscarora Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LM	Lagerstroemia indica 'Muskogee'	Muskogee Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
SP1	Sabal palmetto	Cabbage Palm	14'-22' o.a., booted, hurricane cut, stagger heights by 3' when planting clusters of 3 or more
QV	Quercus virginiana 'Cathedral'	Cathedral Live Oak	12' x 5'-7', 3"-4" cal., full head, straight trunk, central leader

SHRUB AND GROUND COVER SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ARA	Arachis glabrata 'Ecoturf'	Ornamental Peanut	60" x 30", roll
BUL	Bulbine frutescens	Hallmark Bulbine	10"-12" x 10"-12", 18" o.c., full to ground
CAP	Capparis cynaphallophora	Jamcain Caper	18"-24" x 18"-24", 30" o.c., full to ground
FOR	Forestiera segregata	Florida Privet	18"-24" x 18"-24", 30" o.c., full to ground
HAC	Hamelia patens 'Compacta'	Dwarf Firebush	14"-18" x 14"-18", 30" o.c., full
MUH	Muhlenbergia capillaris	Pink Muhly	12"-14" x 12"-14", 30" o.c., full
MYR	Myrcianthes fragrans	Simpson's Stopper	18"-24" x 18"-24", 30" o.c., full to ground
PHX	Philodendron xanadu	Philodendron	24"-30" x 24"-30", 30" o.c., full
PSY	Psychotria nervosa 'Nana'	Dwarf Wild Coffe	12"-14" x 12"-14", 30" o.c., full to ground
TRI	Tripsacum dactyloides	Fakahatchee Grass	18"-24" x 18"-24", 36" o.c., full to ground
VIO	Viburnum obovatum 'Whorled Class'	Dwarf walter's Viburnum	12"-14" x 12"-14", 24" o.c., full to ground
CR	Clusia Rosea	Florida Clusia	7 Gal. 36" o.c., full



REVISIONS

DESCRIPTION	DATE	BY	DESCRIPTION
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Kimley»Horn
MATTHEW T. FRANKO, P.L.A. No. 6667292
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 696

INDIAN RIVER COUNTY

BOARD OF COUNTY COMMISSIONERS

66th AVENUE FROM 69th STREET

TO SR-510/85th STREET

66th AVENUE

LANDSCAPE PLAN

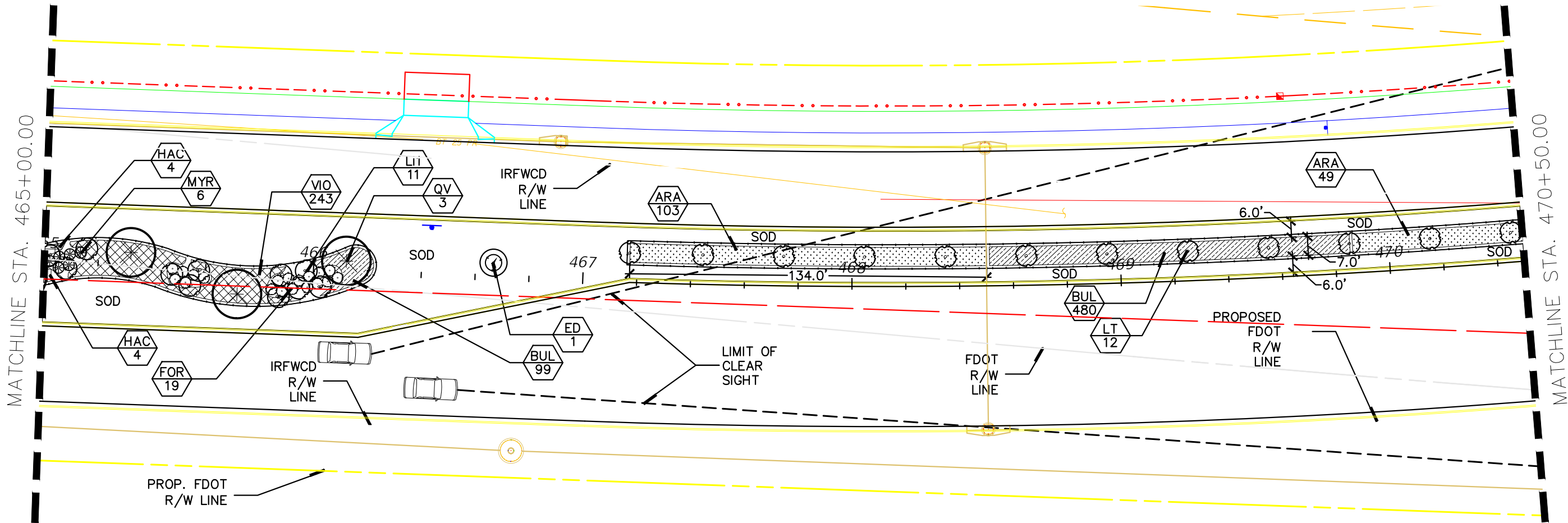
SHEET NO.

LD-15

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PROJECT NO. 1508B

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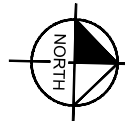


TREE AND PALM SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ED	Elaeocarpus decipiens	Japanese Blueberry Tree	12' x 5', 3" cal., 4' c.t., standard, straight trunk
LE	Lagerstroemia indica 'Tuskegee'	Tuskegee Cape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LI	Lagerstroemia indica 'Natchez'	Natchez Cape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LT	Lagerstroemia indica 'Tuscarora'	Tuscarora Cape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LM	Lagerstroemia indica 'Muskogee'	Muskogee Cape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
SP1	Sabal palmetto	Cabbage Palm	14'-22' o.a., booted, hurricane cut, stagger heights by 3' when planting clusters of 3 or more
QV	Quercus virginiana 'Cathedral'	Cathedral Live Oak	12' x 5'-7', 3"-4" cal., full head, straight trunk, central leader

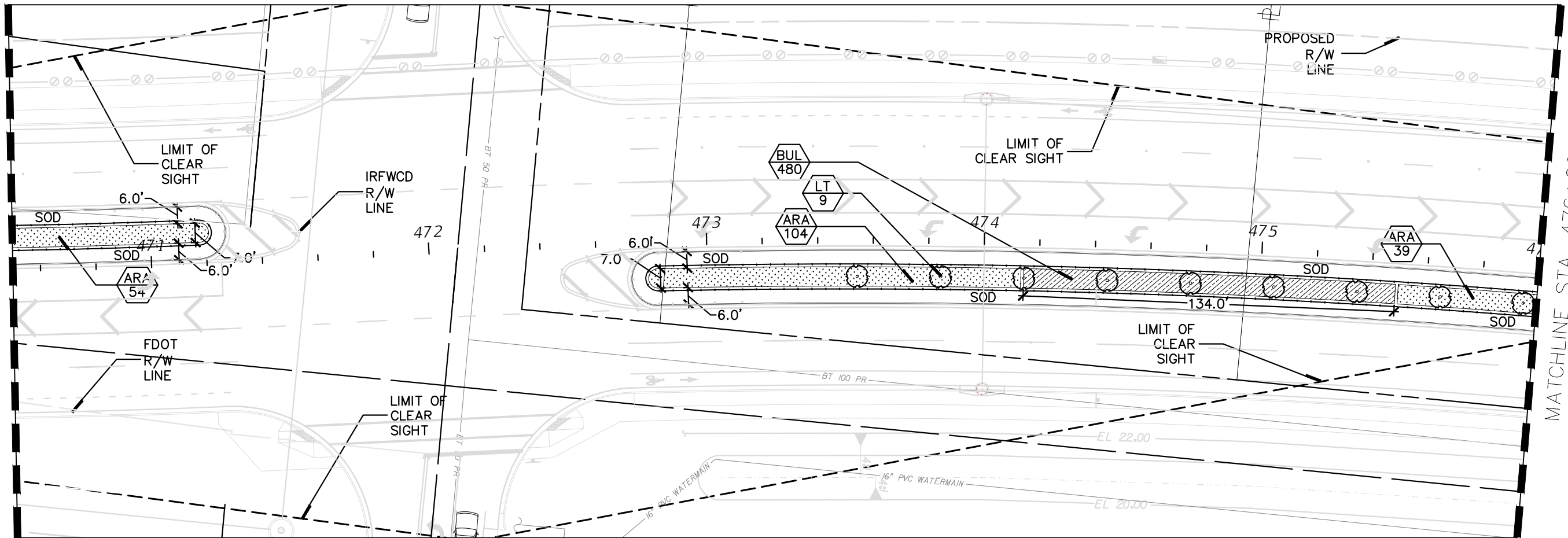
SHRUB AND GROUND COVER SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ARA	Arachis glabrata 'Ecoturf'	Ornamental Peanut	60" x 30", roll
BUL	Bulbine frutescens	Hallmark Bulbine	10"-12" x 10"-12", 18" o.c., full to ground
CAP	Capparis cynaphallophora	Jamcain Caper	18"-24" x 18"-24", 30" o.c., full to ground
FOR	Forestiera segregata	Florida Privet	18"-24" x 18"-24", 30" o.c., full to ground
HAC	Hamelia patens 'Compacta'	Dwarf Firebush	14"-18" x 14"-18", 30" o.c., full
MUH	Muhlenbergia capillaris	Pink Muhly	12"-14" x 12"-14", 30" o.c., full
MYR	Myrcianthes fragrans	Simpson's Stopper	18"-24" x 18"-24", 30" o.c., full to ground
PHX	Philodendron xanadu	Philodendron	24"-30" x 24"-30", 30" o.c., full
PSY	Psychotria nervosa 'Nana'	Dwarf Wild Coffee	12"-14" x 12"-14", 30" o.c., full to ground
TRI	Tripsacum dactyloides	Fakahatchee Grass	18"-24" x 18"-24", 36" o.c., full to ground
VIO	Viburnum obovatum 'Whorled Class'	Dwarf walter's Viburnum	12"-14" x 12"-14", 24" o.c., full to ground
CR	Clusia Rosea	Florida Clusia	7 Gal. 36" o.c., full



REVISIONS					Kimley»Horn <small>MATTHEW T. FRANKO, P.L.A. No. 6667292 445 24TH STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696</small>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	66th AVENUE LANDSCAPE PLAN	SHEET NO.
DESCRIPTION	DATE	BY	DESCRIPTION					LD-16

MATCHLINE STA. 470+50.00



MATCHLINE STA. 476+00.00

TREE AND PALM SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ED	Elaeocarpus decipiens	Japanese Blueberry Tree	12' x 5', 3" cal., 4' c.t., standard, straight trunk
LE	Lagerstroemia indica 'Tuskegee'	Tuskegee Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
U1	Lagerstroemia indica 'Natchez'	Natchez Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LT	Lagerstroemia indica 'Tuscarora'	Tuscarora Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LM	Lagerstroemia indica 'Muskogee'	Muskogee Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
SP1	Sabal palmetto	Cabbage Palm	14'-22' o.a., booted, hurricane cut, stagger heights by 3' when planting clusters of 3 or more
QV	Quercus virginiana 'Cathedral'	Cathedral Live Oak	12' x 5'-7', 3"-4" cal., full head, staight trunk, central leader

SHRUB AND GROUND COVER SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ARA	Arachis glabrata 'Ecoturf'	Ornamental Peanut	60" x 30", roll
BUL	Bulbine frutescens	Hallmark Bulbine	10"-12" x 10"-12", 18" o.c., full to ground
CAP	Capparis cynaphallophora	Jamcain Caper	18"-24" x 18"-24", 30" o.c., full to ground
FOR	Forestiera segregata	Florida Privet	18"-24" x 18"-24", 30" o.c., full to ground
HAC	Hamelia patens 'Compacta'	Dwarf Firebush	14"-18" x 14"-18", 30" o.c., full
MUH	Muhlenbergia capillaris	Pink Muhly	12"-14" x 12"-14", 30" o.c., full
MYR	Myrcianthes fragrans	Simpson's Stopper	18"-24" x 18"-24", 30" o.c., full to ground
PHX	Philodendron xanadu	Philodendron	24"-30" x 24"-30", 30" o.c., full
PSY	Psychotria nervosa 'Nana'	Dwarf Wild Coffe	12"-14" x 12"-14", 30" o.c., full to ground
TRI	Tripsacum dactyloides	Fakahatchee Grass	18"-24" x 18"-24", 36" o.c., full to ground
VIO	Viburnum obovatum 'Whorled Class'	Dwarf walter's Viburnum	12"-14" x 12"-14", 24" o.c., full to ground
CR	Clusia Rosea	Florida Clusia	7 Gal. 36" o.c., full



REVISIONS

DESCRIPTION	DATE	BY	DESCRIPTION

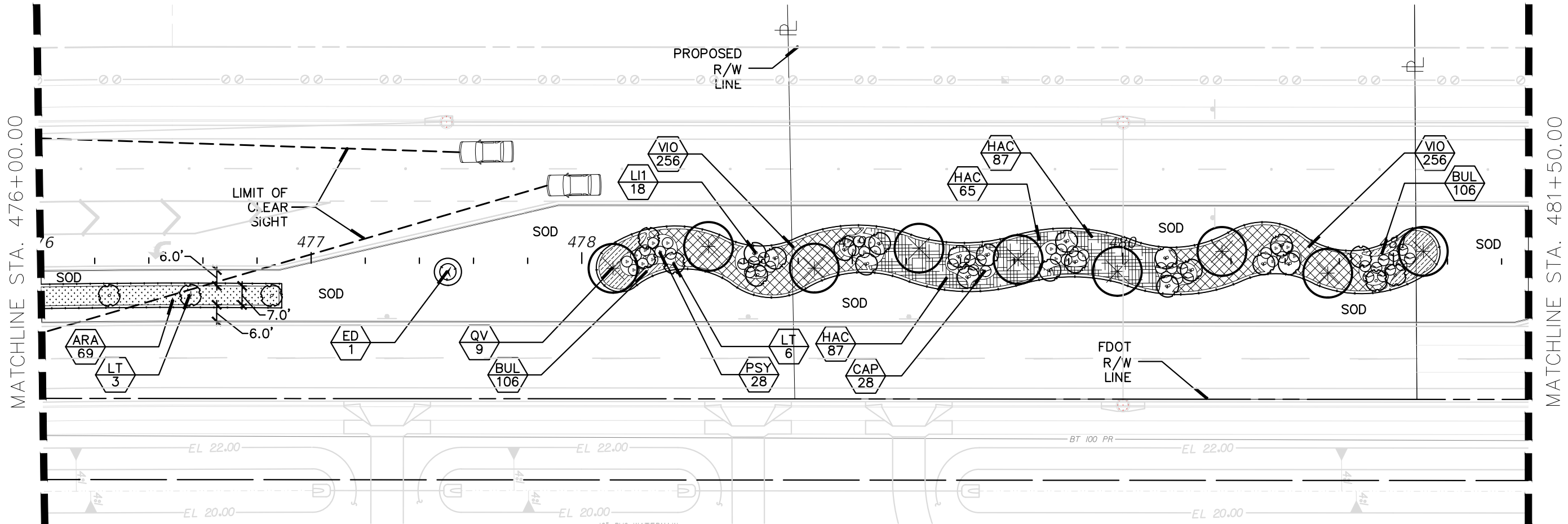
Kimley»Horn
MATTHEW T. FRANKO, P.L.A. No. 6667292
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VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 696

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

66th AVENUE
LANDSCAPE PLAN

SHEET NO.
LD-17

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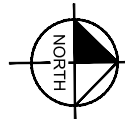


TREE AND PALM SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ED	Elaeocarpus decipiens	Japanese Blueberry Tree	12' x 5', 3" cal., 4' c.t., standard, straight trunk
LE	Lagerstroemia indica 'Tuskegee'	Tuskegee Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LI1	Lagerstroemia indica 'Natchez'	Natchez Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LT	Lagerstroemia indica 'Tuscarora'	Tuscarora Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LM	Lagerstroemia indica 'Muskogee'	Muskogee Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
SP1	Sabal palmetto	Cabbage Palm	14'-22' o.a., booted, hurricane cut, stagger heights by 3' when planting clusters of 3 or more
QV	Quercus virginiana 'Cathedral'	Cathedral Live Oak	12' x 5'-7', 3"-4" cal., full head, straight trunk, central leader

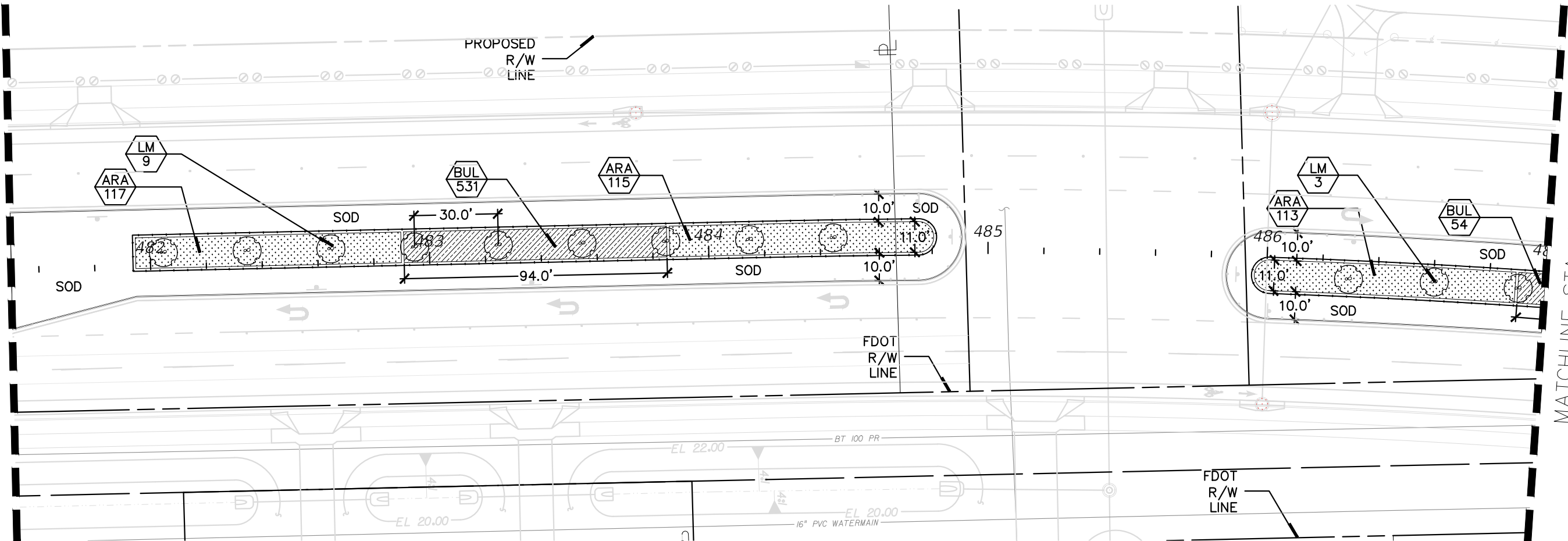
SHRUB AND GROUND COVER SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ARA	Arachis glabrata 'Ecoturf'	Ornamental Peanut	60" x 30", roll
BUL	Bulbine frutescens	Hallmark Bulbine	10"-12" x 10"-12", 18" o.c., full to ground
CAP	Capparis cynaphallophora	Jamcain Caper	18"-24" x 18"-24", 30" o.c., full to ground
FOR	Forestiera segregata	Florida Privet	18"-24" x 18"-24", 30" o.c., full to ground
HAC	Hamelia patens 'Compacta'	Dwarf Firebush	14"-18" x 14"-18", 30" o.c., full
MUH	Muhlenbergia capillaris	Pink Muhly	12"-14" x 12"-14", 30" o.c., full
MYR	Myrcianthes fragrans	Simpson's Stopper	18"-24" x 18"-24", 30" o.c., full to ground
PHX	Philodendron xanadu	Philodendron	24"-30" x 24"-30", 30" o.c., full
PSY	Psychotria nervosa 'Nana'	Dwarf Wild Coffee	12"-14" x 12"-14", 30" o.c., full to ground
TRI	Tripsacum dactyloides	Fakahatchee Grass	18"-24" x 18"-24", 36" o.c., full to ground
VIO	Viburnum obovatum 'Whorled Class'	Dwarf walter's Viburnum	12"-14" x 12"-14", 24" o.c., full to ground
CR	Clusia Rosea	Florida Clusia	7 Gal. 36" o.c., full



REVISIONS					Kimley»Horn <small>MATTHEW T. FRANKO, P.L.A. No. 6667292 445 24TH STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696</small>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	66th AVENUE LANDSCAPE PLAN	SHEET NO.
DESCRIPTION	DATE	BY	DESCRIPTION					LD-18

MATCHLINE STA. 481+50.00



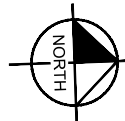
MATCHLINE STA. 487+00.00

TREE AND PALM SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ED	Elaeocarpus decipiens	Japanese Blueberry Tree	12' x 5', 3" cal., 4' c.t., standard, straight trunk
LE	Lagerstroemia indica 'Tuskegee'	Tuskegee Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
U1	Lagerstroemia indica 'Natchez'	Natchez Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LT	Lagerstroemia indica 'Tuscarora'	Tuscarora Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LM	Lagerstroemia indica 'Muskogee'	Muskogee Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
SP1	Sabal palmetto	Cabbage Palm	14'-22' o.a., booted, hurricane cut, stagger heights by 3' when planting clusters of 3 or more
QV	Quercus virginiana 'Cathedral'	Cathedral Live Oak	12' x 5'-7', 3"-4" cal., full head, staight trunk, central leader

SHRUB AND GROUND COVER SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ARA	Arachis glabrata 'Ecoturf'	Ornamental Peanut	60" x 30", roll
BUL	Bulbine frutescens	Hallmark Bulbine	10"-12" x 10"-12", 18" o.c., full to ground
CAP	Capparis cynaphallophora	Jamcain Caper	18"-24" x 18"-24", 30" o.c., full to ground
FOR	Forestiera segregata	Florida Privet	18"-24" x 18"-24", 30" o.c., full to ground
HAC	Hamelia patens 'Compacta'	Dwarf Firebush	14"-18" x 14"-18", 30" o.c., full
MUH	Muhlenbergia capillaris	Pink Muhly	12"-14" x 12"-14", 30" o.c., full
MYR	Myrcianthes fragrans	Simpson's Stopper	18"-24" x 18"-24", 30" o.c., full to ground
PHX	Philodendron xanadu	Philodendron	24"-30" x 24"-30", 30" o.c., full
PSY	Psychotria nervosa 'Nana'	Dwarf Wild Coffe	12"-14" x 12"-14", 30" o.c., full to ground
TRI	Tripsacum dactyloides	Fakahatchee Grass	18"-24" x 18"-24", 36" o.c., full to ground
VIO	Viburnum obovatum 'Whorled Class'	Dwarf walter's Viburnum	12"-14" x 12"-14", 24" o.c., full to ground
CR	Clusia Rosea	Florida Clusia	7 Gal. 36" o.c., full



0 40
SCALE FEET

REVISIONS				
DESCRIPTION	DATE	BY	DESCRIPTION	

Kimley»Horn

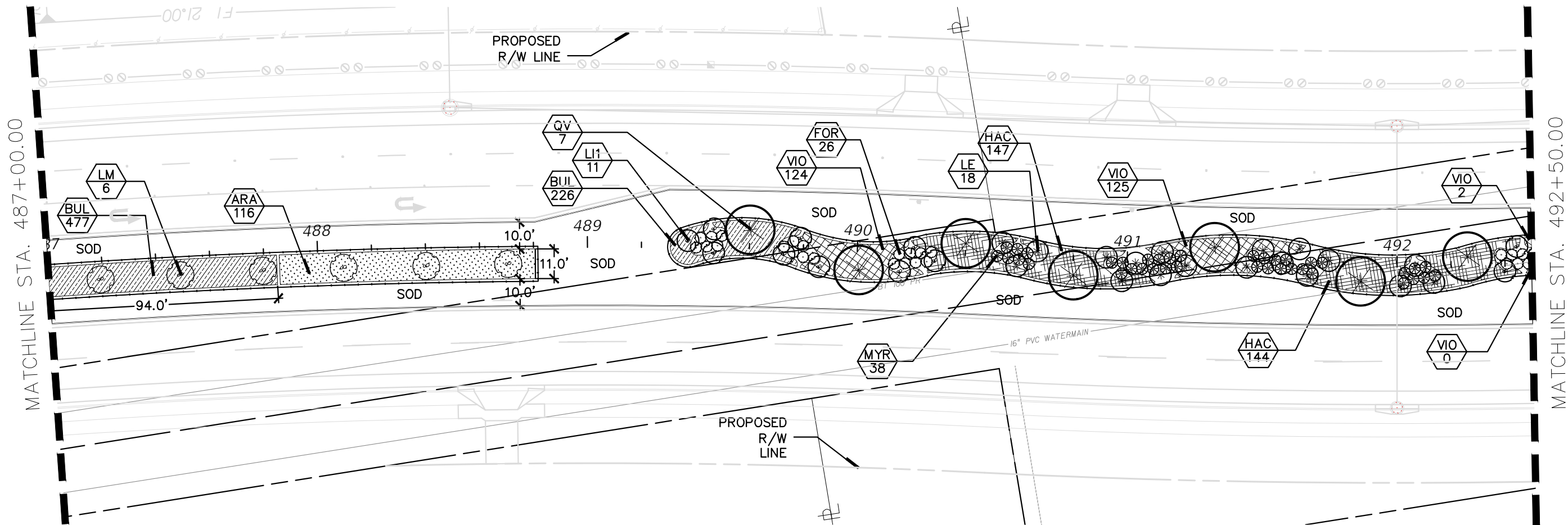
MATTHEW T. FRANKO, P.L.A. No. 6667292
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No# 696

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

66th AVENUE
LANDSCAPE PLAN

SHEET
NO.

LD-19

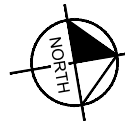


TREE AND PALM SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ED	Elaeocarpus decipiens	Japanese Blueberry Tree	12' x 5', 3" cal., 4' c.t., standard, straight trunk
LE	Lagerstroemia indica 'Tuskegee'	Tuskegee Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LI	Lagerstroemia indica 'Natchez'	Natchez Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LT	Lagerstroemia indica 'Tuscarora'	Tuscarora Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LM	Lagerstroemia indica 'Muskogee'	Muskogee Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
SP1	Sabal palmetto	Cabbage Palm	14'-22' o.a., booted, hurricane cut, stagger heights by 3' when planting clusters of 3 or more
QV	Quercus virginiana 'Cathedral'	Cathedral Live Oak	12' x 5'-7', 3"-4" cal., full head, straight trunk, central leader

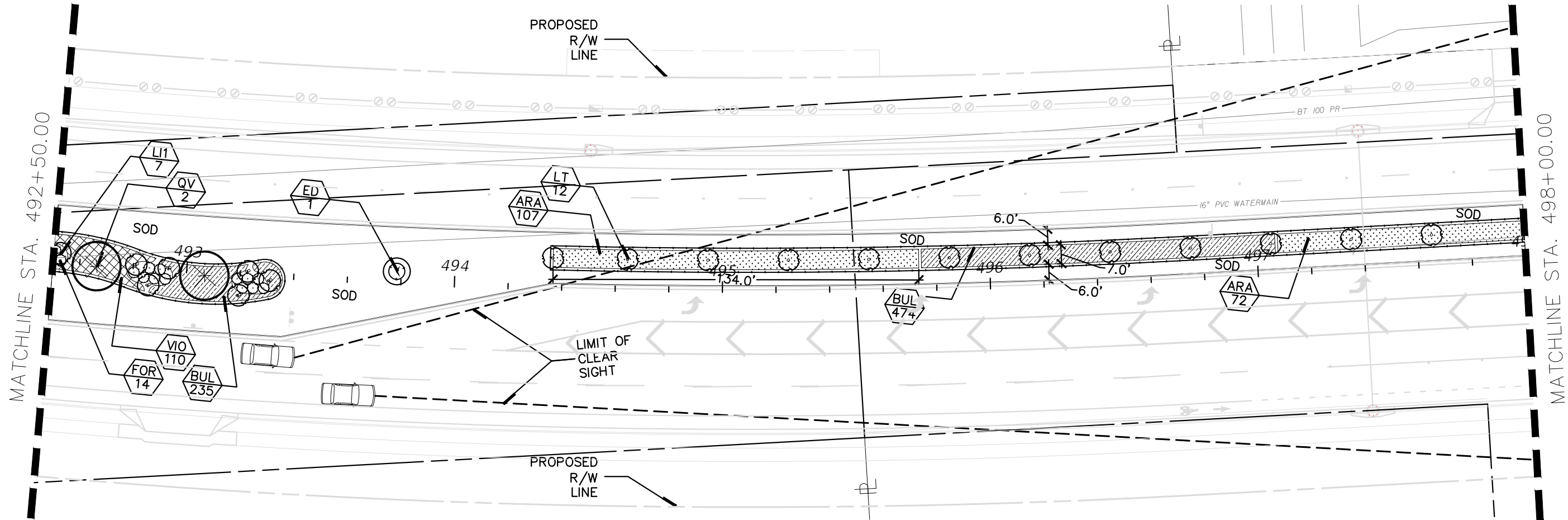
SHRUB AND GROUND COVER SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ARA	Arachis glabrata 'Ecoturf'	Ornamental Peanut	60" x 30", roll
BUL	Bulbine frutescens	Hallmark Bulbine	10"-12" x 10"-12", 18" o.c., full to ground
CAP	Capparis cynaphallophora	Jamcain Caper	18"-24" x 18"-24", 30" o.c., full to ground
FOR	Forestiera segregata	Florida Privet	18"-24" x 18"-24", 30" o.c., full to ground
HAC	Hamelia patens 'Compacta'	Dwarf Firebush	14"-18" x 14"-18", 30" o.c., full
MUH	Muhlenbergia capillaris	Pink Muhly	12"-14" x 12"-14", 30" o.c., full
MYR	Myrcianthes fragrans	Simpson's Stopper	18"-24" x 18"-24", 30" o.c., full to ground
PHX	Philodendron xanadu	Philodendron	24"-30" x 24"-30", 30" o.c., full
PSY	Psychotria nervosa 'Nana'	Dwarf Wild Coffe	12"-14" x 12"-14", 30" o.c., full to ground
TRI	Tripsacum dactyloides	Fakahatchee Grass	18"-24" x 18"-24", 36" o.c., full to ground
VIO	Viburnum obovatum 'Whorled Class'	Dwarf walter's Viburnum	12"-14" x 12"-14", 24" o.c., full to ground
CR	Clusia Rosea	Florida Clusia	7 Gal. 36" o.c., full



0 40
SCALE FEET

REVISIONS					Kimley»Horn MATTHEW T. FRANKO, P.L.A. No. 6667292 445 24TH STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	66th AVENUE LANDSCAPE PLAN	SHEET NO. LD-20
DESCRIPTION	DATE	BY	DESCRIPTION					

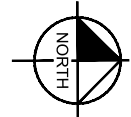


TREE AND PALM SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ED	Elaeocarpus decipiens	Japanese Blueberry Tree	12' x 5', 3" cal., 4' c.t., standard, straight trunk
LE	Lagerstroemia indica 'Tuskegee'	Tuskegee Cape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LI	Lagerstroemia indica 'Natchez'	Natchez Cape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LT	Lagerstroemia indica 'Tuscarora'	Tuscarora Cape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LM	Lagerstroemia indica 'Muskogee'	Muskogee Cape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
SP1	Sabal palmetto	Cabbage Palm	14'-22' o.a., booted, hurricane cut, stagger heights by 3' when planting clusters of 3 or more
QV	Quercus virginiana 'Cathedral'	Cathedral Live Oak	12' x 5'-7', 3"-4" cal., full head, straight trunk, central leader

SHRUB AND GROUND COVER SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ARA	Arachis glabrata 'Ecoturf'	Ornamental Peanut	60" x 30", roll
BUL	Bulbine frutescens	Hallmark Bulbine	10"-12" x 10"-12", 18" o.c., full to ground
CAP	Capparis cynaphallophora	Jamcain Caper	18"-24" x 18"-24", 30" o.c., full to ground
FOR	Forestiera segregata	Florida Privet	18"-24" x 18"-24", 30" o.c., full to ground
HAC	Hamelia patens 'Compacta'	Dwarf Firebush	14"-18" x 14"-18", 30" o.c., full
MUH	Muhlenbergia capillaris	Pink Muhly	12"-14" x 12"-14", 30" o.c., full
MYR	Myrcianthes fragrans	Simpson's Stopper	18"-24" x 18"-24", 30" o.c., full to ground
PHX	Philodendron xanadu	Philodendron	24"-30" x 24"-30", 30" o.c., full
PSY	Psychotria nervosa 'Nana'	Dwarf Wild Coffe	12"-14" x 12"-14", 30" o.c., full to ground
TRI	Tripsacum dactyloides	Fakahatchee Grass	18"-24" x 18"-24", 36" o.c., full to ground
VIO	Viburnum obovatum 'Whorled Class'	Dwarf walter's Viburnum	12"-14" x 12"-14", 24" o.c., full to ground
CR	Clusia Rosea	Florida Clusia	7 Gal. 36" o.c., full



REVISIONS

DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

MATTHEW T. FRANKO, P.L.A. No. 6667292
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 696

INDIAN RIVER COUNTY

BOARD OF COUNTY COMMISSIONERS

66th AVENUE FROM 69th STREET

TO SR-510/85th STREET

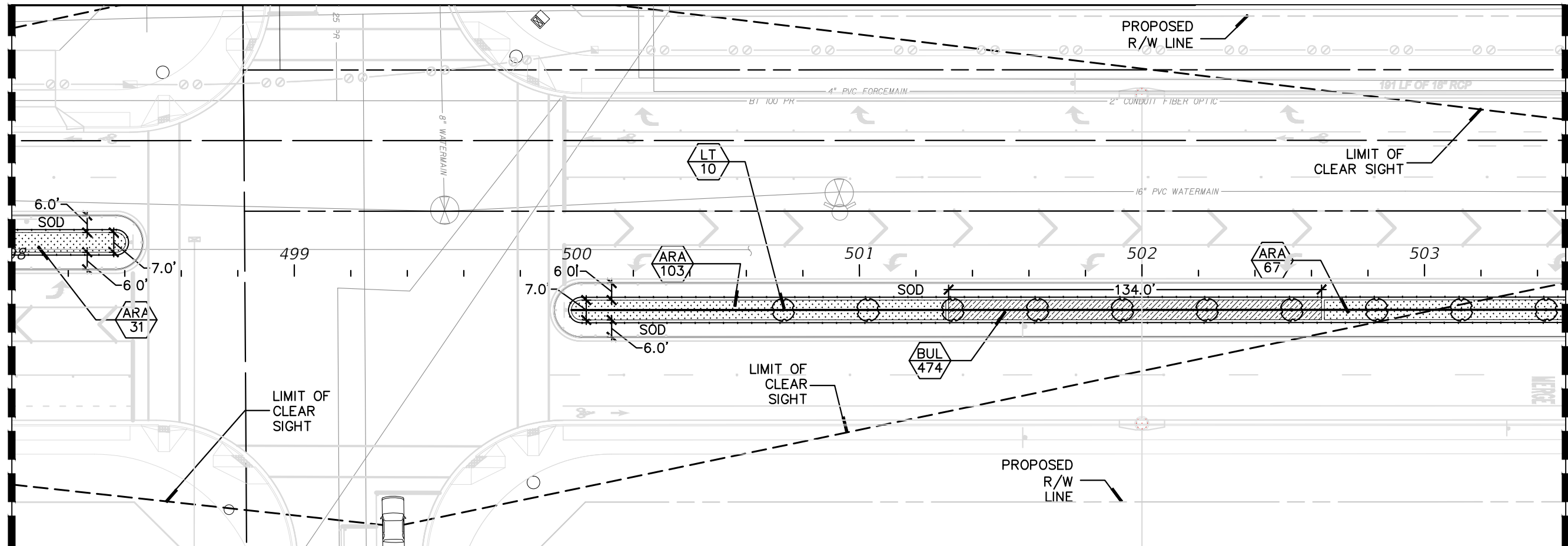
66th AVENUE

LANDSCAPE PLAN

SHEET NO.

LD-21

MATCHLINE STA. 498+00.00



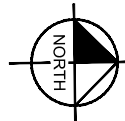
MATCHLINE STA. 503+50.00

TREE AND PALM SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ED	Elaeocarpus decipiens	Japanese Blueberry Tree	12' x 5', 3" cal., 4' c.t., standard, straight trunk
LE	Lagerstroemia indica 'Tuskegee'	Tuskegee Cape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LI	Lagerstroemia indica 'Natchez'	Natchez Cape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LT	Lagerstroemia indica 'Tuscarora'	Tuscarora Cape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LM	Lagerstroemia indica 'Muskogee'	Muskogee Cape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
SP1	Sabal palmetto	Cabbage Palm	14'-22' o.a., booted, hurricane cut, stagger heights by 3' when planting clusters of 3 or more
QV	Quercus virginiana 'Cathedral'	Cathedral Live Oak	12' x 5'-7', 3"-4" cal., full head, staight trunk, central leader

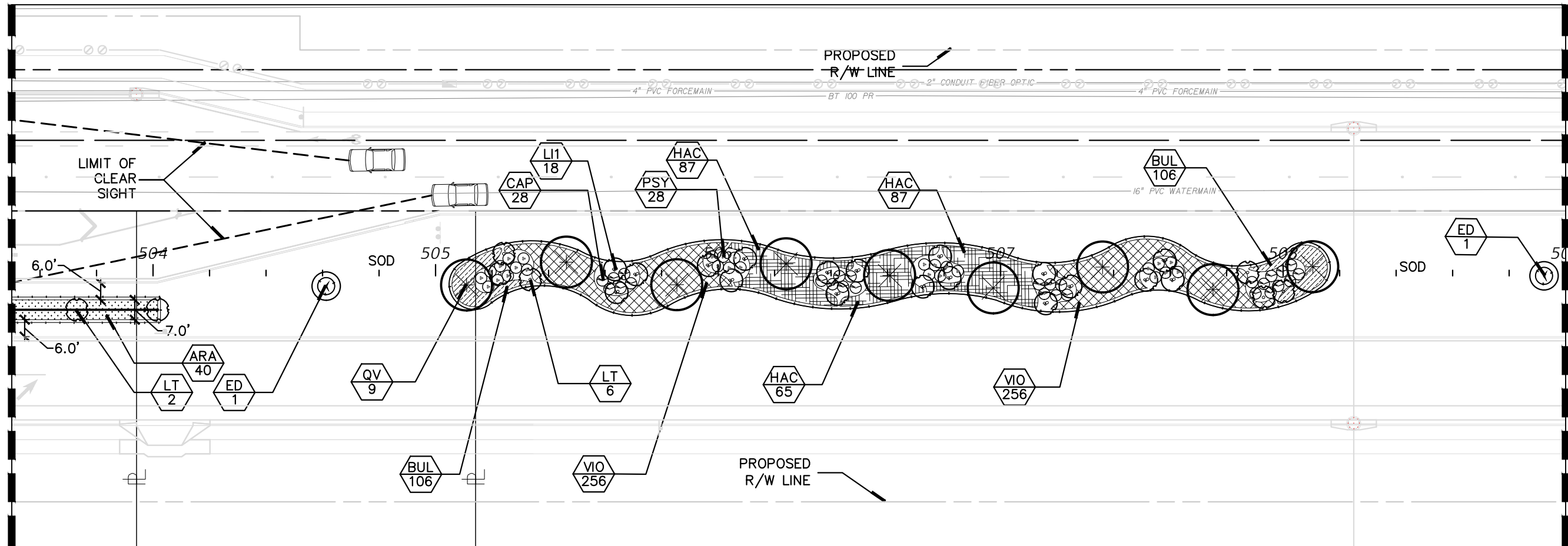
SHRUB AND GROUND COVER SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ARA	Arachis glabrata 'Ecoturf'	Ornamental Peanut	60" x 30", roll
BUL	Bulbine frutescens	Hallmark Bulbine	10"-12" x 10"-12", 18" o.c., full to ground
CAP	Capparis cynaphallophora	Jamcain Caper	18"-24" x 18"-24", 30" o.c., full to ground
FOR	Forestiera segregata	Florida Privet	18"-24" x 18"-24", 30" o.c., full to ground
HAC	Hamelia patens 'Compacta'	Dwarf Firebush	14"-18" x 14"-18", 30" o.c., full
MUH	Muhlenbergia capillaris	Pink Muhly	12"-14" x 12"-14", 30" o.c., full
MYR	Myrcianthes fragrans	Simpson's Stopper	18"-24" x 18"-24", 30" o.c., full to ground
PHX	Philodendron xanadu	Philodendron	24"-30" x 24"-30", 30" o.c., full
PSY	Psychotria nervosa 'Nana'	Dwarf Wild Coffe	12"-14" x 12"-14", 30" o.c., full to ground
TRI	Tripsacum dactyloides	Fakahatchee Grass	18"-24" x 18"-24", 36" o.c., full to ground
VIO	Viburnum obovatum 'Whorled Class'	Dwarf walter's Viburnum	12"-14" x 12"-14", 24" o.c., full to ground
CR	Clusia Rosea	Florida Clusia	7 Gal. 36" o.c., full



REVISIONS					Kimley»Horn <small>MATTHEW T. FRANKO, P.L.A. No. 6667292 445 24TH STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696</small>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	66th AVENUE LANDSCAPE PLAN	SHEET NO.
DESCRIPTION	DATE	BY	DESCRIPTION					LD-22

MATCHLINE STA. 503+50.00



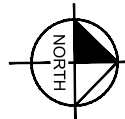
MATCHLINE STA. 509+00.00

TREE AND PALM SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ED	Elaeocarpus decipiens	Japanese Blueberry Tree	12' x 5', 3" cal., 4' c.t., standard, straight trunk
LI	Lagerstroemia indica 'Tuskegee'	Tuskegee Cape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LI	Lagerstroemia indica 'Natchez'	Natchez Cape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LT	Lagerstroemia indica 'Tuscarora'	Tuscarora Cape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LM	Lagerstroemia indica 'Muskogee'	Muskogee Cape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
SP1	Sabal palmetto	Cabbage Palm	14'-22' o.a., booted, hurricane cut, stagger heights by 3' when planting clusters of 3 or more
QV	Quercus virginiana 'Cathedral'	Cathedral Live Oak	12' x 5'-7', 3"-4" cal., full head, straight trunk, central leader

SHRUB AND GROUND COVER SCHEDULE

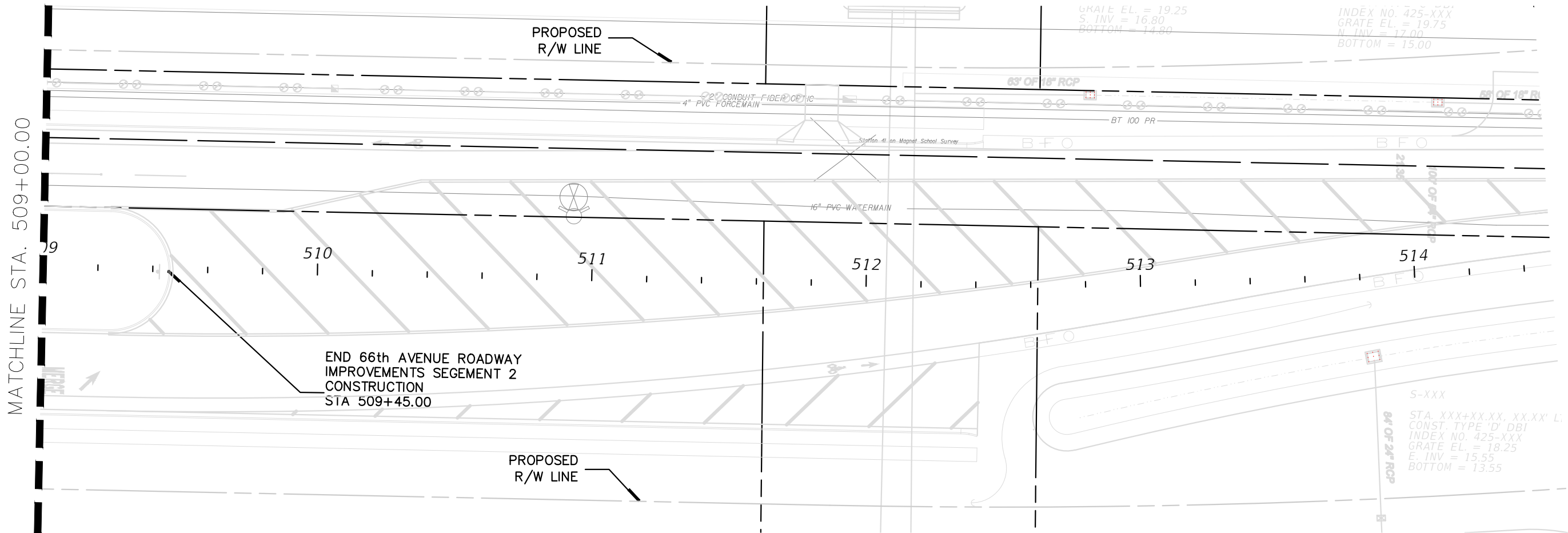
SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ARA	Arachis glabrata 'Ecoturf'	Ornamental Peanut	60" x 30", roll
BUL	Bulbine frutescens	Hallmark Bulbine	10"-12" x 10"-12", 18" o.c., full to ground
CAP	Capparis cynaphallophora	Jamcain Caper	18"-24" x 18"-24", 30" o.c., full to ground
FOR	Forestiera segregata	Florida Privet	18"-24" x 18"-24", 30" o.c., full to ground
HAC	Hamelia patens 'Compacta'	Dwarf Firebush	14"-18" x 14"-18", 30" o.c., full
MUH	Muhlenbergia capillaris	Pink Muhly	12"-14" x 12"-14", 30" o.c., full
MYR	Myrcianthes fragrans	Simpson's Stopper	18"-24" x 18"-24", 30" o.c., full to ground
PHX	Philodendron xanadu	Philodendron	24"-30" x 24"-30", 30" o.c., full
PSY	Psychotria nervosa 'Nana'	Dwarf Wild Coffe	12"-14" x 12"-14", 30" o.c., full to ground
TRI	Tripsacum dactyloides	Fakahatchee Grass	18"-24" x 18"-24", 36" o.c., full to ground
VIO	Viburnum obovatum 'Whorled Class'	Dwarf walter's Viburnum	12"-14" x 12"-14", 24" o.c., full to ground
CR	Clusia Rosea	Florida Clusia	7 Gal. 36" o.c., full



0 40
SCALE FEET

REVISIONS					Kimley»Horn MATTHEW T. FRANKO, P.L.A. No. 6667292 445 24TH STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	66th AVENUE LANDSCAPE PLAN	SHEET NO. LD-23
DESCRIPTION	DATE	BY	DESCRIPTION					

MATCHLINE STA. 509+00.00

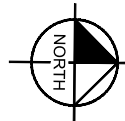


TREE AND PALM SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ED	Elaeocarpus decipiens	Japanese Blueberry Tree	12' x 5', 3" cal., 4' c.t., standard, straight trunk
LE	Lagerstroemia indica 'Tuskegee'	Tuskegee Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
U1	Lagerstroemia indica 'Natchez'	Natchez Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LT	Lagerstroemia indica 'Tuscarora'	Tuscarora Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
LM	Lagerstroemia indica 'Muskogee'	Muskogee Crape Myrtle	10' x 6'-8', multi-trunk, tree form, full head
SP1	Sabal palmetto	Cabbage Palm	14'-22' o.a., booted, hurricane cut, stagger heights by 3' when planting clusters of 3 or more
QV	Quercus virginiana 'Cathedral'	Cathedral Live Oak	12' x 5'-7', 3"-4" cal., full head, staight trunk, central leader

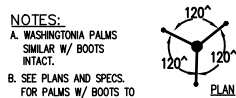
SHRUB AND GROUND COVER SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
ARA	Arachis glabrata 'Ecoturf'	Ornamental Peanut	60" x 30", roll
BUL	Bulbine frutescens	Hallmark Bulbine	10"-12" x 10"-12", 18" o.c., full to ground
CAP	Capparis cynaphallophora	Jamcain Caper	18"-24" x 18"-24", 30" o.c., full to ground
FOR	Forestiera segregata	Florida Privet	18"-24" x 18"-24", 30" o.c., full to ground
HAC	Hamelia patens 'Compacta'	Dwarf Firebush	14"-18" x 14"-18", 30" o.c., full
MUH	Muhlenbergia capillaris	Pink Muhly	12"-14" x 12"-14", 30" o.c., full
MYR	Myrcianthes fragrans	Simpson's Stopper	18"-24" x 18"-24", 30" o.c., full to ground
PHX	Philodendron xanadu	Philodendron	24"-30" x 24"-30", 30" o.c., full
PSY	Psychotria nervosa 'Nana'	Dwarf Wild Coffe	12"-14" x 12"-14", 30" o.c., full to ground
TRI	Tripsacum dactyloides	Fakahatchee Grass	18"-24" x 18"-24", 36" o.c., full to ground
VIO	Viburnum obovatum 'Whorled Class'	Dwarf walter's Viburnum	12"-14" x 12"-14", 24" o.c., full to ground
CR	Clusia Rosea	Florida Clusia	7 Gal. 36" o.c., full



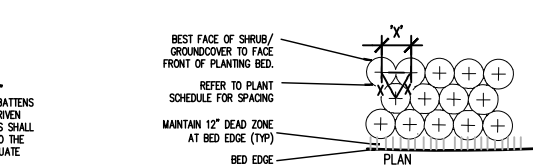
R E V I S I O N S					<div>Kimley»Horn</div> <div>MATTHEW T. FRANKO, P.L.A. No. 6667292 445 24TH STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696</div>	INDIAN RIVER COUNTY		66th AVENUE	SHEET NO.
DESCRIPTION			DATE	BY		BOARD OF COUNTY COMMISSIONERS			LANDSCAPE PLAN
						66th AVENUE FROM 69th STREET			
						TO SR-510/85th STREET		LD-24	

NOTES:
A. WASHINGTONIA PALMS
SIMILAR W/ BOOTS
INTACT.
B. SEE PLANS AND SPECS.
FOR PALMS W/ BOOTS TO
REMAIN ON TRUNK.
C. FINAL TREE STAKING DETAILS
AND PLACEMENT TO BE
APPROVED BY OWNER.
D. CONTRACTOR SHALL ASSURE
PERCOLATION OF ALL
PLANTING PITS PRIOR TO
INSTALLATION - REFER TO
POOR DRAINAGE CONDITION
DETAIL.



PALM PLANTING AND STAKING

SECTION



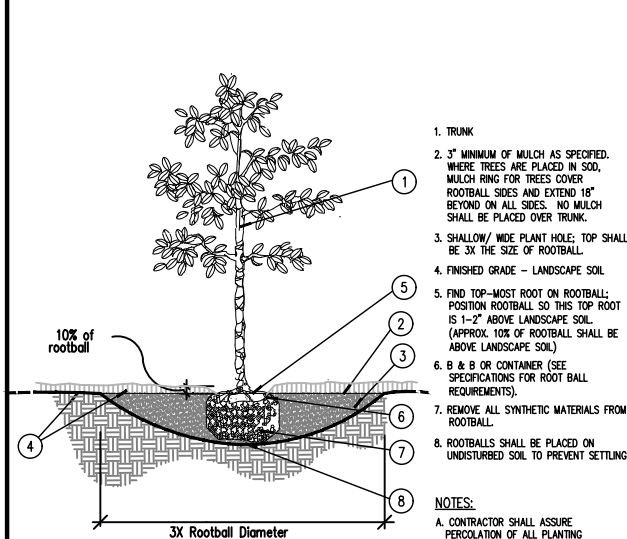
SHRUB / GROUNDCOVER PLANTING

PLAN/SECTION

NOTES:

1. FIND POINT WHERE TOPMOST ROOT EMERGES FROM TRUNK WITHIN 2" OF SURFACE. CLEAR EXCESS SOIL IF NECESSARY.
2. TOP 10% OF SHRUB AND GROUNDCOVER ROOTBALLS TO BE PLANTED ABOVE THE LANDSCAPE GRADE. DO NOT COVER EXPOSED 10% ON SIDES WITH SOIL.
3. PRUNE ALL LIKE SHRUBS WITHIN A PLANTED MASS TO ACHIEVE A UNIFORM MASS/HEIGHT.
4. 3" MINIMUM MULCH AS SPECIFIED - DO NOT COVER ENTIRE SHRUB ROOTBALL OR CREATE "WATER RINGS" ONLY COVER SIDES OF ROOTBALL WITH MULCH.
5. EXCAVATE ENTIRE BED SPECIFIED FOR GROUNDCOVER BED.
6. FINISHED GRADE (SEE GRADING PLAN).
7. PREPARED PLANTING SOIL AS SPECIFIED. NOTE: WHEN GROUND- COVERS AND SHRUBS USED IN MASSES, ENTIRE BED TO BE AMENDED WITH PLANTING SOIL MIX AS SPECIFIED.
8. SCARIFY ROOTBALL SIDES AND BOTTOM.

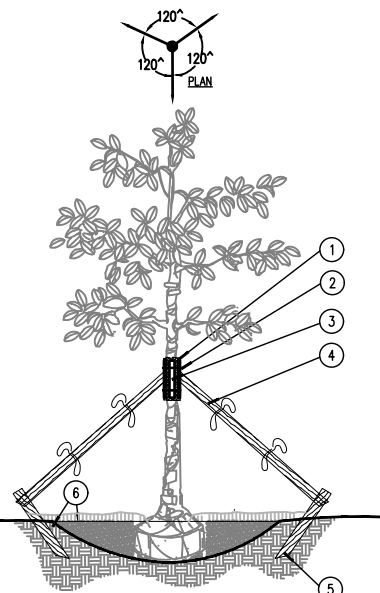
* ALL SHRUBS AND GROUNDCOVERS SHALL BE PLUMB VERTICALLY, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.



TREE PLANTING

SECTION

- NOTES:
- A. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.
 - B. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
 - C. SEE PRE-APPROVED STAKING METHODS, THIS SHEET.



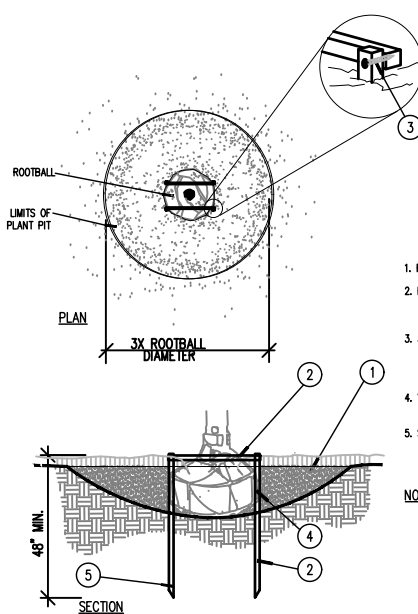
LARGE TREE STAKING - 100 GAL + OR B&B 4" +

SECTION

1. FIVE (5) LAYERS OF BURLAP TO PROTECT TRUNK
2. TWO STEEL BANDS TO SECURE BATTENS
3. FIVE 2 X 4 X 18" L. WOOD BATTENS
4. THREE (3) 2" X 8" LODGE POLES, DRILL, USING GALVANIZED SCREWS, TO BATTENS AND 2" X 4" STAKES. NO SCREWS SHALL PENETRATE TREE. FLAG AT MIDPOINT AND AT BASE.
5. 2" X 4" X 3" (MIN), P.T. WOOD STAKES BURIED 3" BELOW FINISHED GRADE.
6. FINISHED GRADE (SEE GRADING PLAN)

NOTES:

- A. ALL TREES SHALL BE PLUMB VERTICALLY WITHIN A TOLERANCE OF THREE DEGREES, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.
- B. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
- C. ALTERNATE TREE ANCHORING SYSTEMS MAY BE SUBSTITUTED FOR WOOD STAKING SYSTEM UPON APPROVAL BY OWNER OR OWNER'S REPRESENTATIVE.
- D. RUBBER HOSE/WIRE SYSTEMS ARE NOT ALLOWED.



STAKING - UP TO 65 GAL. OR B&B TO 3-1/2" CAL.

PLAN/SECTION

1. FINISH GRADE
2. HORIZONTAL 2X2 SCREWED TO 2X2 STAKE. ALL WOOD SHALL BE #2 UNTREATED.
3. 3-1/2" DRYWALL SCREW, THREAD SIZE 12, SHARP POINT, FULL THREAD, BLACK PHOSPHATE FINISH
4. VERTICAL STAKES SHALL ABUT SIDE OF ROOTBALL
5. STAKES TO EXTEND INTO NATIVE SOIL BY 1-1/2 X THE ROOTBALL DEPTH MIN.

NOTE:

IF SPATIAL REQUIREMENTS PRECLUDE STAKING WITH THIS METHOD, SUBMIT ALTERNATE FOR LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO INSTALLING PLANT.

24" DeepRoot Tree Root Barriers

Specified tree root barriers are a mechanical barrier and root deflector to prevent tree roots from damaging hard-scapes and landscapes. Assembled in 2' long modules to create varying sizes of cylinders for surrounding root balls (Surround planting style) or for linear applications directly beside a hardscape adjacent to one side of the trees (Linear planting style).

A. Materials

1. The contractor shall furnish and install tree root barriers as specified. The tree root barriers shall be product # UB 24-2 as manufactured by Deep Root Partners, L.P. 345 Lorton Ave. #103, Burlingame, CA (800-458-7668), or approved equal. The barrier shall be Black, Injection Molded Panels, of 0.085" wall thickness in modules 24" long by 24" deep; manufactured with a minimum 50% post consumer recycled polypropylene plastic with added ultraviolet inhibitors; recyclable. Each panel shall have:

Not less than 4 Molded Integral Vertical Root Deflecting Ribs of at least 0.085" thickness protruding 1/2" at 90° from interior of the barrier panel, spaced 6" apart. (See panel drawing below)

A Double Top Edge consisting of two parallel, integral, horizontal ribs at the top of the panel of a minimum 0.085" thickness, 7/16" wide and 1/4" apart with the lower rib attached to the vertical root deflecting ribs. (See detail "A")

A minimum of 9 Anti-Lift Ground Lock Tabs consisting of integral horizontal ridges of a minimum 0.085" thickness in the shape of a segment of a circle, the 2" chord of the segment joining the panel wall and the segment, protruding 3/8" from the panel. The nine ground locks on each panel shall be about equally spaced between each of the vertical root deflecting ribs (3 between each set of ribs, see Detail "B").

An integrated Zipper Joining System providing for instant assembly by sliding one panel into another. (See Detail "C")

2.The basic properties of the material shall be:

Test	ASTM Test Method	Value Copolymer Polypropylene
Tensile stress @ yield	D638	3800 PSI
Elongation @ yield	D638	6.3%
Flexural Modulus	D790B	155,000 PSI
Notched Izod Impact	D256A	7.1
Rockwell Hardness r. scale	D785A	68

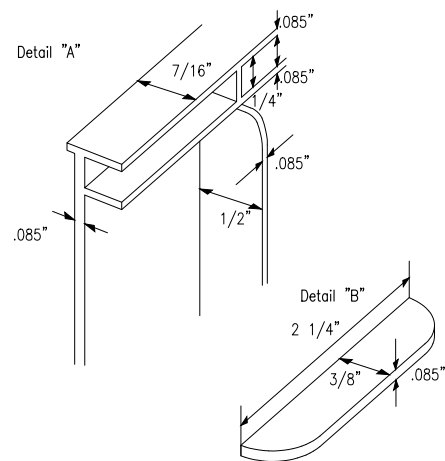
U.S. Patents: 5,305,549 and 5,070,642. Other Patents Pending.

B. Construction and Installation

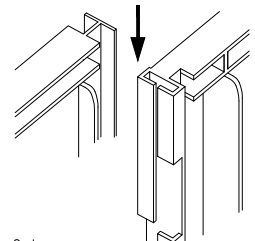
1. The contractor shall install the tree root barriers with the number of panels and in the manner shown on the Drawings. The vertical root deflecting ribs shall be facing inwards to the root ball and the top of the double edge shall be 1/2" above grade. Each of the required number of panels shall be connected to form a circle around the root ball or where specified joined in a linear fashion and placed along the adjacent hardscape.

2. Excavation and soil preparation shall conform to the Drawings

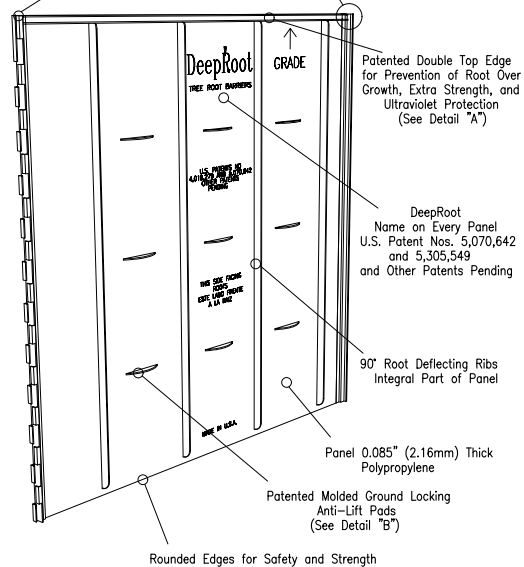
3. The tree root barriers shall be backfilled on the outside with 3/4" to 1 1/2" gravel or crushed rock as shown on the Drawings. No gravel backfill is required for a linear planting



Detail "B"



Detail "C"



REVISIONS

DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

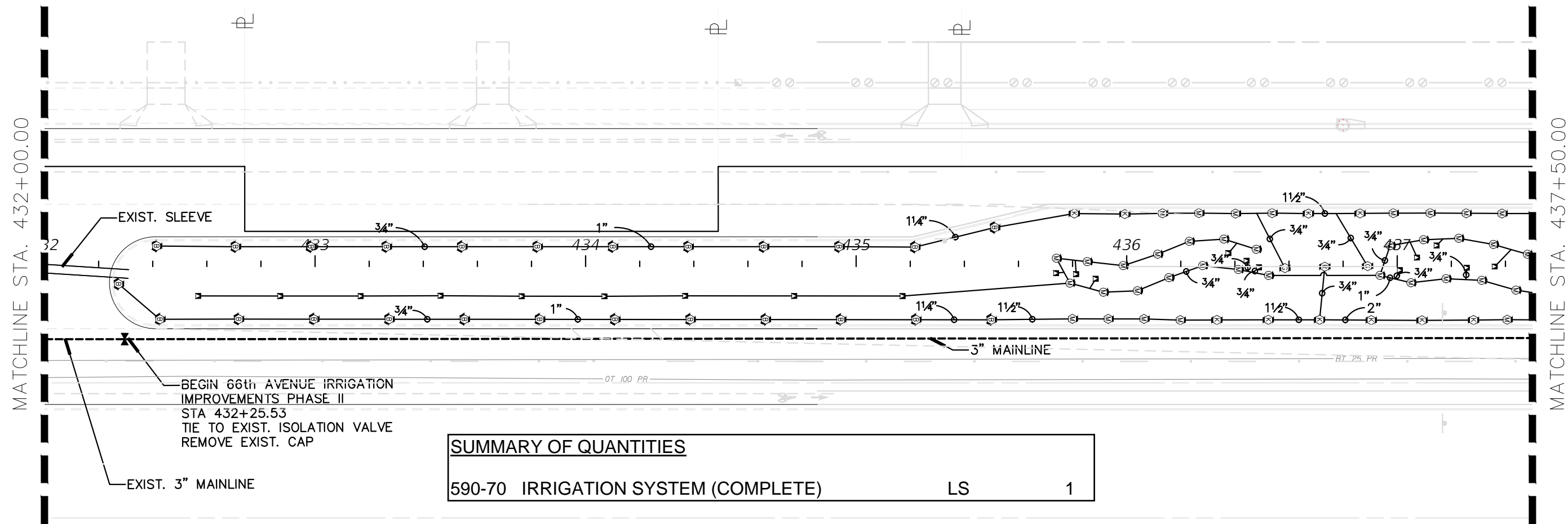
MATTHEW T. FRANKO, P.L.A. No. 6667292
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CA Numbers LC-C000219

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

66th AVENUE
LANDSCAPE DETAILS

SHEET
NO.

LD-25






















SUMMARY OF QUANTITIES

590-70 IRRIGATION SYSTEM (COMPLETE)

LS

1

IRRIGATION LEGEND

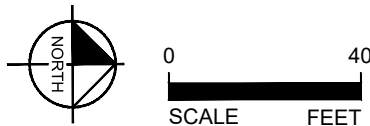
	RB1804-SAM-1404 FLOOD BUBBLES W/NP COVER	0.25 GPM @ 30 PSI
	RB1806-SAM-PRS-30 W/HUNTER MPRSS530	0.44 GPM @ 40 PSI
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	RB1806-SAM-PRS-30 W/HUNTER MP1000360	0.37 GPM @ 40 PSI
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	RB PEB SERIES RCV with flow control	
	SULLIVAN ELECTRIC 5HP	
	WELL POINT - 4" SHALLOW WELL - 100FT MAX DEPTH	
	CLASS 200 PANTONE PURPLE PVC LATERAL LINE W/SCH 40 SOLVENT WELD PVC FITTING (SIZE PER PLAN MIN. PIPE SIZE 3/4")	
	CLASS 200 PANTONE PURPLE PVC GASKETED 'O' RING MAINLINE W/LEEMKO DUCTILE IRON FITTING WITH MECHANICAL JOIN RESTRAINTS (SIZE PER PLAN)	
	IRRIGATION PIPE SLEEVE - CLASS 200 W/SCH 40 SOLVENT-WELD PVC FITTING	
	SCH40 GREY PVC CONDUIT W/SCH40 SOLVENT-WELD PVC FITTING	
	NIBCO P-619-RW MAINLINE ISO VALVE	
	HUNTER ACC 18STATION CONTROLLER	
	HUNTER RFC POLE MOUNTED	
	DATA INDUSTRIES MODEL #220 BR.	
	HUNTER AVB BACKFLOW PREVENTER	

SLEEVE SIZE SCHEDULE

<u>PIPE SIZE</u>	<u>SLEEVE SIZE</u>
(CLASS 200)	(SCHEDULE 40)
3/4"	1-1/2"
1"	2"
1-1/4"	2-1/2"
1-1/2"	3"
2"	4"
2-1/2"	6"
3, 4"	6"

NOTES

1. MAINLINE HAS BEEN SHOWN FOR CLARITY ONLY. MAINLINE SHALL BE LOCATED WITHIN THE ROADWAY MEADIAN.
2. PIPE SLEEVES SHALL ALLOW FOR IRRIGATION PIPING AND THEIR RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING PIPE. EXTEND SLEEVES 18 INCHES BEYOND EDGES OF PAVING. REFER TO SLEEVE SIZE SCHEDULE.



REVISIONS

R E V I S I O N S					
		DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»»Horn

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***INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
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66th AVENUE

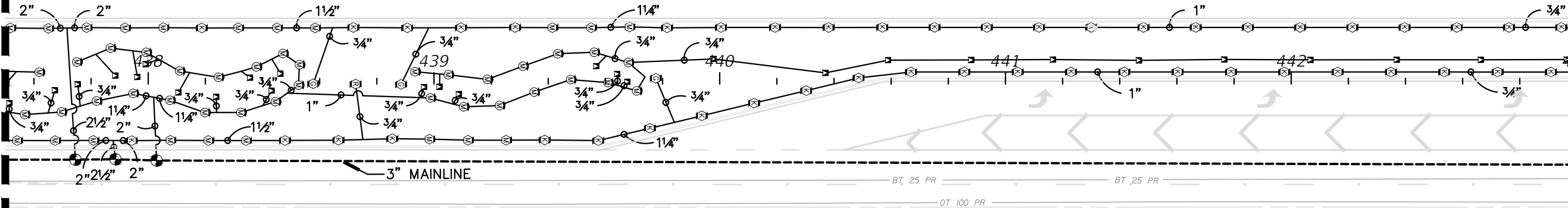
IRRIGATION PLAN

SHEET
NO.

LD-26

MATCHLINE STA. 437+50.00

MATCHLINE STA. 443+00.00



NOTES:

- CONTRACTOR TO PROVIDE NEW WELL UP TO 100' DEEP, WITH DIAMETER AS SPECIFIED. PROVIDE A LINE ITEM 'PER FOOT' COST FOR EACH ADDITIONAL FOOT OF DEPTH, IF NEEDED. CONTRACTOR SHALL NOT DRILL THE WELL DEEPER THAN 100' WITHOUT RECEIVING PRIOR WRITTEN AUTHORIZATION. IF PRIOR AUTHORIZATION IS NOT OBTAINED, IN WRITING, NO ADDITIONAL MONIES WILL BE PAID.
- AFTER THE WELL IS DRILLED, A STEP TEST MUST BE PERFORMED ON THE WELL TO VERIFY THE WELL CAN PRODUCE THE REQUIRED VOLUME OF WATER ON A CONTINUAL BASIS. THE STEP TEST MUST LAST 8 HOURS WITH WATER LEVEL MEASURED EACH HALF HOUR. PEAK DEMAND IS THE GPM IDENTIFIED IN THE POC NOTE ON THE NOTES SHEET:
HOURS 1-2 - PUMP AT 50% OF PEAK DEMAND
HOURS 3-4 - PUMP AT 75% OF PEAK DEMAND
HOURS 5-6 - PUMP AT 100% PEAK DEMAND
HOURS 7-8 - PUMP AT 125% OF PEAK DEMAND
THE RESULTS OF THIS TEST MUST BE APPROVED BY THE OWNER/OWNERS REPRESENTATIVE PRIOR TO THE INSTALLATION OF THE PUMP OR IRRIGATION SYSTEM COMPONENTS. IF THE CONTRACTOR DOES NOT FOLLOW THESE REQUIREMENTS AND THE WELL PROVES TO BE INSUFFICIENT, THE CONTRACTOR BEARS 100% OF THE RESPONSIBILITY AND COSTS TO CORRECT/MODIFY THE SYSTEM TO ACCOMMODATE THE EVENTUAL WATER SOURCE.
- AFTER DRILLING THE WELL, CHECK THE WATER QUALITY TO ENSURE IT IS SUITABLE FOR LANDSCAPE PLANTINGS. USE THE SERVICES OF A REPUTABLE, LICENSED LABORATORY ONLY. WATER QUALITY TESTING MUST INCLUDE pH, CONDUCTIVITY, SODIUM, POTASSIUM, CALCIUM, MAGNESIUM, CARBONATE, BICARBONATE, CHLORIDE, PHOSPHOROUS, NITRATE NO3, SULFATE SO4, BORON, IRON, TOTAL DISSOLVED SOLIDS, SODIUM ABSORPTION RATIO, AND HARDNESS. IF THE WATER IS DETERMINED SUITABLE CONTINUE IRRIGATION INSTALLATION. IF THE WATER QUALITY IS UNSUITABLE, DO NOT PROCEED WITHOUT WRITTEN DIRECTION FROM THE OWNER/OWNER'S REPRESENTATIVE.
- IF A HIGH IRON CONTENT (OR OTHER STAIN PRODUCING COMPOUND) IS DETECTED, ADVISE THE OWNER/OWNER'S REPRESENTATIVE. DO NOT PROCEED WITHOUT WRITTEN PERMISSION. IF A CHEMICAL INJECTION SYSTEM IS REQUIRED BY THE OWNER, IT MUST BE DIRECTED BY THE OWNER AND INSTALLED BY THE PUMP SYSTEM MANUFACTURER.
- THE WELL CASING SHALL BE GALVANIZED STEEL PIPE (SIZED PER PLAN).
- THE PUMP DROP PIPE SHALL BE 2" CERTA LOCK PVC PIPE.
- PRIOR TO INSTALLING ANY IRRIGATION SYSTEM COMPONENTS, THE CONTRACTOR SHALL OBTAIN A WATER SAMPLE FROM THE PROPOSED WATER SUPPLY. CONDUCT A PARTICLE SIZE AND COUNT ANALYSIS ON THE SAMPLE USING THE SERVICES OF A REPUTABLE LAB CERTIFIED IN SUCH ANALYSES. SUBMIT THE TEST RESULTS TO THE OWNER/OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL. DO NOT PROCEED FURTHER WITH SYSTEM INSTALLATION UNTIL GIVEN WRITTEN APPROVAL TO DO SO. IF CONTRACTOR DOES NOT COMPLY WITH THIS REQUIREMENT, ANY COSTS TO MAKE THE IRRIGATION SYSTEM OPERATE AS REQUIRED (WHICH WOULD NOT HAVE BEEN INCURRED HAD THESE REQUIREMENTS BEEN COMPLIED WITH), WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
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CONTROL NOTES:

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IRRIGATION LEGEND

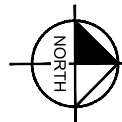
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⊙	RB PEB SERIES RCV with flow control	⚡ NIBCO P-619-RW MAINLINE ISO VALVE
WP	SULLIVAN ELECTRIC 5HP	ACC HUNTER ACC 18STATION CONTROLLER
P.O.C.	WELL POINT - 4" SHALLOW WELL - 100FT MAX DEPTH	Ⓡ HUNTER RFC POLE MOUNTED
---	CLASS 200 PANTONE PURPLE PVC LATERAL LINE W/SCH 40 SOLVENT WELD PVC FITTING (SIZE PER PLAN MIN. PIPE SIZE 3/4")	FS DATA INDUSTRIES MODEL #220 BR. HUNTER AVB BF BACKFLOW PREVENTER
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SLEEVE SIZE SCHEDULE

PIPE SIZE (CLASS 200)	SLEEVE SIZE (SCHEDULE 40)
3/4"	1-1/2"
1"	2"
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1-1/2"	3"
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3, 4"	6"

NOTES

- MAINLINE HAS BEEN SHOWN FOR CLARITY ONLY. MAINLINE SHALL BE LOCATED WITHIN THE ROADWAY MEADIAN.
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R E V I S I O N S				
	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

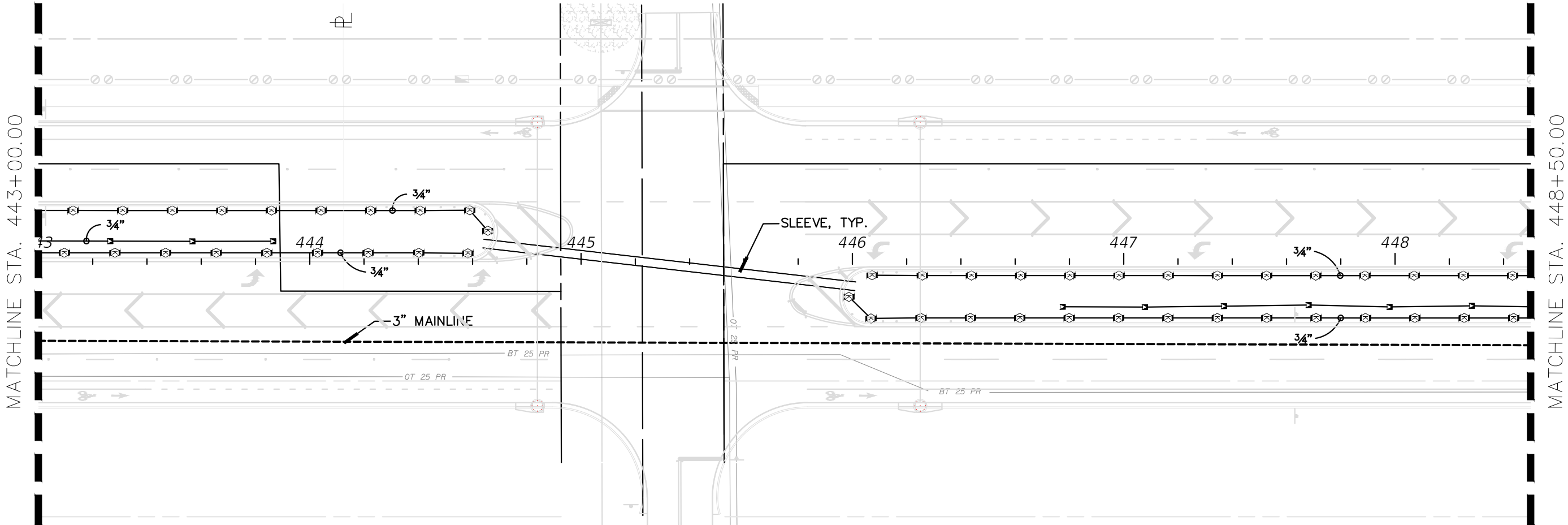
MATTHEW T. FRANKO, P.L.A. No. 6667292
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REGISTRY No: 696

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

66th AVENUE
IRRIGATION PLAN

SHEET
NO.

LD-27



NOTES:

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IRRIGATION LEGEND

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⊙	RB PEB SERIES RCV with flow control	
WP	SULLIVAN ELECTRIC 5HP	
P.O.C.	WELL POINT - 4" SHALLOW WELL - 100FT MAX DEPTH	
—	CLASS 200 PANTONE PURPLE PVC LATERAL LINE W/SCH 40 SOLVENT WELD PVC FITTING (SIZE PER PLAN MIN. PIPE SIZE 3/4")	
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ACC	HUNTER ACC 18STATION CONTROLLER	
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FS	DATA INDUSTRIES MODEL #220 BR. HUNTER AVB	
BF	BACKFLOW PREVENTER	

SLEEVE SIZE SCHEDULE

PIPE SIZE (CLASS 200)	SLEEVE SIZE (SCHEDULE 40)
3/4"	1-1/2"
1"	2"
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1-1/2"	3"
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NOTES

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REVISIONS				
	DESCRIPTION	DATE	BY	

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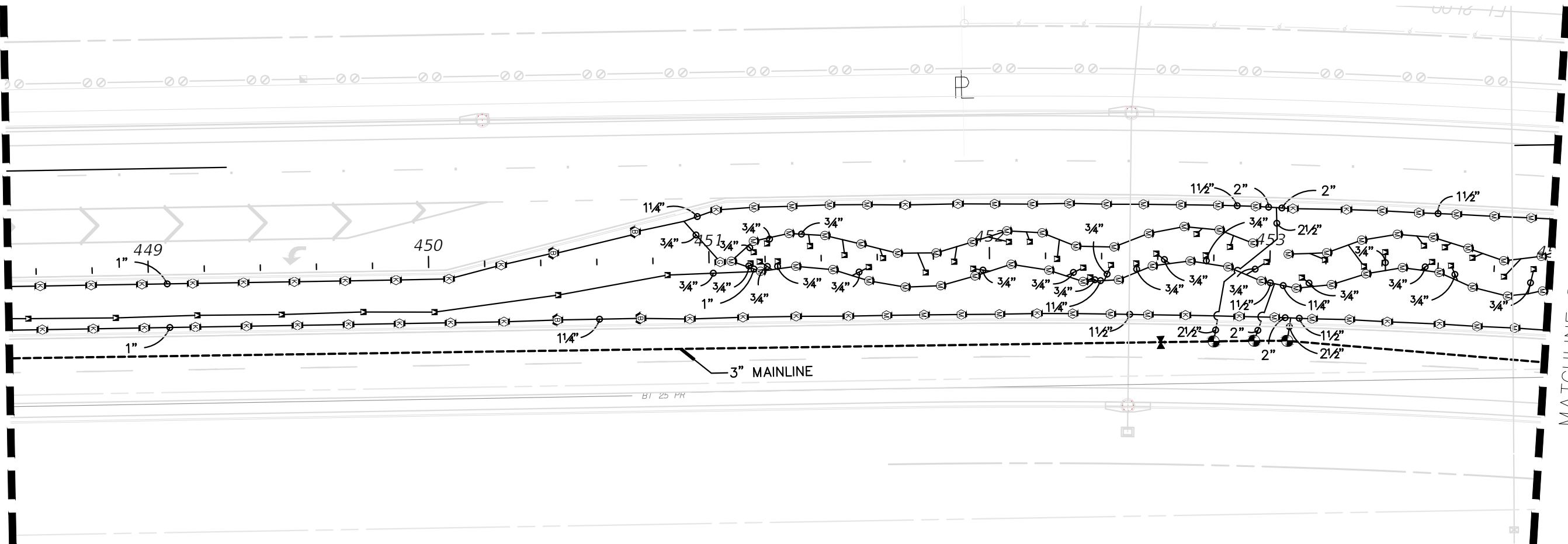
INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

66th AVENUE
IRRIGATION PLAN

SHEET NO.
LD-28

MATCHLINE STA. 448+50.00

MATCHLINE STA. 454+00.00



NOTES:

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IRRIGATION LEGEND

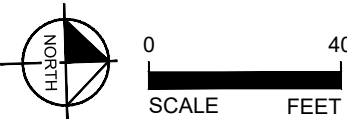
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ACC	HUNTER ACC 18STATION CONTROLLER	
Ⓡ	HUNTER RFC POLE MOUNTED	
FS	DATA INDUSTRIES MODEL #220 BR. HUNTER AVB	
BF	BACKFLOW PREVENTER	

SLEEVE SIZE SCHEDULE

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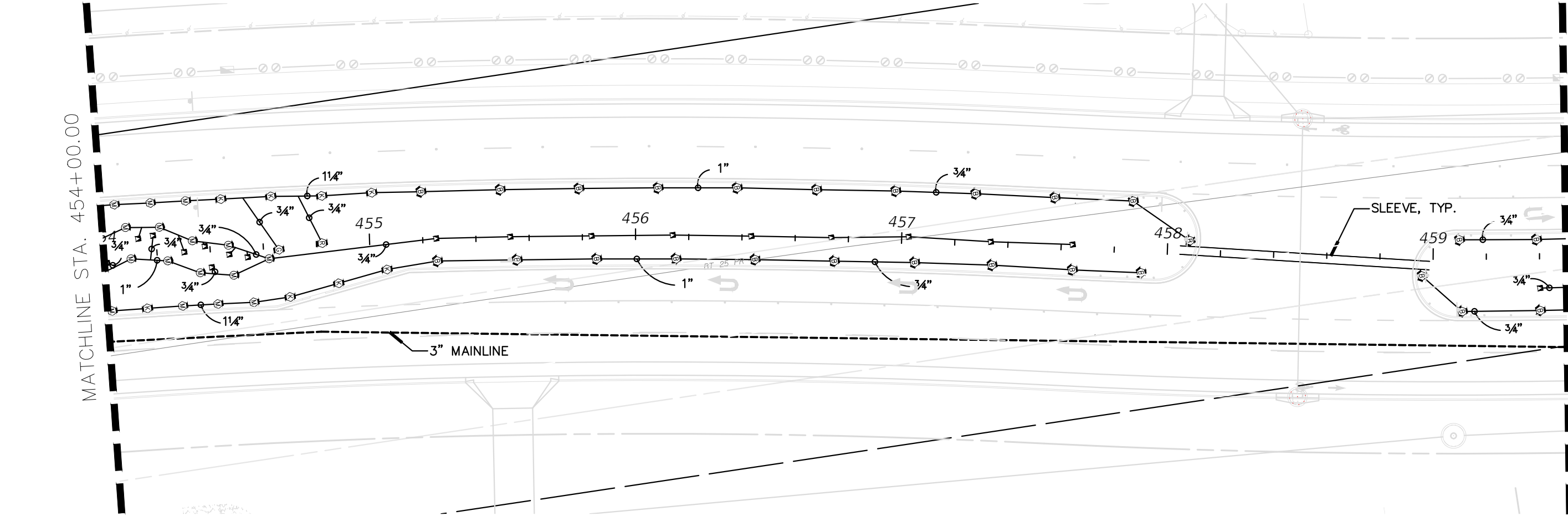
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REVISIONS					Kimley»Horn MATTHEW T. FRANKO, P.L.A. No. 6667292 445 24TH STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	66th AVENUE IRRIGATION PLAN	SHEET NO. LD-29
DESCRIPTION	DATE	BY	DESCRIPTION					

MATCHLINE STA. 454+00.00

MATCHLINE STA. 459+50.00



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IRRIGATION LEGEND

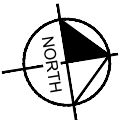
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FS	DATA INDUSTRIES MODEL #220 BR. HUNTER AVB	
BF	BACKFLOW PREVENTER	

SLEEVE SIZE SCHEDULE

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R E V I S I O N S				
	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

MATTHEW T. FRANKO, P.L.A. No. 6667292
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No# 696

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

66th AVENUE
IRRIGATION PLAN

SHEET
NO.

LD-30

MATCHLINE STA. 459+50.00

MATCHLINE STA. 465+00.00

NOTES:
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IRRIGATION LEGEND

▼

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⊙

RB1806-SAM-PRS-30 W/HUNTER MPRSS5300.44 GPM @ 40 PSI

Ⓜ

RB1806-SAM-PRS-30 W/ HUNTER MP1000adj. arc 90°-210°0.19-0.43 GPM @ 40 PSI

Ⓢ

RB1806-SAM-PRS-30 W/HUNTER MP10003600.37 GPM @ 40 PSI

Ⓚ

RB1806-SAM-PRS-30 W/HUNTER MP2000adj. arc 90°-210°0.40-1.10 GPM @ 40 PSI

Ⓡ

RB1806-SAM-PRS-30 W/HUNTER MP20003601.47 GPM @ 40 PSI

Ⓟ

RB1806-SAM-PRS-30 W/HUNTER MP3000adj. arc 90°-210°0.86-2.12 GPM @ 40 PSI

⦿

RB PEB SERIES RCVwith flow control

WP

SULLIVAN ELECTRIC 5HP

P.O.C.

WELL POINT - 4" SHALLOW WELL - 100FT MAX DEPTH

—

CLASS 200 PANTONE PURPLE PVC LATERAL LINE W/SCH 40 SOLVENT WELD PVC FITTING (SIZE PER PLAN MIN. PIPE SIZE 3/4")

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CLASS 200 PANTONE PURPLE PVC GASKETED 'O' RING MAINLINE W/LEEMKO DUCTILE IRON FITTING WITH MECHANICAL JOIN RESTRAINTS (SIZE PER PLAN)

IRRIGATION PIPE SLEEVE - CLASS 200 W/SCH 40 SOLVENT-WELD PVC FITTING

—

SCH40 GREY PVC CONDUIT W/SCH0 SOLVENT-WELD PVC FITTING

⌵

NIBCO P-619-RW MAINLINE ISO VALVE

ACC

HUNTER ACC 18STATION CONTROLLER

Ⓡ

HUNTER RFC POLE MOUNTED

FS

DATA INDUSTRIES MODEL #220 BR. HUNTER AVB

BF

BACKFLOW PREVENTER

SLEEVE SIZE SCHEDULE

PIPE SIZE (CLASS 200)	SLEEVE SIZE (SCHEDULE 40)
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NORTH

040
SCALEFEET

R E V I S I O N S					Kimley»Horn	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	66th AVENUE IRRIGATION PLAN	SHEET NO. LD-31
	DESCRIPTION	DATE	BY	DESCRIPTION				

MATTHEW T. FRANKO, P.L.A. No. 6667292
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No# 696

10/03/2022 2:27 pm K:\VRR Roadway\4703504\Icadd\Phase II Construction Plans\landscape\LD-IP3 IRRIGATION PLAN.dwg

MATCHLINE STA. 465+00.00

MATCHLINE STA. 470+50.00

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⊙	RB PEB SERIES RCV with flow control	⌵ NIBCO P-619-RW MAINLINE ISO VALVE
WP	SULLIVAN ELECTRIC 5HP	ACC HUNTER ACC 18STATION CONTROLLER
P.O.C.	WELL POINT - 4" SHALLOW WELL - 100FT MAX DEPTH	Ⓡ HUNTER RFC POLE MOUNTED
---	CLASS 200 PANTONE PURPLE PVC LATERAL LINE	FS DATA INDUSTRIES MODEL #220 BR.
---	W/SCH 40 SOLVENT WELD PVC FITTING (SIZE PER PLAN MIN. PIPE SIZE 3/4")	BF HUNTER AVB BACKFLOW PREVENTER
---	CLASS 200 PANTONE PURPLE PVC GASKETED 'O' RING MAINLINE W/LEEMKO DUCTILE IRON FITTING WITH MECHANICAL JOIN RESTRAINTS (SIZE PER PLAN)	
---	IRRIGATION PIPE SLEEVE - CLASS 200 W/SCH 40 SOLVENT-WELD PVC FITTING	
---	SCH40 GREY PVC CONDUIT W/SCH0 SOLVENT-WELD PVC FITTING	

SLEEVE SIZE SCHEDULE

PIPE SIZE (CLASS 200)	SLEEVE SIZE (SCHEDULE 40)
3/4"	1-1/2"
1"	2"
1-1/4"	2-1/2"
1-1/2"	3"
2"	4"
2-1/2"	6"
3, 4"	6"

NOTES

- MAINLINE HAS BEEN SHOWN FOR CLARITY ONLY. MAINLINE SHALL BE LOCATED WITHIN THE ROADWAY MEADIAN.
- PIPE SLEEVES SHALL ALLOW FOR IRRIGATION PIPING AND THEIR RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING PIPE. EXTEND SLEEVES 18 INCHES BEYOND EDGES OF PAVING. REFER TO SLEEVE SIZE SCHEDULE.



R E V I S I O N S				
	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

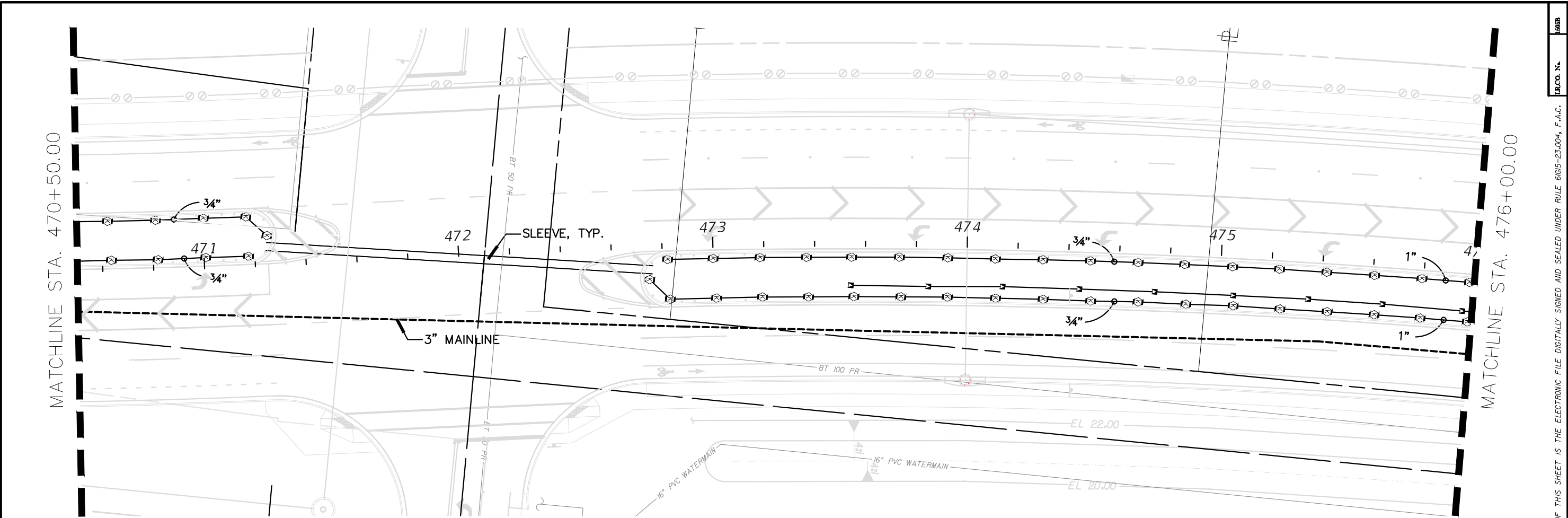
MATTHEW T. FRANKO, P.L.A. No. 6667292
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No: 696

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

66th AVENUE
IRRIGATION PLAN

SHEET
NO.

LD-32



- NOTES:**
- CONTRACTOR TO PROVIDE NEW WELL UP TO 100' DEEP, WITH DIAMETER AS SPECIFIED. PROVIDE A LINE ITEM 'PER FOOT' COST FOR EACH ADDITIONAL FOOT OF DEPTH, IF NEEDED. CONTRACTOR SHALL NOT DRILL THE WELL DEEPER THAN 100' WITHOUT RECEIVING PRIOR WRITTEN AUTHORIZATION. IF PRIOR AUTHORIZATION IS NOT OBTAINED, IN WRITING, NO ADDITIONAL MONIES WILL BE PAID.
 - AFTER THE WELL IS DRILLED, A STEP TEST MUST BE PERFORMED ON THE WELL TO VERIFY THE WELL CAN PRODUCE THE REQUIRED VOLUME OF WATER ON A CONTINUAL BASIS. THE STEP TEST MUST LAST 8 HOURS WITH WATER LEVEL MEASURED EACH HALF HOUR. PEAK DEMAND IS THE GPM IDENTIFIED IN THE POC NOTE ON THE NOTES SHEET:
HOURS 1-2 - PUMP AT 50% OF PEAK DEMAND
HOURS 3-4 - PUMP AT 75% OF PEAK DEMAND
HOURS 5-6 - PUMP AT 100% PEAK DEMAND
HOURS 7-8 - PUMP AT 125% OF PEAK DEMAND
THE RESULTS OF THIS TEST MUST BE APPROVED BY THE OWNER/OWNERS REPRESENTATIVE PRIOR TO THE INSTALLATION OF THE PUMP OR IRRIGATION SYSTEM COMPONENTS. IF THE CONTRACTOR DOES NOT FOLLOW THESE REQUIREMENTS AND THE WELL PROVES TO BE INSUFFICIENT, THE CONTRACTOR BEARS 100% OF THE RESPONSIBILITY AND COSTS TO CORRECT/MODIFY THE SYSTEM TO ACCOMMODATE THE EVENTUAL WATER SOURCE.
 - AFTER DRILLING THE WELL, CHECK THE WATER QUALITY TO ENSURE IT IS SUITABLE FOR LANDSCAPE PLANTINGS. USE THE SERVICES OF A REPUTABLE, LICENSED LABORATORY ONLY. WATER QUALITY TESTING MUST INCLUDE pH, CONDUCTIVITY, SODIUM, POTASSIUM, CALCIUM, MAGNESIUM, CARBONATE, BICARBONATE, CHLORIDE, PHOSPHOROUS, NITRATE NO3, SULFATE SO4, BORON, IRON, TOTAL DISSOLVED SOLIDS, SODIUM ABSORPTION RATIO, AND HARDNESS. IF THE WATER IS DETERMINED SUITABLE CONTINUE IRRIGATION INSTALLATION. IF THE WATER QUALITY IS UNSUITABLE, DO NOT PROCEED WITHOUT WRITTEN DIRECTION FROM THE OWNER/OWNER'S REPRESENTATIVE.
 - IF A HIGH IRON CONTENT (OR OTHER STAIN PRODUCING COMPOUND) IS DETECTED, ADVISE THE OWNER/OWNER'S REPRESENTATIVE. DO NOT PROCEED WITHOUT WRITTEN PERMISSION. IF A CHEMICAL INJECTION SYSTEM IS REQUIRED BY THE OWNER, IT MUST BE DIRECTED BY THE OWNER AND INSTALLED BY THE PUMP SYSTEM MANUFACTURER.
 - THE WELL CASING SHALL BE GALVANIZED STEEL PIPE (SIZED PER PLAN).
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 - PRIOR TO INSTALLING ANY IRRIGATION SYSTEM COMPONENTS, THE CONTRACTOR SHALL OBTAIN A WATER SAMPLE FROM THE PROPOSED WATER SUPPLY. CONDUCT A PARTICLE SIZE AND COUNT ANALYSIS ON THE SAMPLE USING THE SERVICES OF A REPUTABLE LAB CERTIFIED IN SUCH ANALYSES. SUBMIT THE TEST RESULTS TO THE OWNER/OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL. DO NOT PROCEED FURTHER WITH SYSTEM INSTALLATION UNTIL GIVEN WRITTEN APPROVAL TO DO SO. IF CONTRACTOR DOES NOT COMPLY WITH THIS REQUIREMENT, ANY COSTS TO MAKE THE IRRIGATION SYSTEM OPERATE AS REQUIRED (WHICH WOULD NOT HAVE BEEN INCURRED HAD THESE REQUIREMENTS BEEN COMPLIED WITH), WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
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IRRIGATION LEGEND

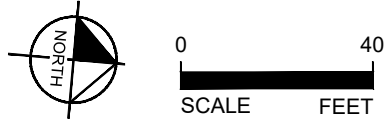
- | | | |
|--------|---|------------------------|
| ▼ | RB1804-SAM-1404 FLOOD BUBBLES W/NP COVER | 0.25 GPM @ 30 PSI |
| ⊙ | RB1806-SAM-PRS-30 W/HUNTER MPRSS530 | 0.44 GPM @ 40 PSI |
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adj. arc 90°-210° | 0.19-0.43 GPM @ 40 PSI |
| ⓪ | RB1806-SAM-PRS-30 W/HUNTER MP1000360 | 0.37 GPM @ 40 PSI |
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| --- | SCH40 GREY PVC CONDUIT W/SCH0 SOLVENT-WELD PVC FITTING | |
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SLEEVE SIZE SCHEDULE

PIPE SIZE (CLASS 200)	SLEEVE SIZE (SCHEDULE 40)
3/4"	1-1/2"
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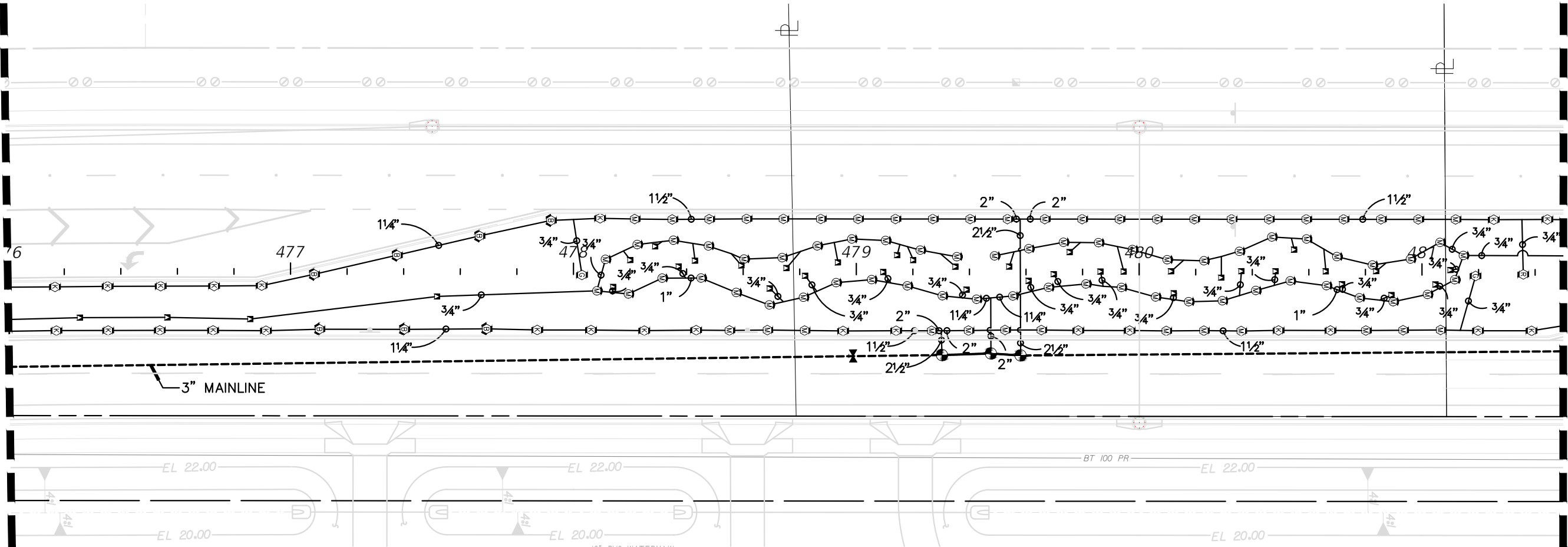
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REVISIONS					Kimley»Horn MATTHEW T. FRANKO, P.L.A. No. 6667292 445 24TH STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No# 696	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	66th AVENUE IRRIGATION PLAN	SHEET NO. LD-33
DESCRIPTION	DATE	BY	DESCRIPTION					

MATCHLINE STA. 476+00.00

MATCHLINE STA. 481+50.00



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IRRIGATION LEGEND

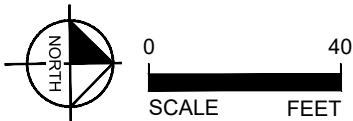
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WP	SULLIVAN ELECTRIC 5HP	
P.O.C.	WELL POINT - 4" SHALLOW WELL - 100FT MAX DEPTH	
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ACC	HUNTER ACC 18STATION CONTROLLER	
⊗	HUNTER RFC POLE MOUNTED	
FS	DATA INDUSTRIES MODEL #220 BR. HUNTER AVB	
BF	BACKFLOW PREVENTER	

SLEEVE SIZE SCHEDULE

PIPE SIZE (CLASS 200)	SLEEVE SIZE (SCHEDULE 40)
3/4"	1-1/2"
1"	2"
1-1/4"	2-1/2"
1-1/2"	3"
2"	4"
2-1/2"	6"
3, 4"	6"

NOTES

- MAINLINE HAS BEEN SHOWN FOR CLARITY ONLY. MAINLINE SHALL BE LOCATED WITHIN THE ROADWAY MEADIAN.
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REVISIONS				
	DESCRIPTION	DATE	BY	

Kimley»Horn

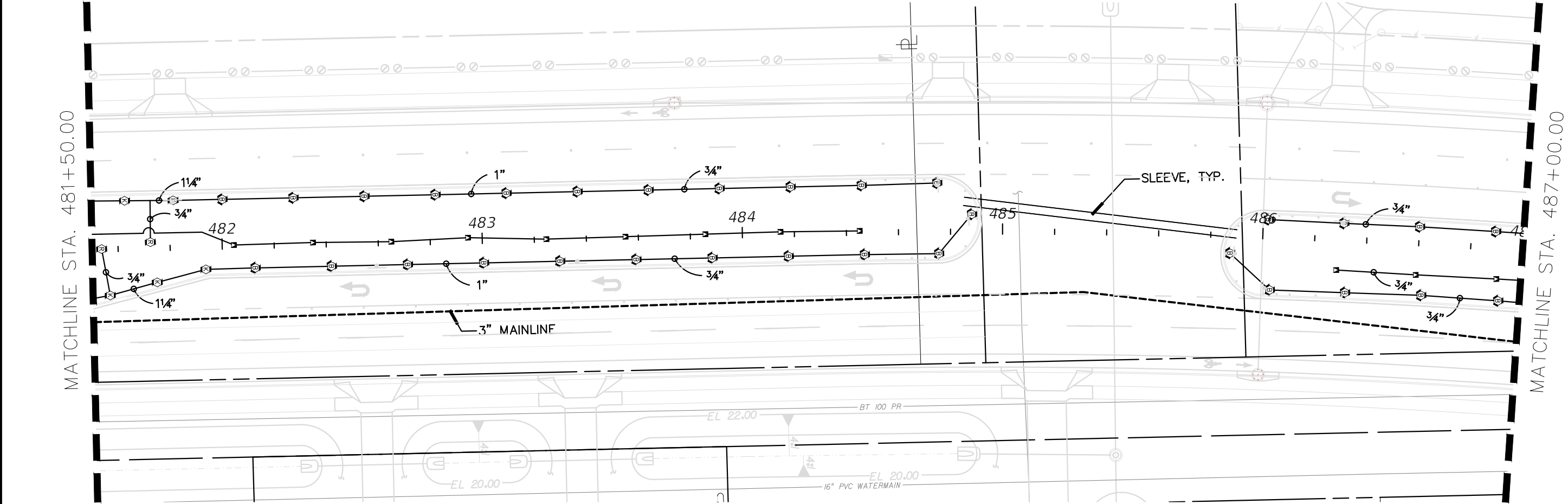
MATTHEW T. FRANKO, P.L.A. No. 6667292
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
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REGISTRY No: 696

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

66th AVENUE
IRRIGATION PLAN

SHEET
NO.

LD-34



- NOTES:**
- CONTRACTOR TO PROVIDE NEW WELL UP TO 100' DEEP, WITH DIAMETER AS SPECIFIED. PROVIDE A LINE ITEM 'PER FOOT' COST FOR EACH ADDITIONAL FOOT OF DEPTH, IF NEEDED. CONTRACTOR SHALL NOT DRILL THE WELL DEEPER THAN 100' WITHOUT RECEIVING PRIOR WRITTEN AUTHORIZATION. IF PRIOR AUTHORIZATION IS NOT OBTAINED, IN WRITING, NO ADDITIONAL MONIES WILL BE PAID.
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IRRIGATION LEGEND

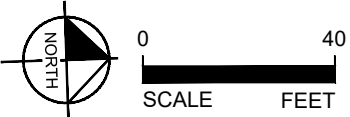
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SLEEVE SIZE SCHEDULE

PIPE SIZE (CLASS 200)	SLEEVE SIZE (SCHEDULE 40)
3/4"	1-1/2"
1"	2"
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NOTES

- MAINLINE HAS BEEN SHOWN FOR CLARITY ONLY. MAINLINE SHALL BE LOCATED WITHIN THE ROADWAY MEADIAN.
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R E V I S I O N S				
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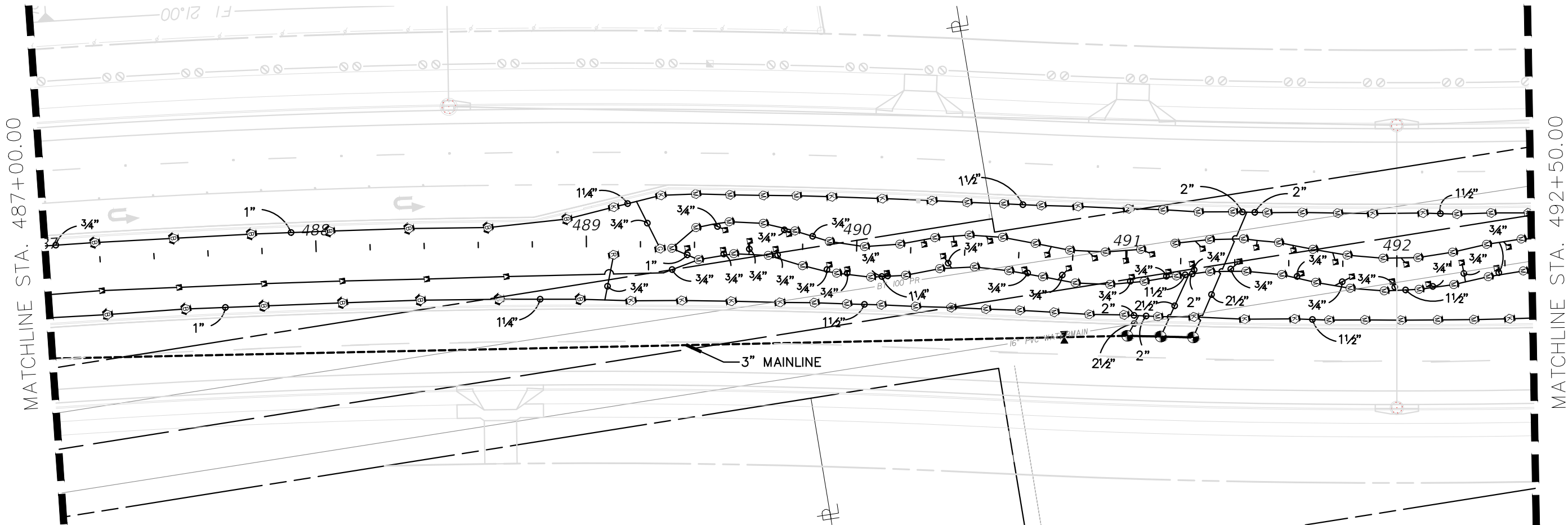
Kimley»Horn

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INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

66th AVENUE
IRRIGATION PLAN

SHEET NO.
LD-35



NOTES:

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- IF A HIGH IRON CONTENT (OR OTHER STAIN PRODUCING COMPOUND) IS DETECTED, ADVISE THE OWNER/OWNER'S REPRESENTATIVE. DO NOT PROCEED WITHOUT WRITTEN PERMISSION. IF A CHEMICAL INJECTION SYSTEM IS REQUIRED BY THE OWNER, IT MUST BE DIRECTED BY THE OWNER AND INSTALLED BY THE PUMP SYSTEM MANUFACTURER.
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IRRIGATION LEGEND

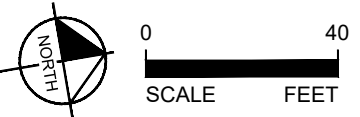
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---	CLASS 200 PANTONE PURPLE PVC LATERAL LINE W/SCH 40 SOLVENT WELD PVC FITTING (SIZE PER PLAN MIN. PIPE SIZE 3/4")	
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ACC	HUNTER ACC 18STATION CONTROLLER	
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SLEEVE SIZE SCHEDULE

PIPE SIZE (CLASS 200)	SLEEVE SIZE (SCHEDULE 40)
3/4"	1-1/2"
1"	2"
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2"	4"
2-1/2"	6"
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R E V I S I O N S					<div>Kimley»Horn</div> <div>MATTHEW T. FRANKO, P.L.A. No. 6667292 445 24TH STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696</div>	<div>INDIAN RIVER COUNTY</div> <div>BOARD OF COUNTY COMMISSIONERS</div> <div>66th AVENUE FROM 69th STREET</div> <div>TO SR-510/85th STREET</div>	<div>66th AVENUE</div> <div>IRRIGATION PLAN</div>	SHEET NO.
DESCRIPTION	DATE	BY	DESCRIPTION	LD-36				

MATCHLINE STA. 492+50.00

MATCHLINE STA. 498+00.00

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IRRIGATION LEGEND

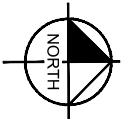
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SLEEVE SIZE SCHEDULE

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0 40
SCALE FEET

R E V I S I O N S				
	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

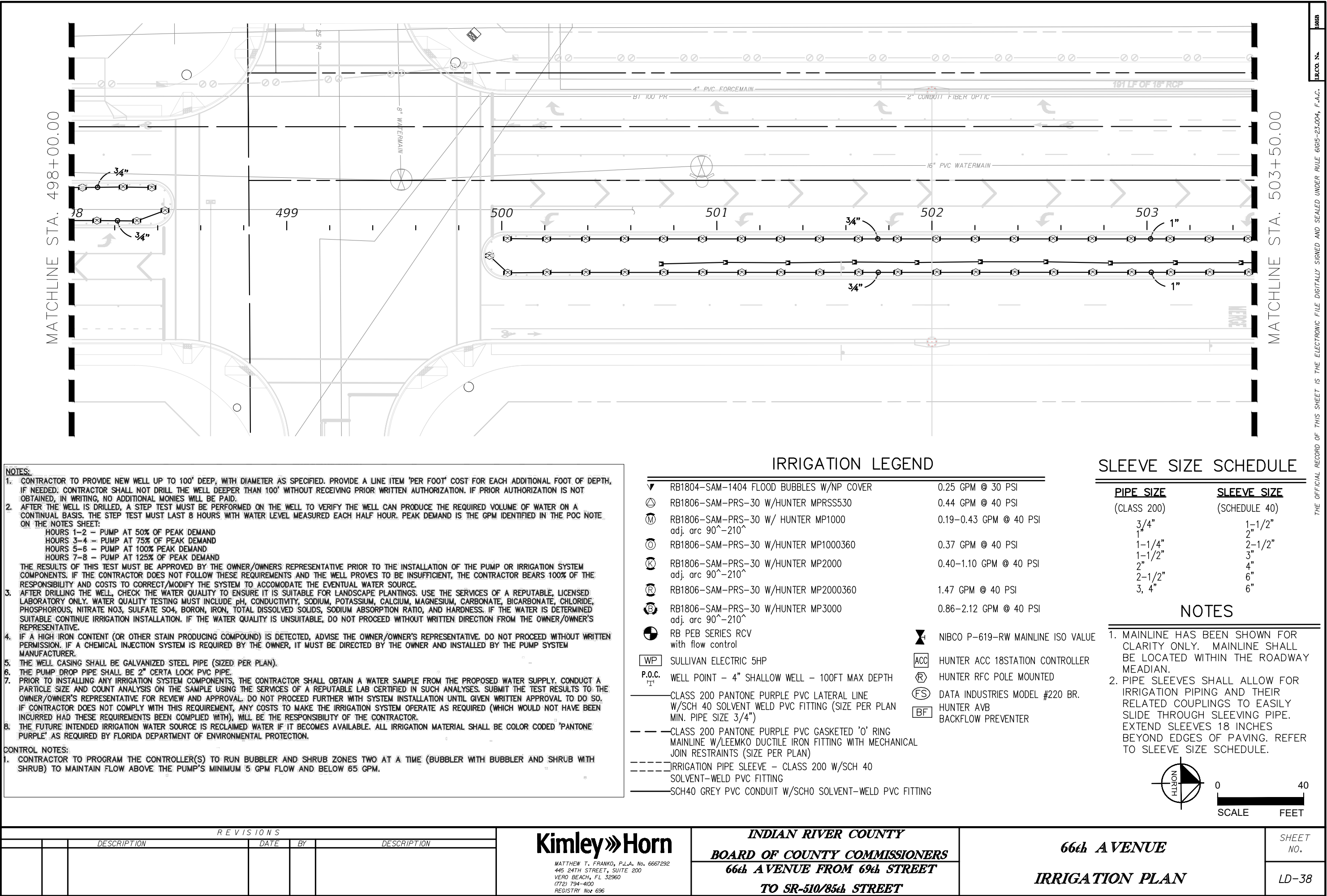
MATTHEW T. FRANKO, P.L.A. No. 6667292
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66th AVENUE FROM 69th STREET
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66th AVENUE
IRRIGATION PLAN

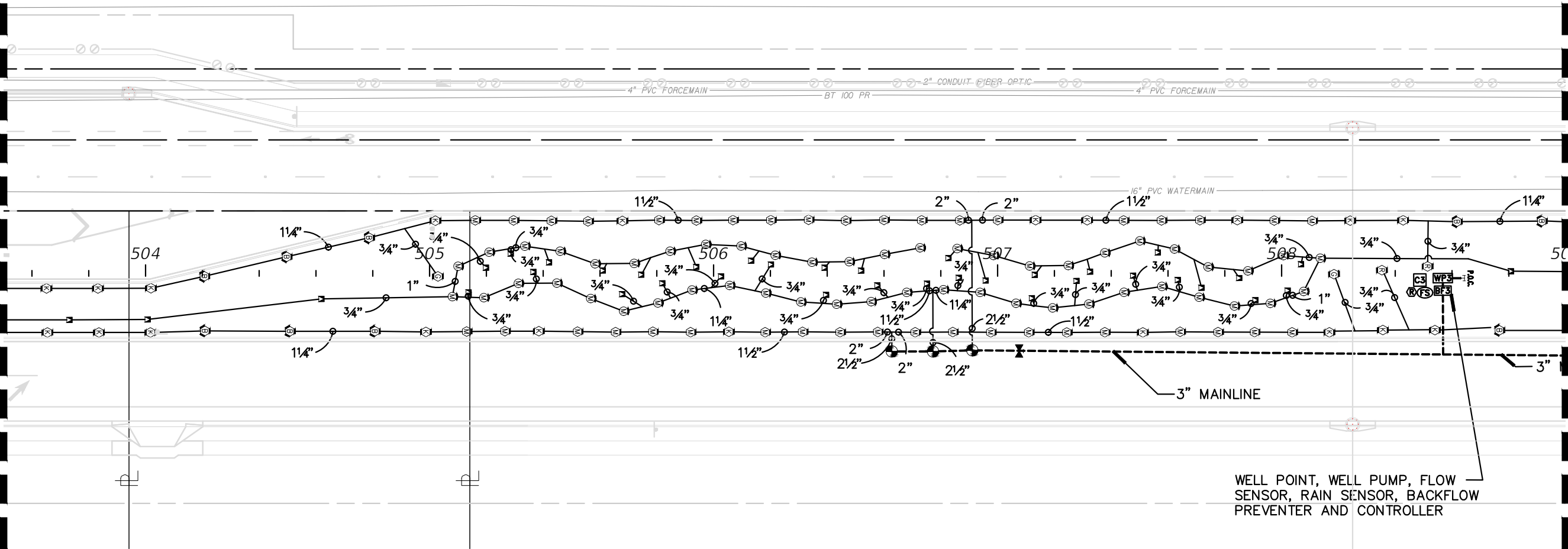
SHEET
NO.

LD-37



MATCHLINE STA. 503+50.00

MATCHLINE STA. 509+00.00



WELL POINT, WELL PUMP, FLOW
SENSOR, RAIN SENSOR, BACKFLOW
PREVENTER AND CONTROLLER

IRRIGATION LEGEND

SLEEVE SIZE SCHEDULE

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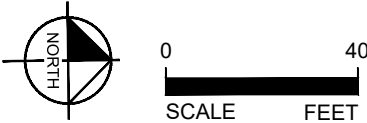
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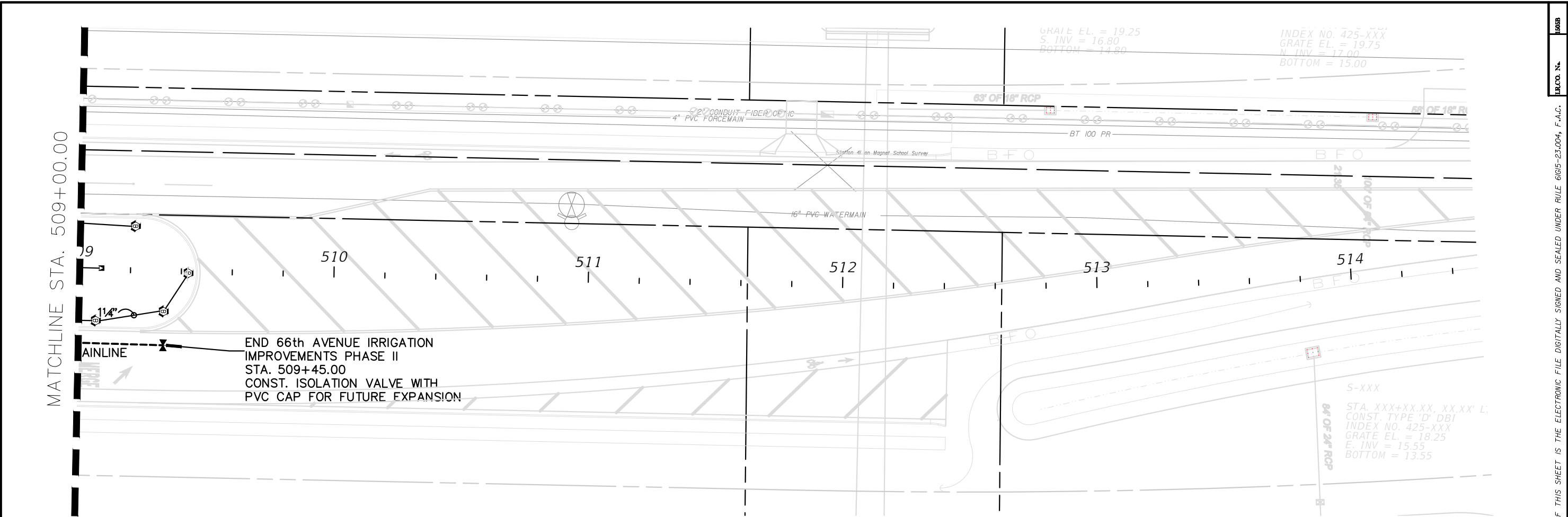
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BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

66th AVENUE
IRRIGATION PLAN

SHEET
NO.

LD-39



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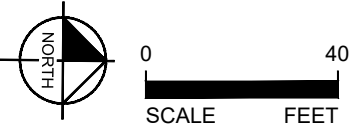
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⊗	RB1806-SAM-PRS-30 W/HUNTER MP2000 adj. arc 90°-210°	0.40-1.10 GPM @ 40 PSI
Ⓡ	RB1806-SAM-PRS-30 W/HUNTER MP2000360	1.47 GPM @ 40 PSI
Ⓡ	RB1806-SAM-PRS-30 W/HUNTER MP3000 adj. arc 90°-210°	0.86-2.12 GPM @ 40 PSI
⊗	RB PEB SERIES RCV with flow control	
WP	SULLIVAN ELECTRIC 5HP	
P.O.C. T	WELL POINT - 4" SHALLOW WELL - 100FT MAX DEPTH	
---	CLASS 200 PANTONE PURPLE PVC LATERAL LINE W/SCH 40 SOLVENT WELD PVC FITTING (SIZE PER PLAN MIN. PIPE SIZE 3/4")	
---	CLASS 200 PANTONE PURPLE PVC GASKETED 'O' RING MAINLINE W/LEEMKO DUCTILE IRON FITTING WITH MECHANICAL JOIN RESTRAINTS (SIZE PER PLAN)	
---	IRRIGATION PIPE SLEEVE - CLASS 200 W/SCH 40 SOLVENT-WELD PVC FITTING	
---	SCH40 GREY PVC CONDUIT W/SCH0 SOLVENT-WELD PVC FITTING	
⊗	NIBCO P-619-RW MAINLINE ISO VALVE	
ACC	HUNTER ACC 18STATION CONTROLLER	
Ⓡ	HUNTER RFC POLE MOUNTED	
FS	DATA INDUSTRIES MODEL #220 BR.	
BF	HUNTER AVB BACKFLOW PREVENTER	

SLEEVE SIZE SCHEDULE

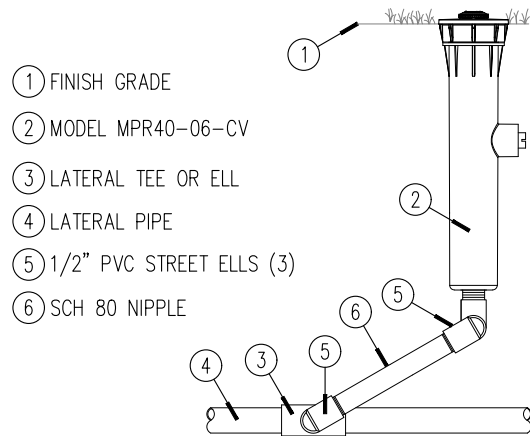
PIPE SIZE (CLASS 200)	SLEEVE SIZE (SCHEDULE 40)
3/4"	1-1/2"
1"	2"
1-1/4"	2-1/2"
1-1/2"	3"
2"	4"
2-1/2"	6"
3, 4"	6"

NOTES

- MAINLINE HAS BEEN SHOWN FOR CLARITY ONLY. MAINLINE SHALL BE LOCATED WITHIN THE ROADWAY MEADIAN.
- PIPE SLEEVES SHALL ALLOW FOR IRRIGATION PIPING AND THEIR RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING PIPE. EXTEND SLEEVES 18 INCHES BEYOND EDGES OF PAVING. REFER TO SLEEVE SIZE SCHEDULE.

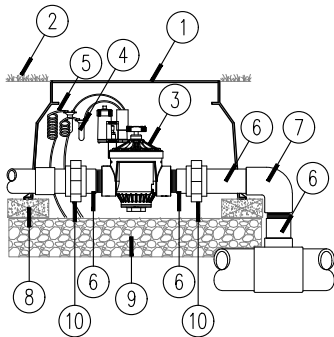


R E V I S I O N S					<div>Kimley»Horn</div> <div>MATTHEW T. FRANKO, P.L.A. No. 6667292 445 24TH STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696</div>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET		66th AVENUE IRRIGATION PLAN		SHEET NO.
DESCRIPTION			DATE	BY		DESCRIPTION				LD-40



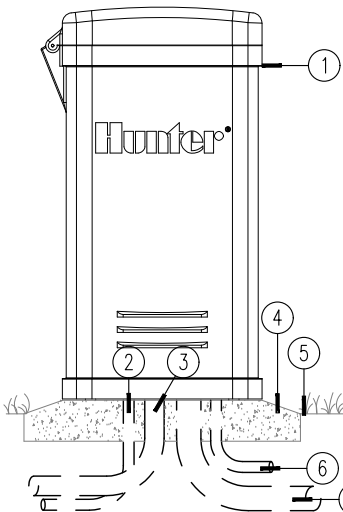
MPR40-06-CV
MP ROTATOR SPRINKLER

N.T.S. IRRIGATION DETAIL



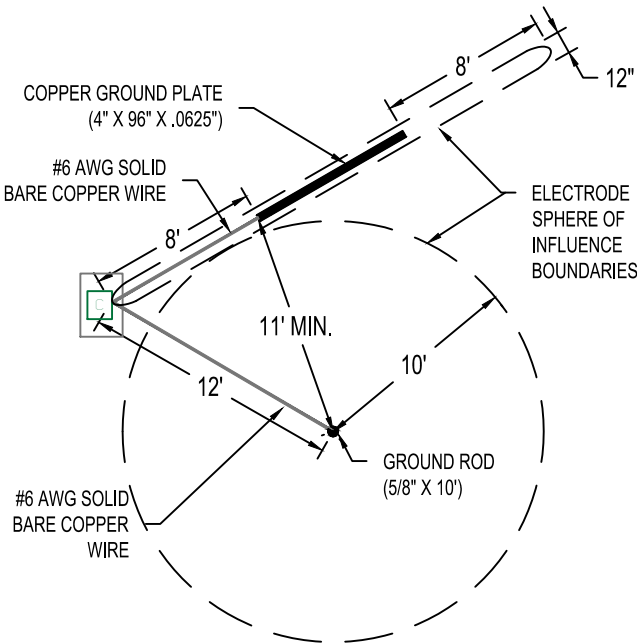
PGV GLOBE VALVE

N.T.S. IRRIGATION DETAIL



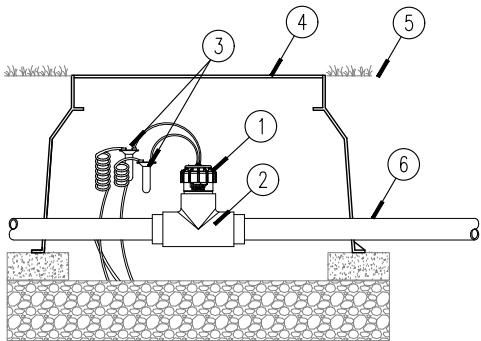
ACC DECODER PL PED

N.T.S. IRRIGATION DETAIL



DO NOT INSTALL ANY OTHER WIRES OR CABLE WITHIN THE SPHERE OF INFLUENCE

TOP VIEW



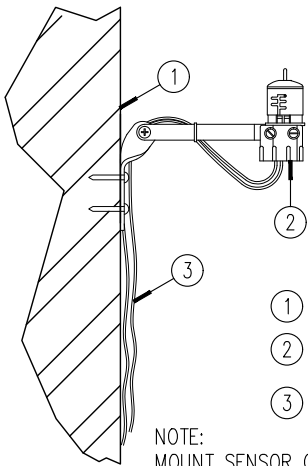
NOTE INLET PIPE LENGTH OF SENSOR MUST BE MIN. 10X PIPE DIA. STRAIGHT, CLEAN RUN OF PIPE, NO FITTINGS OR TURNS. OUTLET PIPE LENGTH OF SENSOR MUST BE MIN. 5X PIPE DIA. OF STRAIGHT CLEAN RUN OF PIPE, NO FITTINGS OR TURNS.

FLOW-CLI-K

N.T.S. IRRIGATION DETAIL

FCT FITTING SELECTION

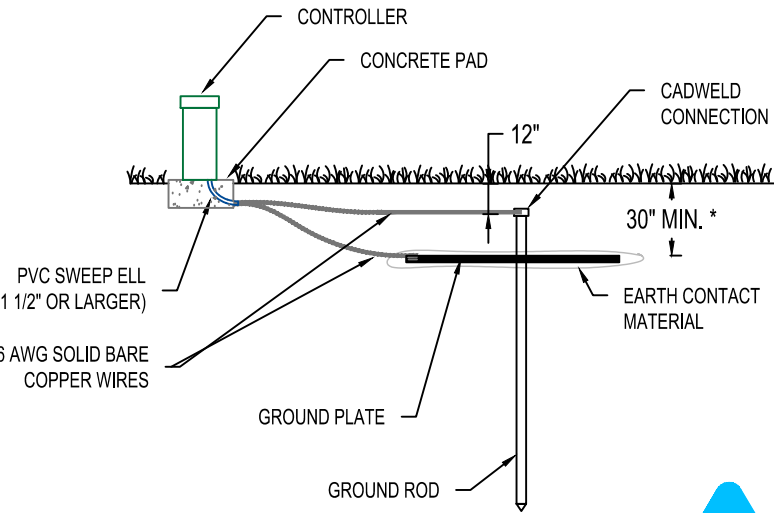
FCT100	1 INCH	SCH. 40
FCT150	1.5 INCH	SCH. 40
FCT158	1.5 INCH	SCH. 80
FCT200	2 INCH	SCH. 40
FCT208	2 INCH	SCH. 80
FCT300	3 INCH	SCH. 40
FCT308	3 INCH	SCH. 80
FCT400	4 INCH	SCH. 40



NOTE: MOUNT SENSOR ON SURFACE WHERE IT WILL BE EXPOSED TO UNOBSTRUCTED RAINFALL, BUT NOT IN PATH OF SPRINKLER SPRAY.

MINI-CLI-K

N.T.S. IRRIGATION DETAIL



* OR BELOW FROSTLINE, WHICHEVER IS DEEPER

SIDE VIEW

FIGURE 2 - UP TO 64 STATIONS, NON-ROCKY SOILS

NO SCALE



REVISIONS				
DESCRIPTION	DATE	BY	DESCRIPTION	

Kimley»Horn

MATTHEW T. FRANKO, P.L.A. No. 6667292
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CA Number: LC-C000219

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

66th AVENUE
IRRIGATION DETAILS

SHEET NO.
LD-41

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS

ROADWAY CONTRACT PLANS

66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

INDIAN RIVER COUNTY PROJECT No. IRC-1505B
FDOT FPID No. 436379-2-54-01

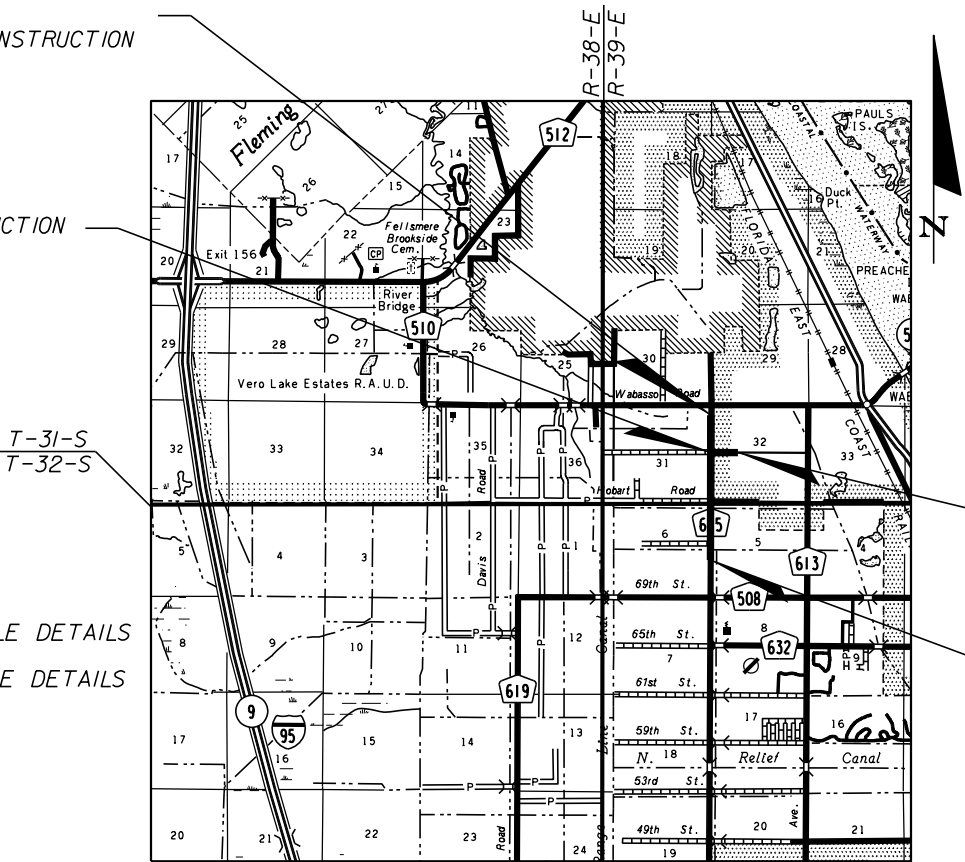
INDEX OF ROADWAY PLANS

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8	81ST STREET DRAINAGE MAP
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11	OMITTED
12	81ST STREET TYPICAL SECTION
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123-132	81ST STREET CROSS SECTIONS
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147	EROSION CONTROL POND 66F
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165-167	INDIAN RIVER COUNTY UTILITY DETAILS

END PROJECT
END 66TH AVE CONSTRUCTION
STA. 517+23.06

BEGIN 81ST ST. CONSTRUCTION
STA. 198+68.57

T-31-S
T-32-S



END 81ST ST. CONSTRUCTION
STA. 218+29.00

BEGIN PROJECT
BEGIN 66TH AVE CONSTRUCTION
STA. 434+85.64

PREPARED FOR



Department of Public Works

RICHARD B. SZPYRKA, P.E., DIRECTOR

ROAD/BRIDGE	MILES	FEET
66TH AVENUE	1.560	8,237.42
81ST STREET	0.371	1,960.43

ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:

BRIAN GOOD, P.E.
KIMLEY-HORN AND ASSOCIATES, INC.
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100

PLANS PREPARED BY:

Kimley»Horn

445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
PROJECT NUMBER: 047035041
REGISTRY No. 35106

ROADWAY PLANS
ENGINEER OF RECORD: BRIAN GOOD
P.E. NO. 56939

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

BID PLANS
JANUARY 2023

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE
WITH AND ARE GOVERNED BY THE STATE OF FLORIDA,
DEPARTMENT OF TRANSPORTATION, DESIGN STANDARDS.
(BOOKLET DATED JANUARY, 2016)

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
STANDARD PLANS FISCAL YEAR 2016,
AND STANDARD SPECIFICATIONS FOR ROAD
AND BRIDGE CONSTRUCTION DATED 2016,
AS AMENDED BY CONTRACT DOCUMENTS.

SHEET
NO.

1

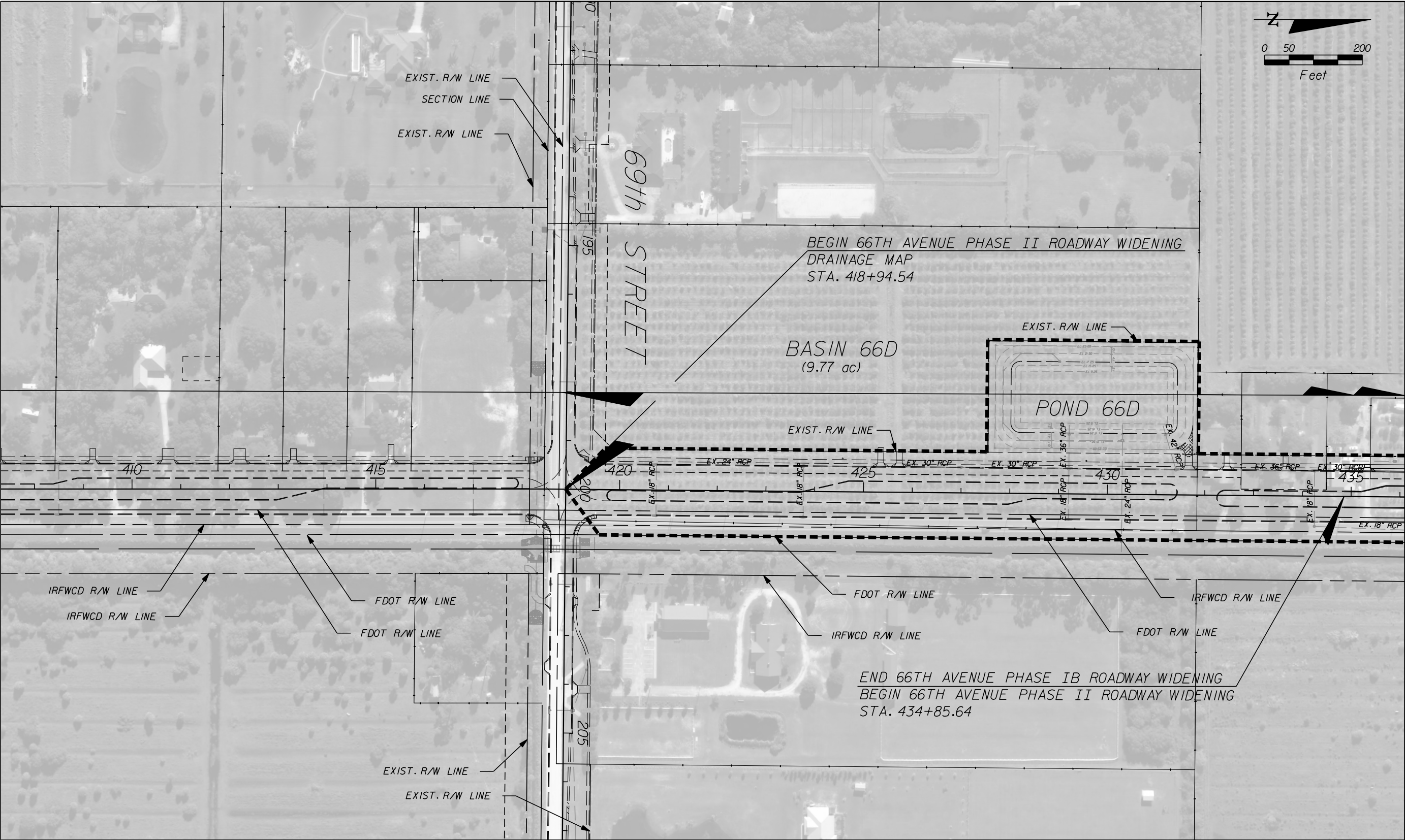
SUMMARY OF PAY ITEMS

PAY ITEM NO.	DESCRIPTION	UNIT	PROJECT QUANTITY
ROADWAY PAY ITEMS			
101-1	MOBILIZATION/ DEMOBILIZATION	LS	1
102-1	MAINTENANCE OF TRAFFIC	LS	1
102-14	TRAFFIC CONTROL OFFICER (OFF DUTY LAW ENFORCEMENT)	PH	500
104-2	PREVENTION, CONTROL & ABATEMENT OF EROSION AND WATER POLLUTION	LS	1
110-1-1	CLEARING & GRUBBING	LS	1
110-5	PLUGGING WATER WELL - ARTESIAN	EA	6
110-7-1	MAILBOX F & I	EA	27
120-1	REGULAR EXCAVATION	CY	319,316
120-4	SUBSOIL EXCAVATION	CY	1,027
120-5	CHANNEL EXCAVATION	CY	1,915
120-6	EMBANKMENT	CY	56,275
160-4	TYPE "B" STABILIZATION	SY	82,123
285-709	OPTIONAL BASE GROUP 9	SY	71,787
286-1	TURNOUT CONSTRUCTION	SY	920
334-1-13	SUPERPAVE ASPHALT CONCRETE (SP-12.5) (TRAFFIC C) (2.0")	TN	8,242
337-7-82	ASPHALTIC CONCRETE FRICTION COURSE (FC-9.5) (TRAFFIC C) (1.0")	TN	4,121
400-1-2	CLASS I CONCRETE (ENDWALL)	CY	14.97
400-2-2	CLASS II CONCRETE (ENDWALL)	CY	11.30
415-1-1	REINFORCING STEEL (ROADWAY)	LB	965
425-1-351	INLETS (CURB) (TYPE P-5) (<10')	EA	8
425-1-355	INLETS (CURB) (TYPE P-5) (PARTIAL)	EA	1
425-1-361	INLETS (CURB) (TYPE P-6) (<10')	EA	17
425-1-451	INLETS (CURB) (TYPE J-5) (<10')	EA	3
425-1-451	INLETS (CURB) (TYPE J-5) (<10') (CONTROL STRUCTURE)	EA	1
425-1-452	INLETS (CURB) (TYPE J-5) (>10')	EA	3
425-1-461	INLETS (CURB) (TYPE J-6) (<10')	EA	7
425-1-462	INLETS (CURB) (TYPE J-6) (>10')	EA	2
425-1-521	INLETS (DT BOT) (TYPE C) (<10')	EA	10
425-1-541	INLETS (DT BOT) (TYPE D) (<10')	EA	1
425-1-559	INLETS (DT BOT) (TYPE E) (>10') (CONTROL STRUCTURE)	EA	1
425-1-582	INLETS (DT BOT) (TYPE H, 4-GRATE) (>10') (CONTROL STRUCTURE)	EA	1
425-2-41	MANHOLES (P-7) (<10')	EA	6
425-2-63	MANHOLE (P-8) (PARTIAL) (TOP ONLY)	EA	3
425-2-71	MANHOLES (J-7) (<10')	EA	9
430-175-118	PIPE CULVERT (RCP) (ROUND) (18" SS)	LF	2,346
430-175-118B	PIPE CULVERT (P.P.) (ROUND) (18" SS)	LF	230
430-175-124	PIPE CULVERT (RCP) (ROUND) (24" SS)	LF	1,412
430-175-124B	PIPE CULVERT (P.P.) (ROUND) (24" SS)	LF	467
430-175-130	PIPE CULVERT (RCP) (ROUND) (30" SS)	LF	1,244
430-175-130B	PIPE CULVERT (P.P.) (ROUND) (30" SS)	LF	118
430-175-136	PIPE CULVERT (RCP) (ROUND) (36" SS)	LF	1,818

PAY ITEM NO.	DESCRIPTION	UNIT	PROJECT QUANTITY
ROADWAY PAY ITEMS			
430-175-142	PIPE CULVERT (RCP) (ROUND) (42" SS)	LF	394
430-175-142B	PIPE CULVERT (P.P.) (ROUND) (42" SS)	LF	136
430-175-148	PIPE CULVERT (RCP) (ROUND) (48" SS)	LF	314
430-175-148B	PIPE CULVERT (P.P.) (ROUND) (48" SS)	LF	104
430-175-154	PIPE CULVERT (RCP) (ROUND) (54" SS)	LF	27
430-175-160A	PIPE CULVERT (C.A.P.) (ROUND) (60" SS)	LF	160
430-175-166	PIPE CULVERT (RCP) (ROUND) (66" SS)	LF	123
430-175-172	PIPE CULVERT (RCP) (ROUND) (72" SS)	LF	522
430-175-184	PIPE CULVERT (RCP) (ROUND) (84" SS)	LF	40
430-175-215	PIPE CULVERT (ERCP) (12" X 18" SS)	LF	147
430-175-236	PIPE CULVERT (ERCP) (29" X 45" SS)	LF	192
430-175-260	PIPE CULVERT (ERCP) (48" X 76" SS)	LF	145
430-964-8	PIPE CULVERT (SCH. 80 PVC) (8")	LF	1,341
430-982-125	MITERED END SECTION (CONC.) (18" CD) (4:1)	EA	1
430-982-129	MITERED END SECTION (CONC.) (24" CD) (4:1)	EA	2
430-982-143	MITERED END SECTION (CONC.) (60" CD) (4:1)	EA	1
440-1-20	UNDERDRAIN (TYPE II)	LF	1,917
520-1-10	CONCRETE CURB & GUTTER (TYPE F)	LF	16,420
520-1-11	CONCRETE CURB & GUTTER (TYPE F) (MOD.)	LF	13,918
522-2	CONCRETE SIDEWALK & DRIVEWAY , 6" THICK	SY	10,072
527-2	DETECTABLE WARNINGS	SF	190
530-3-4	RIPRAP, RUBBLE (F&I) (DITCH LINING)	TN	760
550-10-222	FENCING (TYPE B) (6.0') (WITH VINYL COATING)	LF	3,519
550-60-225	FENCE GATE (TYPE B) (DOUBLE) (24.0' OPENING)	EA	3
570-1-2A	PERFORMANCE TURF (SOD) (BAHIA)	SY	203,104
630-2-11A	CONDUIT (OPEN TRENCH) (F&I) (2")	LF	7,735
633-1-124	FIBER OPTIC CABLE (F&I) (UNDERGROUND) (144 STRAND)	LF	8,635
633-2-31	FIBER OPTIC CONNECTION (INSTALL) (SPLICE)	EA	108
633-2-32	FIBER OPTIC CONNECTION (INSTALL) (TERMINATION)	EA	192
633-3-11	SPLICE ENCLOSURE (F&I) (SPLICE ENCLOSURE)	EA	3
635-2-12	PULL AND SPLICE BOX (F&I) (17"X30") (PULL BOX)	EA	9
635-2-13	PULL AND SPLICE BOX (F&I) (30"X48") (SLACK BOX)	EA	9
999-1	RECORD DRAWINGS	LS	1
UTILITY PAY ITEMS			
999-1B	RECORD/ AS-BUILT DRAWINGS (IRC UTILITY)	LS	1
1050-31-204	UTILITY PIPE - PVC (4" FM) (F & I)	LF	591
1050-31-206	UTILITY PIPE - PVC (6" WM) (F & I)	LF	209
1050-31-212	UTILITY PIPE - PVC (12" WM) (F & I)	LF	147
1050-31-216	UTILITY PIPE - PVC (16" WM) (F & I)	LF	200
1055-51-116	UTILITY FITTING - 16" 45 DEGREE DI BEND (FM)	EA	16
1055-51-512	UTILITY FITTING - 12" BLIND FLANGE (WM)	EA	2
1080-11-403	UTILITY FIXTURE - 12"x16" TAPPING SADDLE & SLEEVE (WM)	EA	2
1080-24-106	UTILITY FIXTURE - 6" GATE VALVE (WM)	EA	3
1080-24-112	UTILITY FIXTURE - 12" GATE VALVE (WM)	EA	2
1080-11-415	UTILITY FIXTURE - 2" TEMPORARY JUMPER VALVE ASSEMBLY	EA	4
1080-27116	UTILITY FIXTURE - 16" LINE STOP (WM)	EA	8
1080-26-102	UTILITY FIXTURE - AIR RELEASE VALVE	EA	2
1644-113-08	FIRE HYDRANT ASSEMBLY (F&I)	EA	3
1644-700	FIRE HYDRANT ASSEMBLY (ADJUST & MODIFY)	EA	1

REVISIONS					<div><div>Kimley»Horn</div><div>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106</div></div>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS		SUMMARY OF PAY ITEMS	SHEET NO.
		DESCRIPTION	DATE	BY			66th AVENUE FROM 69th STREET TO SR-510/85th STREET		2

PAY ITEM FOOTNOTES							1505B	
							IR.CO. Proj. No.	
102-1	COST OF MAINTENANCE OF TRAFFIC SHALL INCLUDE BUT NOT BE LIMITED TO TEMP. BARRIER WALL, CONSTRUCTION SIGNS, TEMPORARY REFLECTIVE PAVEMENT MARKERS, TEMPORARY PAVEMENT MARKINGS, INCIDENTAL TEMPORARY PAVEMENT, DUST CONTROL AND ALL ITEMS NECESSARY TO MEET THE MAINTENANCE OF AS PRESCRIBED IN SECTION 600 OF THE FDOT STANDARD INDEXES.						THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.	
104-2	COST TO INCLUDE, BUT NOT LIMITED TO, ALL MATERIAL, LABOR, MAINTENANCE AND REMOVAL NECESSARY TO PREVENT SEDIMENT TRANSPORT BEYOND THE PROJECT LIMITS INCLUDING SILT FENCE, INLET PROTECTION, STAKED TURBIDITY BARRIERS AND FLOATING TURBIDITY BARRIERS.							
110-1-1	COST OF CLEARING & GRUBBING TO INCLUDE THE COST OF REMOVAL OF EXISTING IRRIGATION PUMP STATIONS & MOTOR BOXES, FENCING, SIDEWALKS, CURBING, ABANDONED UTILITIES, (INCLUDING CABLES, METER VAULTS & OTHER STRUCTURES), EXISTING WALKS, RIP RAP, VARIOUS TYPES OF FENCES, BASE MATERIAL, VEGETATION, ROOTS DRAINAGE STRUCTURES, PIPE, ANY REQUIRES SAW CUTTING, BACKFILLING THE REMOVED EXCAVATIONS, PLUS ALL OTHER ITEMS NECESSARY TO BE REMOVED TO CONSTRUCT PROJECT. PRIOR TO REMOVAL OF ANY CITRUS TREES, THE CONTRACTOR IS TO COORDINATE WITH COUNTY REPRESENTATIVE TO QUANTIFY TREE IMPACTS. COST TO ALSO INCLUDE THE DEMOLITION AND DISPOSAL OF EXISTING BUILDINGS/STRUCTURES IN CONFLICT WITH THE PROPOSED IMPROVEMENTS AT 8160 66TH AVENUE AND 8300 67TH COURTH.							
110-7-1	MAILBOXES TO BE REPLACED IN LIKE KIND. COST TO INCLUDE ALL PHASING RELOCATIONS.							
120-1	ALL GRADING INCLUDING FINAL GRADING TO BE INCLUDED IN THE COST OF EXCAVATION & EMBANKMENT. COST OF ANY ROCK REMOVAL TO BE INCLUDED IN THIS ITEM.							
120-4	SUBSOIL EXCAVATION IS REQUIRED IN SUBLATERAL CANALS & DITCHES LOCATED UNDER PROPOSED ROADWAY AND DRAINAGE CULVERT IMPROVEMENTS WHEN UNSUITABLE MATERIALS ARE ENCOUNTERED IN PIPE TRENCHING. THE CONTRACTOR SHALL REMOVE THE UNSUITABLE MATERIAL 2.0 FEET BELOW TRENCH BOTTOM, COST OF REPLACEMENT EMBANKMENT TO BE INCLUDED IN PAY ITEM 120-4. CONTRACTOR TO COORDINATE WITH COUNTY REPRESENTATIVE PRIOR TO EXCAVATING.							
285-709	THE COST OF THE PRIME COAT SHALL BE INCLUDED IN THE PRICE OF THE BASE.							
286-1	THE COST OF ASPHALTIC TURNOUT CONSTRUCTION SHALL INCLUDE 2" TYPE S ASPHALTIC CONCRETE, 5" BASE MATERIAL, EARTHWORK, GRADING, & ALL INCIDENTAL WORK NECESSARY FOR CONSTRUCTION.							
334-1-13 337-7-82	THE TACK COAT SHALL BE INCLUDED IN THE COST OF ASPHALTIC CONCRETE.							
440-1-20	THE COST TO INCLUDE, BUT NOT LIMITED TO, PERFORATED AND NON-PERFORATED HDPE CULVERT, AGGREGATE, FILTER FABRIC, FITTINGS CLEANOUT FRAME & COVER AND CONCRETE.							
520-1-10	THE CONCRETE USED SHALL HAVE A MINIMUM 28-DAY STRENGHT OF 3,000 PSI.							
520-1-11	COST OF MAITENANCE ACCESS MEDIAN DROP CURB IS TO BE PAID FOR AS PARENT CURB. THE CONCRETE USED SHALL HAVE A MINIMUM 28-DAY STRENGHT OF 3,000 PSI.							
522-2	PEDESTRIAN RAMPS TO BE INCLUDED IN PRICE OF SIDEWALK. ALL SIDEWALK JOINTS ARE TO BE SAWCUT AS PER FDOT SPECIFICATION. TOOLED JOINTS WILL NOT BE PERMITTED. THE COST OF CONCRETE TURNOUT CONSTRUCTION SHALL INCLUDE 6" CONCRETE, EARTHWORK, GRADING, AND ALL INCIDENTAL WORK NECESSARY FOR CONSTRUCTION. THE CONCRETE USED SHALL HAVE A MINIMUM 28-DAY STRENGHT OF 3,000 PSI AND SHALL BE FIBER REINFORCED.							
527-2	DETECTABLE WARNING SURFACES SHALL CONSIST OF CAST-IN-PLACE COMPOSITE TACTILE UNITS MANUFACTURED BY ADA SOULUTIONS, INC. (1-800-372-0519) OR APPROVED EQUIVALENT. DETECTABLE WARNING SURFACES SHALL EXTEND TWO FEET FROM BACK OF CURB AND SPAN THE ENTIRE RAMP RUN WIDTH. DETECTABLE WARNING SURFACE COLOR SHALL BE "FEDERAL YELLOW".							
530-3-4	COST OF RUBBLE TO INCLUDE COST AND PLACEMENT OF MARAFI FABRIC, BEDDING STONE AND KEYSTONE AGGREGATE.							
550-10-222 550-60-225	FENCING AND ITS APPURTENANCES TO HAVE A BLACK VINYL COATING.							
570-1-2A	THE COST OF SODDING SHALL INCLUDE SOD, FERTILIZER, MOWING, WATER, TOOLS, EQUIPMENT, LABOR, AND ALL INCIDENTAL ITEMS NECESSARY. BAHIA SOD SHALL BE PLACED ON ALL DISTURBED, NON-IRRIGATED AREAS AND SHALL NOT CONFLICT WITH PROPOSED LANDSCAPING DEPICTED WITHIN THE 66TH AVENUE LANDSCAPE COMPONENT PLAN SET. REFER TO LANDSCAPE PLANS FOR LIMITS OF PROPOSED LANDSCAPING IMPROVEMENTS AND IRRIGATED AREAS.							
REVISIONS							Kimley»Horn <small>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106</small>	
		DESCRIPTION	DATE	BY	DESCRIPTION			
							INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS	SUMMARY OF PAY ITEMS
							66th AVENUE FROM 69th STREET TO SR-510/85th STREET	
								SHEET NO.
								3



MATCHLINE C-C

REVISIONS					Kimley»Horn	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS	66th AVENUE DRAINAGE MAP	SHEET NO.
DESCRIPTION	DATE	BY	DESCRIPTION					
					BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106	66th AVENUE FROM 69th STREET TO SR-510/85th STREET		4

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

IR.CO. Proj. No.

1505B

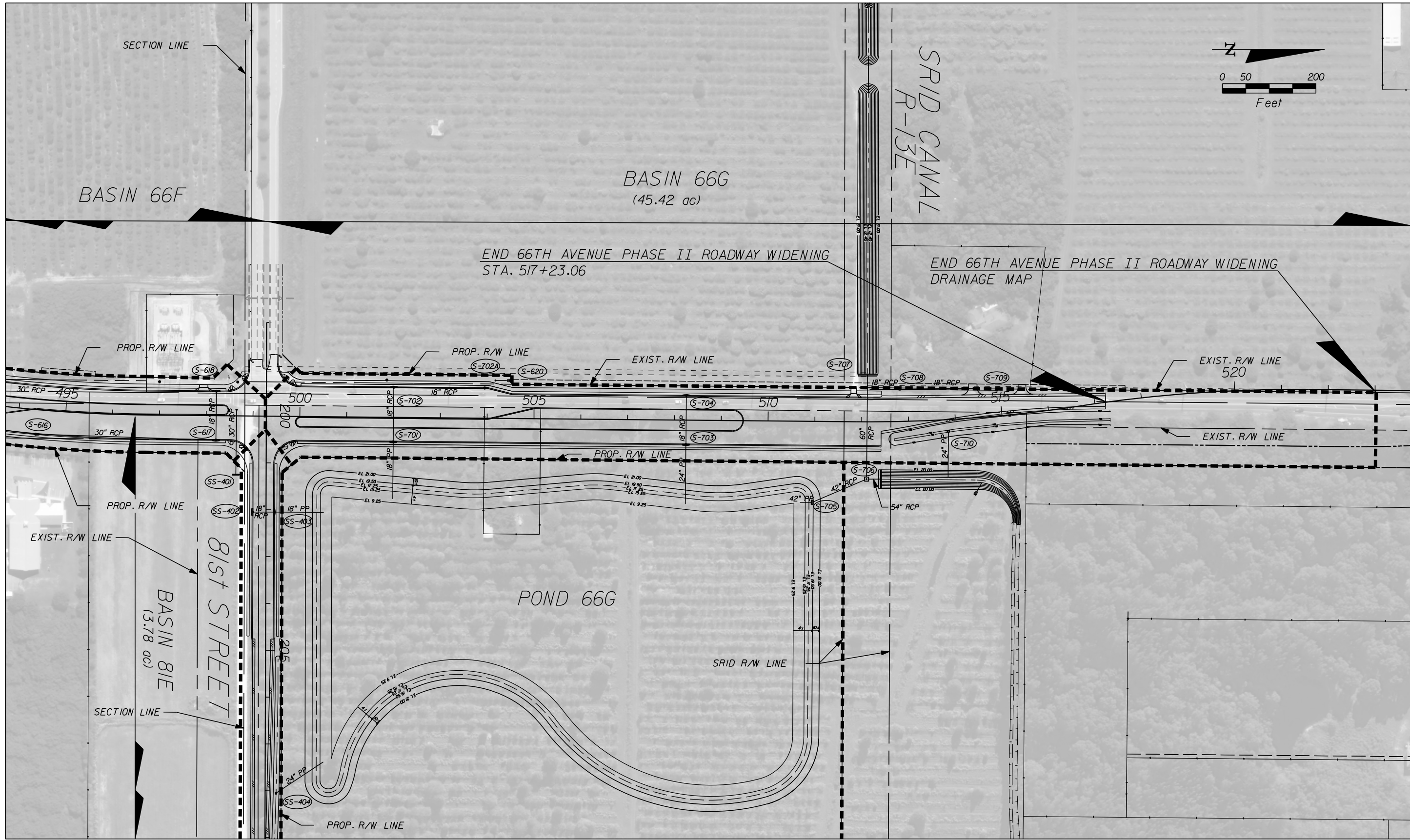


REVISIONS					Kimley»Horn	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	66th AVENUE DRAINAGE MAP		SHEET NO. 6
DESCRIPTION	DATE	BY	DESCRIPTION						
					BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106				

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

1505B

IR.CO. Proj. No.



MATCHLINE 66G-66G
(SEE 81st STREET DRAINAGE MAP)

R E V I S I O N S					Kimley»Horn <small>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106</small>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	66th AVENUE DRAINAGE MAP	SHEET NO.
		DESCRIPTION	DATE	BY				DESCRIPTION

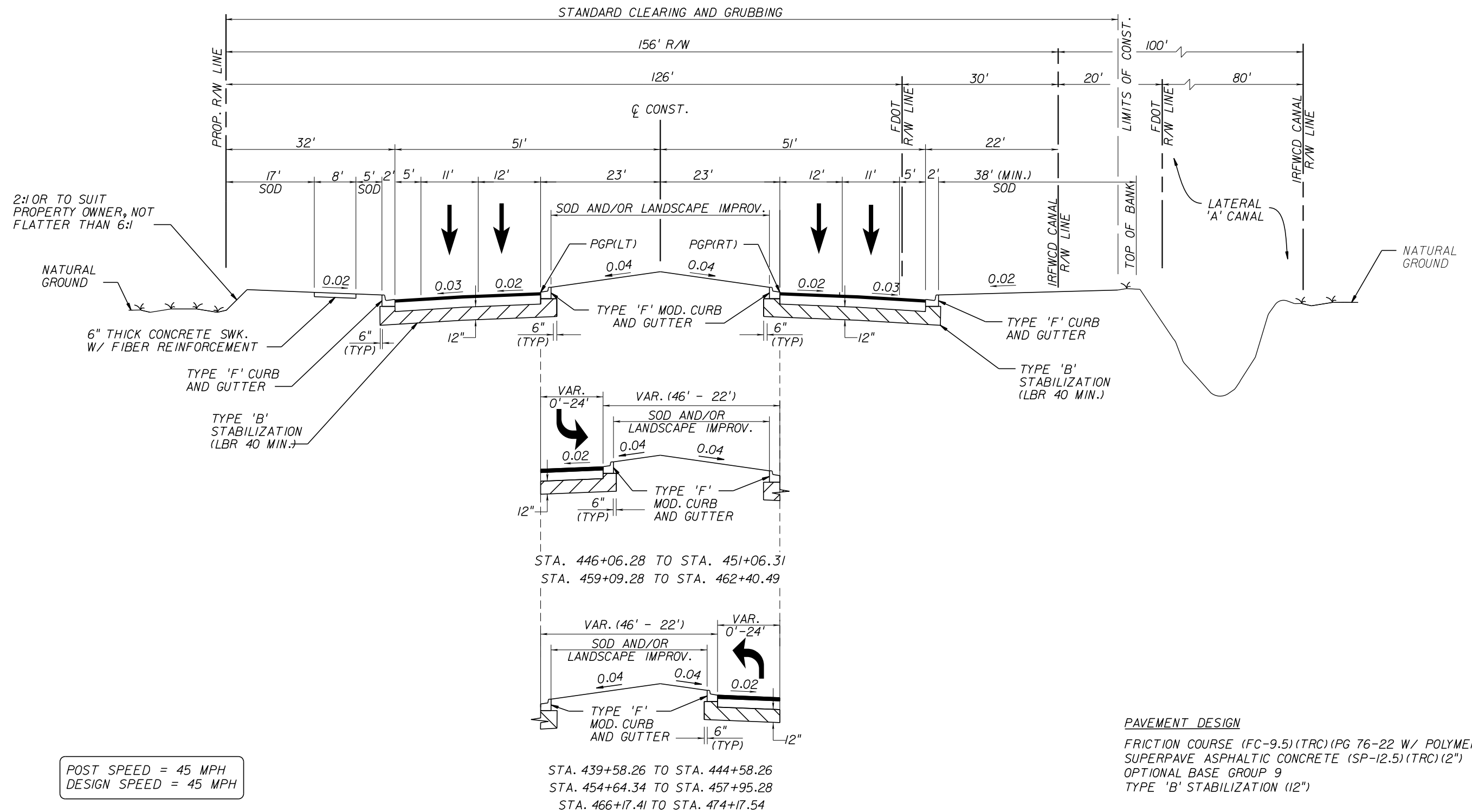
1505B
IRCO Proj. No.
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

MATCHLINE 66G-66G
(SEE 66th AVENUE DRAINAGE MAP)



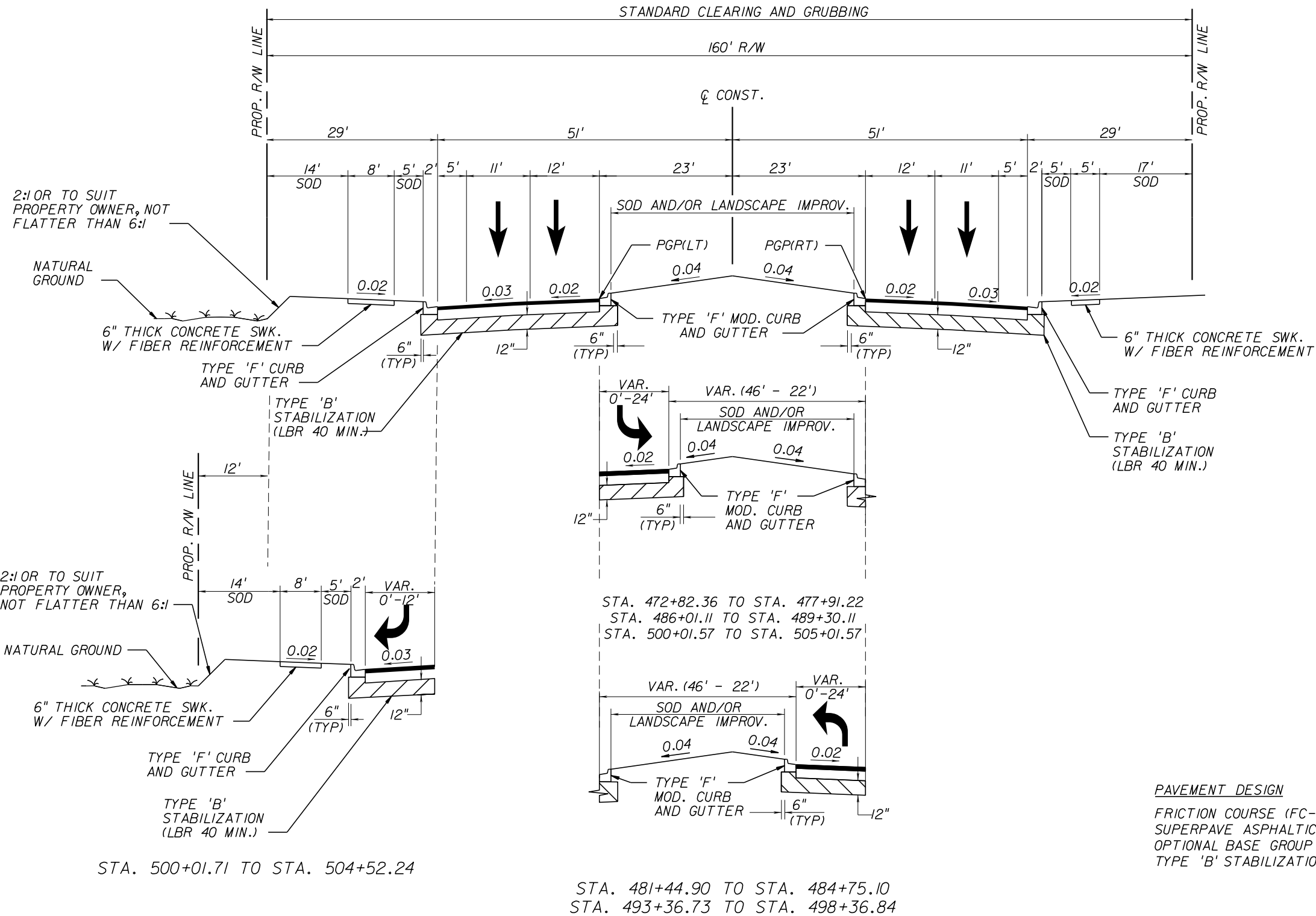
REVISIONS					<div><div><div>Kimley»Horn</div><div><div>BRIAN A. GOOD, P.E.</div><div>P.E. LICENSE NUMBER 56939</div><div>445 24th STREET, SUITE 200</div><div>VERO BEACH, FL 32960</div><div>(772) 794-4100</div><div>REGISTRY No. 35106</div></div></div></div>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS		81st STREET DRAINAGE MAP	SHEET NO.
DESCRIPTION	DATE	BY	DESCRIPTION	66th AVENUE FROM 69th STREET TO SR-510/85th STREET		8			

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C. 1505B



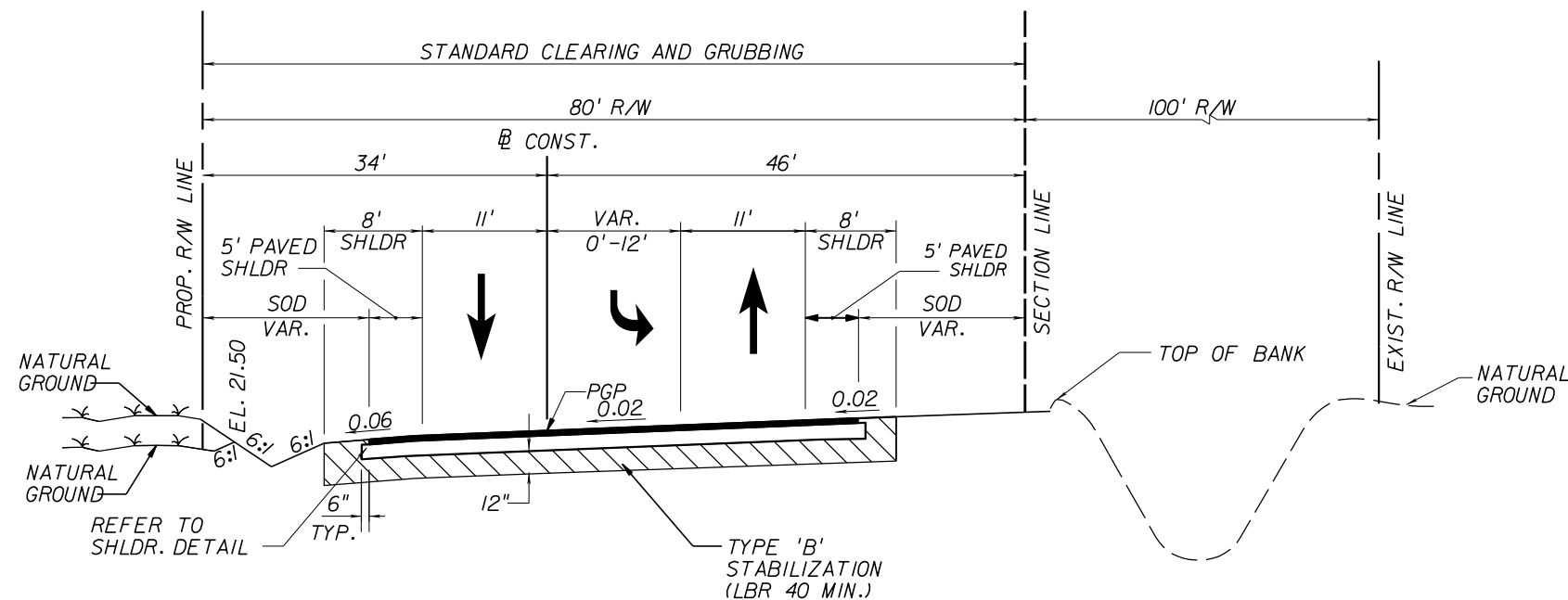
STA. 434+85.64 TO STA. 472+00.00

REVISIONS					Kimley»Horn <small>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106</small>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	66th AVENUE TYPICAL SECTION	SHEET NO.
DESCRIPTION	DATE	BY	DESCRIPTION					9



POST SPEED = 45 MPH
DESIGN SPEED = 45 MPH

REVISIONS					Kimley»Horn	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS	66th AVENUE TYPICAL SECTION	SHEET NO.
DESCRIPTION	DATE	BY	DESCRIPTION					
					BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106	66th AVENUE FROM 69th STREET TO SR-510/85th STREET		10

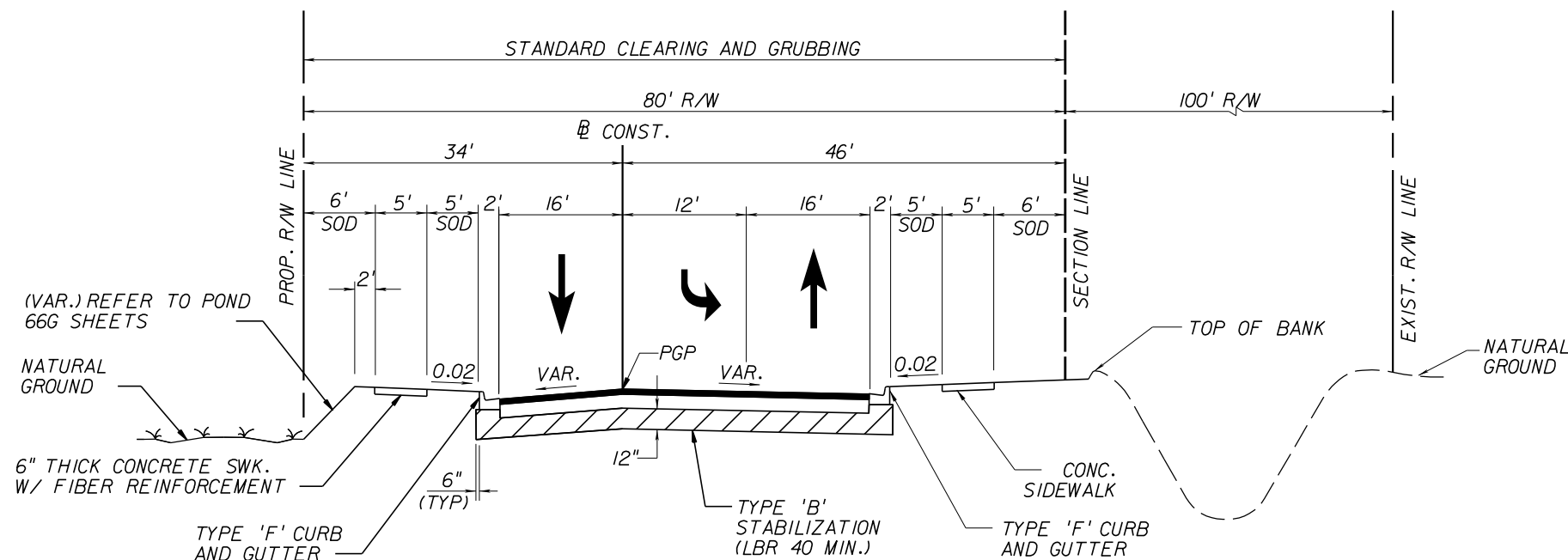


POST SPEED = 30 MPH
DESIGN SPEED = 35 MPH

STA. 204+76.18 TO STA. 210+26.18

PAVEMENT DESIGN

FRICTION COURSE (FC-9.5) (TRC) (PG 76-22 W/ POLYMER) (1")
SUPERPAVE ASPHALTIC CONCRETE (SP-12.5) (TRC) (2")
OPTIONAL BASE GROUP 9
TYPE 'B' STABILIZATION (12")

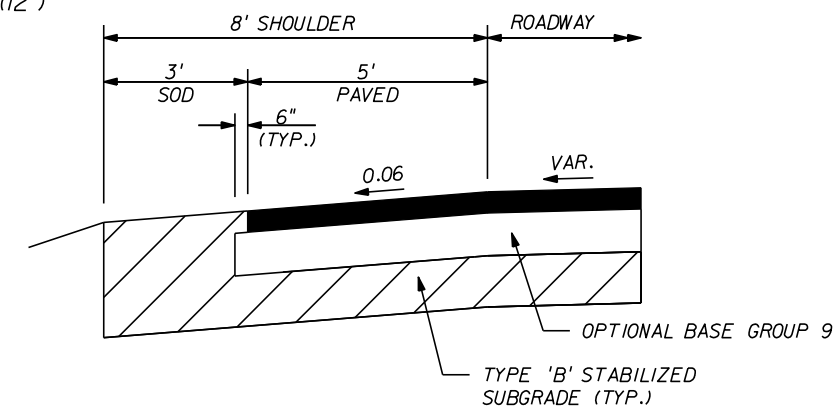


POST SPEED = 30 MPH
DESIGN SPEED = 35 MPH

STA. 201+00.00 TO STA. 204+76.18

PAVEMENT DESIGN

FRICTION COURSE (FC-9.5) (TRC) (PG 76-22 W/ POLYMER) (1")
SUPERPAVE ASPHALTIC CONCRETE (SP-12.5) (TRC) (2")
OPTIONAL BASE GROUP 9
TYPE 'B' STABILIZATION (12")



SHOULDER PAVEMENT DETAIL
N.T.S.

REVISIONS					Kimley»Horn	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS	81st STREET TYPICAL SECTION	SHEET NO.
DESCRIPTION	DATE	BY	DESCRIPTION					
					BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106	66th AVENUE FROM 69th STREET TO SR-510/85th STREET		12

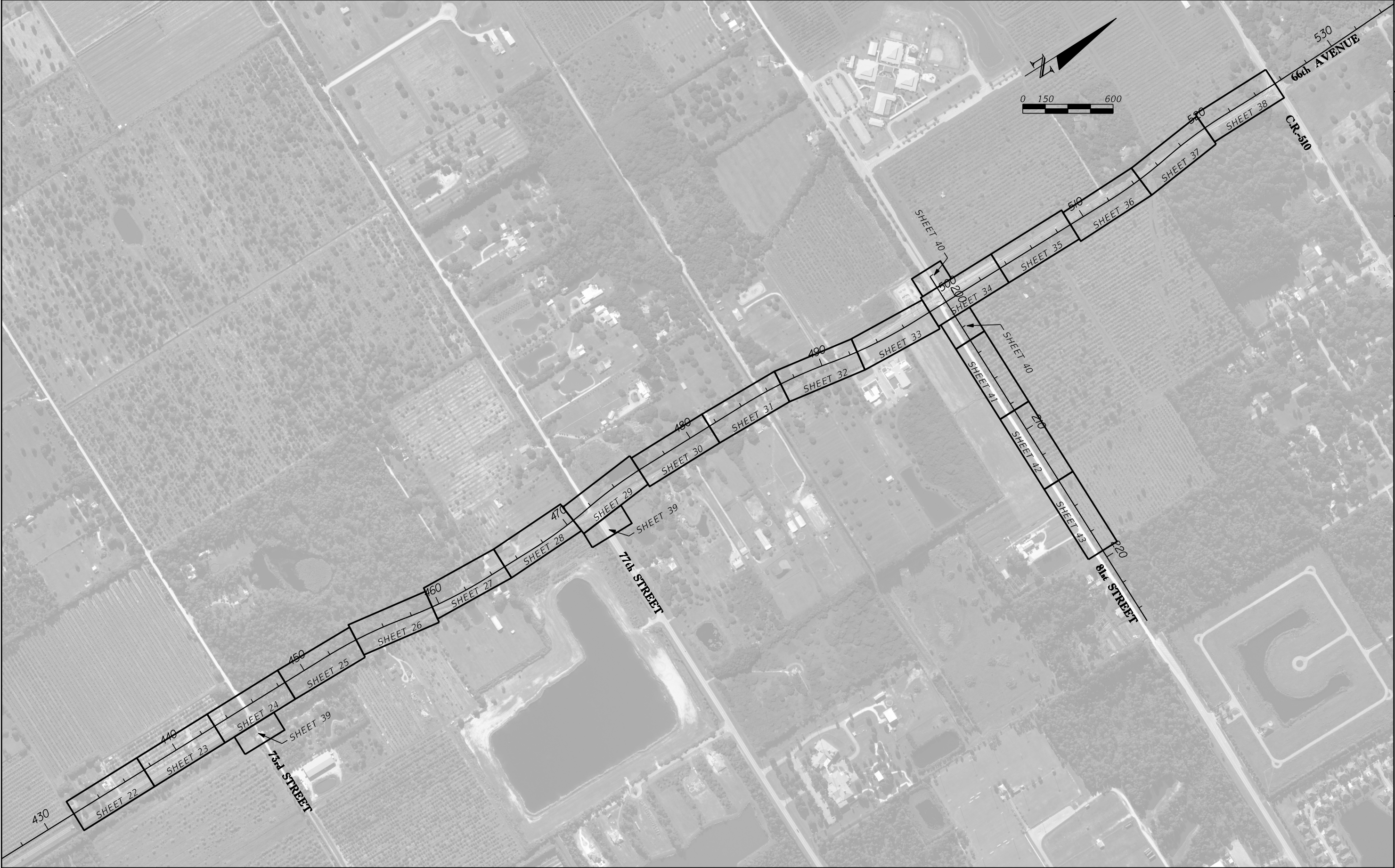
SUMMARY OF FENCE							
66th Ave		SIDE	TYPE 'B'		GATE	COMMENT	FIELD BOOK REFERENCE
STATION			6' HEIGHT				
FROM	TO		PLAN	FINAL	24' WIDE		
POND 66E							
451+89.00	458+51.53	LT	1724		2	BLACK VINYL	
					-		
POND 66F							
472+52.88	478+75.27	LT	1795		1	BLACK VINYL	
TOTAL:			3519		3		

SUMMARY OF DITCH PAVEMENT							
LOCATION	SIDE	RIPRAP (DITCH LINING)		BEDDING STONE		COMMENT	FIELD BOOK REFERENCE
STA. TO STA./STRUCTURE		TN		TN			
		PLAN	FINAL	PLAN	FINAL		
66TH STREET							
444+67.84	RT	103					
445+07.29	LT	78					
445+08.26	RT	78					
445+71.84	RT	103					
454+18.77	RT	199					
471+38.17	RT	85					
471+77.48	LT	85					
485+38.34	LT	29				S - 607H	
TOTAL		760					

SUMMARY OF EARTHWORK									
STREET NAME / DESCRIPTION FROM STATION TO STATION		SUBSOIL EXCAVATION		REGULAR EXCAVATION		EMBANKMENT		CHANNEL EXCAVATION	
		VOL (CY)	VOL (CY)	VOL (CY)	VOL (CY)	VOL (CY)	VOL (CY)	VOL (CY)	VOL (CY)
PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
66TH AVE		877		18,839		46,116		--	
73RD ST		100		--		475		--	
77TH ST		50		156		312		--	
81ST ST		--		651		4,056		--	
POND 66E		--		38,627		815		--	
POND 66F		--		39,317		3,539		--	
POND 66G		--		213,185		962		--	
POND 66G PERIMETER SWALE		--		641		--		--	
SRID CANAL 13E		--		7,900		--		--	
IRFWCD LATERAL A CANAL		--		--		--		1,915	
TOTAL		1,027		319,316		56,275		1,915	

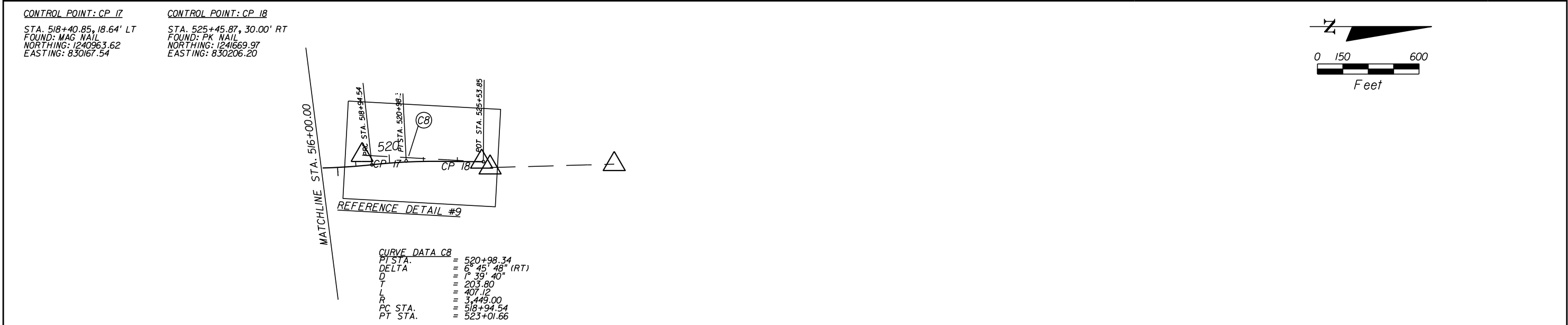
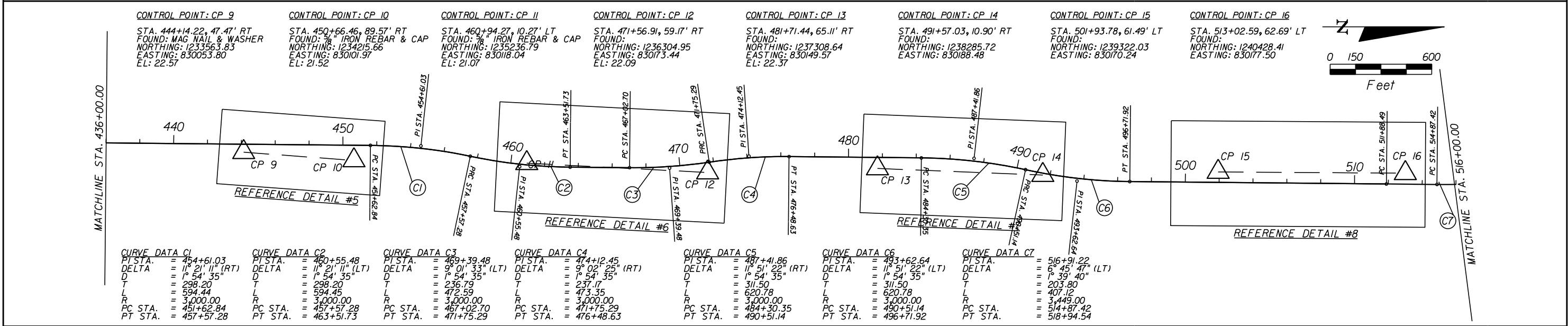
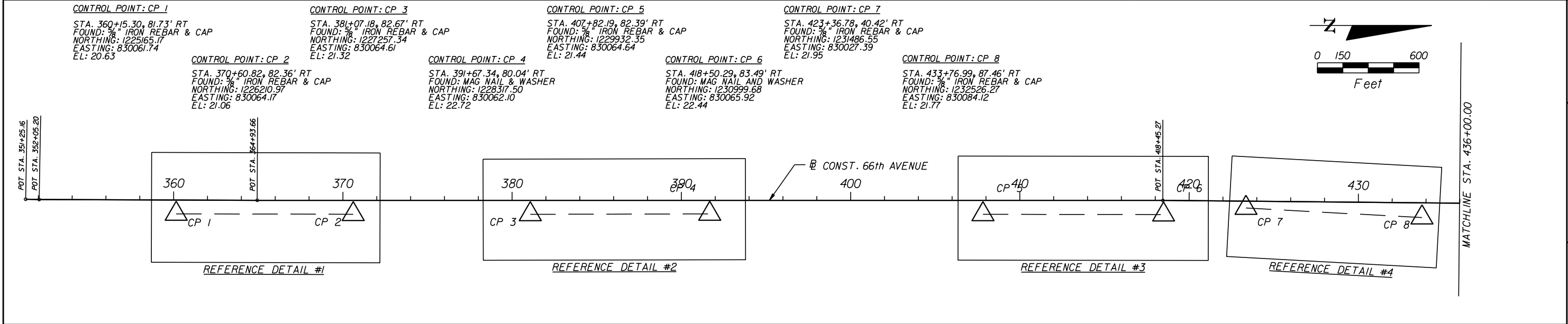
SUMMARY OF TURNOUTS								
STATION	SIDE	WIDTH (FT)	LENGTH (FT)	CONCRETE AREA (SY)		ASPHALT AREA (SY)		FIELD BOOK REFERENCE
				CONCRETE SIDEWALK (6" THICK)		TYPE SP-12.5 STR. COURSE (TRAF.C) (2") CEMENTED COQUINA LBR100 (5")		
				PLAN	FINAL	PLAN	FINAL	
66TH AVE								
435+32.69	LT	12	17	25.1		22.7		
441+31.40	LT	12	25	25.1		33.3		
455+52.65	RT	15	65	27.6		107.2		
458+13.49	LT	12	17	25.0		22.5		
462+05.68	LT	15	10	29.3		16.7		
462+61.09	RT	15	10	28.0		16.6		
464+26.00	LT	14	17	28.0		26.4		
466+43.24	LT	24	10	42.4		26.7		
477+28.13	RT	12	45	33.1		60.0		
478+61.55	RT	12	45	33.1		59.7		
479+20.95	RT	12	42.2	33.1		55.9		
481+81.26	LT	12	-	25.1		-		
482+57.93	RT	12	40	33.1		53.3		
483+36.35	RT	12	40	33.1		53.3		
484+79.41	LT	12	-	25.2		-		
485+17.32	RT	15	47	36.5		78.3		
485+64.11	LT	12	-	25.2		-		
488+67.44	RT	12	16	33.0		21.3		
490+21.20	LT	12	-	25.2		-		
491+00.30	LT	12	-	25.1		-		
493+00.88	RT	24	-	48.0		-		
497+93.97	LT	18	14	33.8		28.0		
511+82.49	LT	12	7	25.1		9.3		
514+42.60	LT	18.5	23.3	-		58.6		
515+49.80	LT	16.6	21	-		49.3		
Pond 66F	LT	24.0	43.4	-		120.6		
SUB-TOTAL				698.2		919.7		

REVISIONS					<div>Kimley»Horn</div> <div>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106</div>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET		SUMMARY OF QUANTITIES		SHEET NO.	
		DESCRIPTION	DATE	BY							
										13	



REVISIONS					<div>Kimley»Horn</div> <div>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106</div>	<div>INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS</div> <div>66th AVENUE FROM 69th STREET TO SR-510/85th STREET</div>	<div>PROJECT LAYOUT</div>	SHEET NO.
DESCRIPTION	DATE	BY	DESCRIPTION	16				

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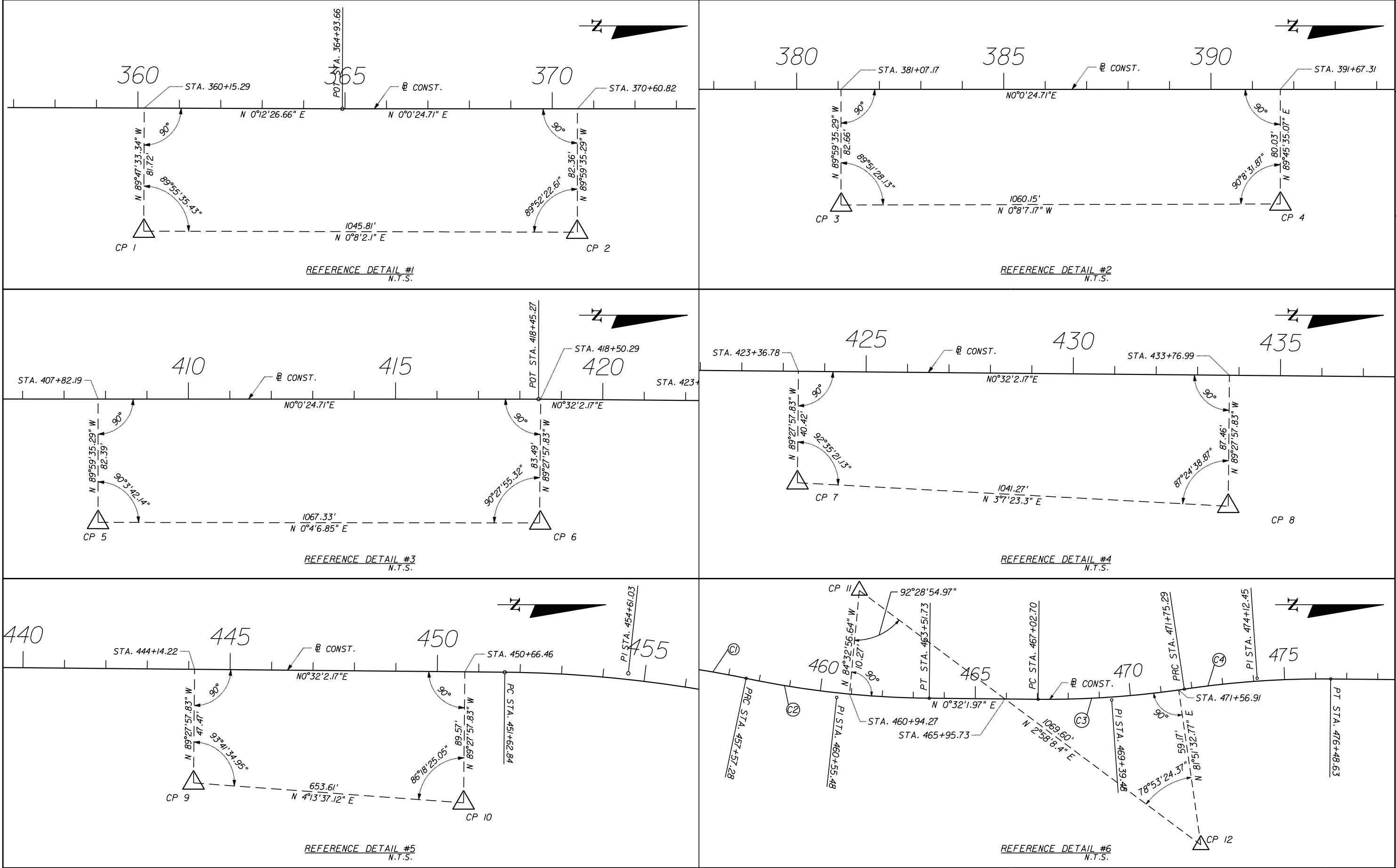
REVISIONS					Kimley»Horn	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO CR-510/85th STREET	66th AVENUE HORIZONTAL & VERTICAL CONTROL PLAN	SHEET NO. 17
	DESCRIPTION	DATE	BY					
					BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106			

1505B

IR.CO. Proj. No.

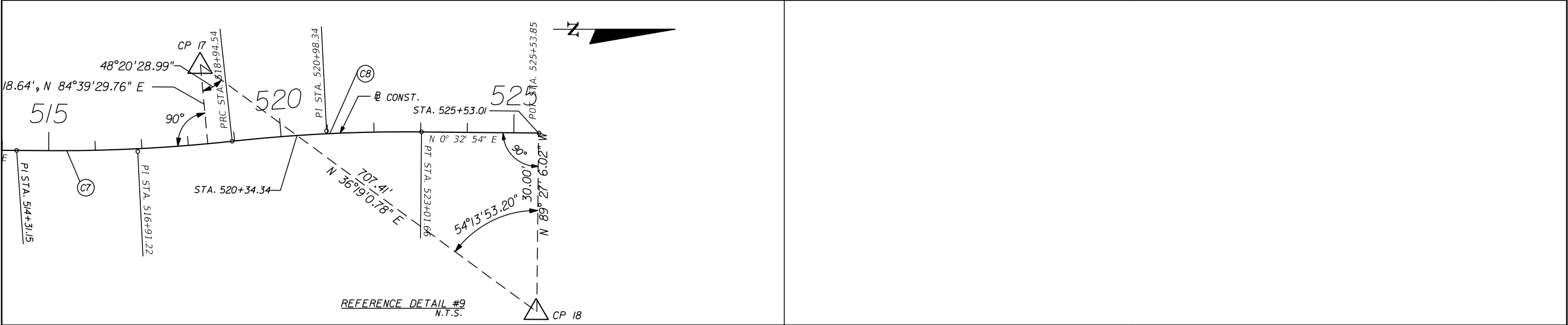
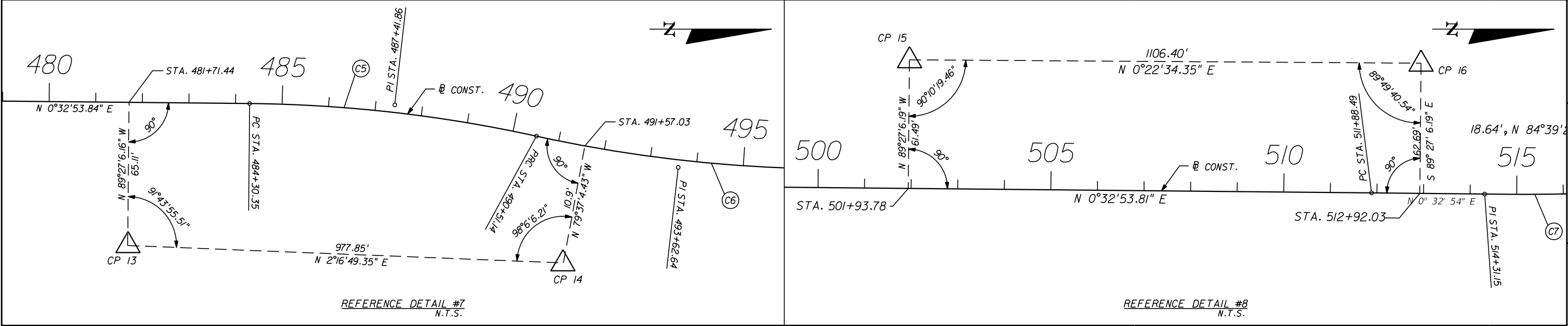
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

1/10/2023 10:43:35 AM K:\VRB_Roadway\47035041\Cadd\Phase II Construction Plans\PLPR\HVCRD66.dgn



REVISIONS					Kimley»Horn	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO CR-510/85th STREET	66th AVENUE HORIZONTAL & VERTICAL CONTROL PLAN	SHEET NO. 18
	DESCRIPTION	DATE	BY					

BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 35106



REVISIONS					<div>Kimley»Horn</div> <div>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106</div>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS	66th AVENUE HORIZONTAL & VERTICAL CONTROL PLAN	SHEET NO.
	DESCRIPTION	DATE	BY	DESCRIPTION		66th AVENUE FROM 69th STREET TO CR-510/85th STREET		19


THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

1505B

IR.CO. Proj. No.

ROADWAY GENERAL NOTES

GENERAL:

1. ALL GRADES SHOWN ARE FINISHED GRADES, UNLESS OTHERWISE NOTED.
2. STATIONING AND OFFSETS REFER TO THE CENTERLINE OF CONSTRUCTION, UNLESS OTHERWISE NOTED.
3. ALL RETURN RADIUS DIMENSIONS, STATIONS, OFFSETS, AND ELEVATIONS REFER TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.
4. BENCHMARK (B.M) LOCATIONS ARE INDICATED BY THE SYMBOL :  CPX
5. B.M. DATUM IS NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD-29).
6. ANY EXISTING SECTION CORNER, QUARTER SECTION CORNER AND INDIAN RIVER COUNTY SURVEY CONTROL MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A MONUMENT IS IN DANGER OF BEING DISTURBED, THE CONTRACTOR SHALL NOTIFY THE IRC COUNTY SURVEYOR, HAVE A PROFESSIONAL LAND SURVEYOR REFERENCE IT PRIOR TO CONSTRUCTION, AND RESET IT AFTER CONSTRUCTION.
7. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DISTURBED, AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE DISTRICT LOCATION SURVEYOR, WITHOUT DELAY, BY TELEPHONE.
8. ANY NGVD-29 MONUMENT WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A MONUMENT IS IN DANGER OF BEING DISTURBED, THE CONTRACTOR SHOULD NOTIFY:
MARK MAINTENANCE SECTION
GEODETIC INFORMATION CENTER ATTN: N/CG-162
ROCKVILLE, MARYLAND 20852
TELEPHONE: 301-443-8319
9. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN SECURED AND THE CONTRACTOR IS ISSUED A "NOTICE TO PROCEED".
10. CONTRACTOR SHALL UTILIZE CONSTRUCTION METHODS AND DEVICES AS INDICATED IN FDOT STANDARD INDEXES 104 AND 105 WHERE NECESSARY IN ORDER TO COMPLY WITH ALL STATE, LOCAL AND NPDES WATER QUALITY STANDARDS.
11. EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN THE LIMITS OF CONSTRUCTION SHOWN TO NOT REMAIN IN SERVICE SHALL BE REMOVED FROM THE ROW IN THEIR ENTIRETY, UNLESS OTHERWISE NOTED.
12. DURING CONSTRUCTION, SHOULD ANY DRAINAGE STRUCTURES (INCLUDING PIPES) BE FOUND THAT ARE NOT SHOWN ON THE PLANS, NOTIFY THE ENGINEER IMMEDIATELY.
13. INTERSECTING ROADS AND DRIVEWAYS SHALL BE GRADED AS DIRECTED BY THE ENGINEER, UNLESS OTHERWISE NOTED ON THE PLANS.
14. WHERE OPEN-CUTS OF THE EXISTING ROADWAY ARE MADE IN ORDER TO INSTALL PIPELINES, CONDUITS OR SLEEVES, REPAIR THE PAVEMENT IN ACCORDANCE WITH THE "OPEN-CUT PAVEMENT REPAIR DETAIL" IN THESE PLANS. MAINTAIN REPAIRED PAVEMENT FOR THE DURATION OF THE PROJECT.
15. IN REFERENCE TO THE PROPOSED DRAINAGE STRUCTURES & PIPE:
- A. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES MAY EXTEND INTO THE COMPACTED SUBGRADE PORTION OF THE ROAD BED. EXTREME CAUTION WILL BE NECESSARY DURING COMPACTION OPERATIONS IN THESE LOCATIONS.
- B. CONCRETE PIPE CULVERT (R.C.P) SHALL BE CLASS IV RCP, WALL B UNLESS OTHERWISE NOTED.
- C. ALL STORM STRUCTURE TOPS SHALL BE ADJUSTED AT TIME OF FINAL PAVEMENT OR CURB CONSTRUCTION. FINAL ADJUSTMENT OF ALL TOPS SHALL BE THE RESPONSIBILITY OF THE UNDERGROUND CONTRACTOR.
- D. THE LENGTHS OF PIPE SHOWN HEREON HAVE BEEN DETERMINED BY CALCULATING THE DISTANCE BETWEEN THE INLETS AND/OR MANHOLES.
- E. ALL DITCH BOTTOM INLETS SHALL HAVE AN EYEBOLT AND CHAIN IN ACCORDANCE WITH FDOT INDEX 201.
- F. THE CONTRACTOR SHALL VERIFY THE EXISTING INVERT ELEVATIONS AND DIMENSIONS OF ALL EXISTING DRAINAGE STRUCTURES PRIOR TO FABRICATION OF PROPOSED DRAINAGE STRUCTURES.
- G. OFFSETS TO CURB INLETS ARE TO PROPOSED EDGE OF PAVEMENT.
- H. ALL DRAINAGE STRUCTURE GRATES SHALL BE GALVANIZED, RETICULINE, H-20 STEEL GRATE.
- I. ALL MANHOLE COVERS SHALL BE 36" DIAMETER.
16. ALL MAILBOXES CURRENTLY SERVED FROM THE ROADWAY BEFORE CONSTRUCTION MUST BE SERVED IN THE SAME MANNER AFTER CONSTRUCTION. CONFORM WITH FDOT STANDARD INDEX 532. COST OF THIS ITEM SHALL BE INCLUDED UNDER THE CONTRACT PRICE FOR CLEARING AND GRUBBING.
17. ALL EXISTING FDOT / INDIAN RIVER COUNTY SIGNS WITHIN THE LIMITS OF CONSTRUCTION WHICH ARE TO BE REMOVED SHALL BE REMOVED BY THE CONTRACTOR AND DELIVERED TO INDIAN RIVER COUNTY PUBLIC WORKS TRAFFIC OPERATIONS AT 4550 41ST STREET, VERO BEACH, FL 32967. COST OF REMOVAL, DELIVERY AND COORDINATION WITH INDIAN RIVER COUNTY PUBLIC WORKS TO BE INCLUDED WITHIN PAY ITEM 110-I-1.
18. CONTRACTOR SHALL EXERCISE CAUTION WHILE REMOVING AND/OR RELOCATING EXISTING SIGNS IN ORDER TO PREVENT ANY UNNECESSARY DAMAGE TO THE SIGNS. SIGNS WHICH ARE DAMAGED BEYOND USE, AS DETERMINED BY THE ENGINEER, SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.

19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING THE EXISTING PAVEMENT MARKINGS BEFORE WORK IS STARTED AND THIS INFORMATION SHALL BE USED IN CONJUNCTION WITH TEMPORARY STRIPING AND FINISHED STRIPING.
20. EXCAVATED SOILS AND EXISTING ROCK BASE MAY BE USED FOR EMBANKMENT CONSTRUCTION PROVIDED THAT THE MATERIAL IS CLEAN FILL, FREE OF ORGANIC MATERIALS, ROOTS OR OTHER DELETERIOUS MATERIALS, AND CONFORMS WITH FDOT SPECIFICATIONS AND FDOT STANDARD INDEX 505.
21. ANY BORROW MATERIAL REQUIRED FOR THE PROJECT SHALL BE FURNISHED BY THE CONTRACTOR FROM AREAS PROVIDED BY HIM, AND THE COST OF FURNISHING SUCH MATERIAL SHALL BE INCLUDED IN THE CONTRACT PRICE FOR EMBANKMENT (COMPACTED IN PLACE).
22. ALL MUCK AND PLASTIC MATERIAL WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT STANDARD INDEX 500.
23. NONE OF THE EXISTING BASE THAT IS REMOVED DURING CONSTRUCTION SHALL BE USED IN THE CONSTRUCTION OF THE PROPOSED BASE, UNLESS AUTHORIZED, IN WRITING, BY THE ENGINEER.
24. ALL VEGETATION, DEBRIS, PAVEMENT, CONCRETE OR OTHER UNSUITABLE MATERIALS SHALL BE LEGALLY DISPOSED OF OFF-SITE IN AN AREA PROVIDED BY THE CONTRACTOR.
25. DRIVEWAY SLOPES MAY BE MODIFIED AS DIRECTED BY THE ENGINEER TO MATCH EXISTING CONDITIONS.
26. ALL EXISTING INLET GRATES & MANHOLE CASTINGS WHICH ARE REMOVED WITHIN THE LIMITS OF COUNTY R/W SHALL BE REMOVED AND DELIVERED TO INDIAN RIVER COUNTY ROAD AND BRIDGE DEPARTMENT AT 4550 41ST STREET, VERO BEACH, FL 32967. COST OF REMOVAL, DELIVERY AND COORDINATION WITH INDIAN RIVER COUNTY PUBLIC WORKS TO BE INCLUDED WITHIN PAY ITEM 110-I-1.
27. THE CONTRACTOR SHALL COMPLETELY REMOVE EXISTING ASPHALT & BASE MATERIAL FROM AREAS TO BE SODDED. BACKFILL SHALL CONSIST OF CLEAN GRANULAR FILL MATERIAL.
28. THE CONTRACTOR SHALL COORDINATE SELECTION AND REVIEW OF ANY PROPOSED STAGING AREAS ASSOCIATED WITH THIS PROJECT WITH THE INDIAN RIVER COUNTY CONSTRUCTION COORDINATION DIVISION AT 1-772-226-1567 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO USE. UPON COMPLETION OF THIS PROJECT THE STAGING AREA SHALL BE RESTORED TO ITS ORIGINAL CONDITION OR BETTER AT NO ADDITIONAL COST TO THE COUNTY.
29. THE CONTRACTOR SHALL NOT BRING HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SUCH MATERIALS FOR PERFORMING THE CONTRACTED WORK, THE CONTRACTOR SHALL REQUEST, IN WRITING, WRITTEN PERMISSION FROM THE PROJECT ENGINEER. THE CONTRACTOR SHALL PROVIDE A COPY OF THE REQUEST TO THE INDIAN RIVER COUNTY CONSTRUCTION COORDINATION DIVISION. THE CONTRACTOR SHALL PROVIDE THE INDIAN RIVER COUNTY CONSTRUCTION COORDINATION DIVISION WITH A COPY OF THE MATERIAL SAFETY DATA SHEET, (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE AND PROVIDE A DESCRIPTION OF THE SPECIFIC MANNER IN WHICH THE MATERIAL WILL BE USED. THE PROJECT ENGINEER SHALL COORDINATE WITH THE INDIAN RIVER COUNTY CONSTRUCTION COORDINATION DIVISION PRIOR TO ISSUING WRITTEN APPROVAL TO THE CONTRACTOR. BECAUSE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINERIZED AS HAZARDOUS MATERIALS, SUCH PRODUCTS DO NOT REQUIRE AN MSDS SUBMITTAL. ALL BULK PETROLEUM PRODUCTS STORED ON SITE SHALL REQUIRE PROPER STORAGE WHICH INCLUDES SECONDARY CONTAINMENT.
30. ANY KNOWN OR SUSPECT HAZARDOUS MATERIAL FOUND ON THE PROJECT BY THE CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE PROJECT ENGINEER, WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECT HAZARDOUS MATERIAL FROM FURTHER ACCESS. THE PROJECT ENGINEER IS TO NOTIFY THE PROPER REGULATORY AUTHORITY OF THE DISCOVERY. THE PROPER REGULATORY AUTHORITY WILL ADVISE/DIRECT THE PROJECT ENGINEER IN THE INVESTIGATION, IDENTIFICATION AND/OR REMOVAL/REMEDIATION OF THE MATERIAL IN QUESTION AS NEEDED. THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF SUSPECTED CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE PROJECT ENGINEER. THE REGULATORY AUTHORITY WILL ADVISE THE PROJECT ENGINEER IN THESE MATTERS.
31. ALL SALVAGE MATERIAL, IF DESIRED BY INDIAN RIVER COUNTY, SHALL BE DELIVERED TO INDIAN RIVER COUNTY ROAD AND BRIDGE DIVISION AT 4550 41ST STREET, VERO BEACH, FL 32967 BY THE CONTRACTOR. ALL COST FOR REMOVAL, HAULING, DELIVERY AND COORDINATION WITH INDIAN RIVER COUNTY PUBLIC WORKS SHALL BE INCLUDED WITHIN PAY ITEM 110-I-1.
32. ALL CLASS NS CONCRETE WITHIN THE PROJECT LIMITS SHALL DEVELOP 3,000 PSI (MIN.) 28-DAY COMPRESSIVE STRENGTH OR GREATER, UNLESS ADDITIONAL REQUIREMENTS ARE NOTED OR SPECIFIED.
33. SIDEWALK JOINTS TO BE INSTALLED PER DETAILS ON FDOT INDEX 310 FOR ALL SIDEWALKS. ALL JOINTS SHALL BE SAW CUT AS PER FDOT STANDARDS.
34. DETECTABLE WARNING SURFACES SHALL CONSIST OF CAST-IN-PLACE COMPOSITE TACTILE UNITS MANUFACTURE BY ADA SOLUTIONS, INC. (1-800-372-0519) OR APPROVED EQUIVALENT. DETECTABLE WARNING SURFACES SHALL EXTEND TWO FEET FROM BACK OF CURB AND SPAN THE ENTIRE RAMP RUN WIDTH. DETECTABLE WARNING SURFACE COLOR SHALL BE "FEDERAL YELLOW".
35. THE CONTRACTOR SHALL MAINTAIN ALL GRASSED AND LANDSCAPED AREAS WITHIN THE PROJECT LIMITS IN A SATISFACTORY CONDITION UNTIL FINAL ACCEPTANCE OF THE PROJECT MAINTENANCE SHALL INCLUDE MOWING OF ALL EXISTING GRASSED AREAS WITHIN THE RIGHT-OF-WAY. REMOVAL OF ALL TRASH AND DEBRIS ON A WEEKLY BASIS. GRASS HEIGHT SHALL NOT EXCEED 6".
36. CONTRACTOR SHALL PROVIDE 36" RING & COVERS FOR ALL PROPOSED MANHOLES

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ROADWAY GENERAL NOTES (CONT.)

UTILITY:

37. PRIOR TO COMMENCEMENT OF ANY EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH FLORIDA STATUTE 553.85I FOR THE PROTECTION OF UNDERGROUND GAS PIPELINES.
38. EXISTING UTILITIES ARE TO BE ADJUSTED OR RELOCATED BY OTHERS AS DIRECTED BY THE ENGINEER, UNLESS OTHERWISE NOTED.
39. IN REFERENCE TO EXISTING UTILITIES AND UTILITY ADJUSTMENTS:
- A. THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL INFORM THE ENGINEER AND NOTIFY THE RESPECTIVE UTILITY OWNER(S) TO RESOLVE UTILITY CONFLICTS AND UTILITY ADJUSTMENTS AS REQUIRED.
 - B. FOR EXISTING UTILITY SYMBOLS, SEE FDOT STANDARD INDEX 002.
 - C. WATER AND SANITARY SEWER UTILITY WORK SHALL BE IN CONFORMANCE WITH ALL CODES, STANDARDS, AND ORDINANCES. CURRENTLY H.R.S., AND THE LOCAL UTILITY DEPARTMENT OWNING THE FACILITIES.
40. CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD OR UNDERGROUND UTILITIES.
41. CONTRACTOR SHALL NOTIFY SUNSHINE STATE "ONE CALL" 1-800-432-4770 AND ALL AFFECTED UTILITIES 48 HOURS IN ADVANCE OF ANY CONSTRUCTION SO THAT A COMPANY REPRESENTATIVE MAY BE PRESENT.
42. EXISTING UTILITY OWNERS:
- | | | |
|--------------------------------|---------------------|--------------|
| IRC UTILITIES DEPARTMENT | HARRISON YOUNGBLOOD | 772-226-4343 |
| IRC TELECOMMUNICATION DIVISION | RANDY KING | 772-226-1536 |
| FP&L DISTRIBUTION | ROB MORRIS | 772-223-4215 |
| FP&L TRANSMISSION | TRICIA D' ANNUNZIO | 561-904-3560 |
| FLORIDA GAS TRANSMISSION CO | JOSEPH SANCHEZ | 407-838-7000 |
| AT&T / BELLSOUTH | LUKE FOLKERTS | 407-496-6041 |
| CITY GAS COMPANY OF FL | HOLLY COOMBS | 321-638-3419 |
| COMCAST CABLE COMMUNICATIONS | JUDE RENE | 561-598-9407 |
| IRC TRAFFIC ENGINEERING | JOHN ANKENY | 772-226-1563 |
43. WHEN UTILITY POLES ARE IN AREAS OF EXCAVATIONS, CONTRACTOR SHALL MAINTAIN A MINIMUM SEPARATION OF FIVE (5) FEET BETWEEN THE POLE AND ANY EXCAVATION.
44. WHEN WORKING WITHIN TEN (10) FEET OF A TRAFFIC SIGNAL POLE, INDIAN RIVER COUNTY TRAFFIC ENGINEERING SHALL BE NOTIFIED: JOHN ANKENY 772-226-1547.
45. ALL EXISTING IRRIGATION SYSTEM COMPONENTS CONFLICTING WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. EXISTING PIPES SHALL BE CAPPED PRESSURE TIGHT AT THE R/W LINE OR LIMITS OF CONSTRUCTION. EXISTING CONTROL WIRING SHALL BE CUT, SEALED AND LEFT BURIED BELOW GRADE AT THE R/W LINE OR LIMITS OF CONSTRUCTION. IN ALL CASES, THE CONTRACTOR SHALL CLEARLY MARK IN THE FIELD ALL IRRIGATION SYSTEM BREAKS IN A MANNER ACCEPTABLE TO THE ENGINEER FOR FUTURE RECONNECTION OR EXTENSION BY OTHERS. THE COST FOR IRRIGATION SYSTEM REMOVAL, CAPPING PIPE AND SEALING WIRING SHALL BE INCLUDED IN THE CONTRACT PRICE FOR CLEARING AND GRUBBING.
46. CONTRACTOR SHALL EXERCISE PROPER CARE & CAUTION WHEN DRIVING GUARDRAIL POSTS IN THE VICINITY OF EXISTING & PROPOSED UTILITY LINES, INCLUDING THE 12" RAW WATER MAIN. CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO POST INSTALLATION. THE ENGINEER MAY DIRECT THE USE OF ENCASED GUARDRAIL POST IN LIEU OF STANDARD POSTS IF NECESSARY TO AVOID EXISTING UTILITIES AT NO ADDITIONAL COST TO THE COUNTY.
47. CONTRACTOR SHALL MAINTAIN EXISTING FIBER OPTIC CABLE SERVING THE INDIAN RIVER COUNTY SHERIFF'S OFFICE IN WORKING ORDER AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT.

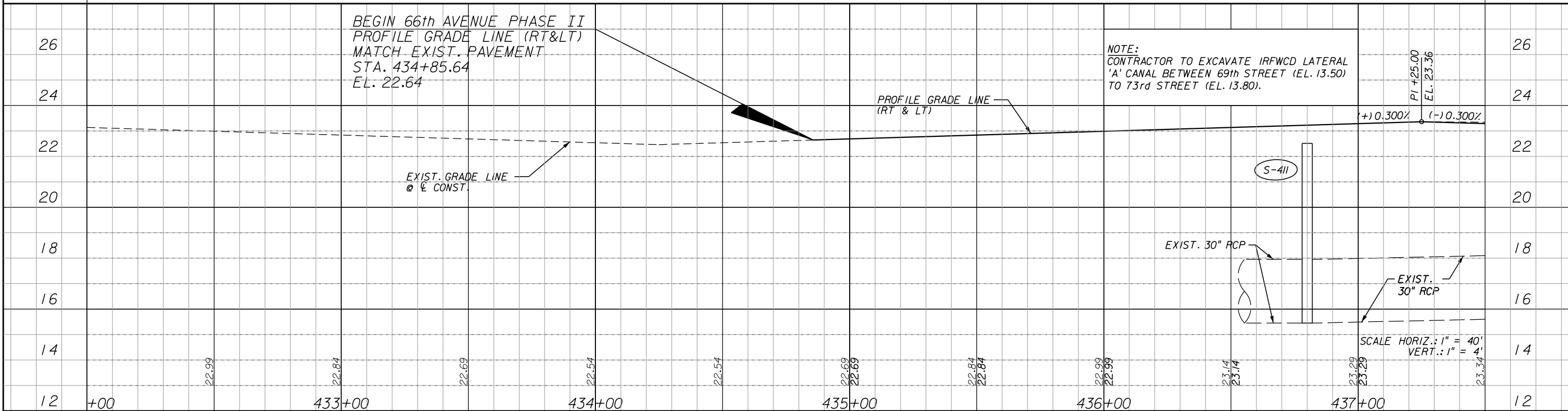
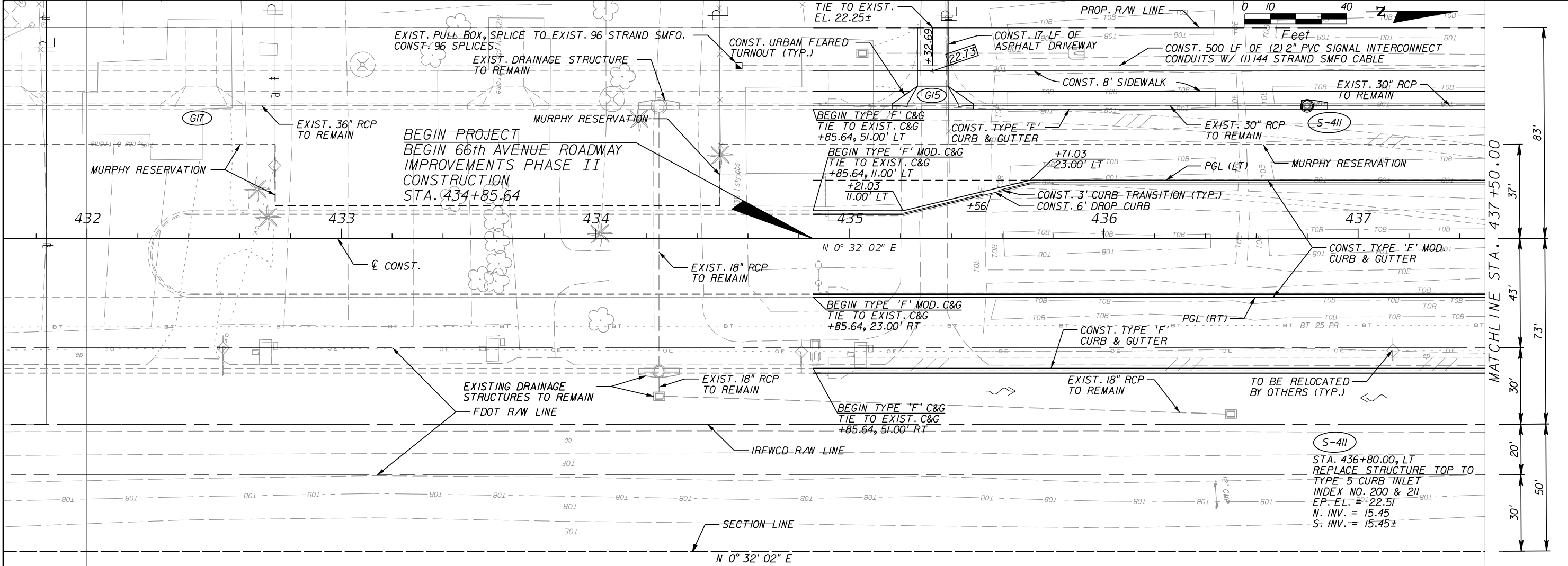
MAINTENANCE OF TRAFFIC:

48. CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES DURING CONSTRUCTION IN ACCORDANCE WITH FDOT INDEX NOS. 600 THRU 670 AND SHALL PROVIDE ALL BARRICADES, LIGHTING, CHANNELIZING DEVICES, TEMPORARY PAVEMENTS, TEMPORARY SIGNALS, ATTENUATORS, VARIABLE MESSAGE SIGNS, SIGNAGE AND FLAG MEN AS NECESSARY OR ANYTHING ELSE THAT MAY BE REQUIRED TO MEET FDOT INDEX 600 TO PROVIDE FOR THE SAFETY OF THE PUBLIC IN THE AREA OF THE WORK. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH CURRENT FDOT ROADWAY & TRAFFIC DESIGN STANDARDS AND SPECIFICATIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE CONTRACTOR SHALL PREPARE & SUBMIT SIGNED & SEALED TRAFFIC CONTROL PLANS TO INDIAN RIVER COUNTY FOR APPROVAL PRIOR TO THE BEGINNING OF CONSTRUCTION.
49. ALL LANE CLOSURES SHALL BE APPROVED IN ADVANCE BY INDIAN RIVER COUNTY. ALL LANES, INCLUDING TEMPORARY/SHORT-TERM LANE CLOSURES, MUST BE OPEN IN THE EVENT OF AN EVACUATION.
50. CONTRACTOR SHALL SUBMIT A PROJECT SPECIFIC HURRICANE PREPAREDNESS PLAN FOR REVIEW AND ACCEPTANCE. THIS PLAN SHALL DETAIL THE CONTRACTOR'S PROCEDURES AND TIMELINES FOR DEMOBILIZATION AND REMOBILIZATION IN THE EVENT OF A TROPICAL EVENT.
51. NO EXCAVATION SHALL BE LEFT OPEN AFTER DARK.

DEWATERING:

52. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL BY INDIAN RIVER COUNTY & FDEP A PROJECT SPECIFIC STORMWATER POLLUTION PREVENTION PLAN. THIS PLAN SHALL BE APPROVED PRIOR TO THE START OF CONSTRUCTION.
53. ALL TEMPORARY COFFER DAMS CONSTRUCTED WITHIN IRFWCD RIGHTS-OF-WAY SHALL CONSIST OF TEMPORARY STEEL SHEETING. EARTHEN EMBANKMENT DAMS WILL NOT BE PERMITTED. THE CONTRACTOR SHALL COORDINATE WITH THE IRFWCD SUPERINTENDENT PRIOR TO TEMPORARY SHEETING INSTALLATION AS TO DETERMINE MAXIMUM SHEETING TIP ELEVATION PERMITTED. COST OF TEMPORARY SHEETING SHALL BE INCLUDED IN THE ASSOCIATED PAY ITEM REQUIRING THE TEMPORARY SHEETING TO BE INSTALLED. THE COUNTY IS NOT RESPONSIBLE FOR DAMAGE CAUSED BY FLOOD STAGES EXCEEDING THE MAXIMUM SHEET TIP ELEVATION DURING CONSTRUCTION.
54. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM IRFWCD AND THE COUNTY FOR ANY COFFER DAMS, EARTHEN BERMS, ETC. PLACED WITHIN THE IRFWCD CANAL SYSTEM PRIOR TO INSTALLATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL AND STABILIZATION OF ANY SEDIMENT TRANSPORT OUTSIDE OF THE PROJECT LIMITS.
55. THE CONTRACTOR SHALL COORDINATE WITH IRFWCD AND INDIAN RIVER COUNTY REGARDING OFF-SITE DISCHARGE LOCATIONS AND WATER QUALITY STANDARDS.

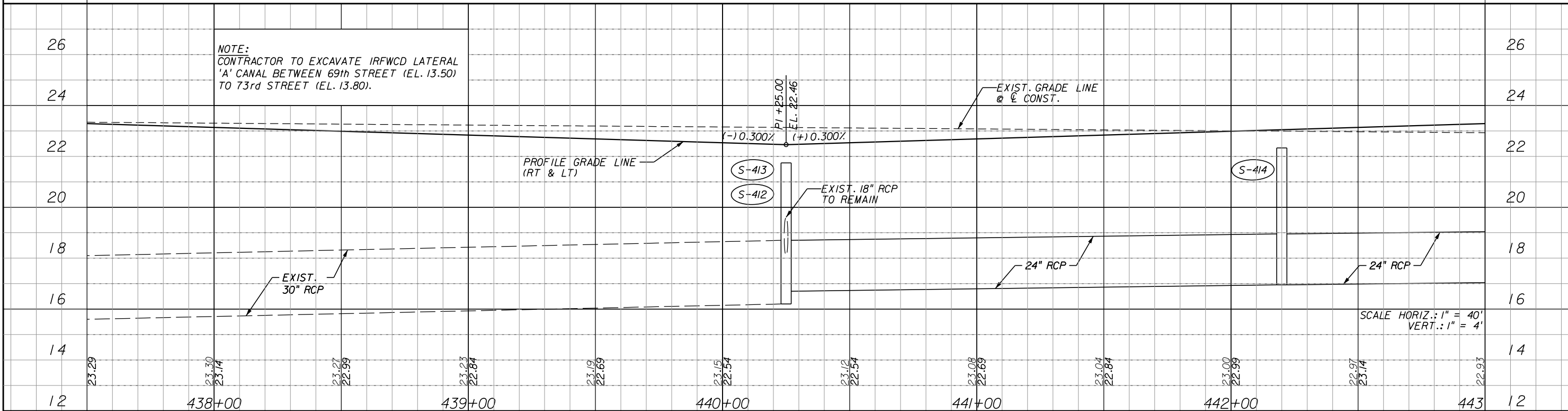
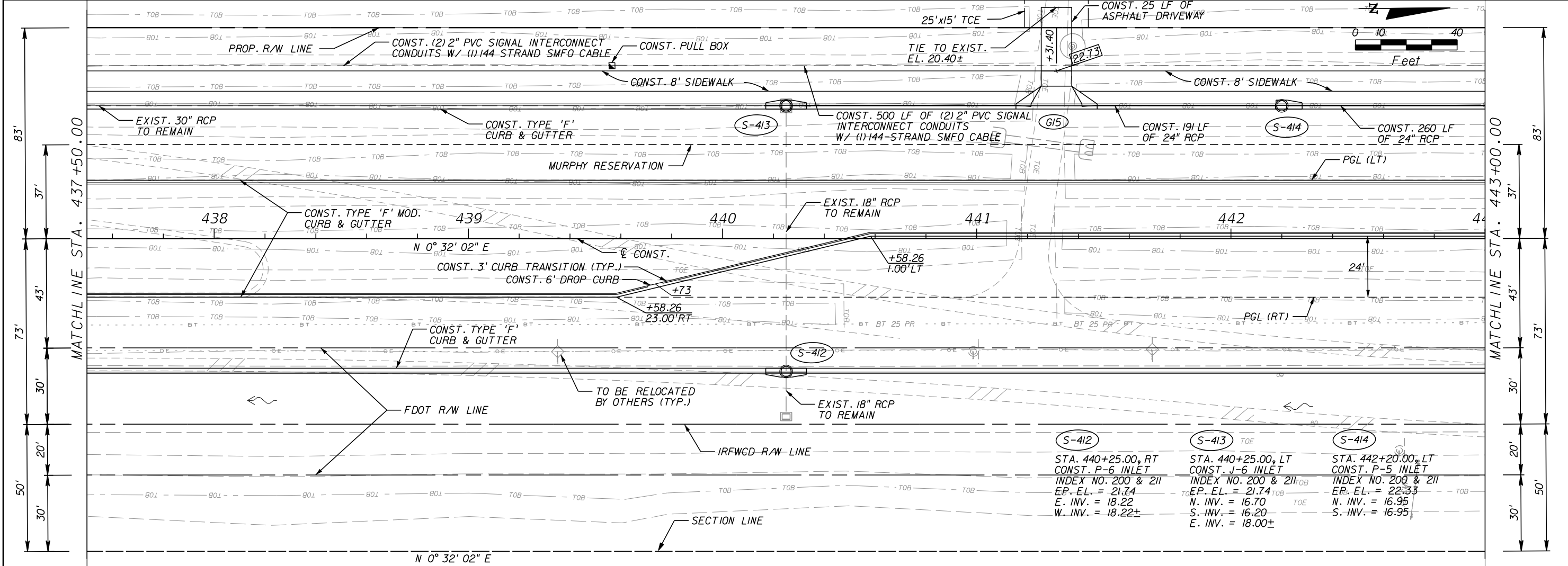
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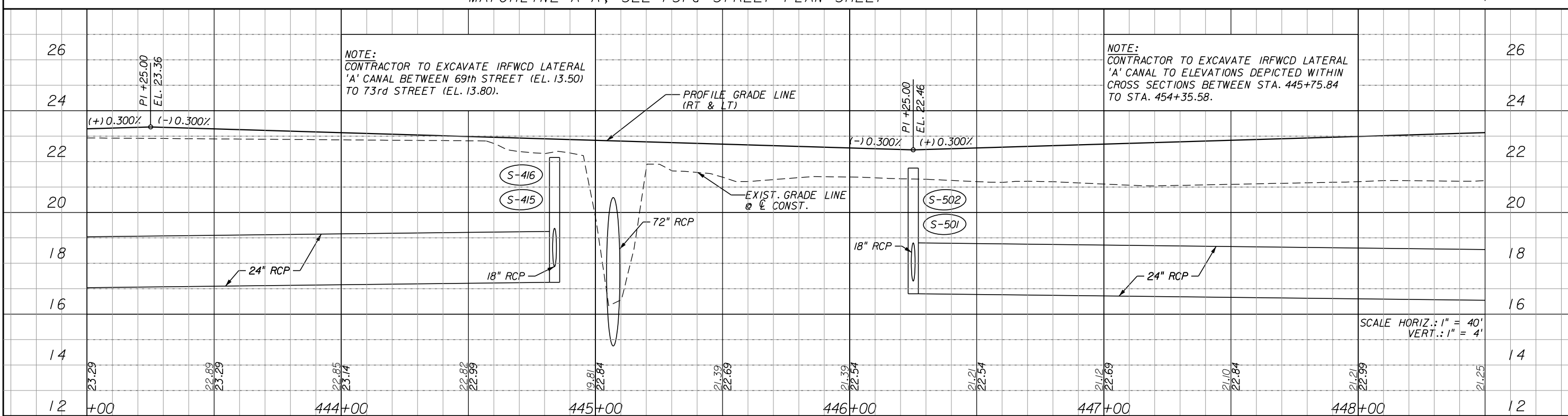
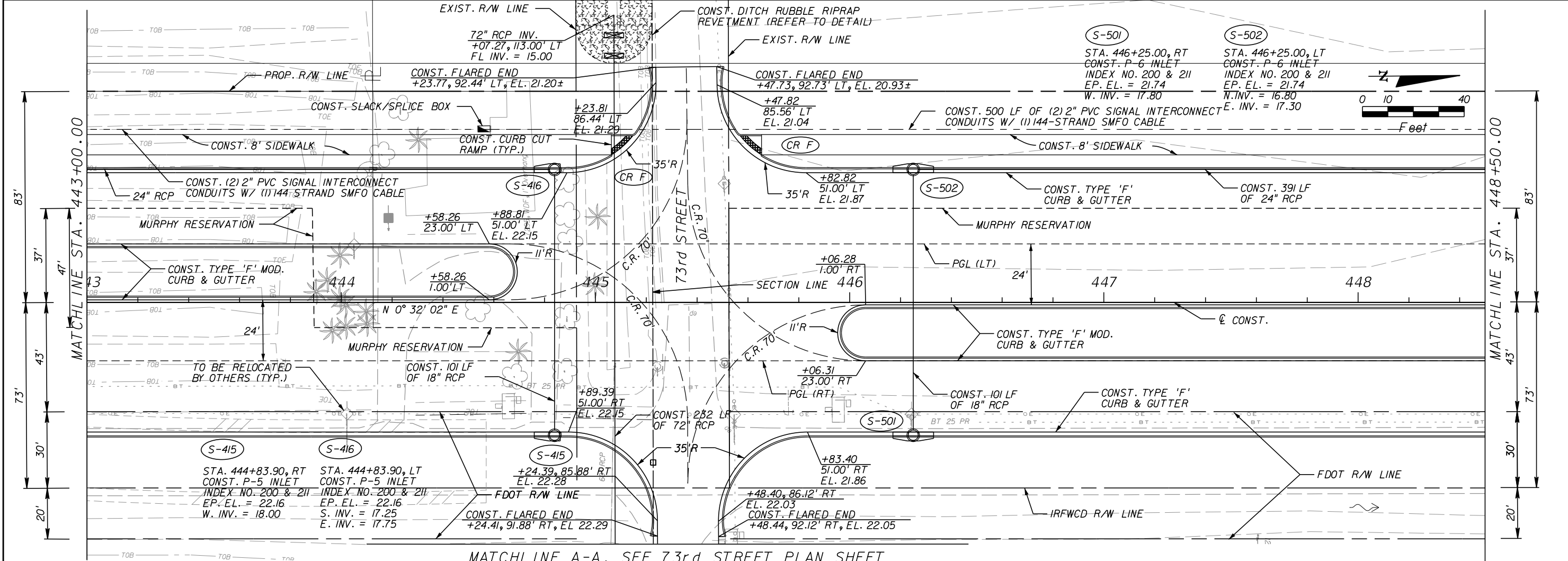


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NOTE:
CONTRACTOR TO EXCAVATE IRFWCD LATERAL
'A' CANAL BETWEEN 69th STREET (EL. 13.50)
TO 73rd STREET (EL. 13.80).

SCALE HORIZ.: 1" = 40'
VERT.: 1" = 4'

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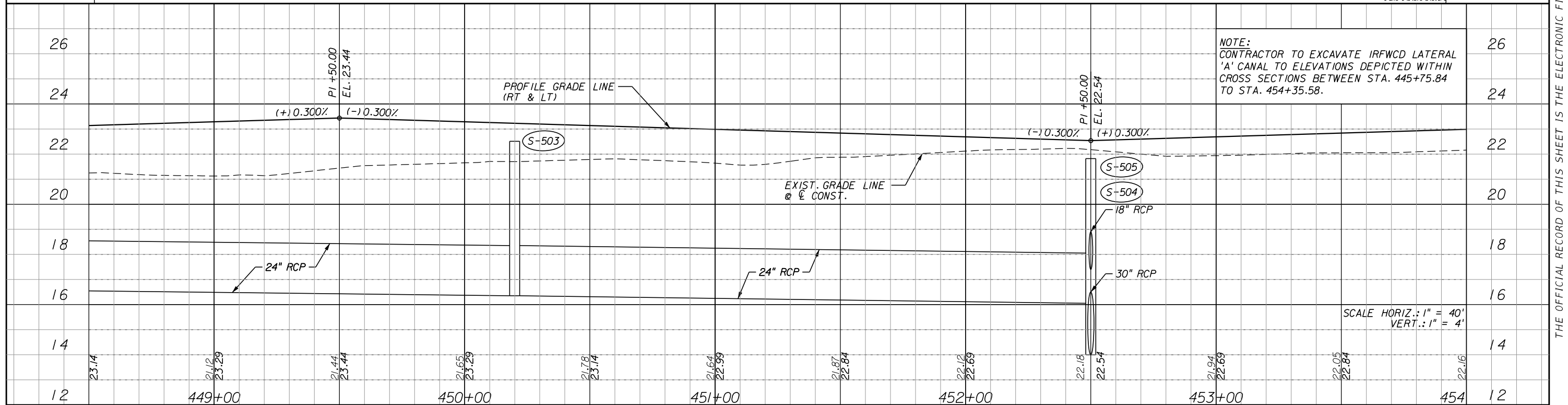
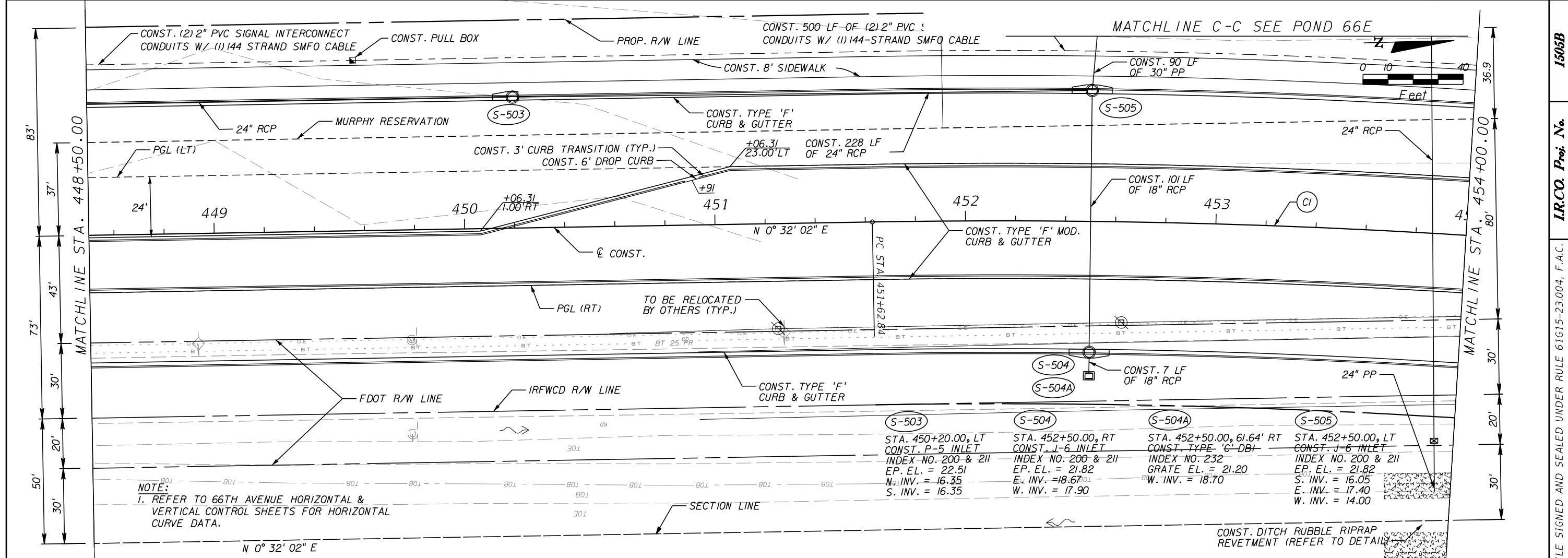
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**66th AVENUE FROM 69th STREET
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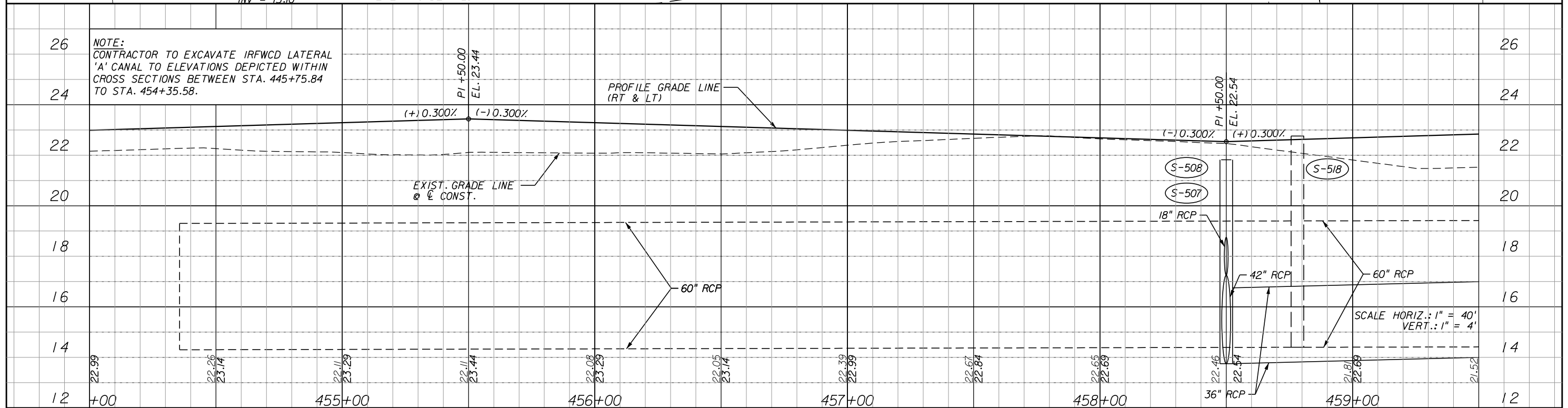
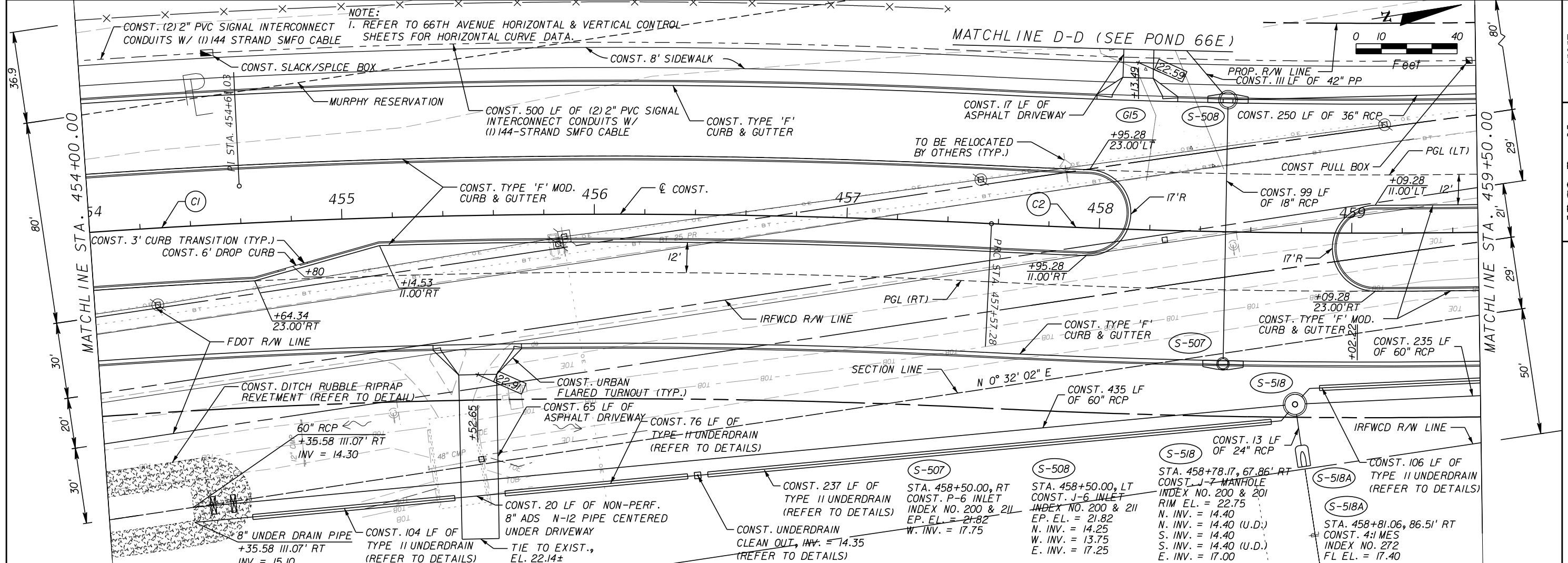
**66th AVENUE
PLAN & PROFILE**

SHEET NO.
24



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DESCRIPTION	DATE	BY	DESCRIPTION				
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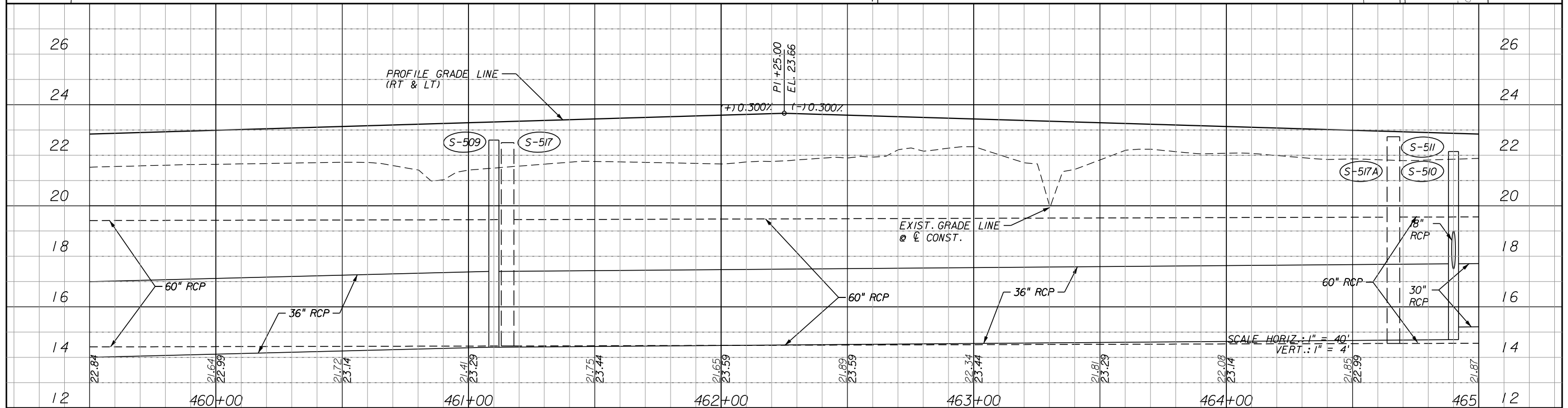
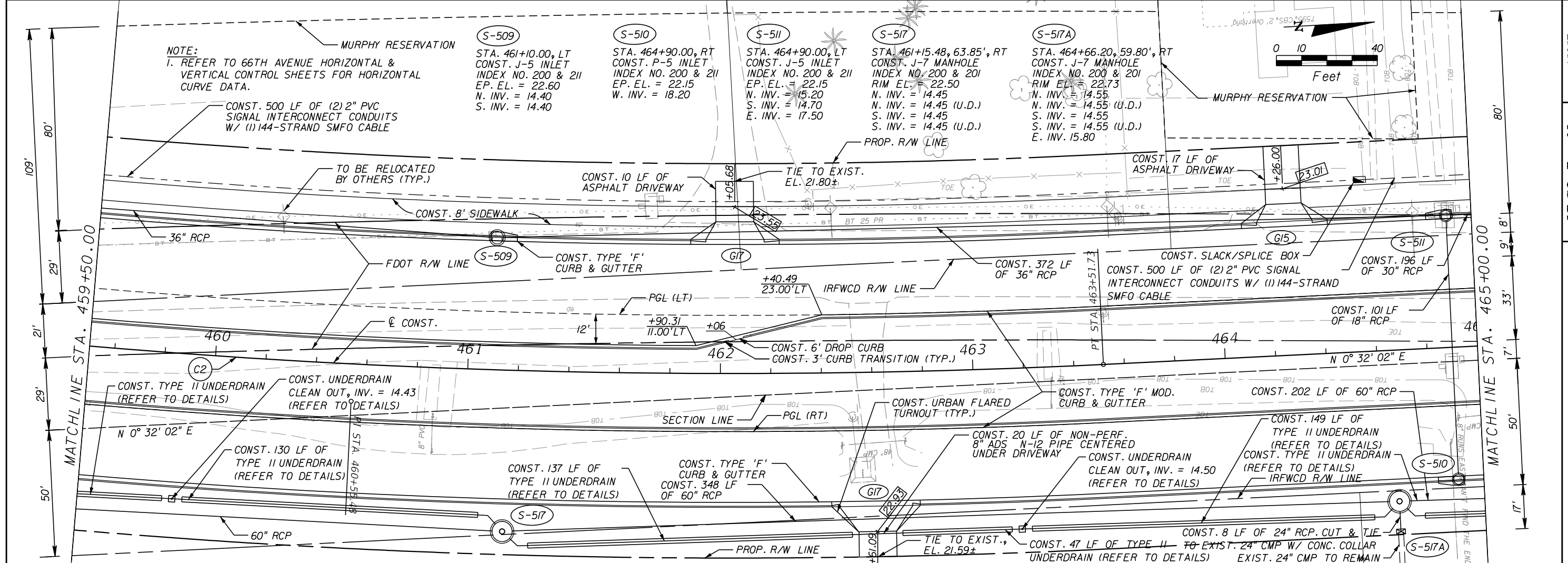
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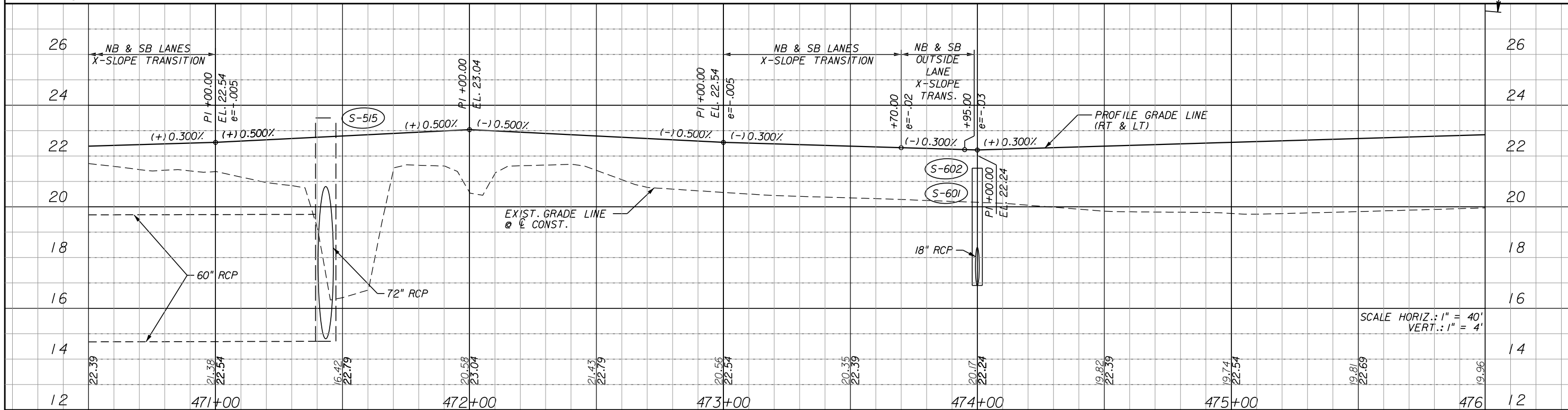
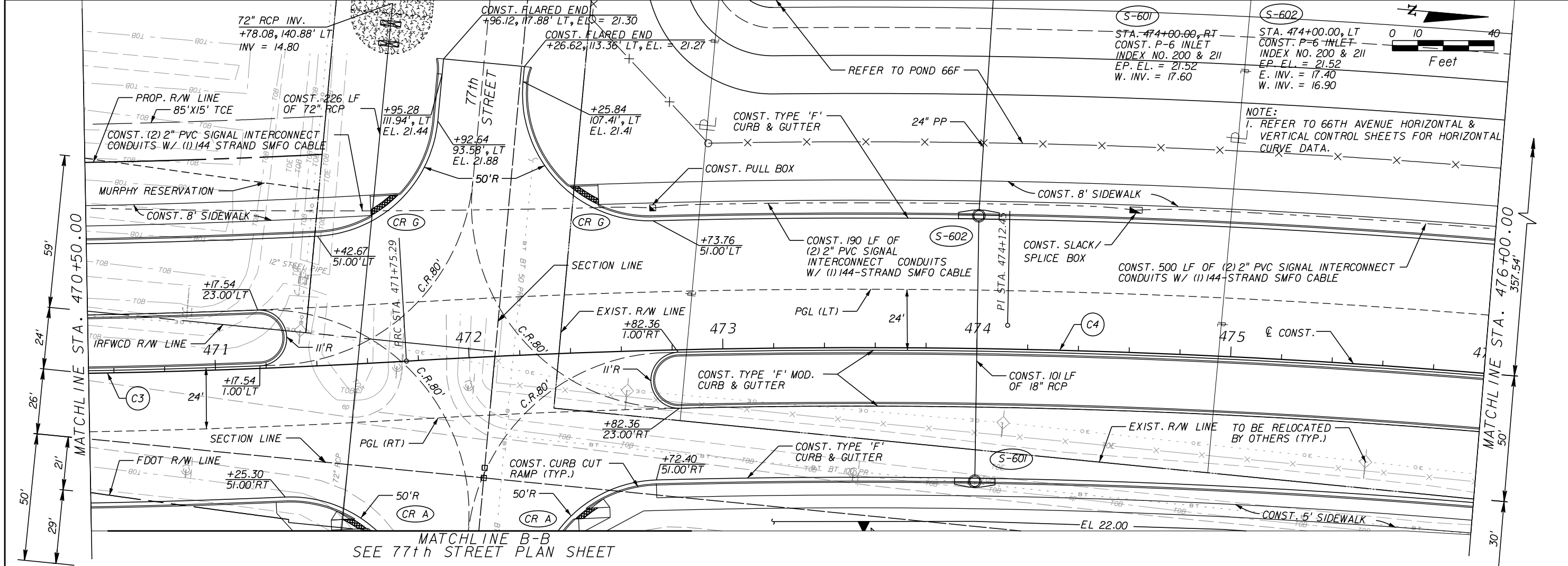
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INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

66th AVENUE
PLAN & PROFILE

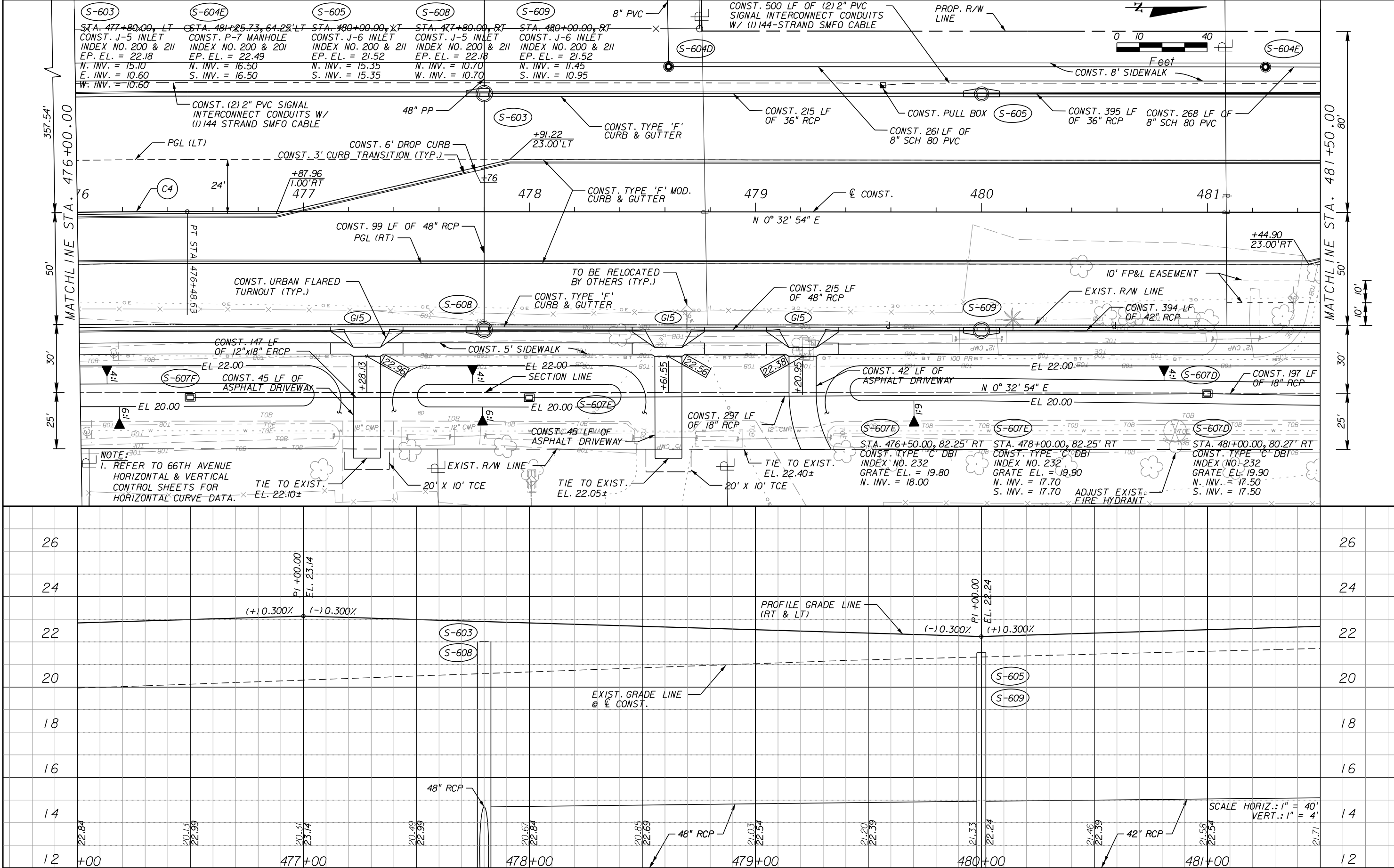
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DESCRIPTION	DATE	BY	DESCRIPTION				

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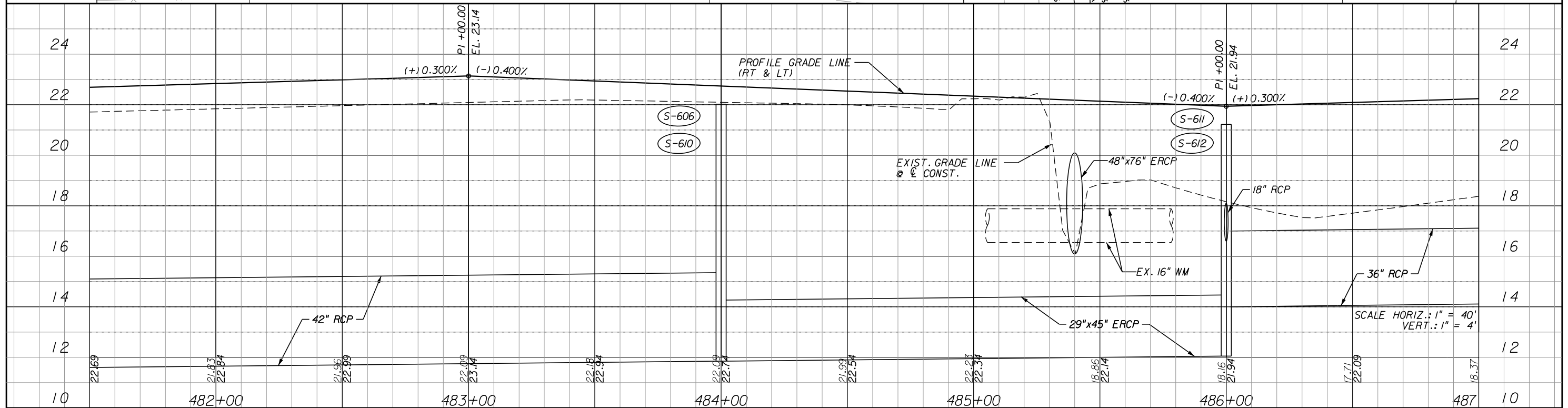
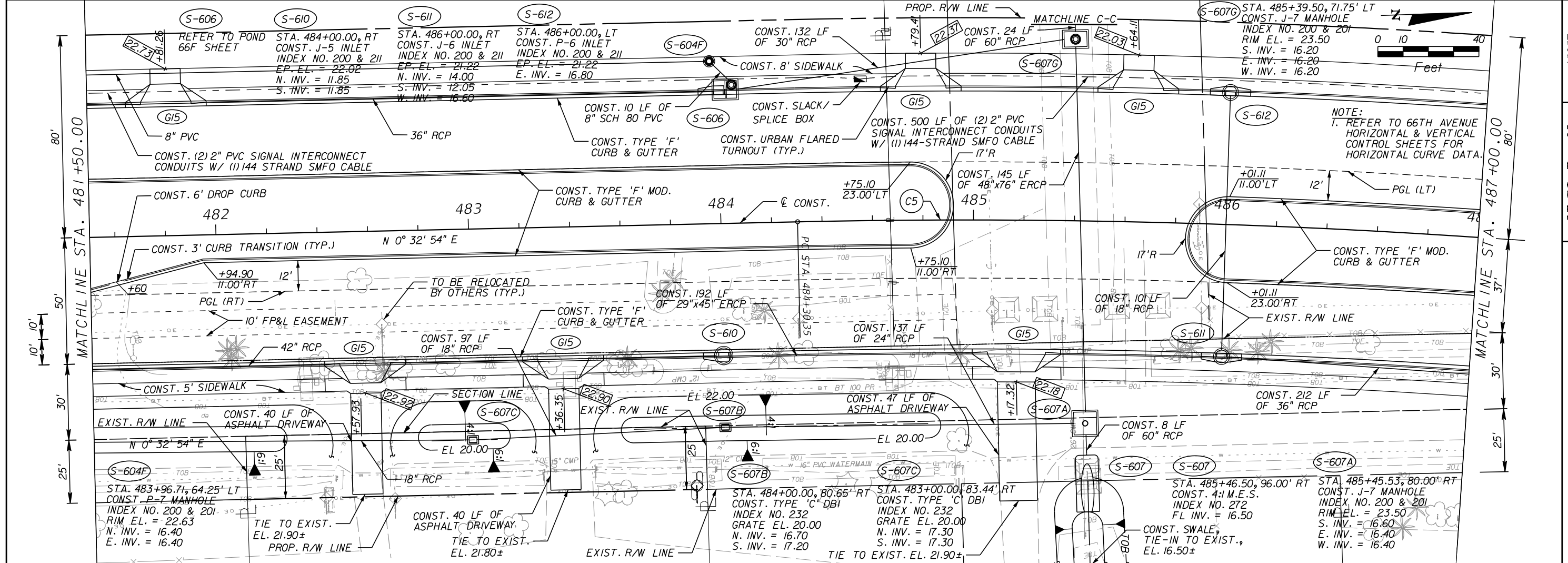
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**INDIAN RIVER COUNTY
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TO SR-510/85th STREET**

**66th AVENUE
PLAN & PROFILE**

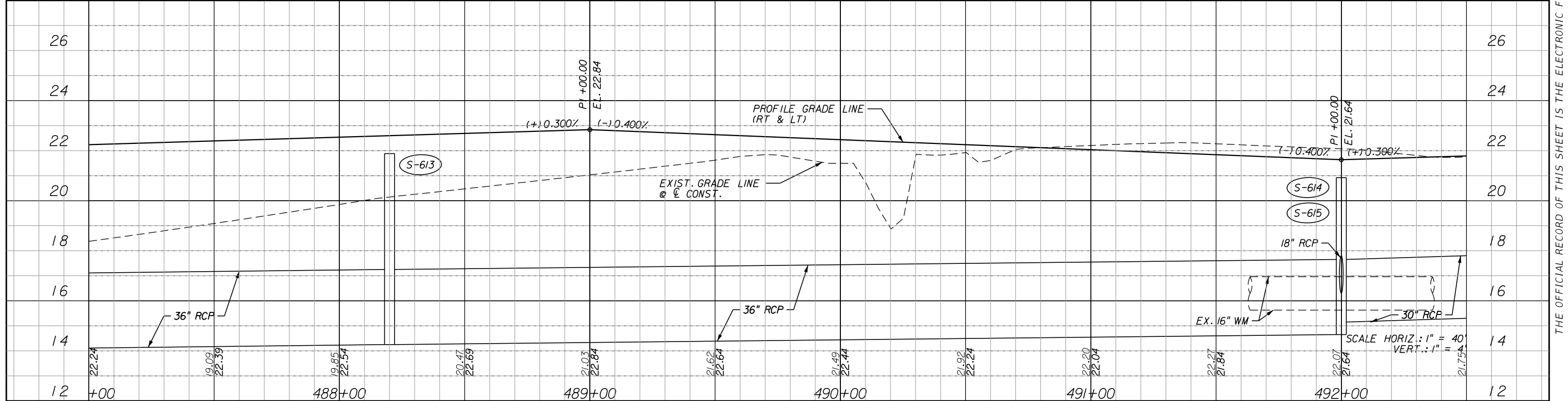
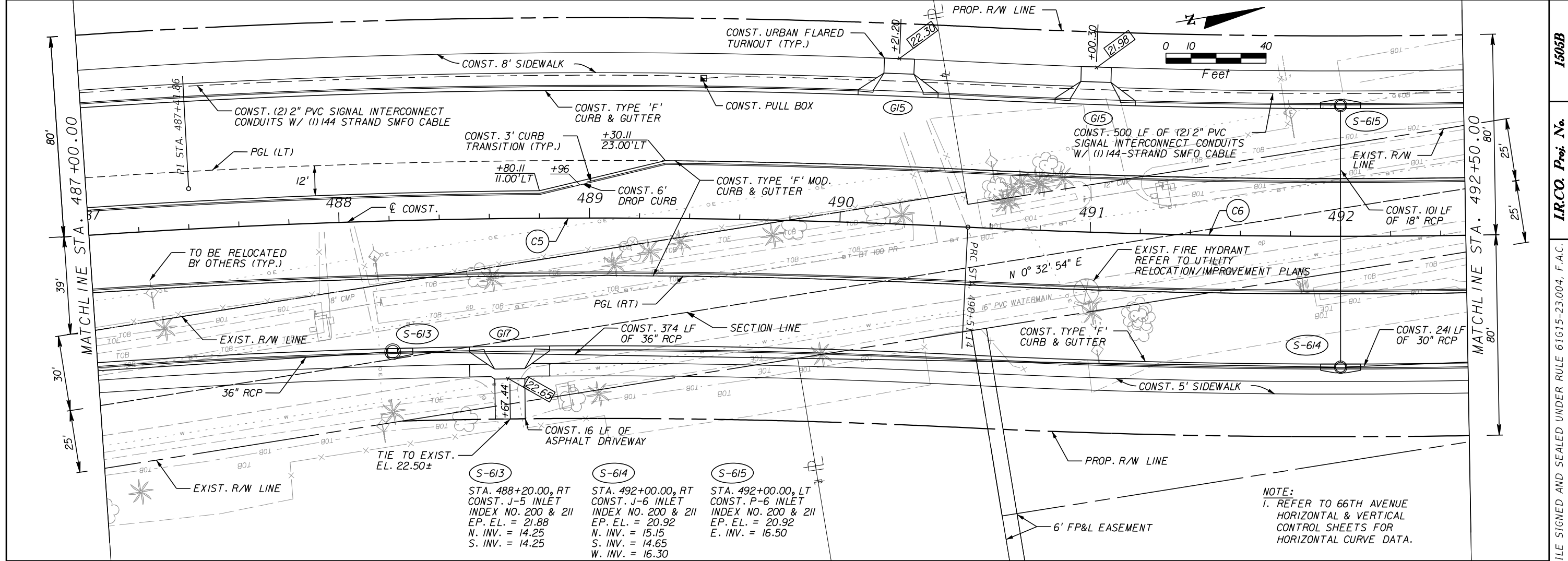
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DESCRIPTION	DATE	BY	DESCRIPTION		66th AVENUE FROM 69th STREET TO SR-510/85th STREET	31		

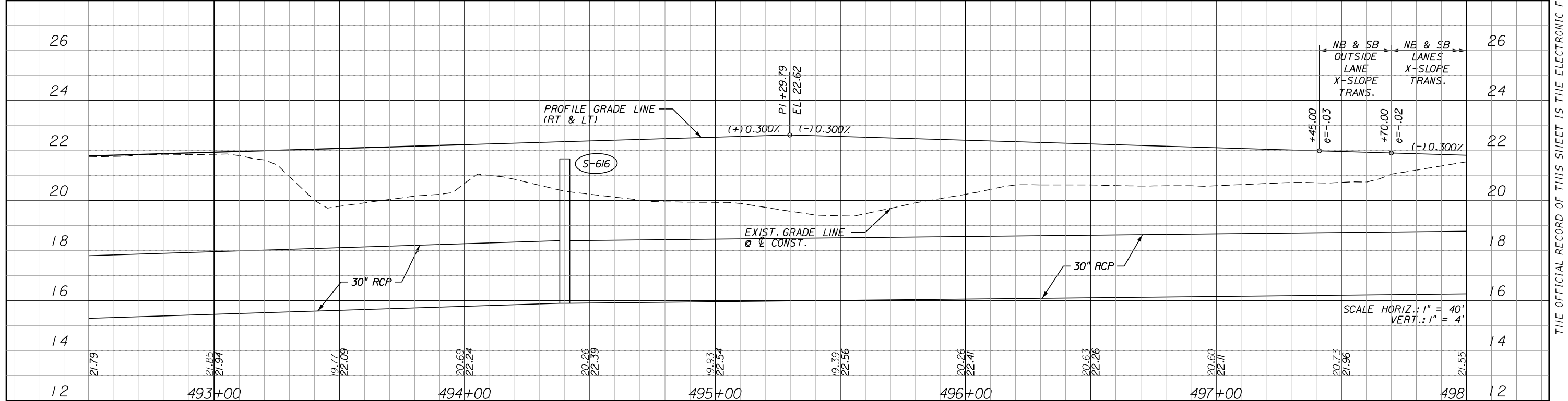
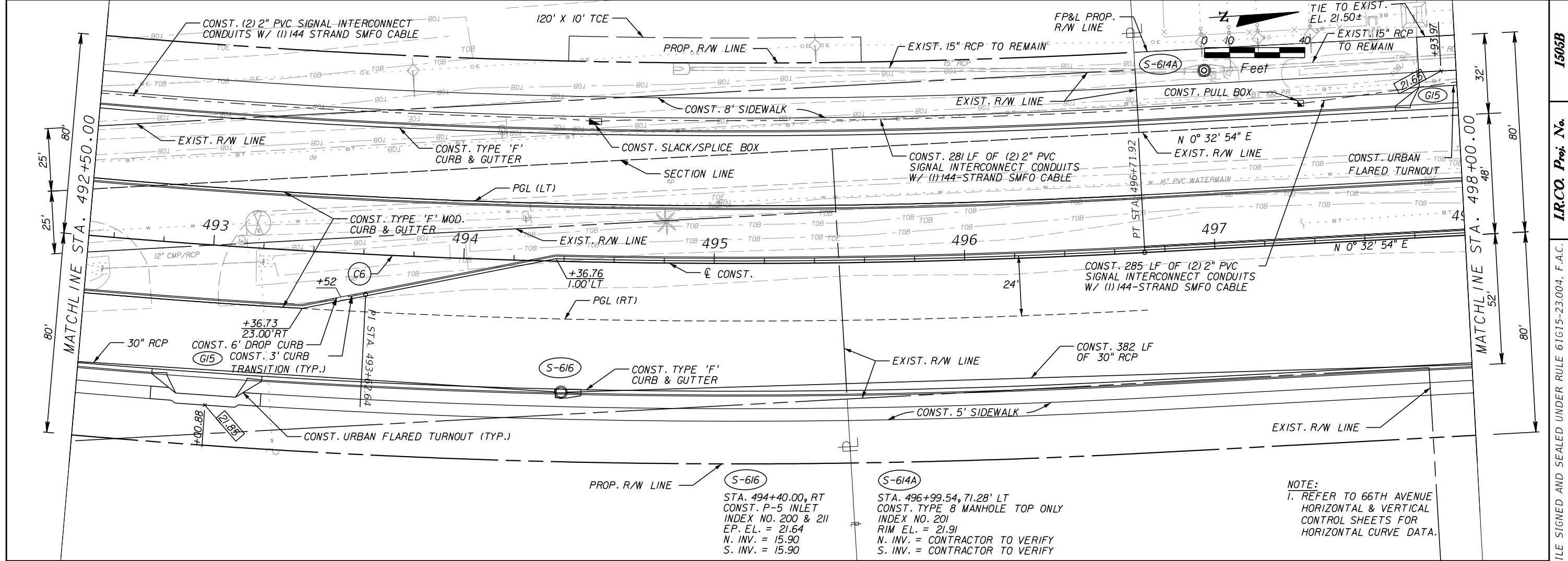
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DESCRIPTION	DATE	BY	DESCRIPTION				
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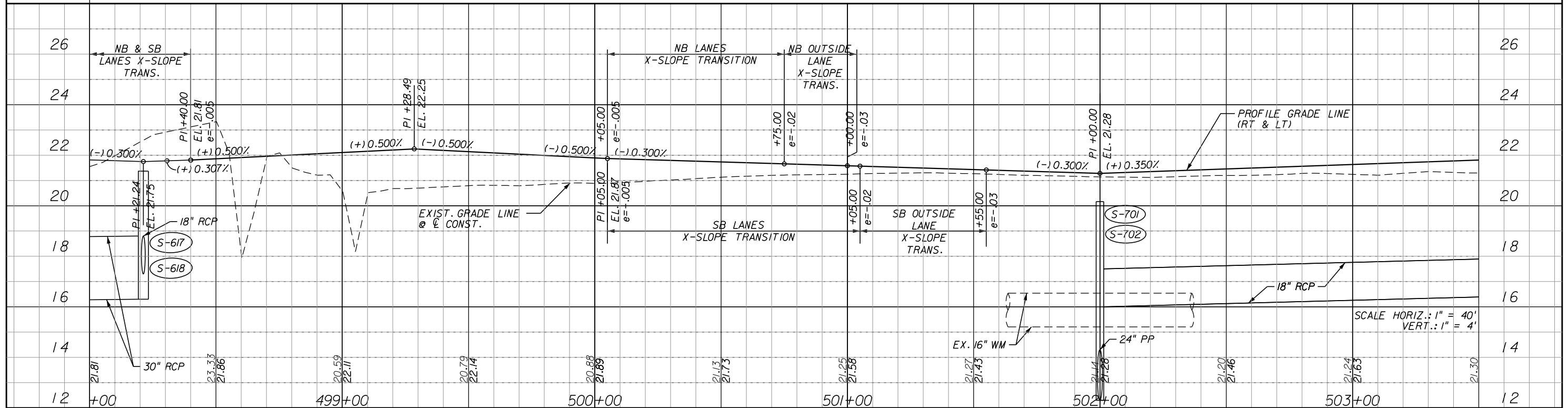
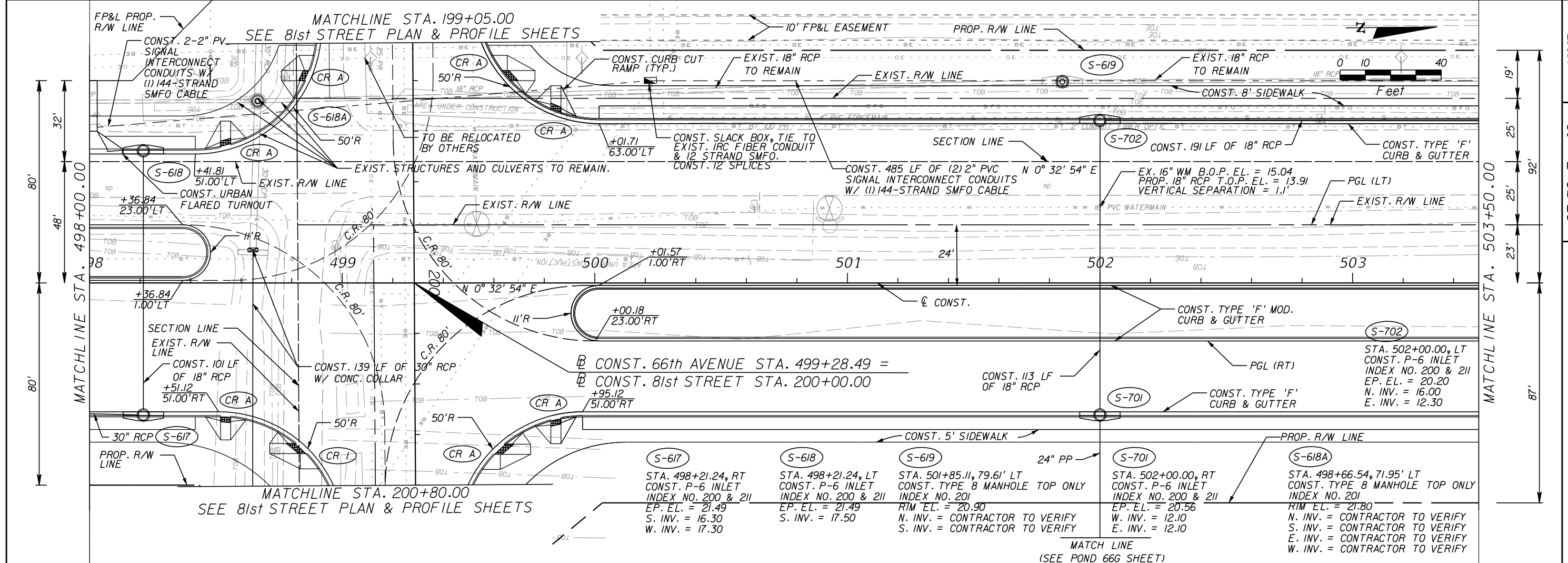


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DESCRIPTION	DATE	BY	DESCRIPTION				
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BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

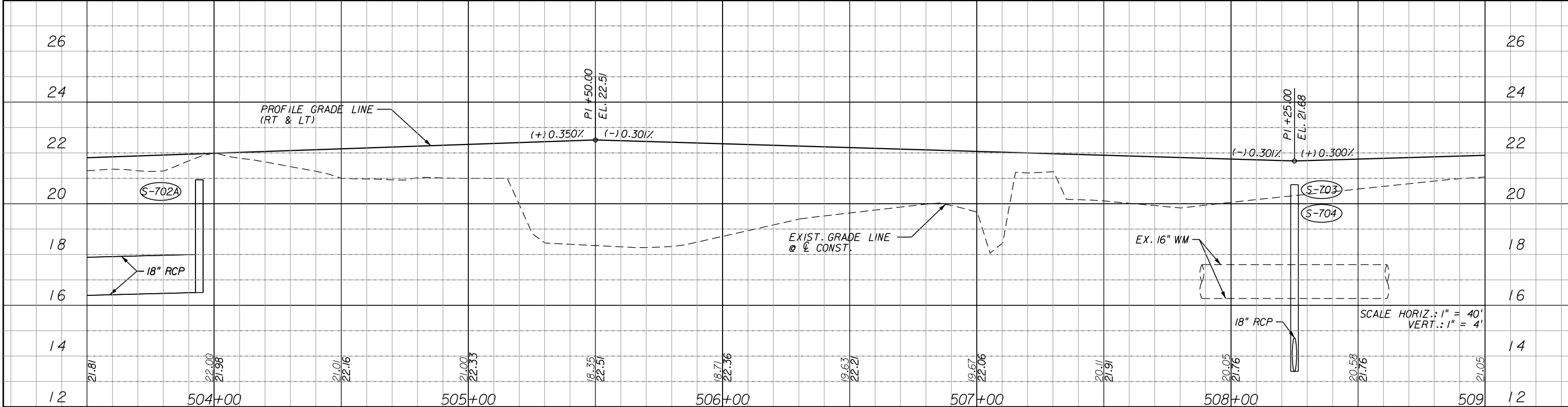
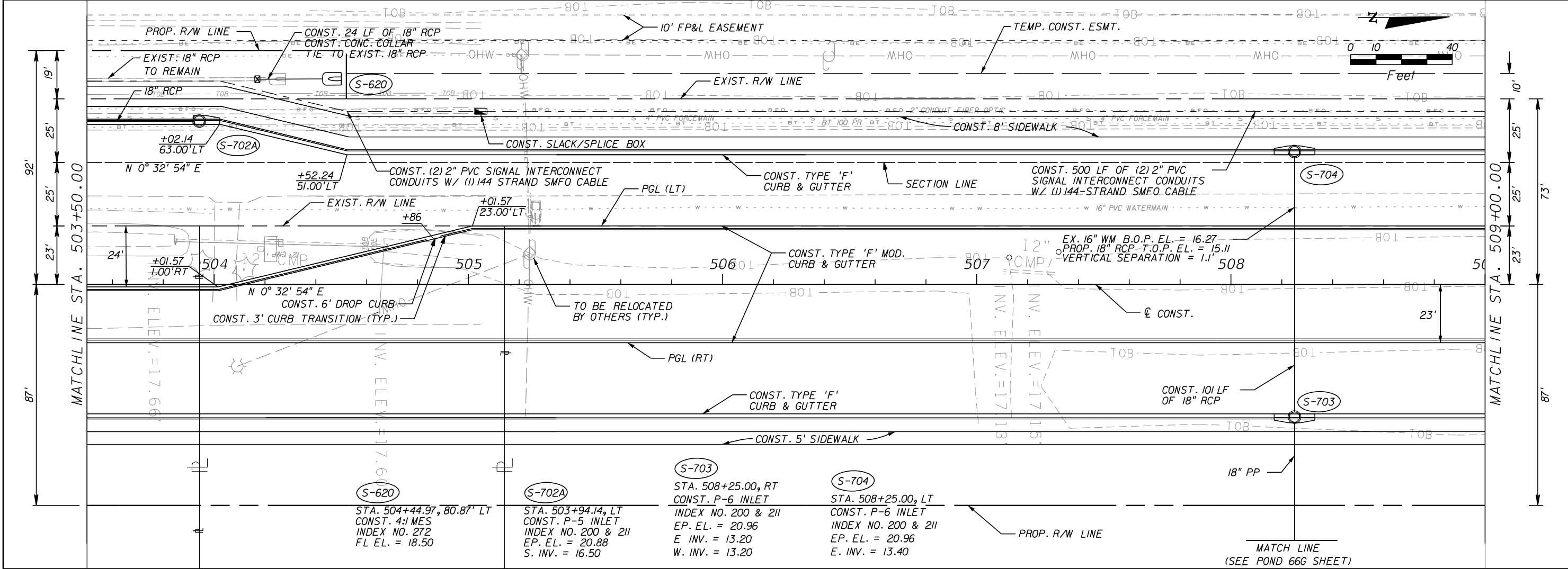
66th AVENUE
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34

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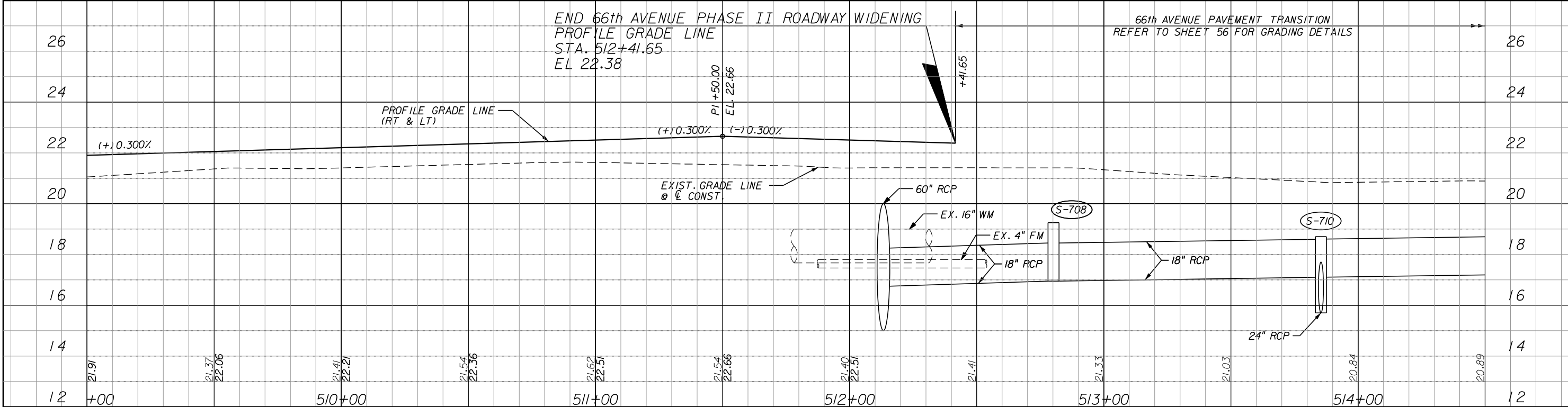
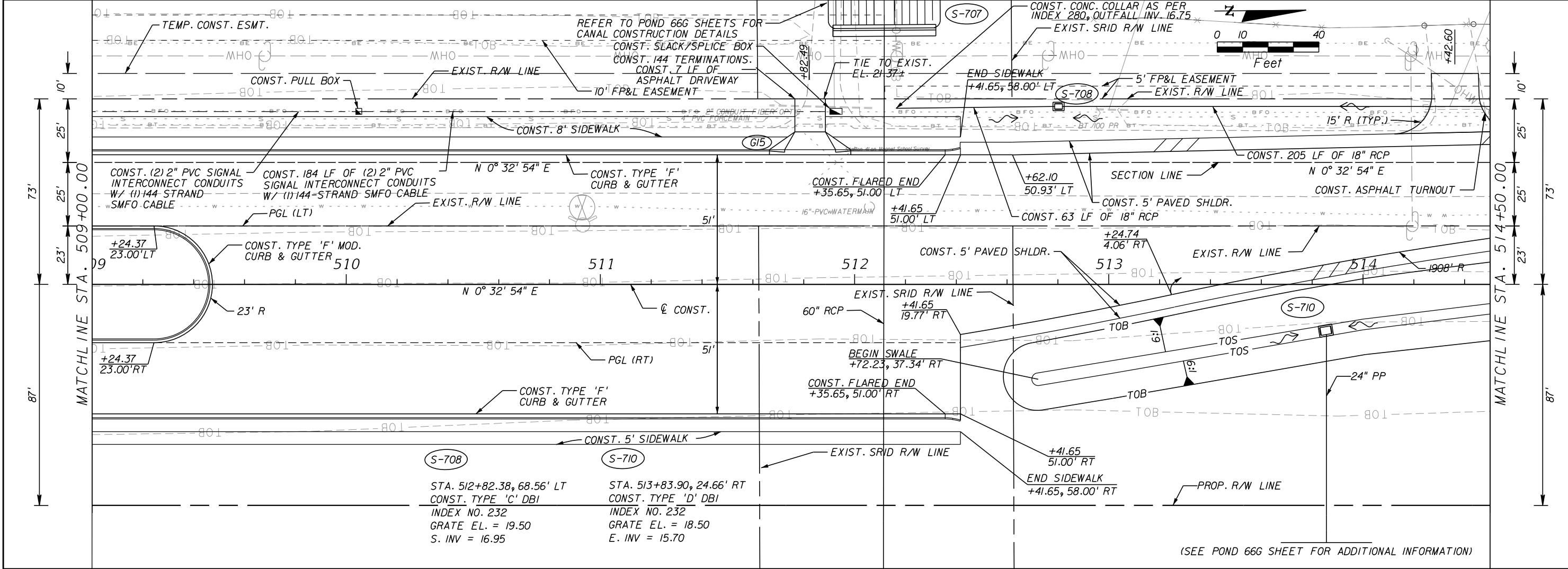


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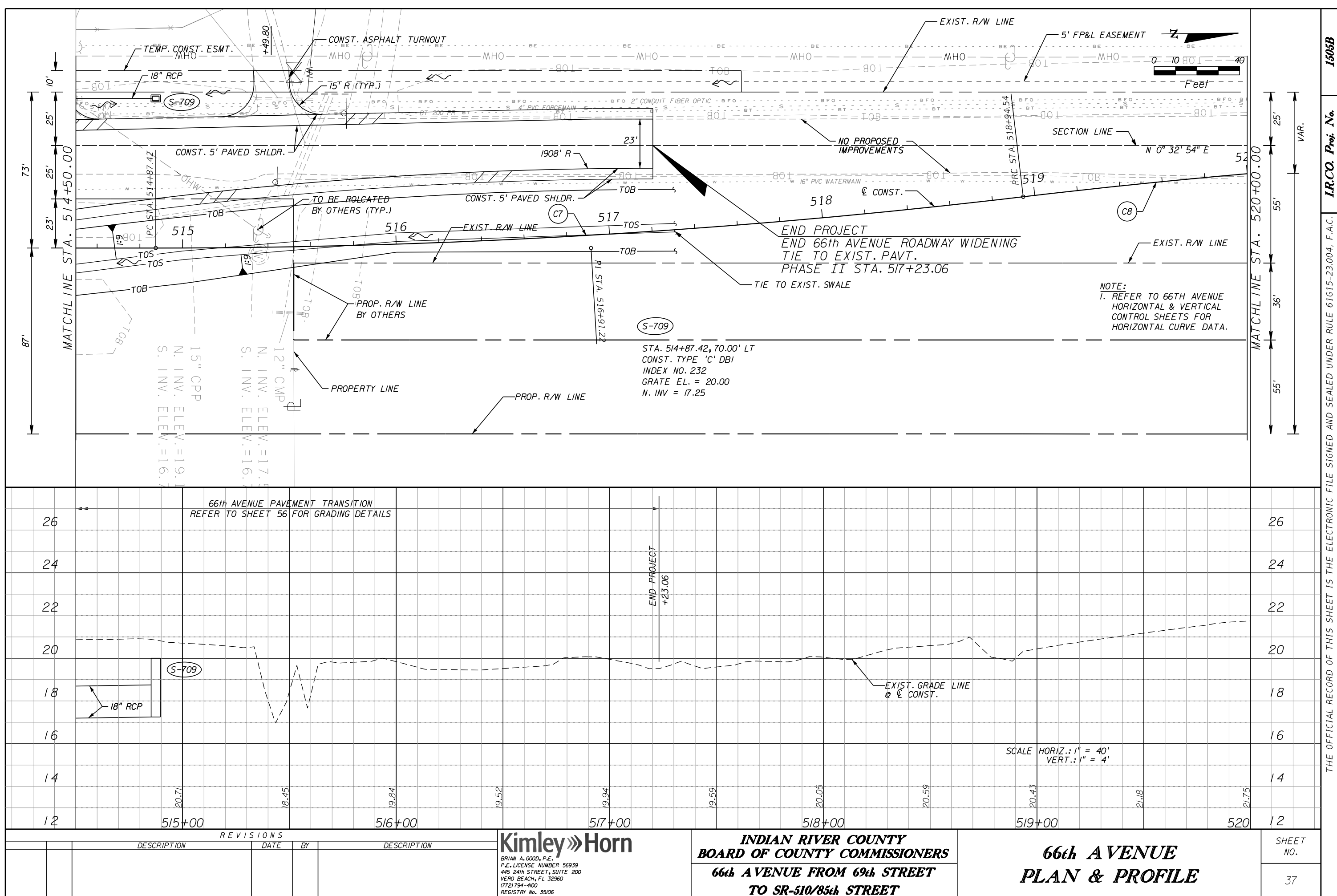
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DESCRIPTION	DATE	BY	DESCRIPTION				

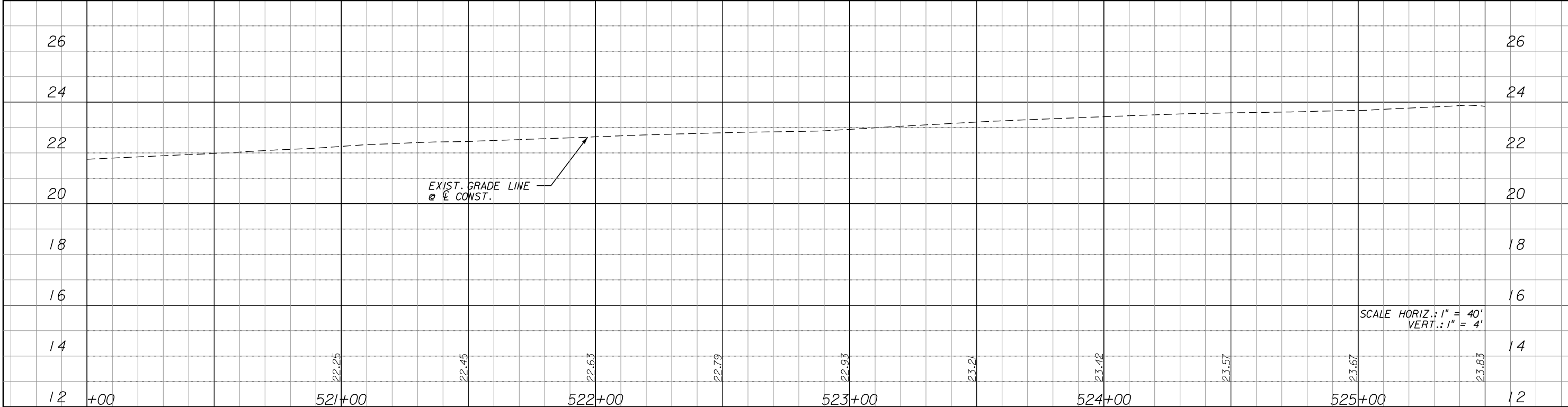
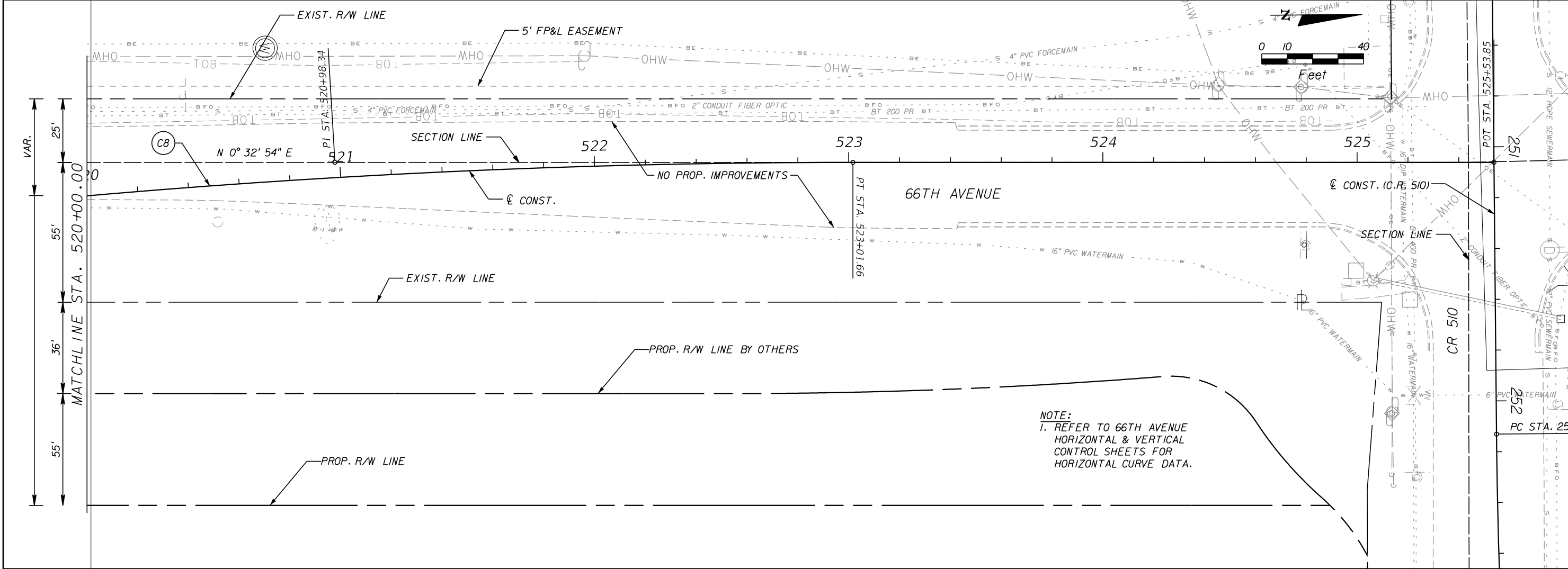
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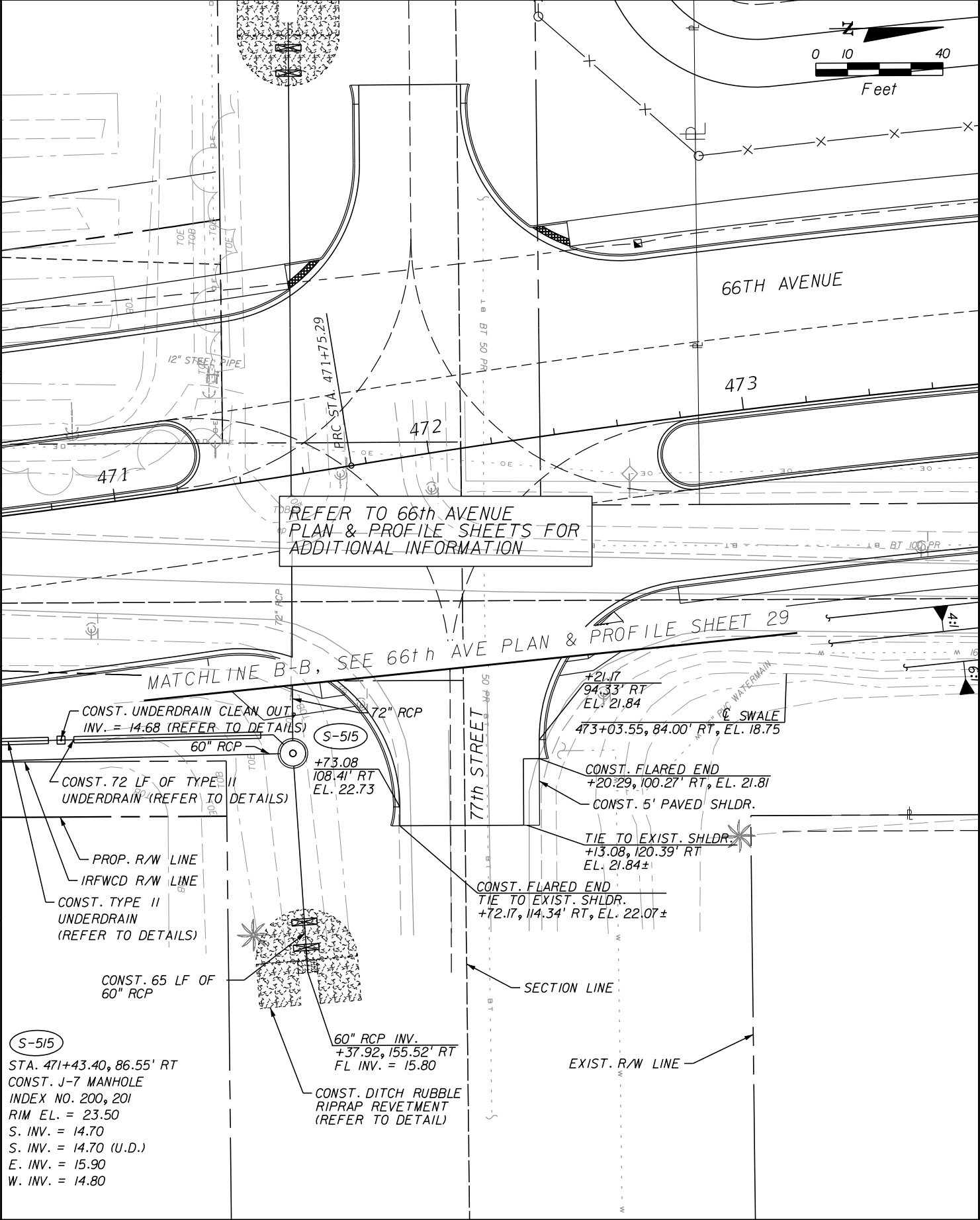
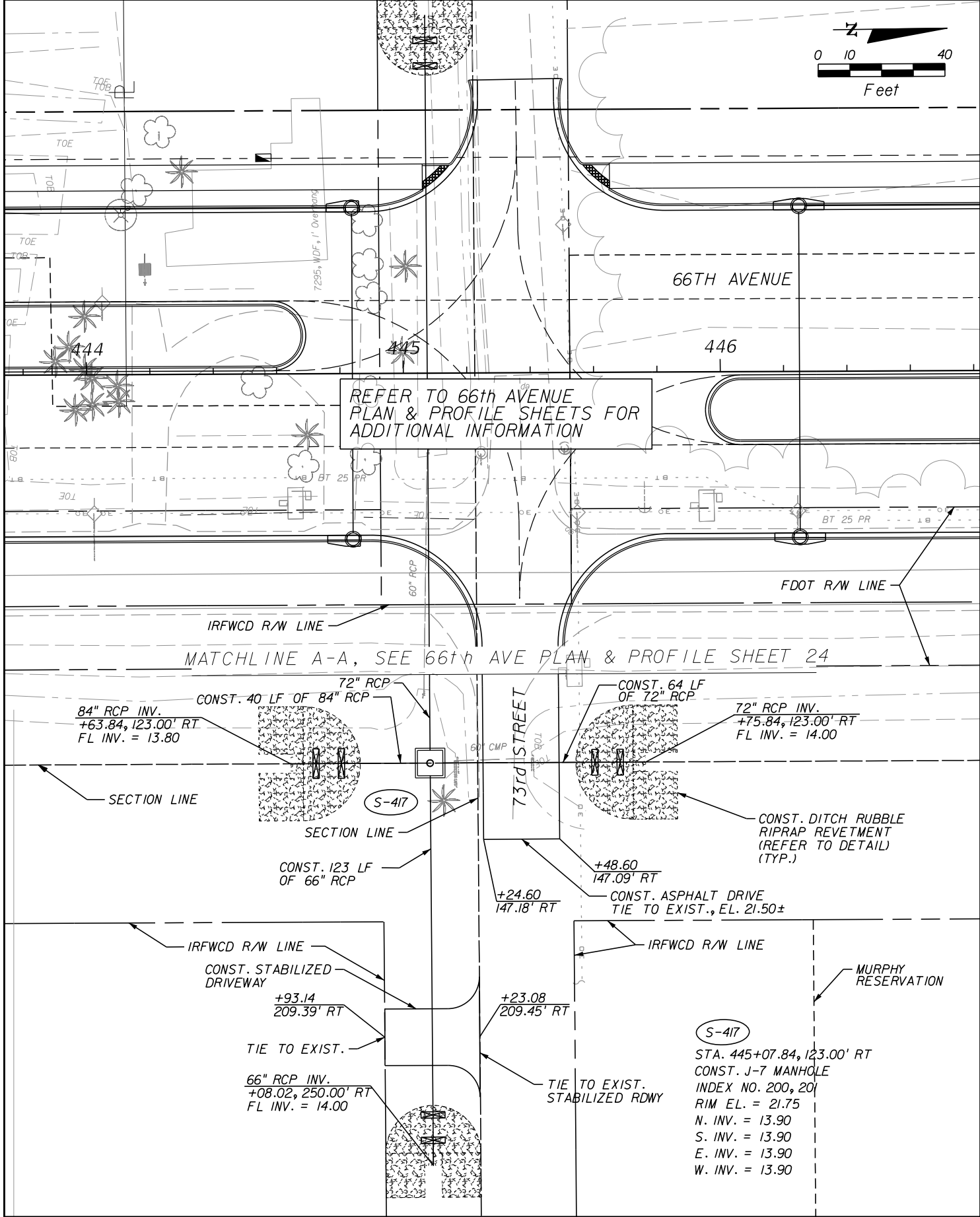




REVISIONS					Kimley»Horn	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS	66th AVENUE PLAN & PROFILE	SHEET NO.
DESCRIPTION	DATE	BY	DESCRIPTION					
					BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106	66th AVENUE FROM 69th STREET TO SR-510/85th STREET		38

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

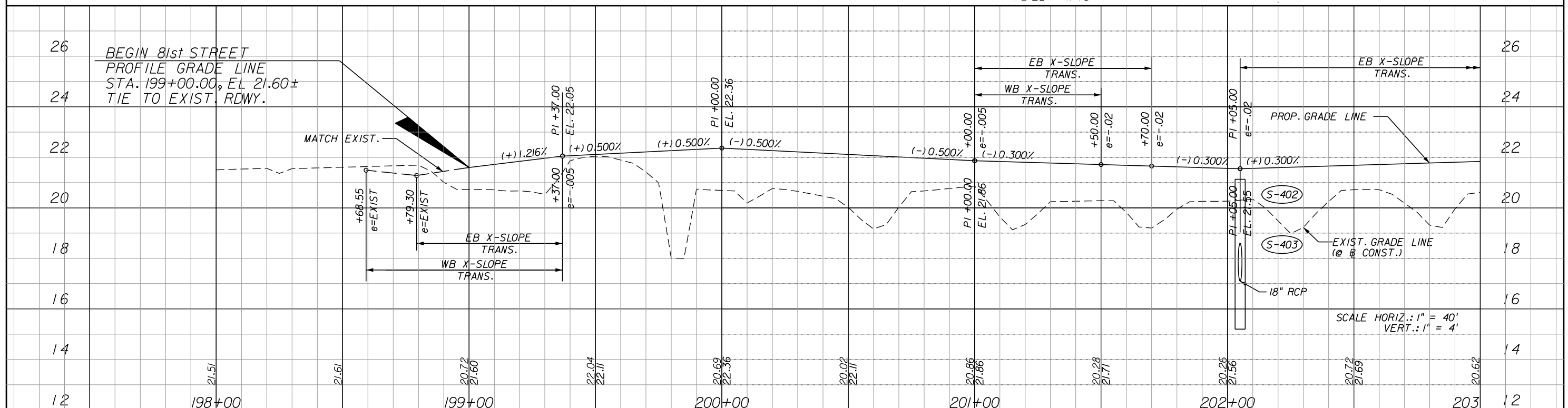
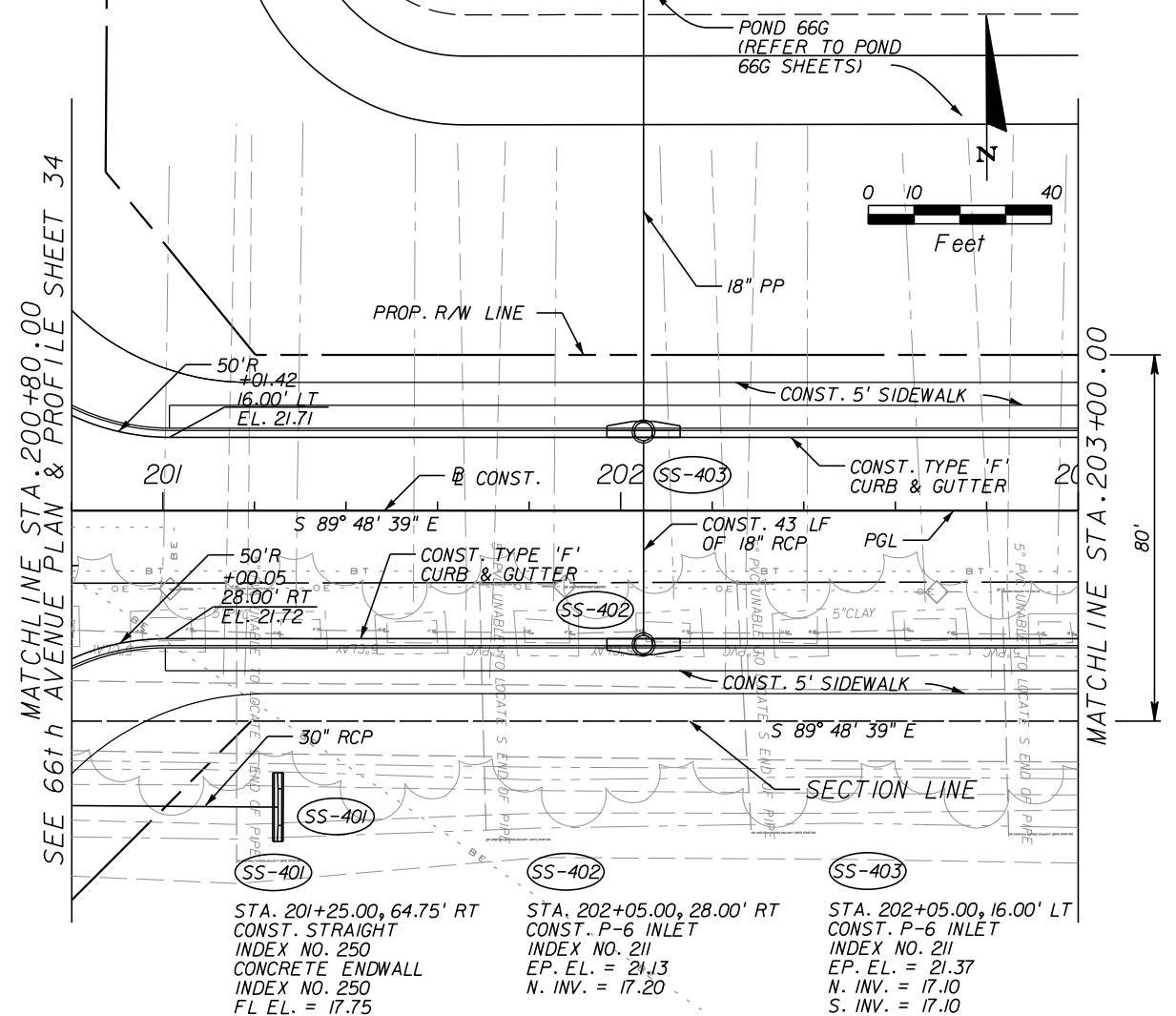
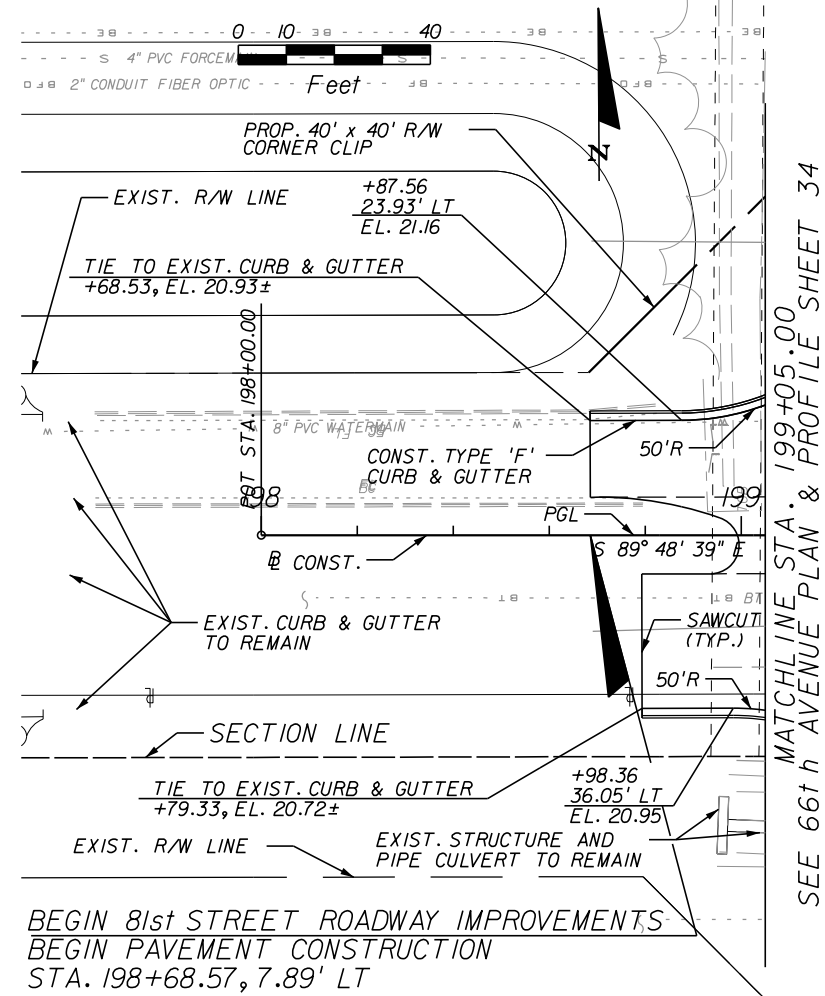
IR.CO. Proj. No. 1505B



REVISIONS					Kimley»Horn		INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS		73rd / 77th STREET PLAN		SHEET NO.
NO.	DESCRIPTION	DATE	BY	DESCRIPTION							
					BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106		66th AVENUE FROM 69th STREET TO SR-510/85th STREET				39

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IRCO Proj. No. 1505B



REVISIONS					
		DESCRIPTION	DATE	BY	DESCRIPTION

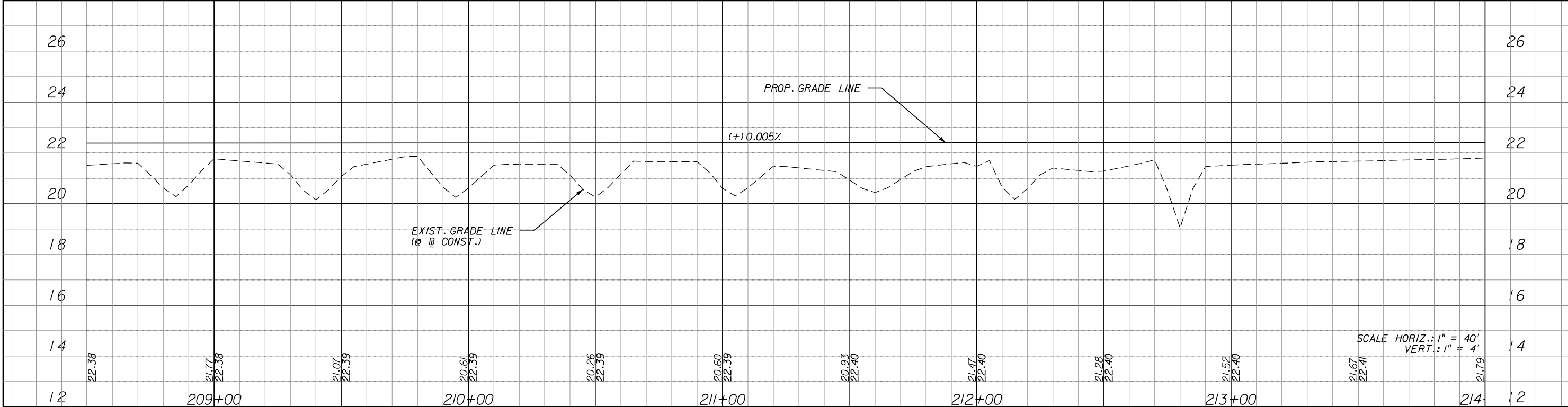
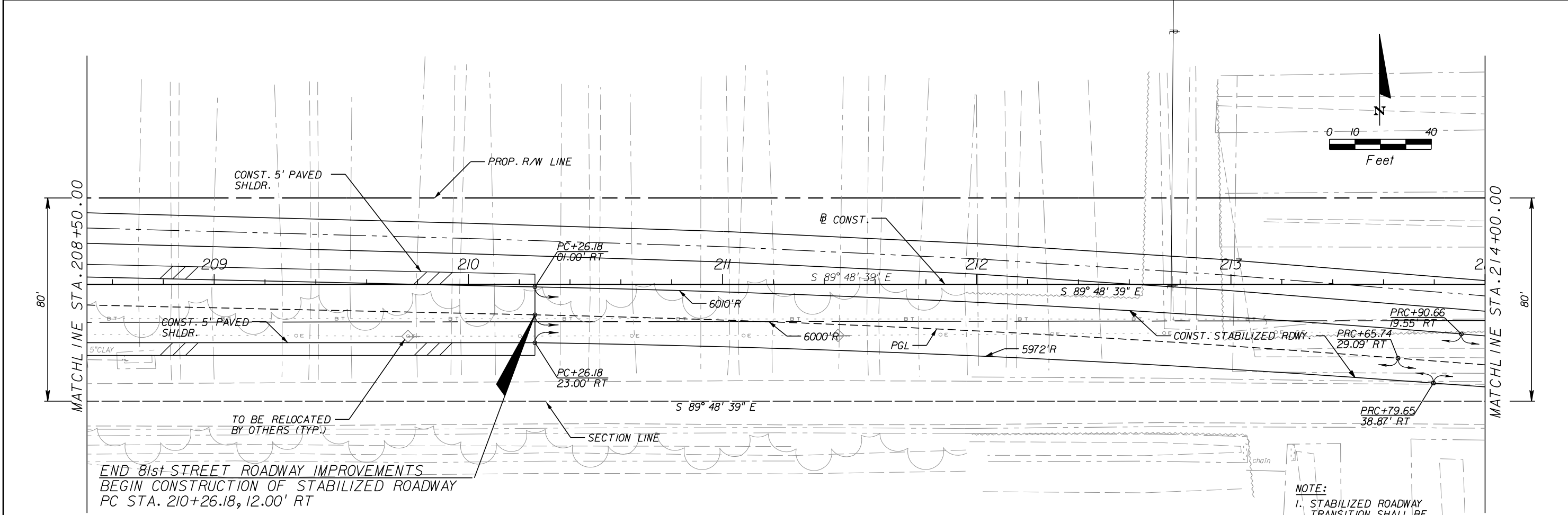
Kimley»Horn

BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 35106

**INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS**
**66th AVENUE FROM 69th STREET
TO SR-510/85th STREET**

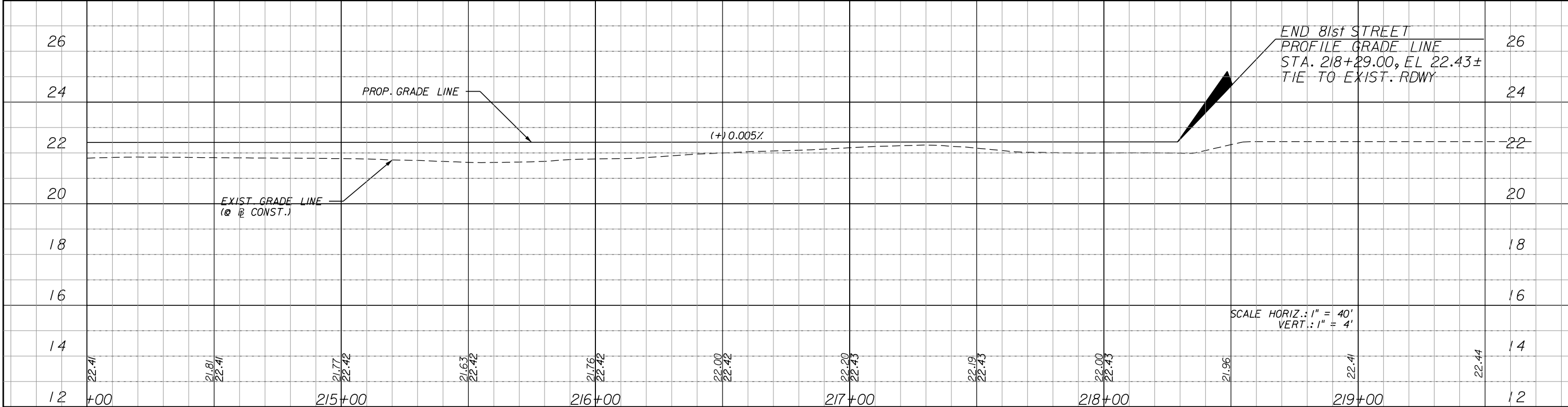
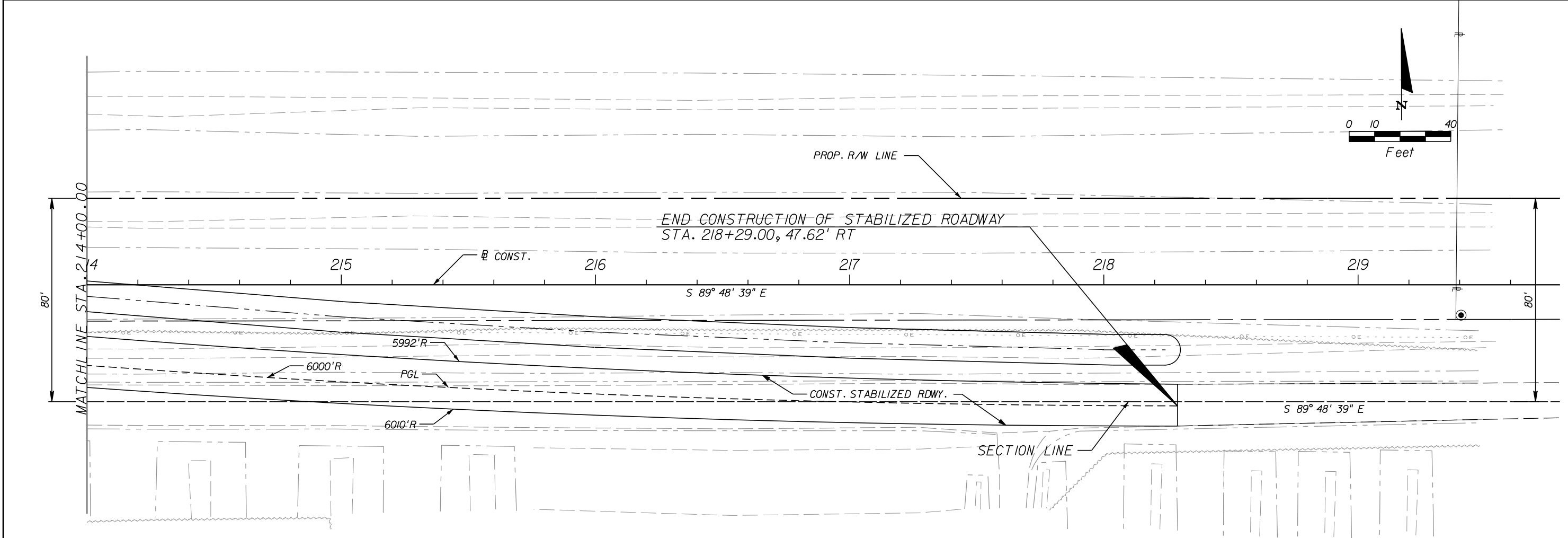
**81st STREET
PLAN & PROFILE**

SHEET
NO.
40



REVISIONS				Kimley»Horn		INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS		81st STREET PLAN & PROFILE		SHEET NO. 42	
DESCRIPTION	DATE	BY	DESCRIPTION								
				BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106		66th AVENUE FROM 69th STREET TO SR-510/85th STREET					

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REVISIONS				Kimley»Horn		INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS		81st STREET PLAN & PROFILE		SHEET NO.	
DESCRIPTION	DATE	BY	DESCRIPTION							43	
				BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106		66th AVENUE FROM 69th STREET TO SR-510/85th STREET					

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

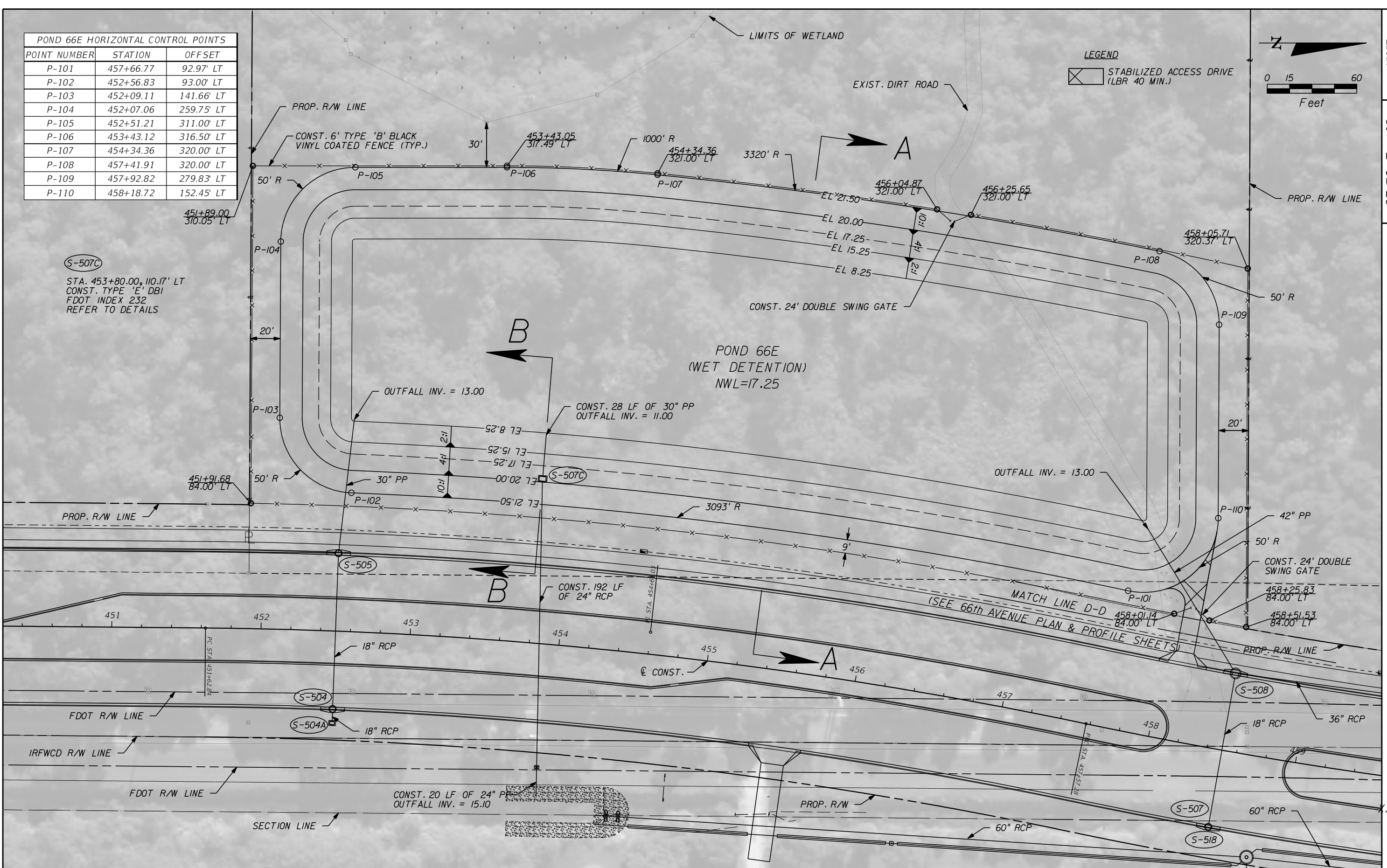
1505B

IR.CO. Proj. No.

POND 66E HORIZONTAL CONTROL POINTS		
POINT NUMBER	STATION	OFFSET
P-101	457+66.77	92.97' LT
P-102	452+56.83	93.00' LT
P-103	452+09.11	141.66' LT
P-104	452+07.06	259.75' LT
P-105	452+51.21	311.00' LT
P-106	453+43.12	316.50' LT
P-107	454+34.36	320.00' LT
P-108	457+41.91	320.00' LT
P-109	457+92.82	279.83' LT
P-110	458+18.72	152.45' LT

S-507C

STA. 453+80.00, 110.17' LT
CONST. TYPE 'E' DBI
FDOT INDEX 232
REFER TO DETAILS



REVISIONS				
	DESCRIPTION	DATE	BY	DESCRIPTION

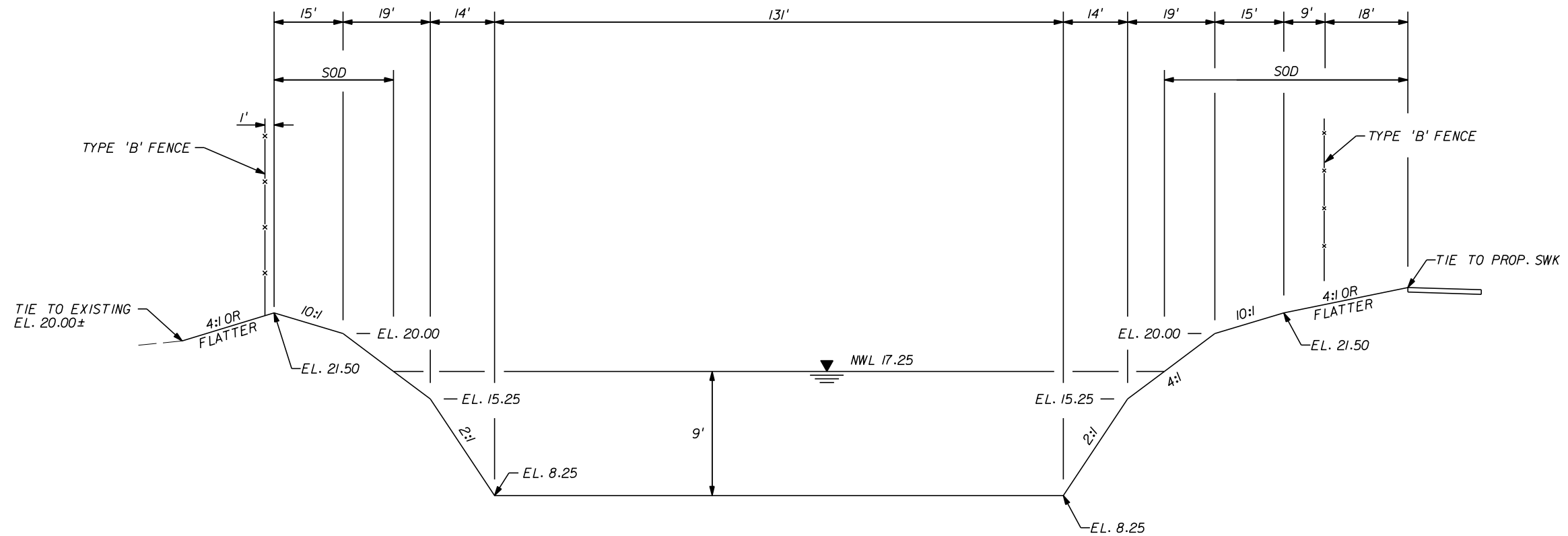
Kimley»Horn
BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 35106

**INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS**
**66th AVENUE FROM 69th STREET
TO SR-510/85th STREET**

POND 66E

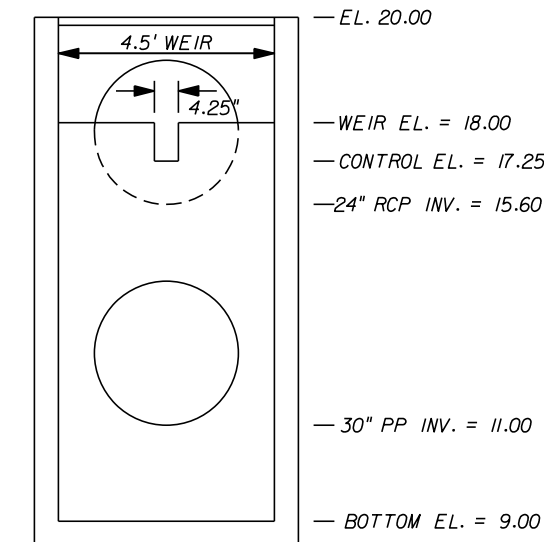
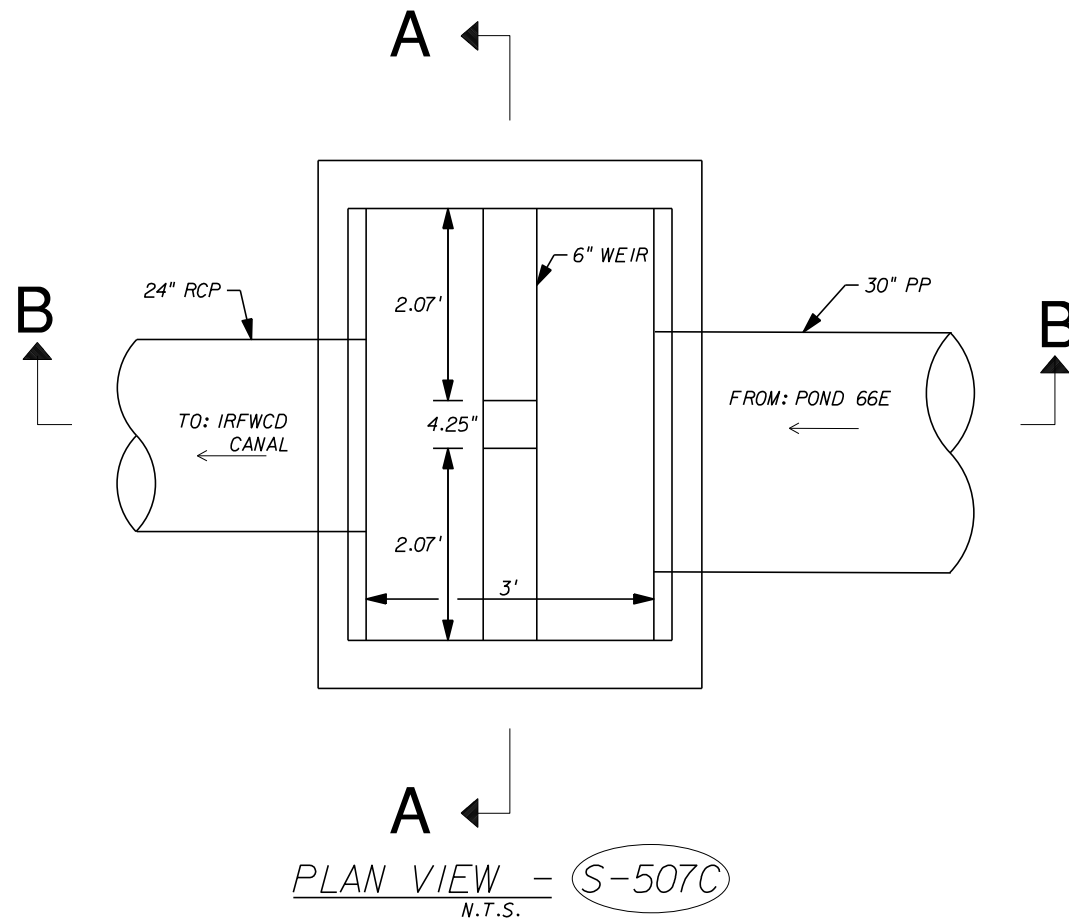
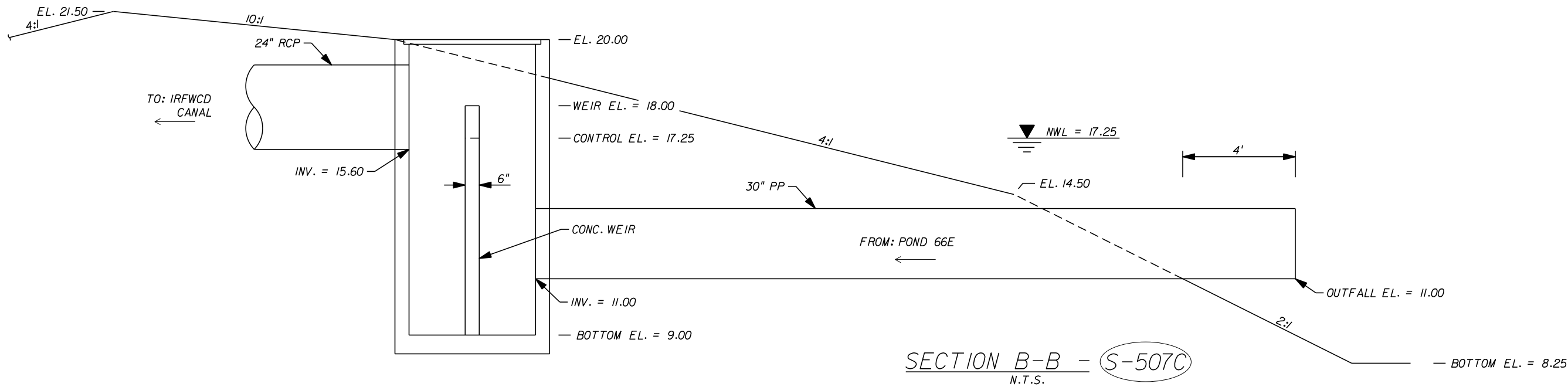
SHEET NO.
44

1505B
IR.CO. Proj. No.
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



POND 66E SECTION A-A
N.T.S.

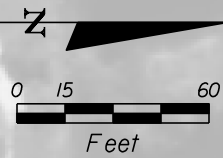
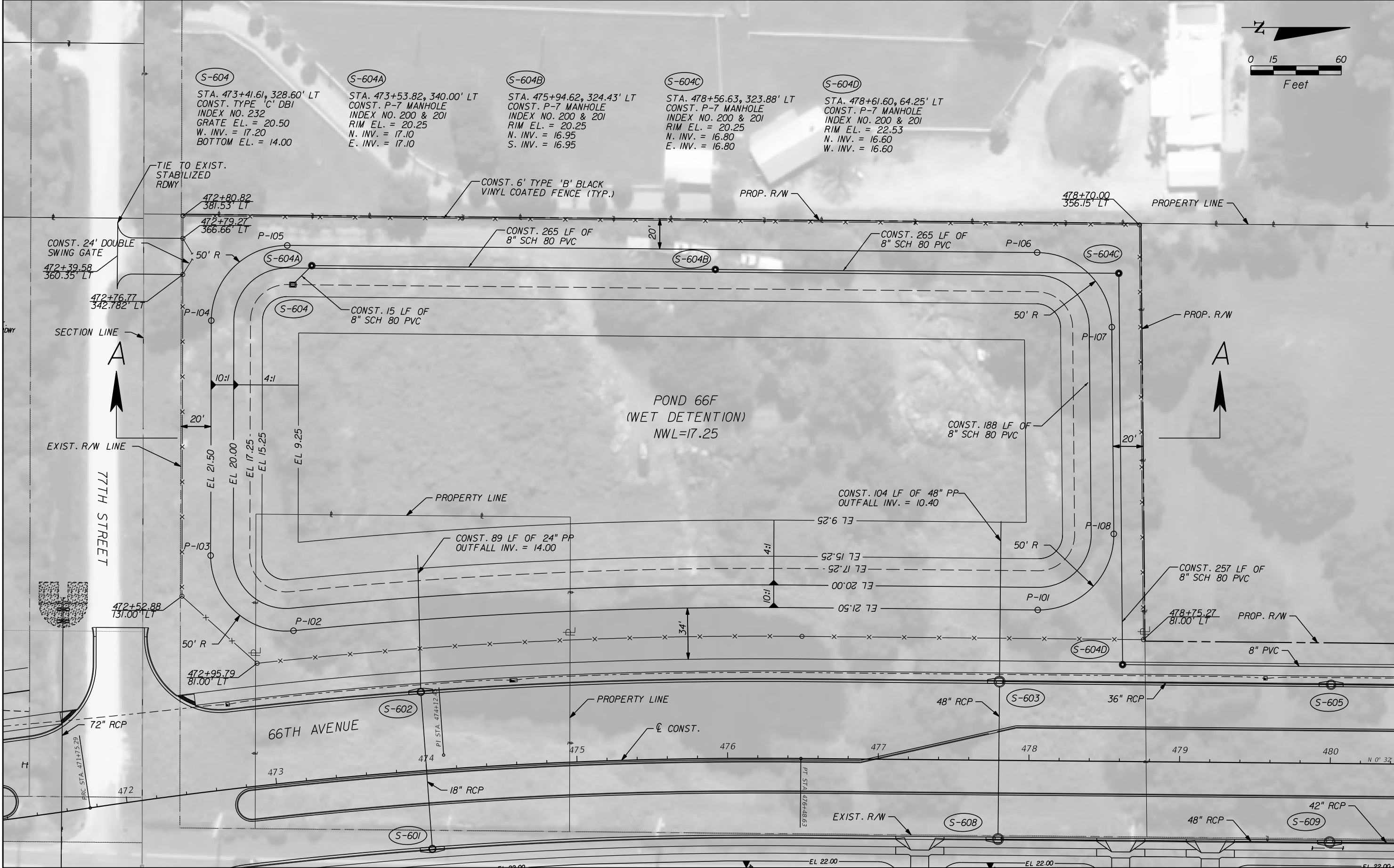
REVISIONS					Kimley»Horn <small>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106</small>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	POND 66E	SHEET NO.	
		DESCRIPTION	DATE	BY				DESCRIPTION	45



POND 66E CONTROL STRUCTURE DATA:

STR. NO.	STRUCTURE TYPE	STATION	OFFSET	GRATE EL	WEIR	E. INV.	W. INV.	BOTTOM EL
S-507C	TYPE 'E' DBI	453+80.00	110.17' LT	20.00	WIDTH = 4.5' ELEV. = 18.00	15.60	11.00	9.00

REVISIONS					Kimley»Horn BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	POND 66E		SHEET NO.
DESCRIPTION	DATE	BY	DESCRIPTION						46

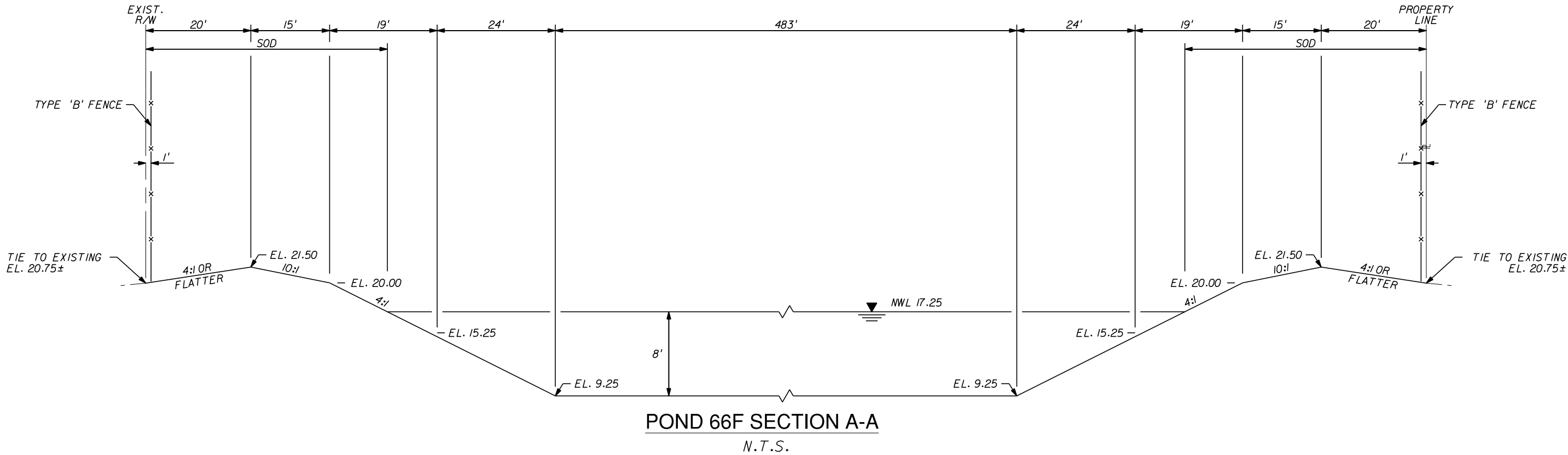


REVISIONS				Kimley»Horn	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	POND 66F	SHEET NO. 47
DESCRIPTION	DATE	BY	DESCRIPTION				

BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 35106

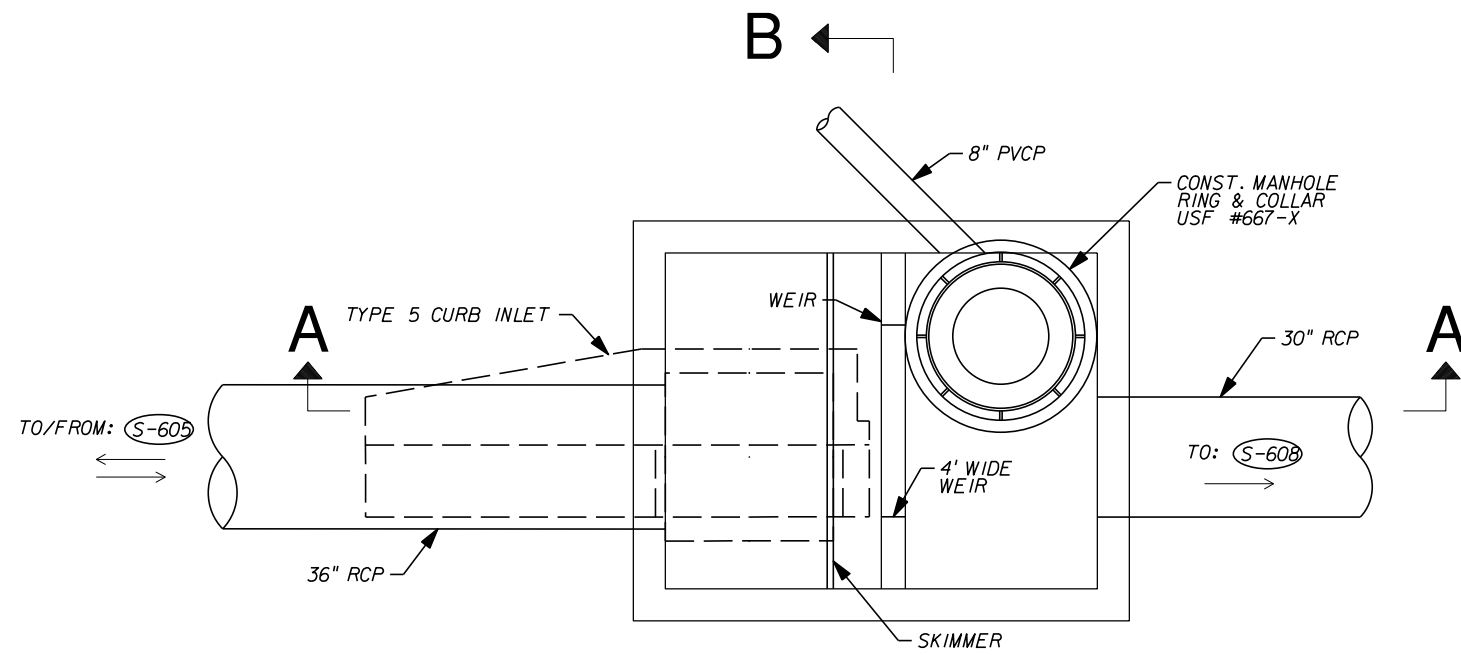
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1505B
IR.CO. Proj. No.
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

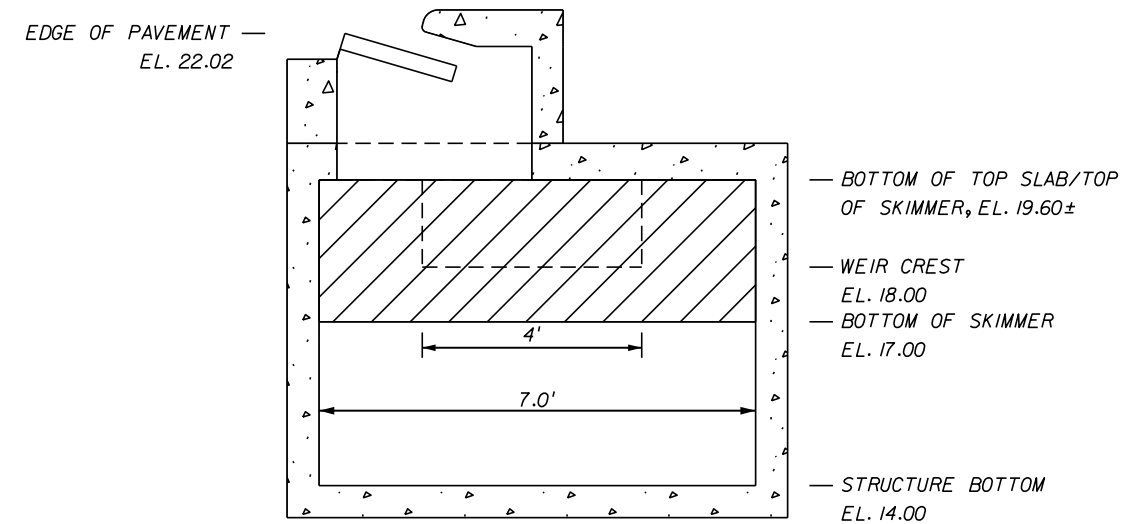


REVISIONS						Kimley»Horn <small>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106</small>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	POND 66F	SHEET NO.
		DESCRIPTION	DATE	BY	DESCRIPTION				48

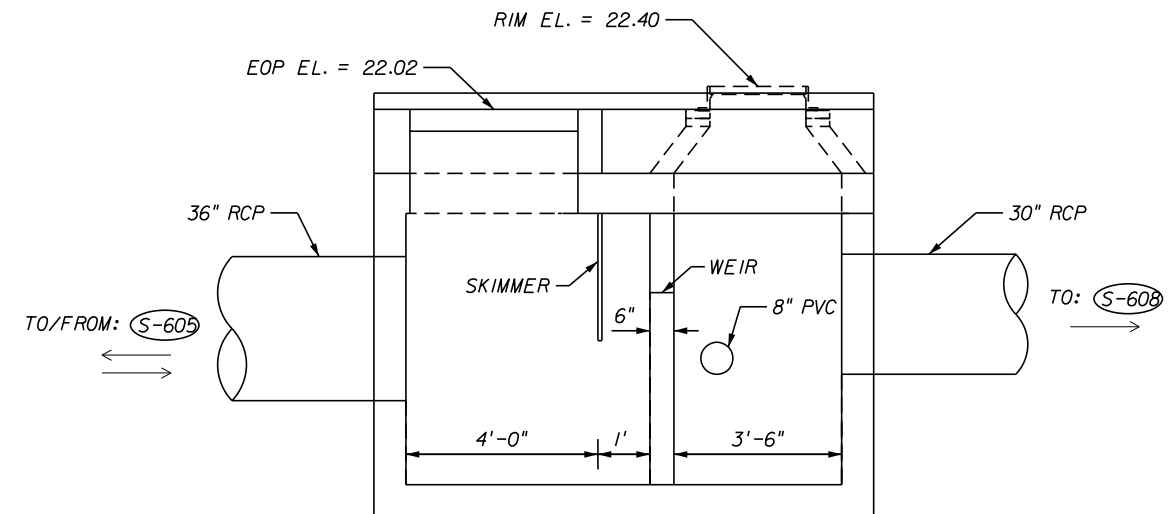
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



PLAN VIEW - S-606
N.T.S.



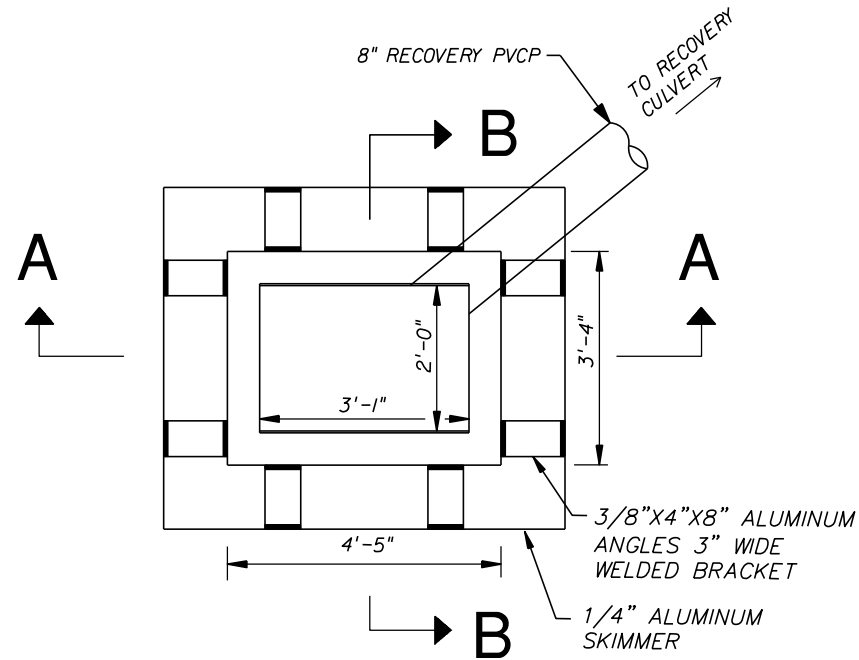
SECTION B-B - S-606
N.T.S.



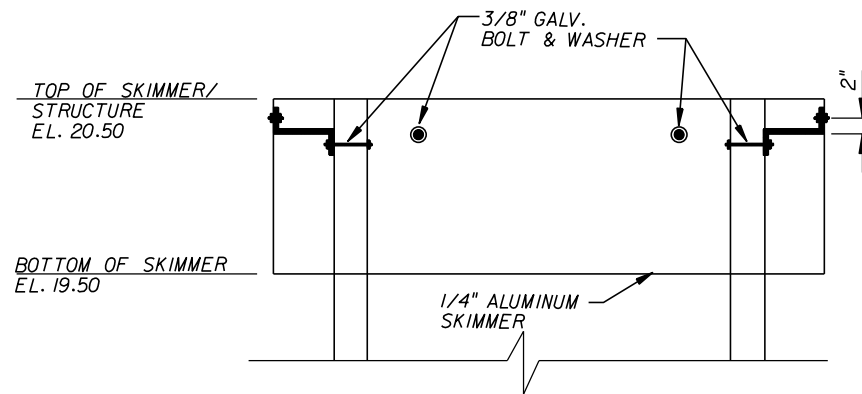
SECTION A-A - S-606
N.T.S.

POND 66F CONTROL STRUCTURE DATA:

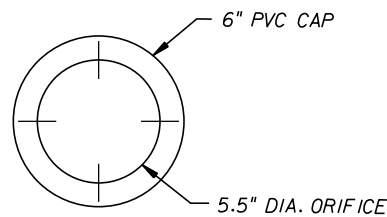
STR. NO.	STRUCTURE TYPE	STATION	OFFSET	EOP EL.	WEIR	N. INV.	S. INV.	W. INV.	BOTTOM EL.
S-606	J-5 CURB INLET & TYPE 7 MANHOLE TOP	484+00.00	LT	22.02	WIDTH = 4.0' ELEV. = 18.00	16.30	15.75	16.30	14.00



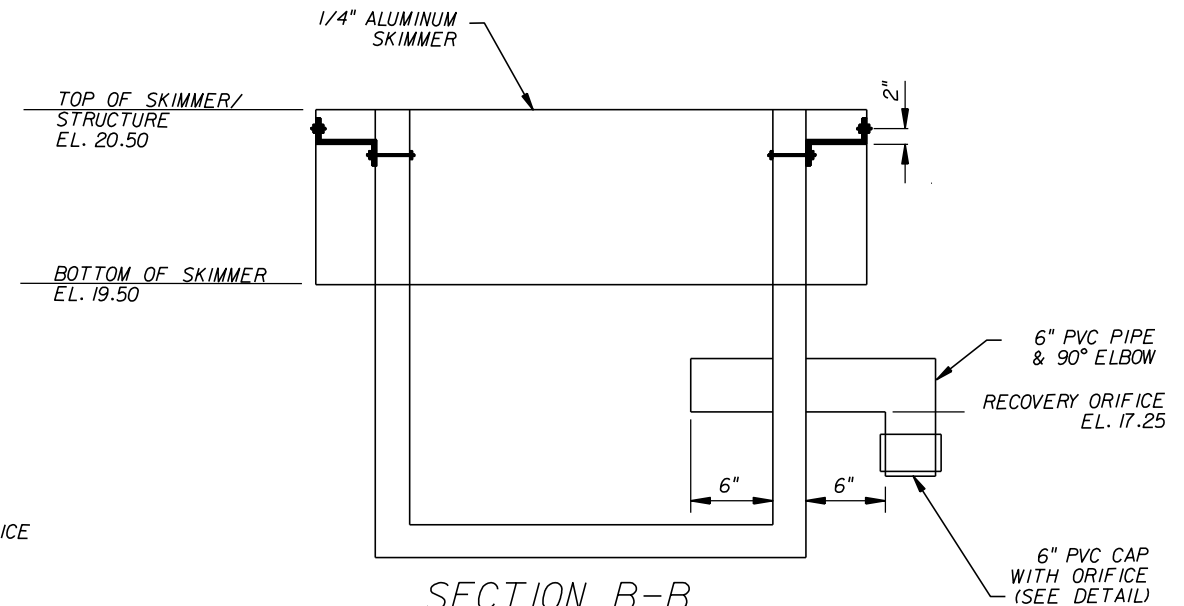
PLAN VIEW - S-604
N.T.S.



SECTION A-A
N.T.S.

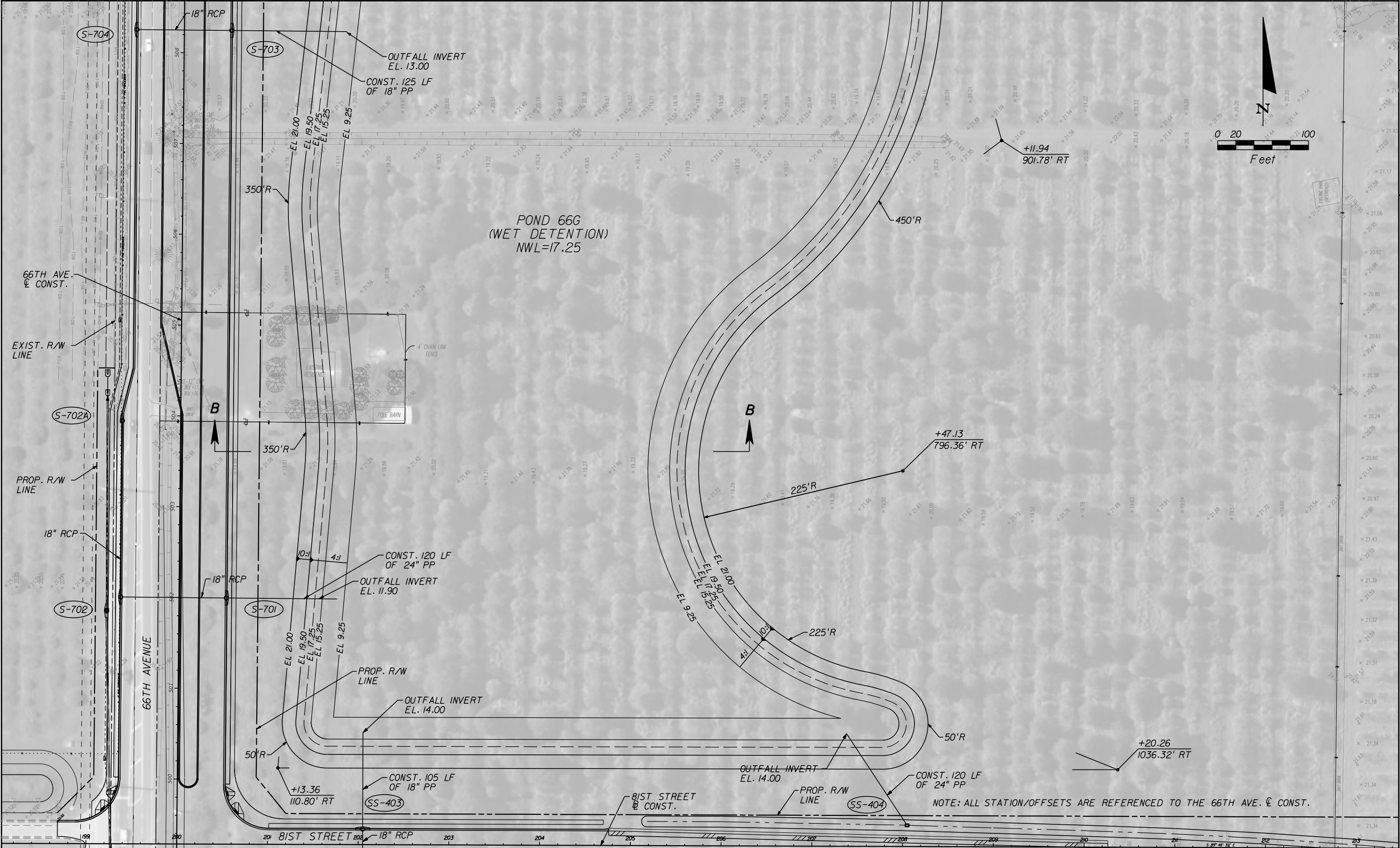


ORIFICE DETAIL
N.T.S.



SECTION B-B
N.T.S.

REVISIONS					Kimley»Horn	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	POND 66F	SHEET NO. 49A
DESCRIPTION	DATE	BY	DESCRIPTION					
					BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106			



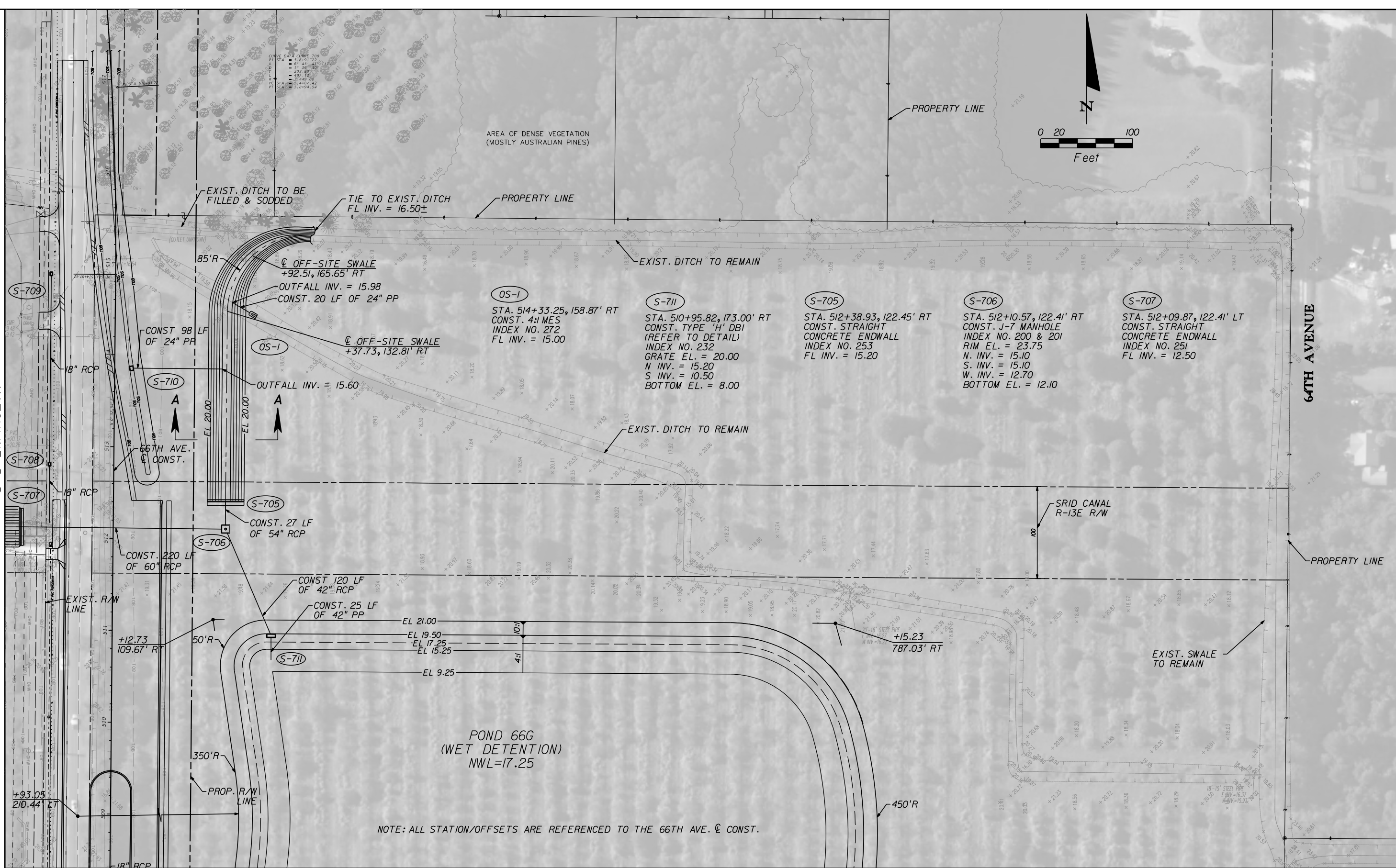
REVISIONS			
DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 35106

**INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS**
**66th AVENUE FROM 69th STREET
TO SR-510/85th STREET**

POND 66G

SHEET NO.
50



NOTE: ALL STATION/OFFSETS ARE REFERENCED TO THE 66TH AVE. @ CONST.

REVISIONS					Kimley»Horn BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	POND 66G	SHEET NO.
		DESCRIPTION	DATE	BY				DESCRIPTION

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<i>I.R.CO. Proj. No.</i>	<i>1505B</i>
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1505B



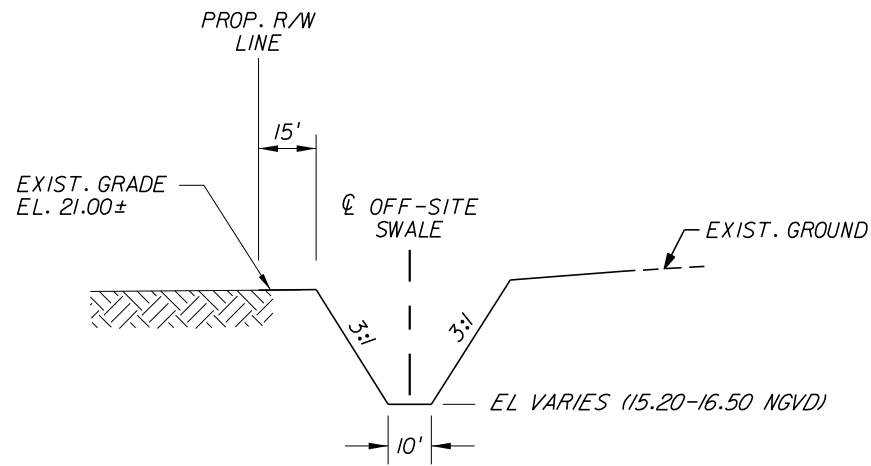
REVISIONS				
	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 35106

**INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS**
**66th AVENUE FROM 69th STREET
TO SR-510/85th STREET**

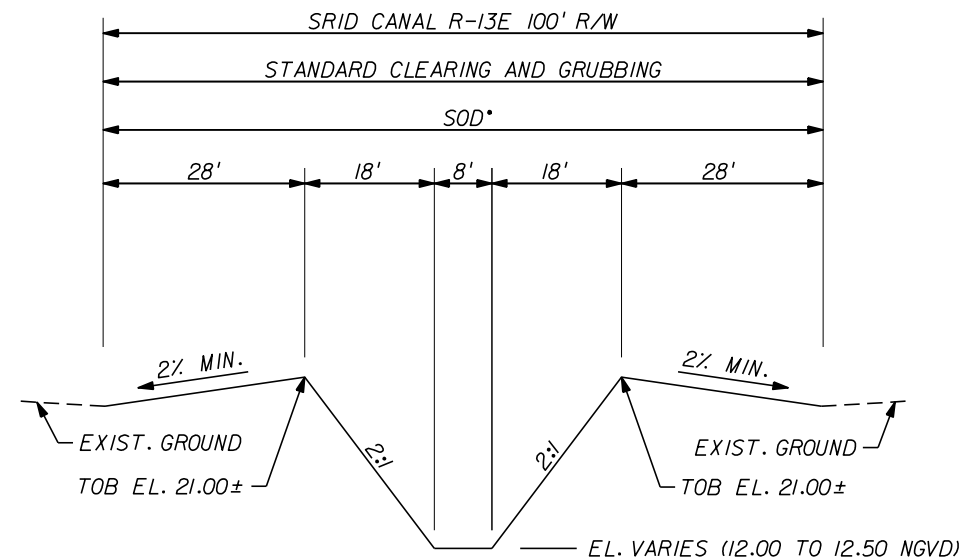
POND 66G

SHEET NO.
52



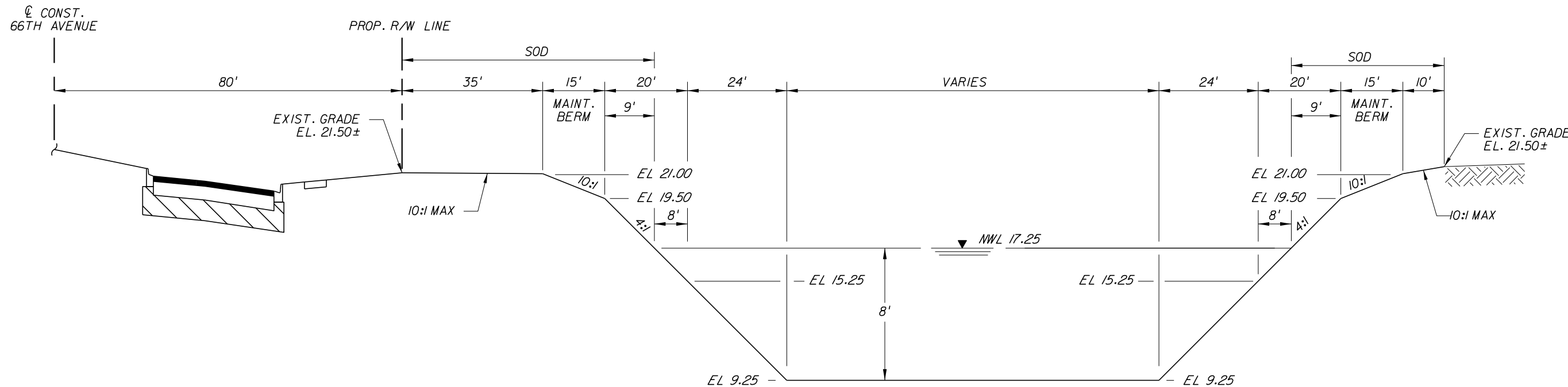
SECTION A-A
N.T.S.

NOTES:
1. REFER TO POND 66G PLAN LAYOUT FOR
ADDITIONAL INFORMATION REGARDING VERTICAL
AND HORIZONTAL CONTROL.



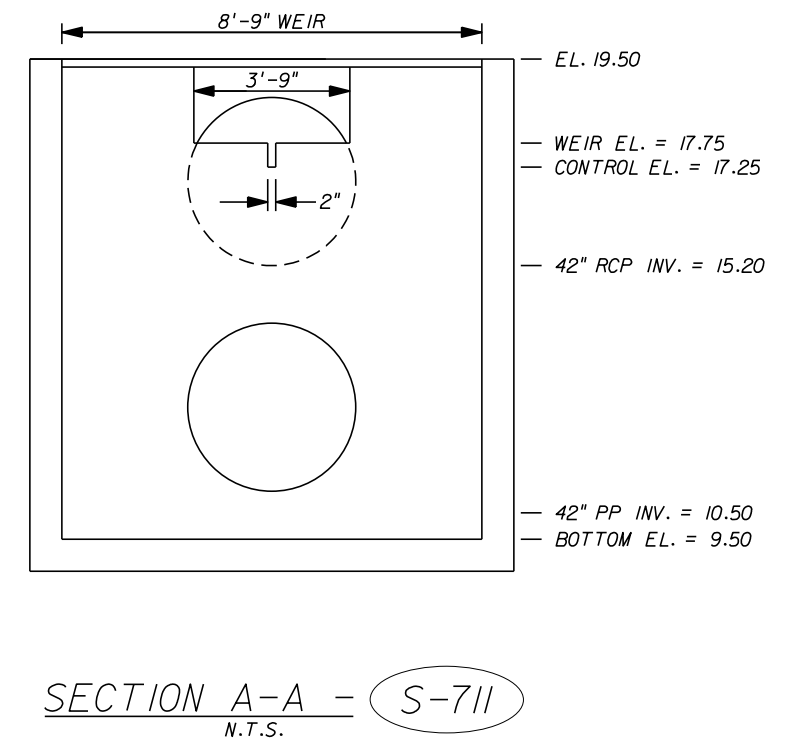
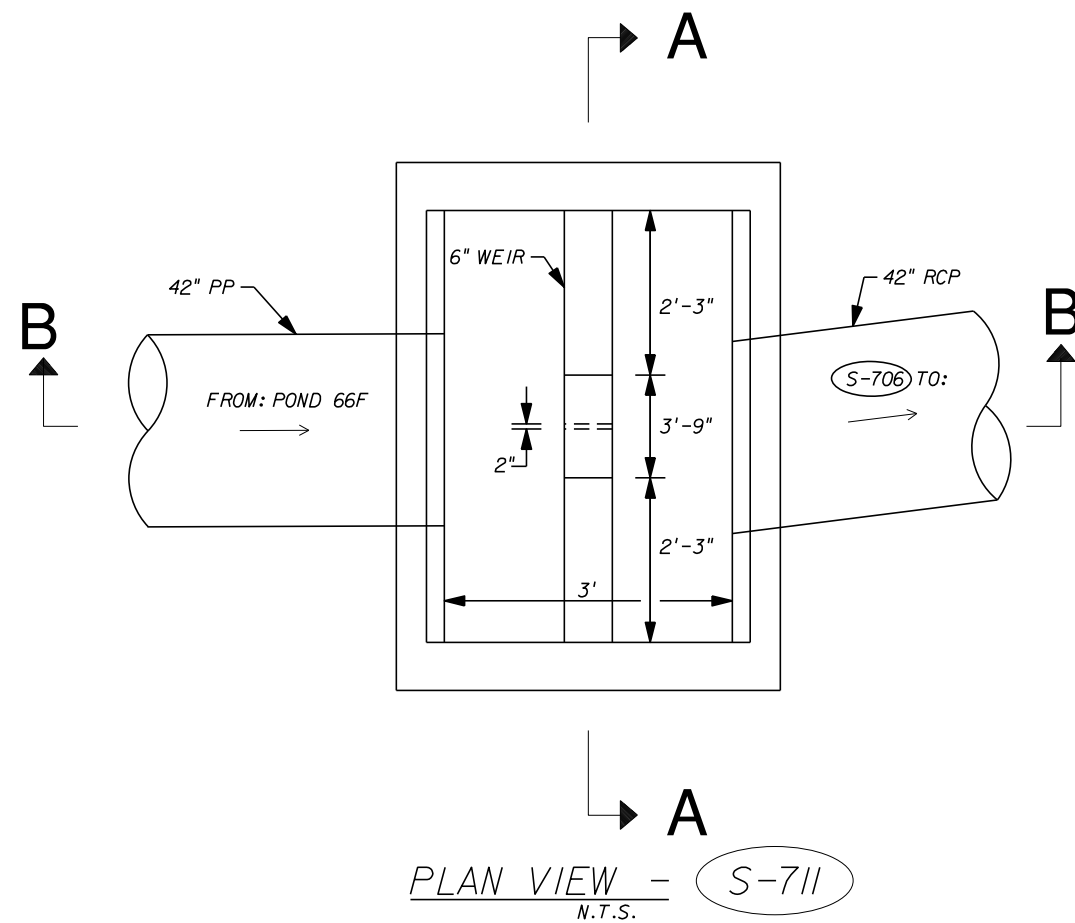
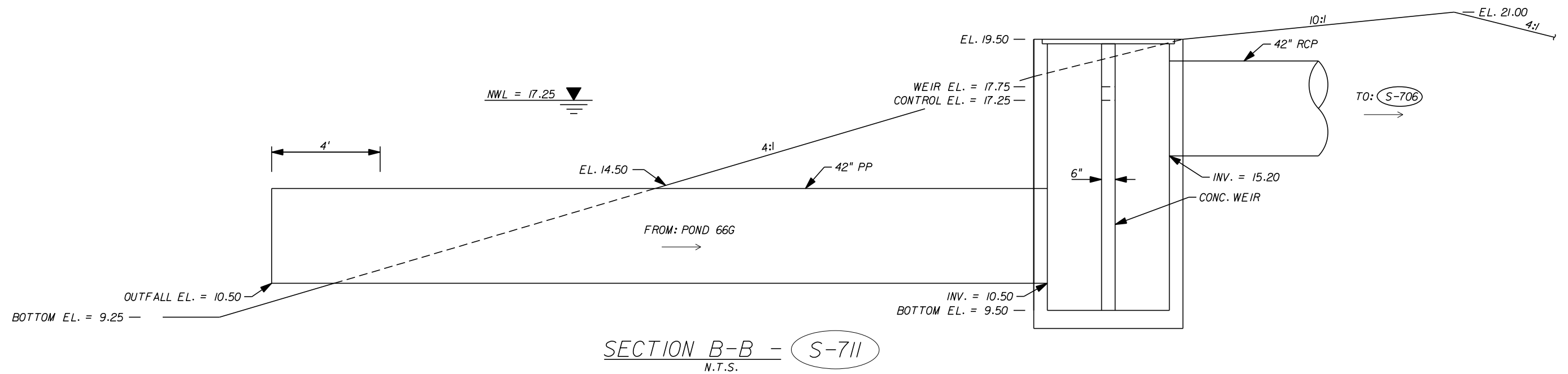
SRID CANAL R-13E SECTION C-C
N.T.S.

NOTES:
1) ALL SOD PLACED ON 2:1 SLOPE (OR GREATER)
SHALL BE PEGGED AS PER FDOT STANDARDS.



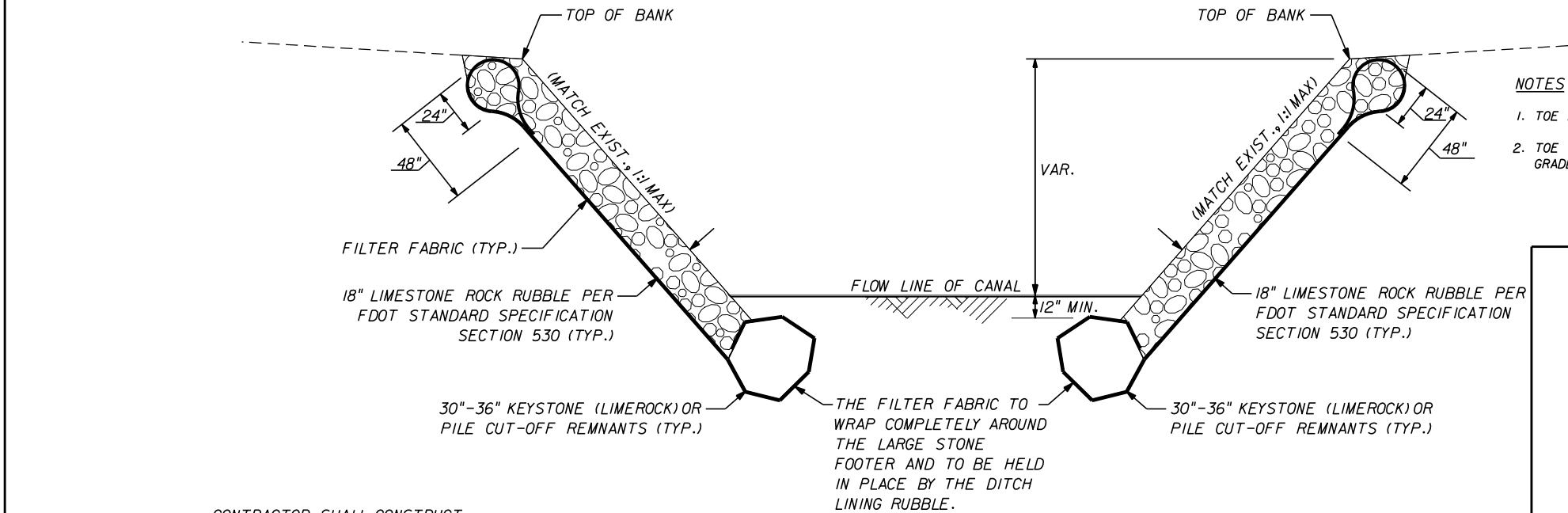
POND 66G SECTION B-B
N.T.S.

REVISIONS					 <small>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106</small>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	POND 66G	SHEET NO.
DESCRIPTION	DATE	BY	DESCRIPTION	53				

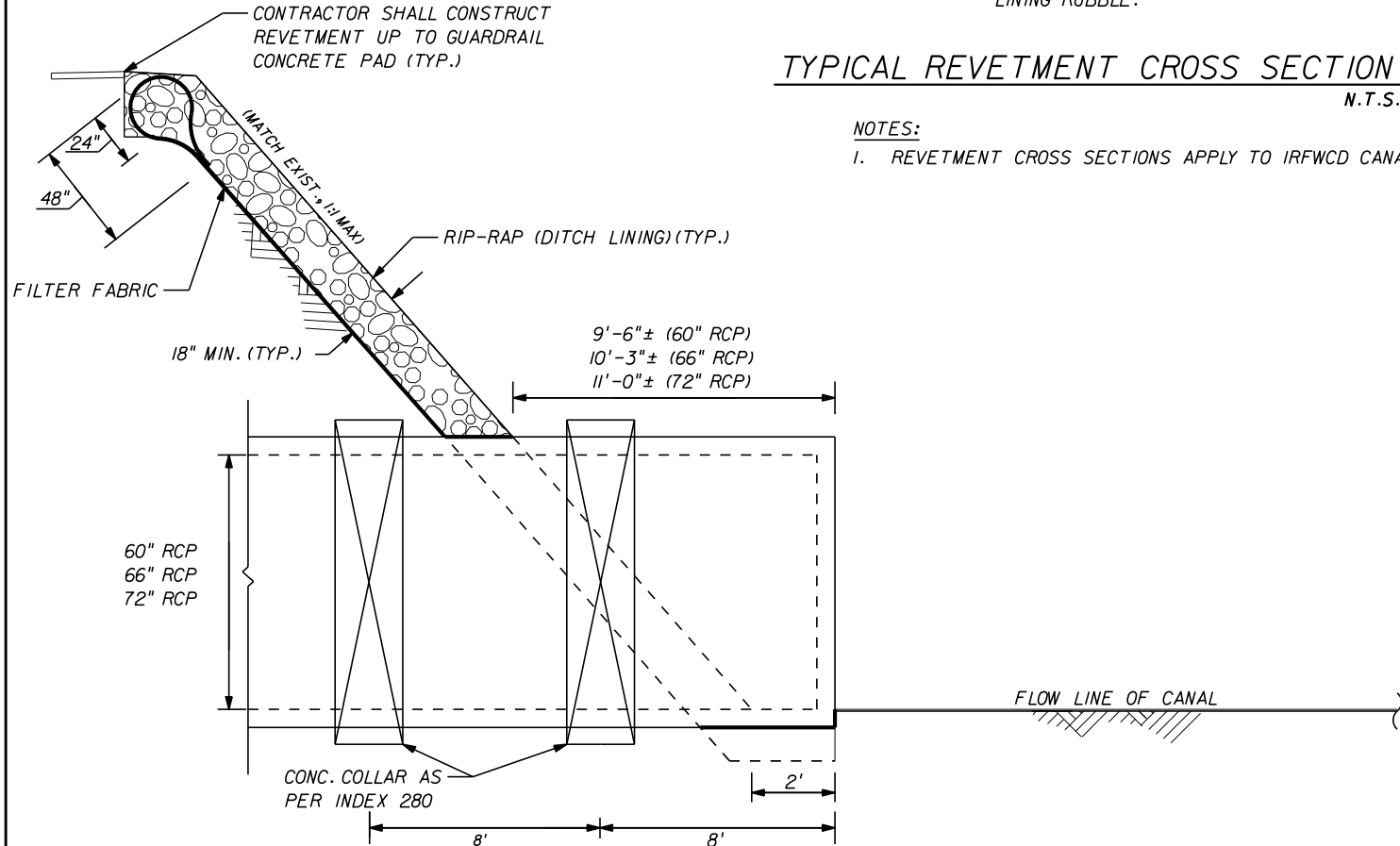


POND 66G CONTROL STRUCTURE DATA:

STR. NO.	STRUCTURE TYPE	STATION	OFFSET	GRATE EL	WEIR	E. INV.	W. INV.	BOTTOM EL
5-711	TYPE 'H' DBI	510+95.00	173.00' RT	19.50	WIDTH = 3'-9" ELEV. = 17.75	10.50	15.20	9.50



- NOTES**
1. TOE BOULDERS AND RUBBLE SIZED PER MATERIAL.
 2. TOE TO BE LAID WHERE INDICATED AND AT THE GRADES AS SHOWN ON THE PLANS.

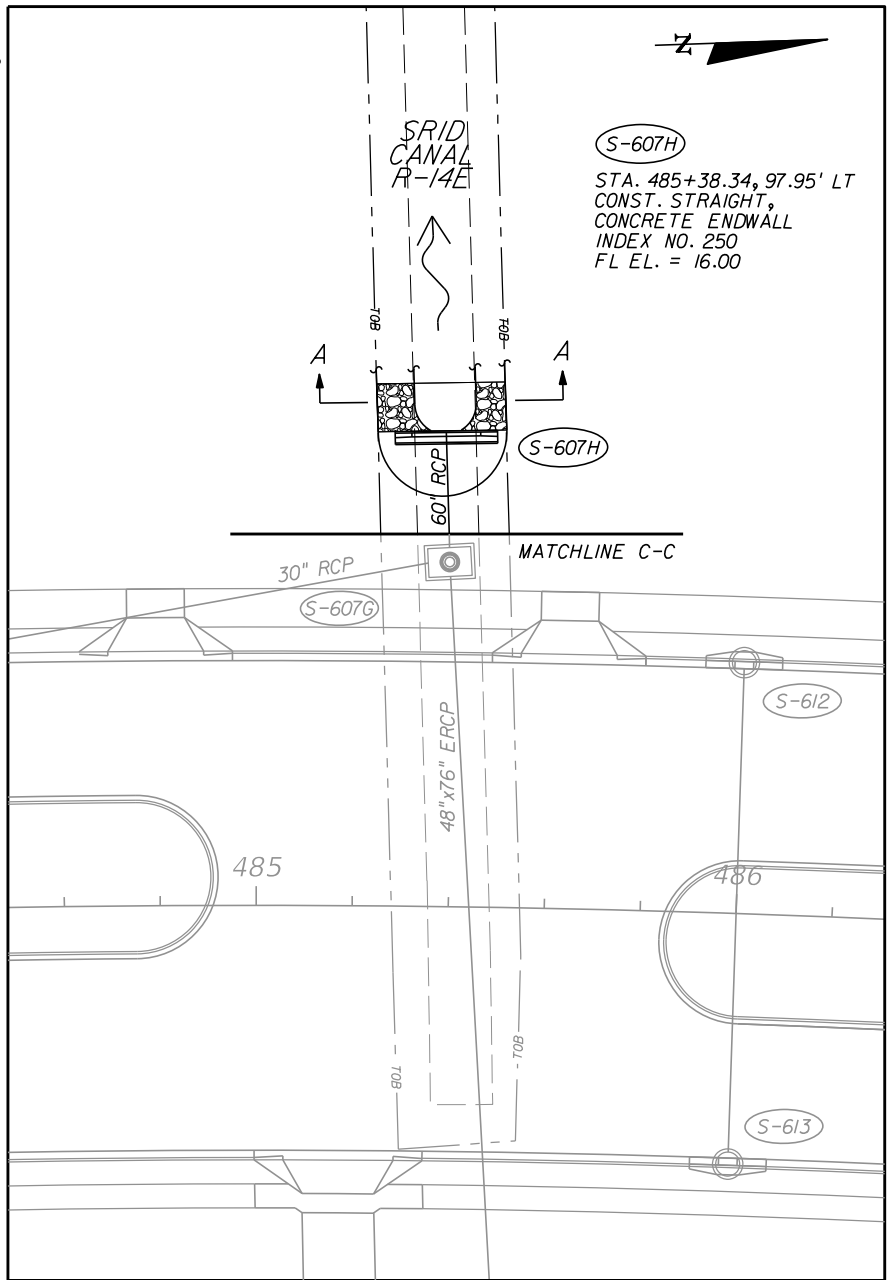


TYPICAL REVETMENT CROSS SECTION A-A
N.T.S.

- NOTES:**
1. REVETMENT CROSS SECTIONS APPLY TO IRFWCD CANALS AND SRID CANALS.

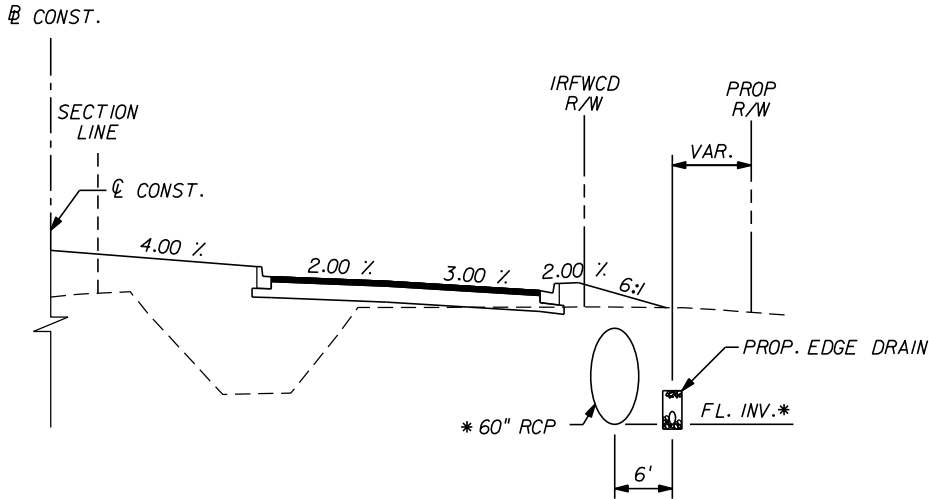
TYPICAL CULVERT REVETMENT DETAIL
N.T.S.

- NOTES:**
1. COST OF FILTER FABRIC TO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR RIP-RAP.
 2. RIP-RAP MATERIAL AND INSTALLATION SHALL BE IN ACCORDANCE WITH FDOT SECTION 530.



SRID CANAL R14-E DETAIL
N.T.S.

REVISIONS					Kimley»Horn <small>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106</small>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	DRAINAGE DETAILS		SHEET NO.
NO.	DESCRIPTION	DATE	BY	DESCRIPTION					55

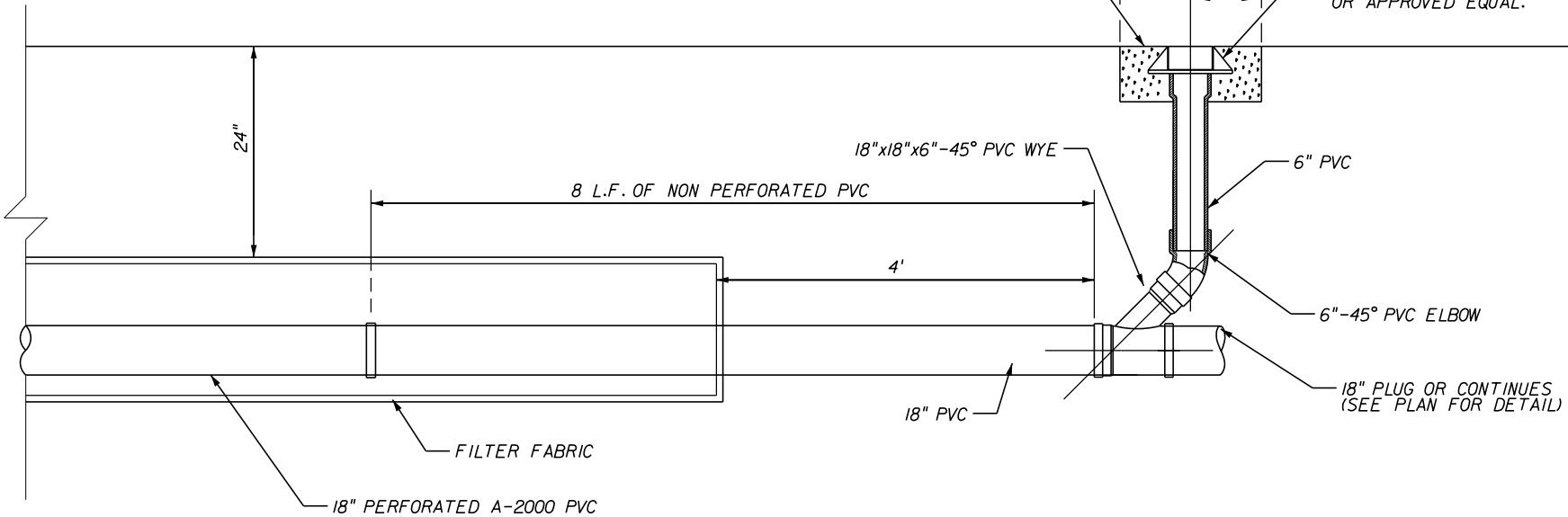
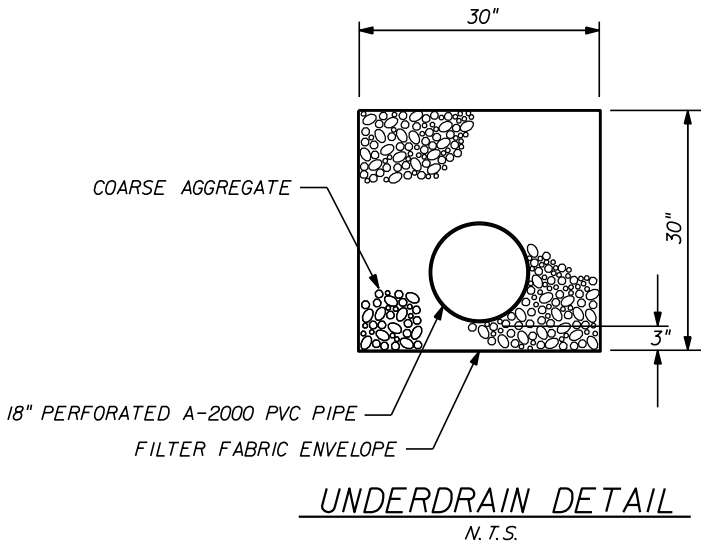


* - REFER TO PLAN & PROFILE SHEETS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION CONCERNING FL. INV. AND LOCATION.

UNDERDRAIN PLACEMENT DETAIL
N.T.S.

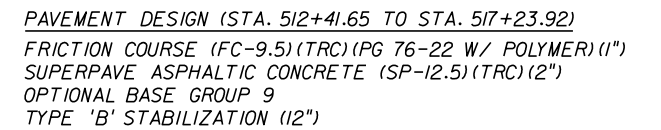
NOTE:
WYE FITTING TO CONSIST OF ADS DUAL WALL FABRICATED REDUCING WYE, 12" X 6"

UNDERDRAIN CLEANOUT DETAIL
N.T.S.

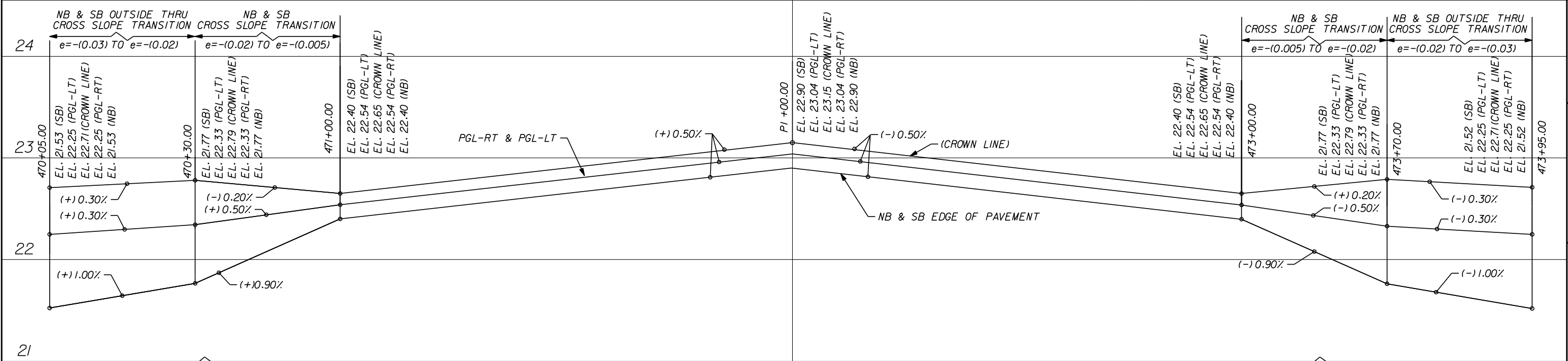


UNDERDRAIN CLEANOUT - PROFILE VIEW
N.T.S.

REVISIONS					Kimley»Horn	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	DRAINAGE DETAILS	SHEET NO. 55A
	DESCRIPTION	DATE	BY					
					BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106			



1/10/2023 10:46:06 AM K:\VRB_Roadway\4703504\Cadd\Phase II Construction Plans\SPDTR02.DGN

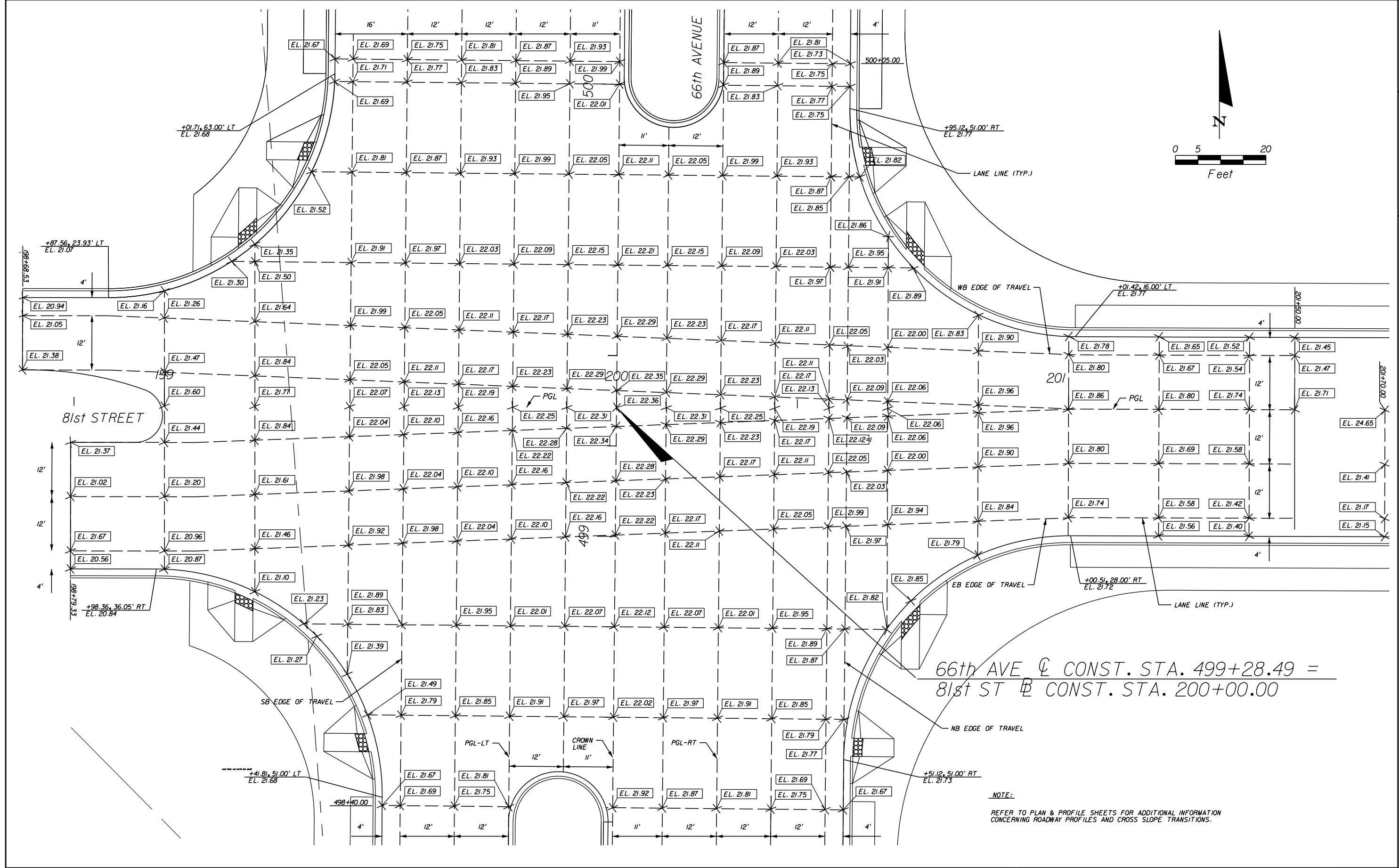


66th AVENUE

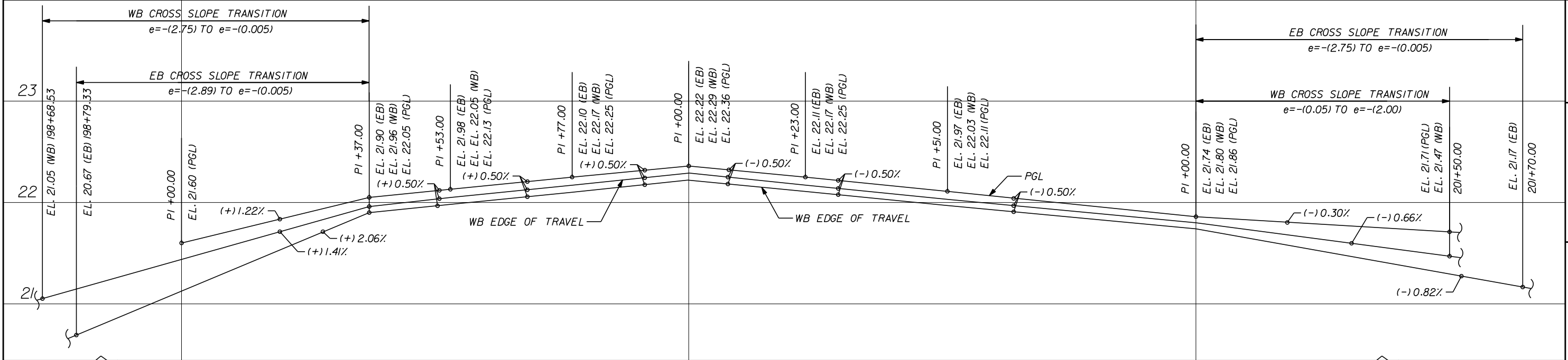
SCALE: HOR: 1"=20'
VER: 1"=1'

REVISIONS					<div>Kimley»Horn</div> <div><small>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106</small></div>	<div>INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS</div> <div>66th AVENUE FROM 69th STREET TO SR-510/85th STREET</div>	<div>66th AVENUE / 77th STREET INTERSECTION PLATEAU / PROFILE DETAILS</div>	SHEET NO.
		DESCRIPTION	DATE	BY				
								58

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

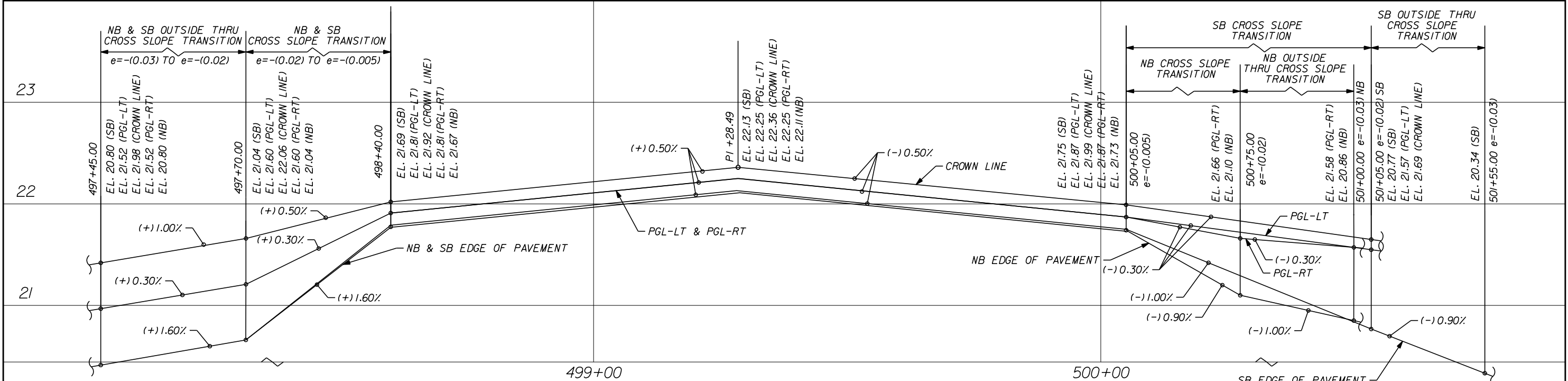


REVISIONS					Kimley»Horn	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	66th AVENUE / 81st STREET INTERSECTION PLATEAU / PROFILE DETAILS	SHEET NO. 59
DESCRIPTION	DATE	BY	DESCRIPTION					
					BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106			



81st STREET

SCALE: HOR: 1"=20'
VER: 1"=1'



66th AVENUE

SCALE: HOR: 1"=20'
VER: 1"=1'

REVISIONS					Kimley»Horn	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS	66th AVENUE / 81st STREET INTERSECTION PLATEAU / PROFILE DETAILS	SHEET NO.
		DESCRIPTION	DATE	BY				
					BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106	66th AVENUE FROM 69th STREET TO SR-510/85th STREET		60

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DATE OF SURVEY: DECEMBER 2006
SURVEY MADE BY: M. BAHIRADHAN
SUBMITTED BY: M. BAHIRADHAN
PROJECT No. 06-11-2352

ROAD NAME.: 66TH AVENUE ROADWAY WIDENING

COUNTY: INDIAN RIVER

CROSS SECTION SOIL SURVEY
66TH AVENUE ROADWAY WIDENING

STRATUM NO.	ORGANIC CONTENT			SIEVE ANALYSIS						ATTERBERG LIMITS (%)			SOIL TYPE	
	NO. OF TESTS	% ORGANIC	% MOISTURE	NO. OF TESTS	% PASSING 10 MESH	% PASSING 40 MESH	% PASSING 60 MESH	% PASSING 100 MESH	% PASSING 200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTICITY INDEX	AASHTO GROUP	MATERIAL DESCRIPTION
1	3	—	1.7-5.7	3	—	—	—	—	1.9-3.1	—	—	—	A-3	Gray, black, orange, brown and white SAND (SP)
2	1	6.1	21.3	6	—	—	—	—	5.5-9.5	—	—	—	A-3	Gray, brown and black SAND with silt (SP-SM)
3	—	—	—	—	—	—	—	—	—	—	—	—	A-3	Gray and brown SAND with clay (SP-SC)
4	1	4.3	13.6	14	—	—	—	—	10.7-25.0	2	22-23	1	A-2-4	Gray and brown slightly silty to silty SAND (SP-SM/SM)
5	1	5.8	26.2	15	—	—	—	—	14.1-28.3	3	22-27	6-10	A-2-4	Gray, orange and brown clayey SAND (SC)
6	1	—	25.6	1	—	—	—	—	57.7	1	33	15	A-6	Gray and brown sandy CLAY (CL)
7**	—	—	—	—	—	—	—	—	—	—	—	—	A-4	Gray sandy SILT (ML)
8	4	3.5-12.9	10.6-24.9	4	—	—	—	—	9.7-12.4	—	—	—	A-2-4	Black slightly silty to silty SAND with organics (SP-SM/SM)

**— Stratum 7 soils were only encountered in bridge borings TB-6 and TB-7 below the depth of 37 feet,

GENERAL LEGEND

AASHTO — AMERICAN ASSOCIATION OF STATE
HIGHWAY AND TRANSPORTATION OFFICIALS
SOIL CLASSIFICATION SYSTEM (ASTM D 3282)

NOTES

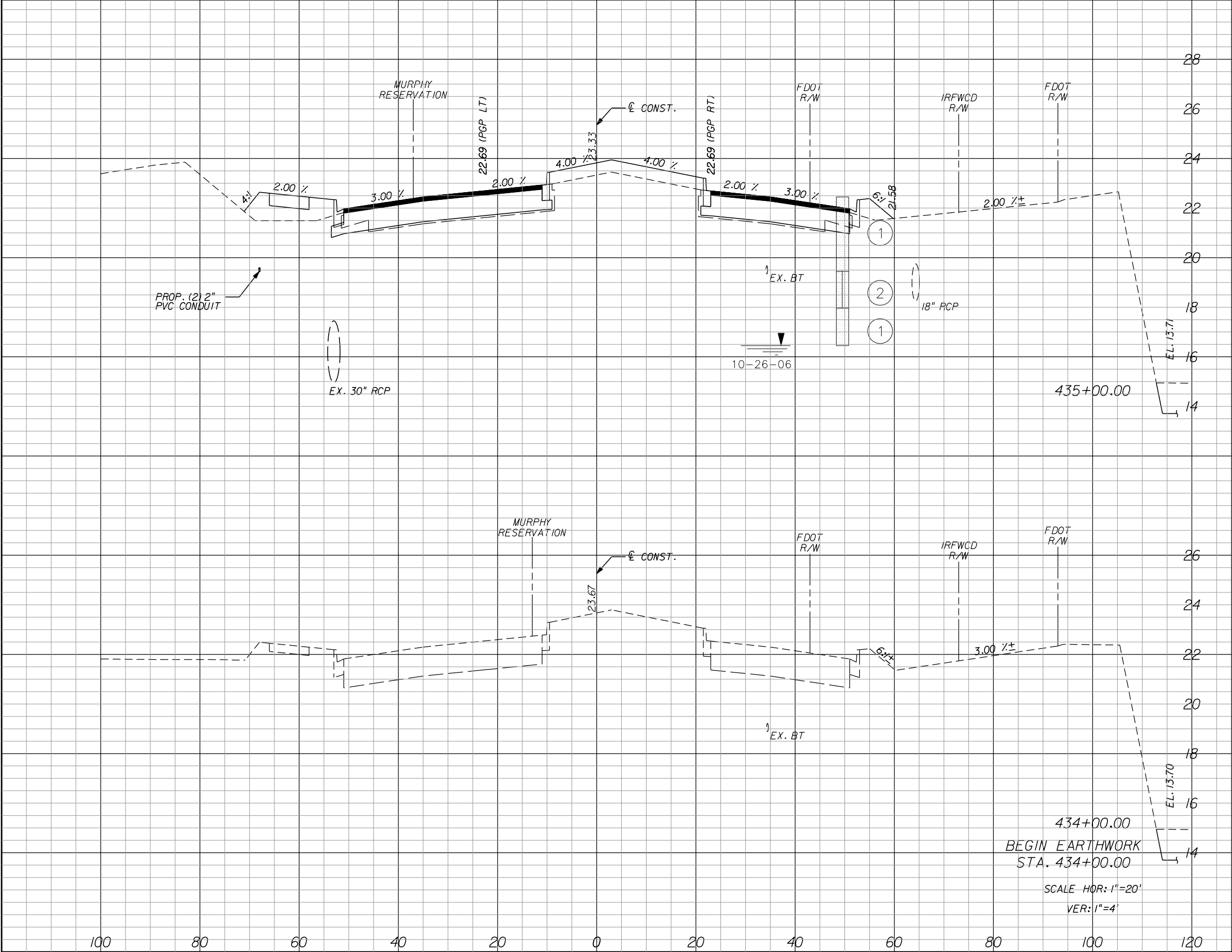
- (1) Embankment construction shall be in accordance with FDOT Standard Index No. 505.
- (2) The materials from Strata Nos 1, 2, 3 , 4 and 8 are considered "select" soils per Index No. 505.
- (3) The material from Strata No. 5, 6 and 7 are considered "plastic" per Index No. 505 and should be removed in accordance with Index 500, where the minimum separation between the bottom of the baserock and the top of the Strata 5, 6 and 7 clayey/silty soils is less than 24 inches.
- (4) Strata 5, 6 and 7 soils may be placed uniformly in the lower portion of the embankment (see Index No. 505) for some distances along the project rather than full depth for short distances.

REVISIONS												APPROVED BY : Chris L. Mings, P.E. FL REG. No. 61556 DATE :04-10-07	ROADWAY SOIL SURVEY 66TH AVENUE ROADWAY WIDENING INDIAN RIVER COUNTY, FL
DATE	BY	DESCRIPTION			DATE	BY	DESCRIPTION			DATE	BY		

DET

DUNKELBERGER ENGINEERING & TESTING, INC.
Geotechnical • Materials Testing/Inspection • Environmental

REVISIONS						Kimley»Horn <small>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106</small>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	ROADWAY SOIL SURVEY	SHEET NO.
		DESCRIPTION	DATE	BY	DESCRIPTION				
									61



Regular		Exc.	Embankment		Subsoil Exc.	
A		V	A	V	A	V
73.8		0.0	31.4			

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

66th AVENUE
CROSS SECTIONS

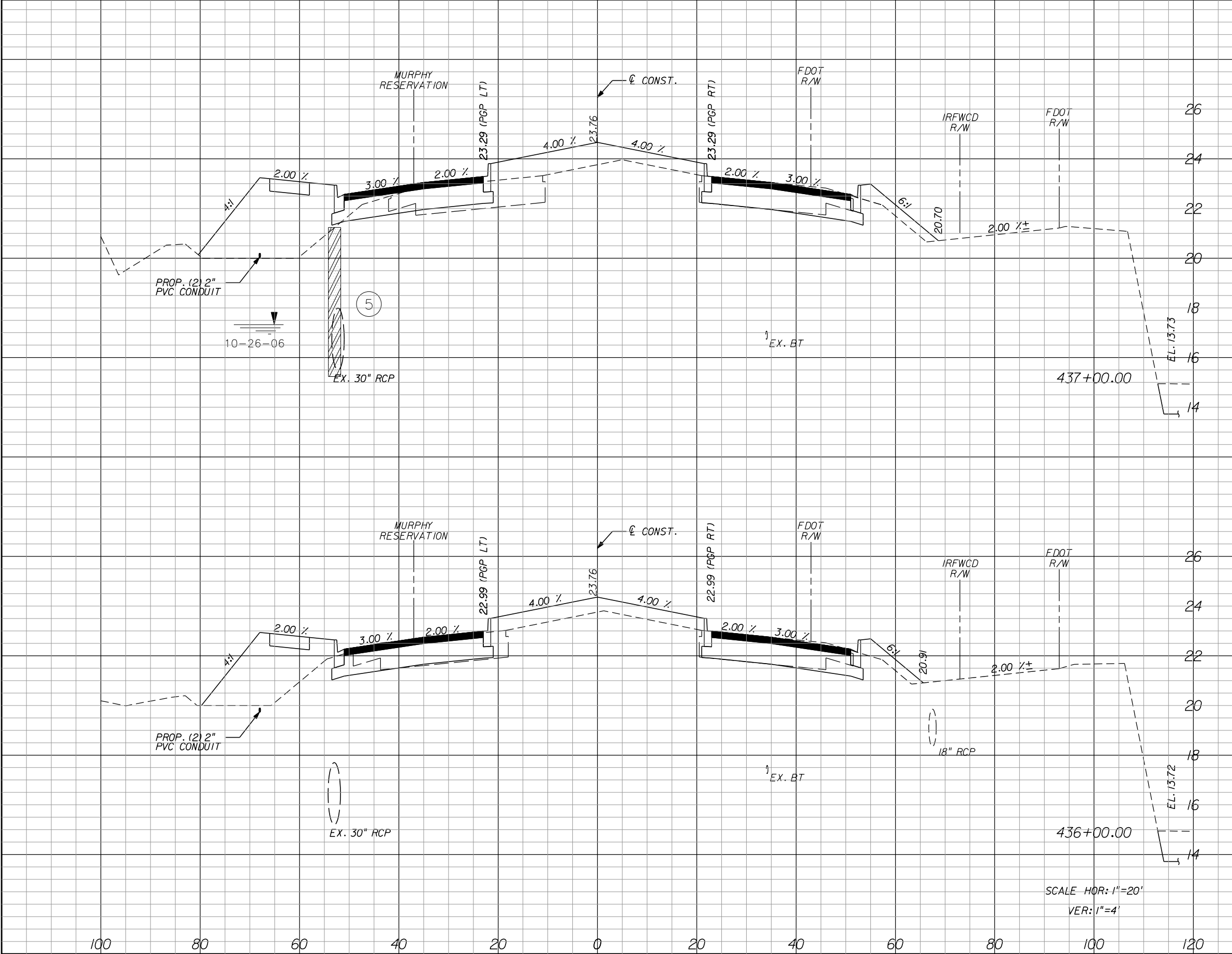
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SHEET NO.
62

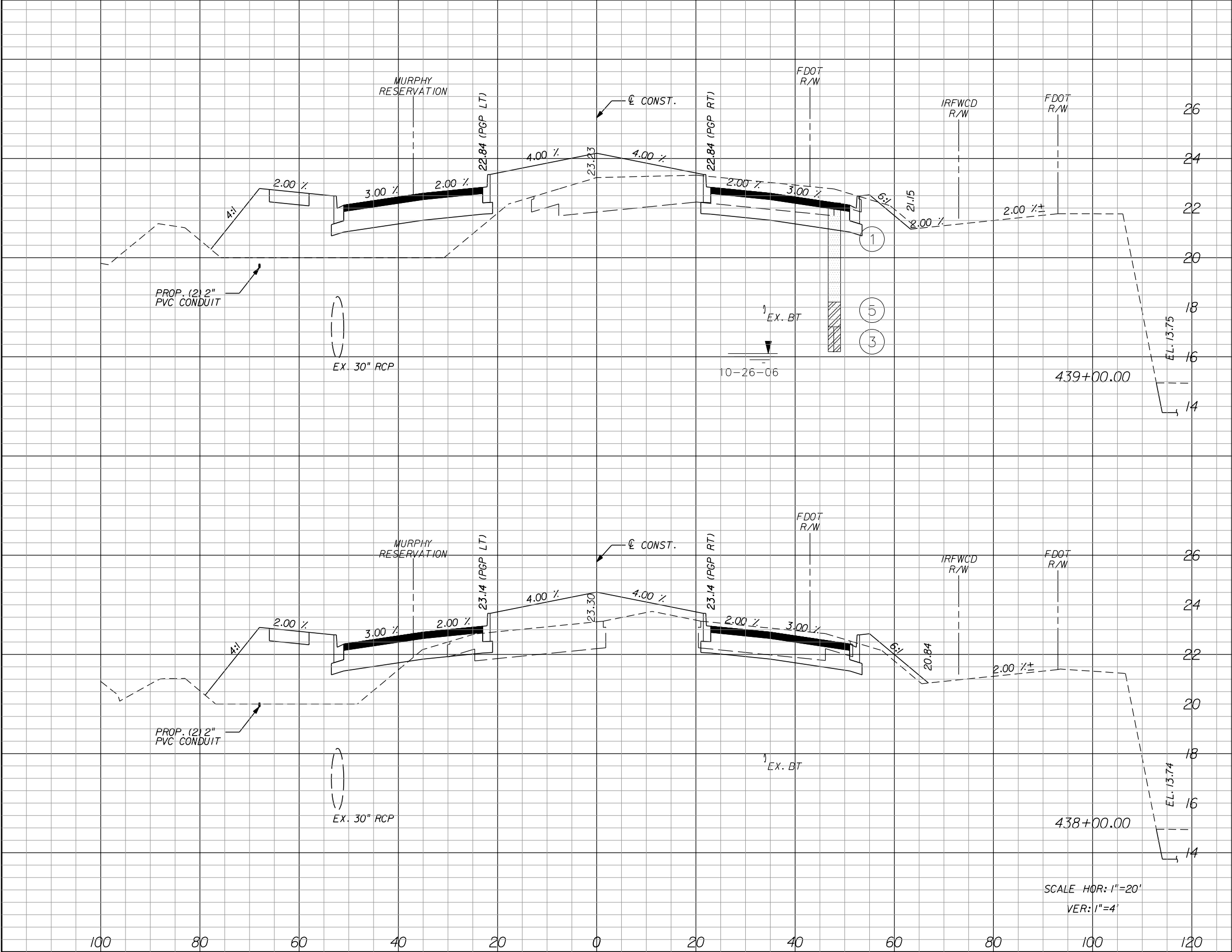
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Regular		Exc.	Embankment		Subsoil Exc.	
A	V	A	V	A	V	
57.8	232.8	95.8	309.6			
67.9	262.4	71.4	190.4			



Regular		Exc.	Embankment		Subsoil Exc.	
A		V	A	V	A	V
51.0		187.0	125.2			
50.0		199.6	109.4			

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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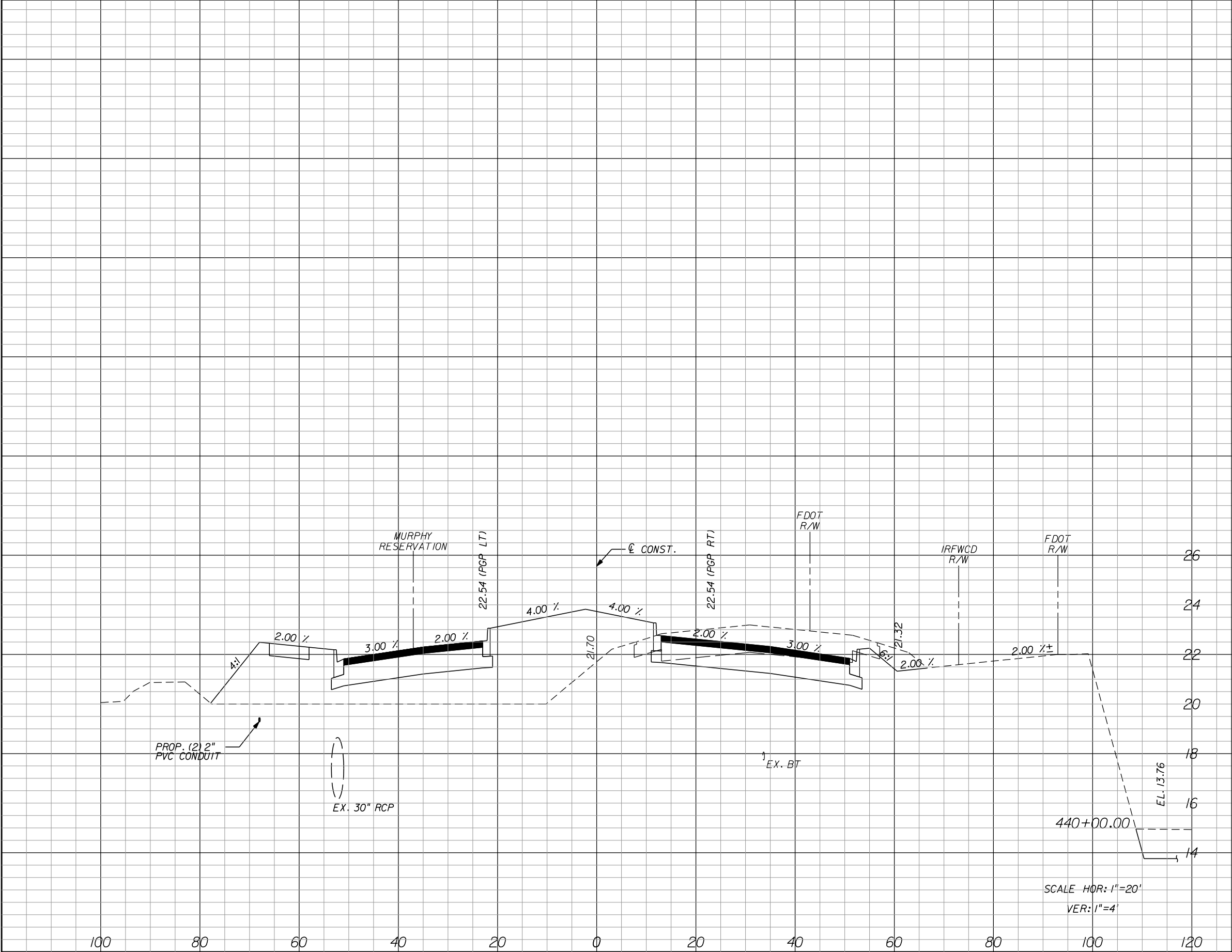
INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
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66th AVENUE
CROSS SECTIONS

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64

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Regular		Exc.	Embankment		Subsoil Exc.	
A		V	A	V	A	V
79.6		241.9	157.5	523.5		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
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66th AVENUE
CROSS SECTIONS

SHEET NO.
65

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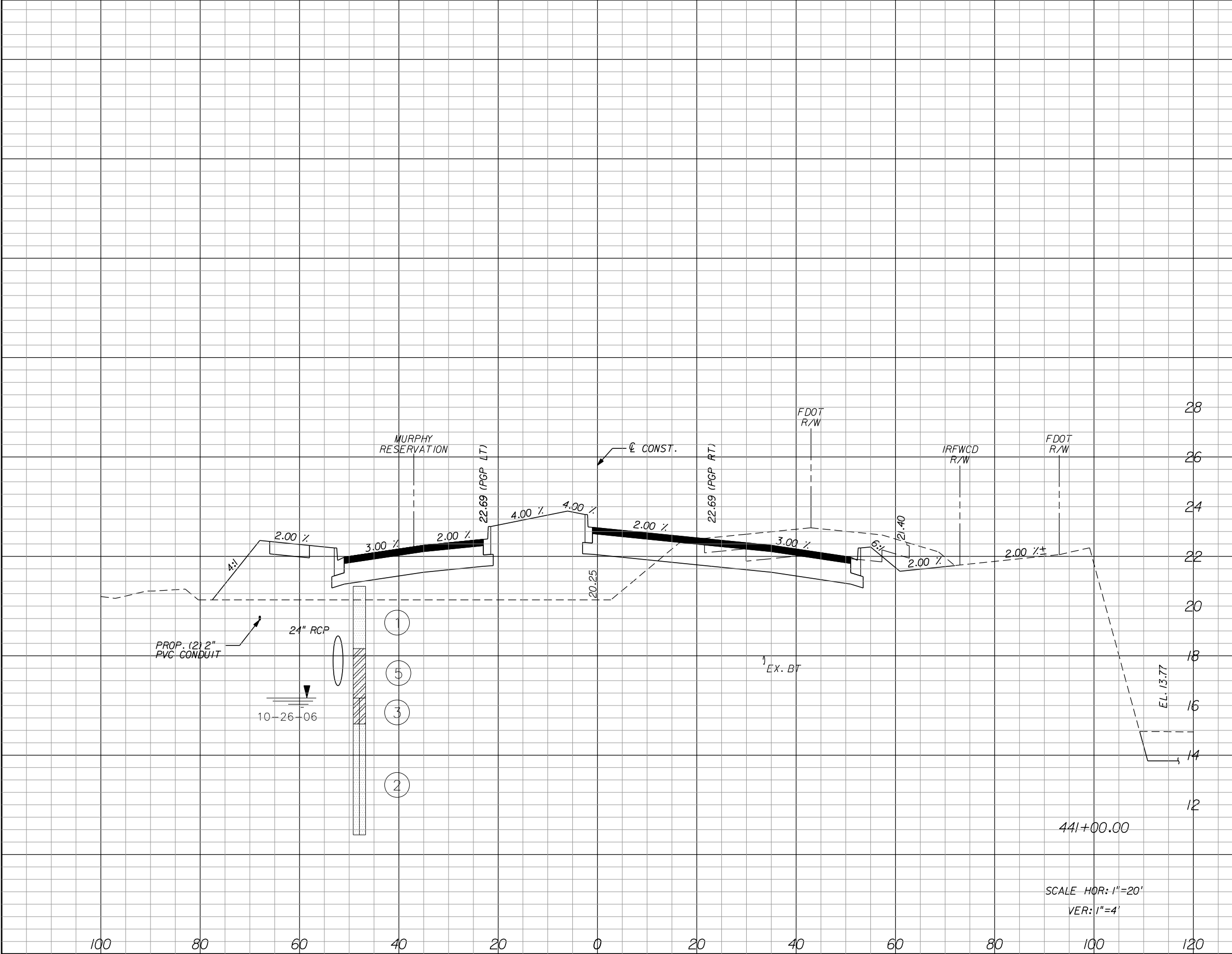
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mike.farman

1/10/2023

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Regular		Exc.	Embankment		Subsoil Exc.	
A	V		A	V	A	V
75.6		287.4	152.8		574.6	

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

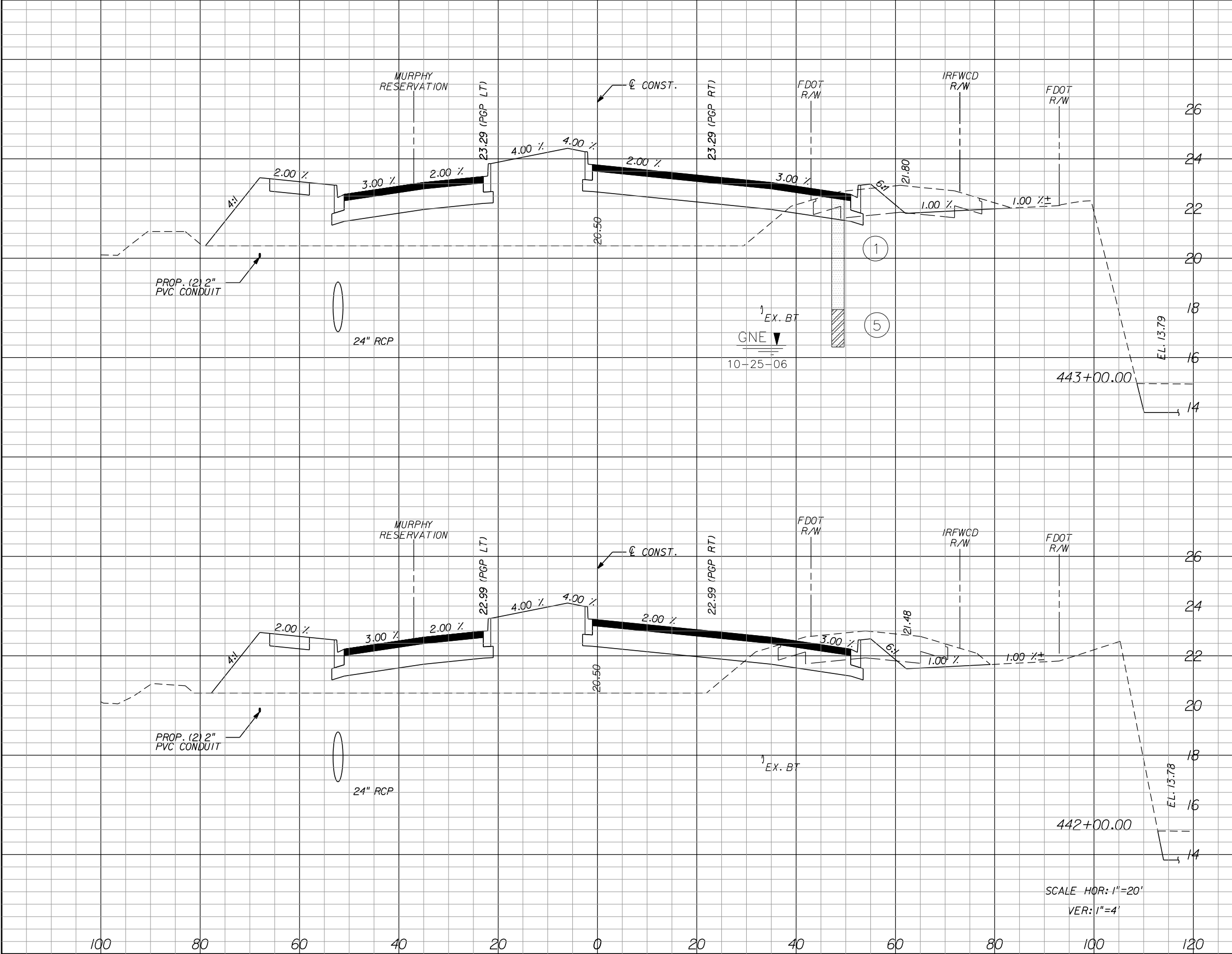
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INDIAN RIVER COUNTY
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66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

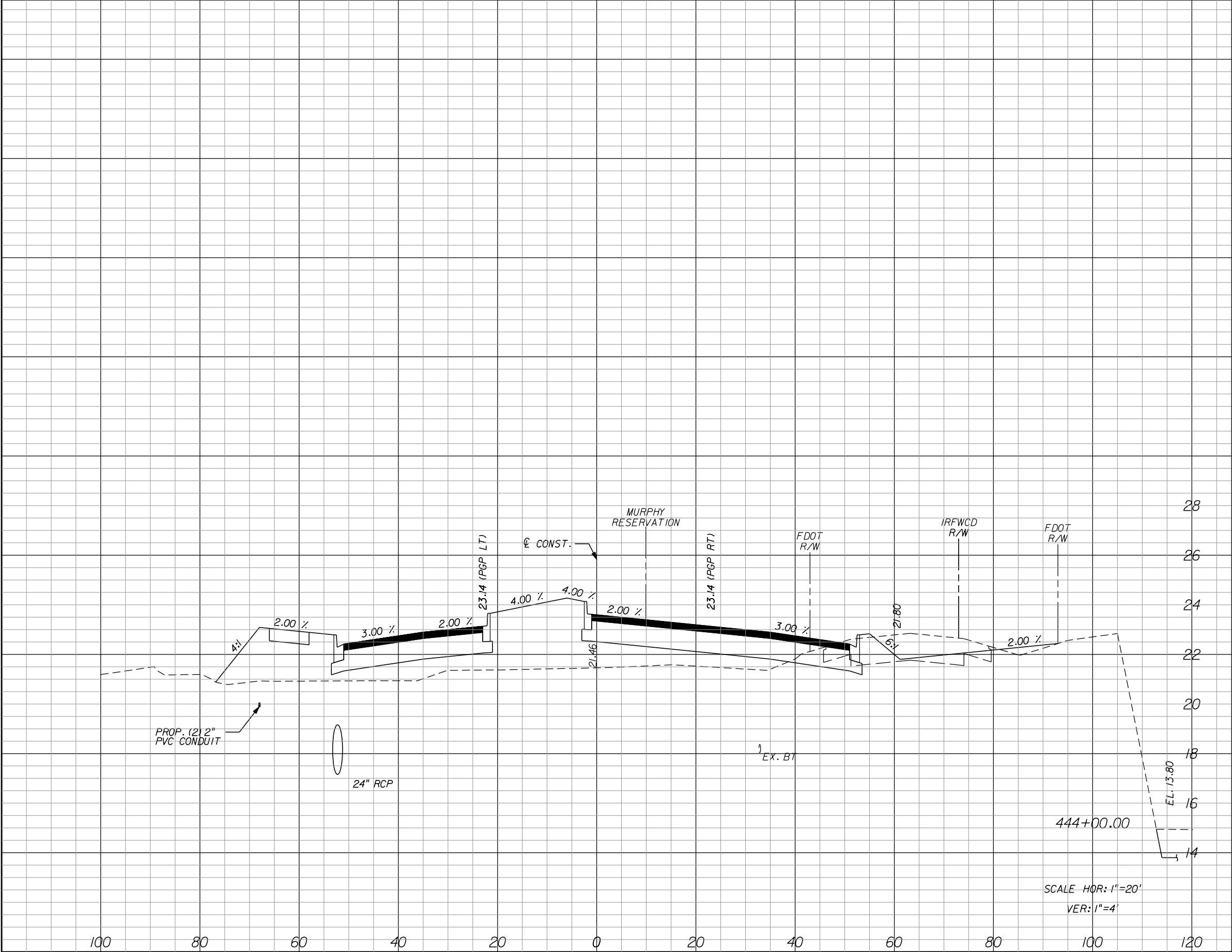
66th AVENUE
CROSS SECTIONS

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66

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Regular		Exc.	Embankment		Subsoil Exc.	
A		V	A	V	A	V
30.0		144.3	229.0		766.7	
47.9		228.7	185.0		625.6	



Regular	Exc.	Embankment		Subsoil Exc.	
		A	V	A	V
26.9	105.4	134.0	672.2		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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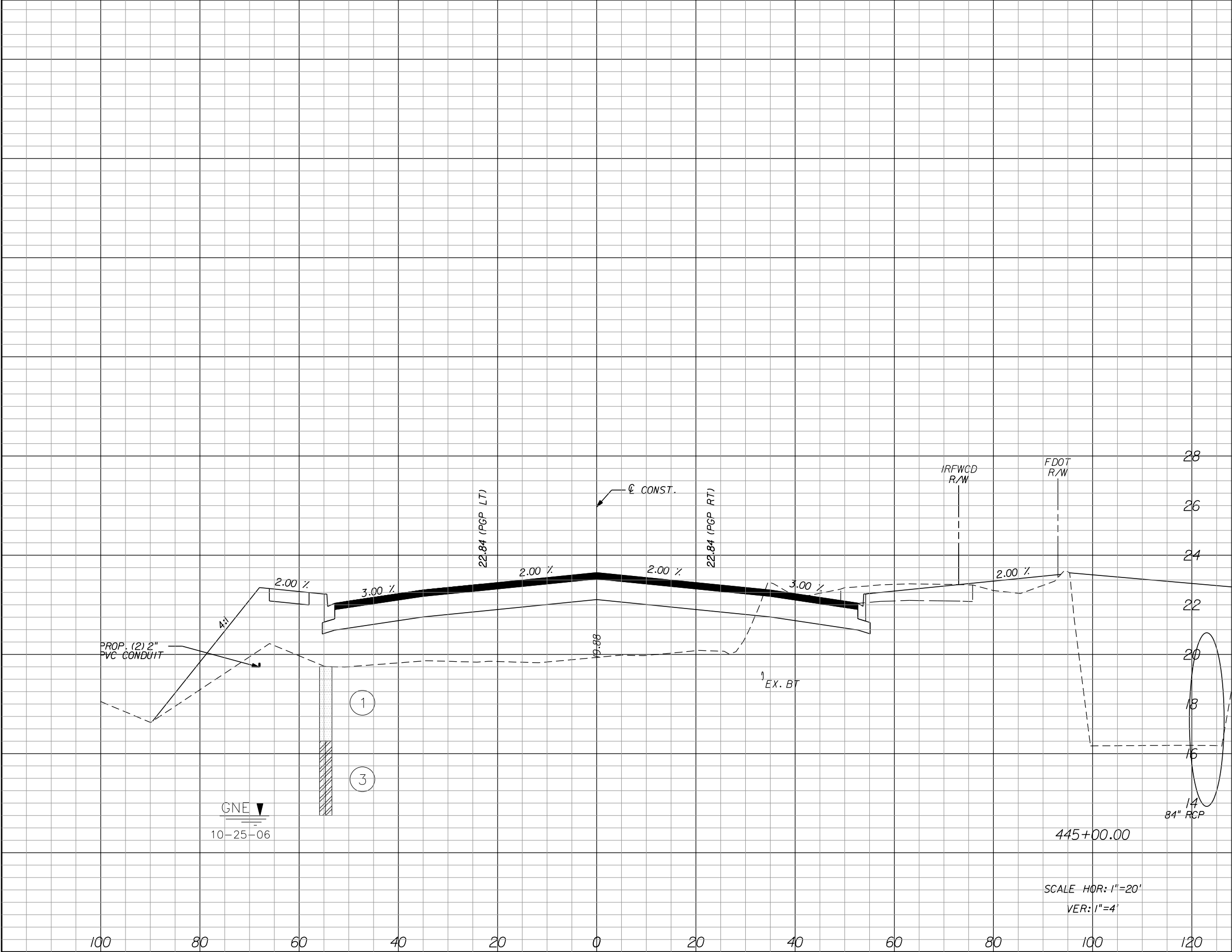
INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

66th AVENUE
CROSS SECTIONS

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68

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Regular		Exc.	Embankment		Subsoil Exc.	
A	V	A	V	A	V	
32.2		109.4	226.8	668.1		

DATE

BY

DESCRIPTION

DATE

BY

DESCRIPTION

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INDIAN RIVER COUNTY

BOARD OF COUNTY COMMISSIONERS

66th AVENUE FROM 69th STREET

TO SR-510/85th STREET

66th AVENUE

CROSS SECTIONS

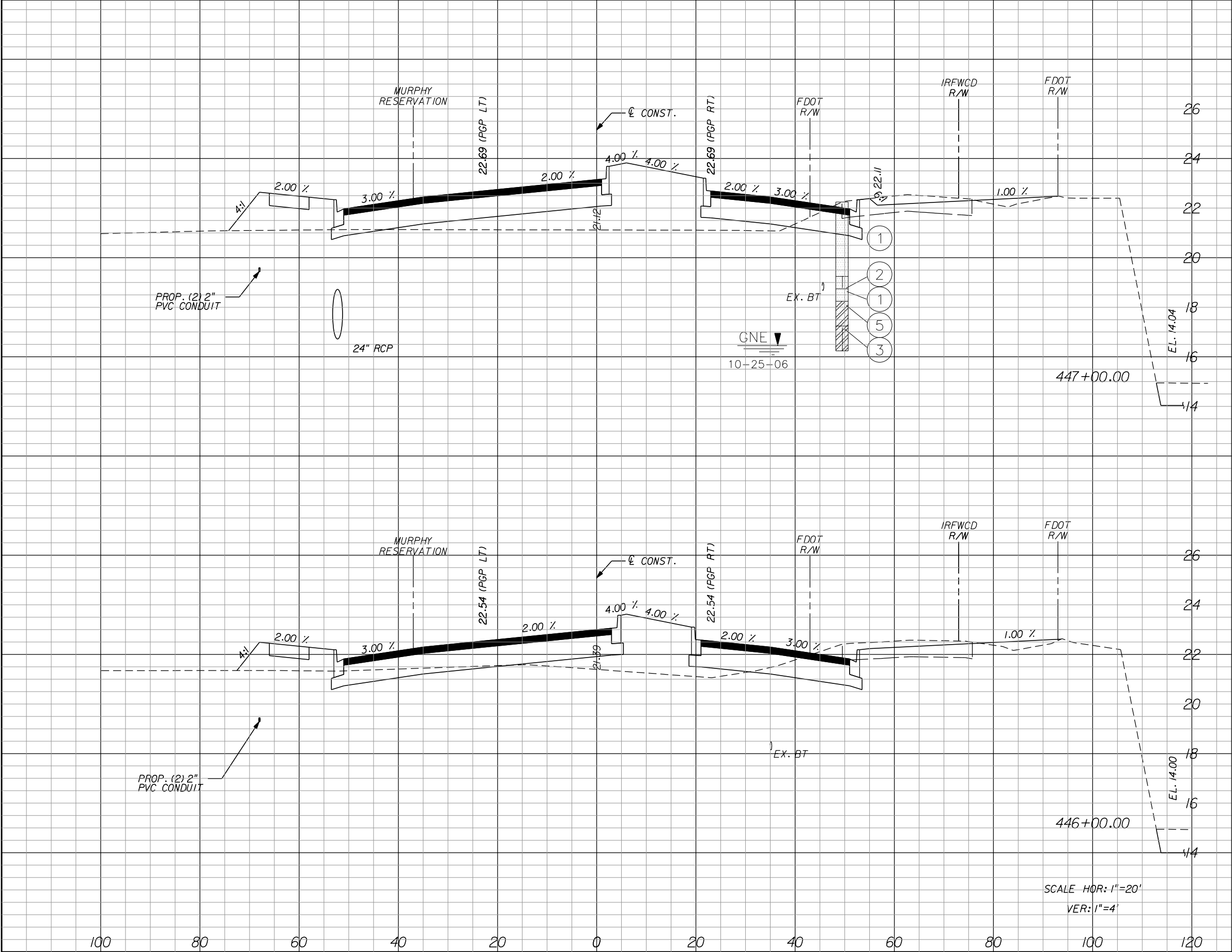
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69

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Regular		Exc.	Embankment		Subsoil Exc.	
A		V	A	V	A	V
19.2		101.3	100.1	291.1		
35.5		125.4	57.1	525.7		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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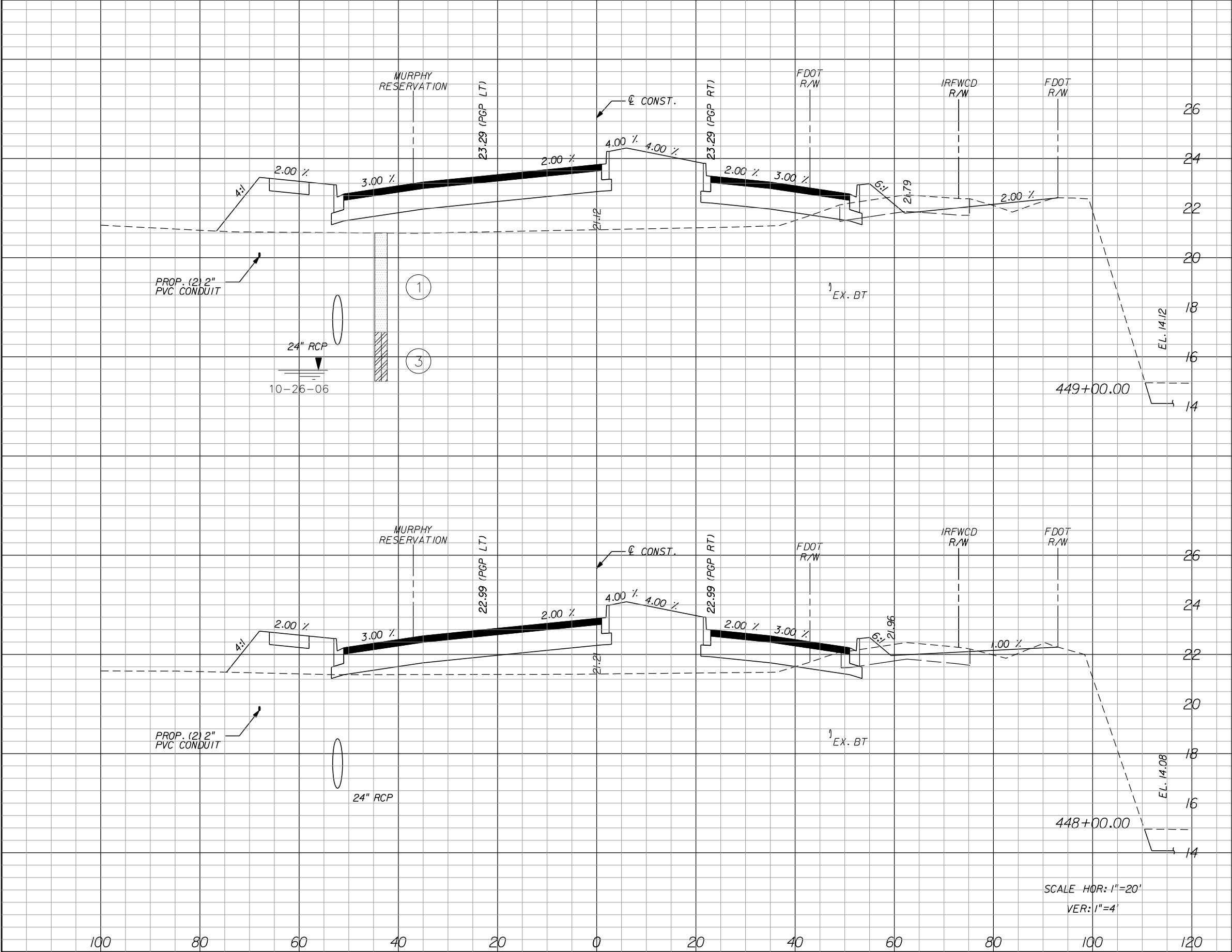
INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

66th AVENUE
CROSS SECTIONS

70

SHEET NO.
70

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Regular		Exc.	Embankment		Subsoil Exc.	
A		V	A	V	A	V
13.7		52.4	172.7	544.4		
14.6		62.6	121.3	410.0		

REVISIONS					
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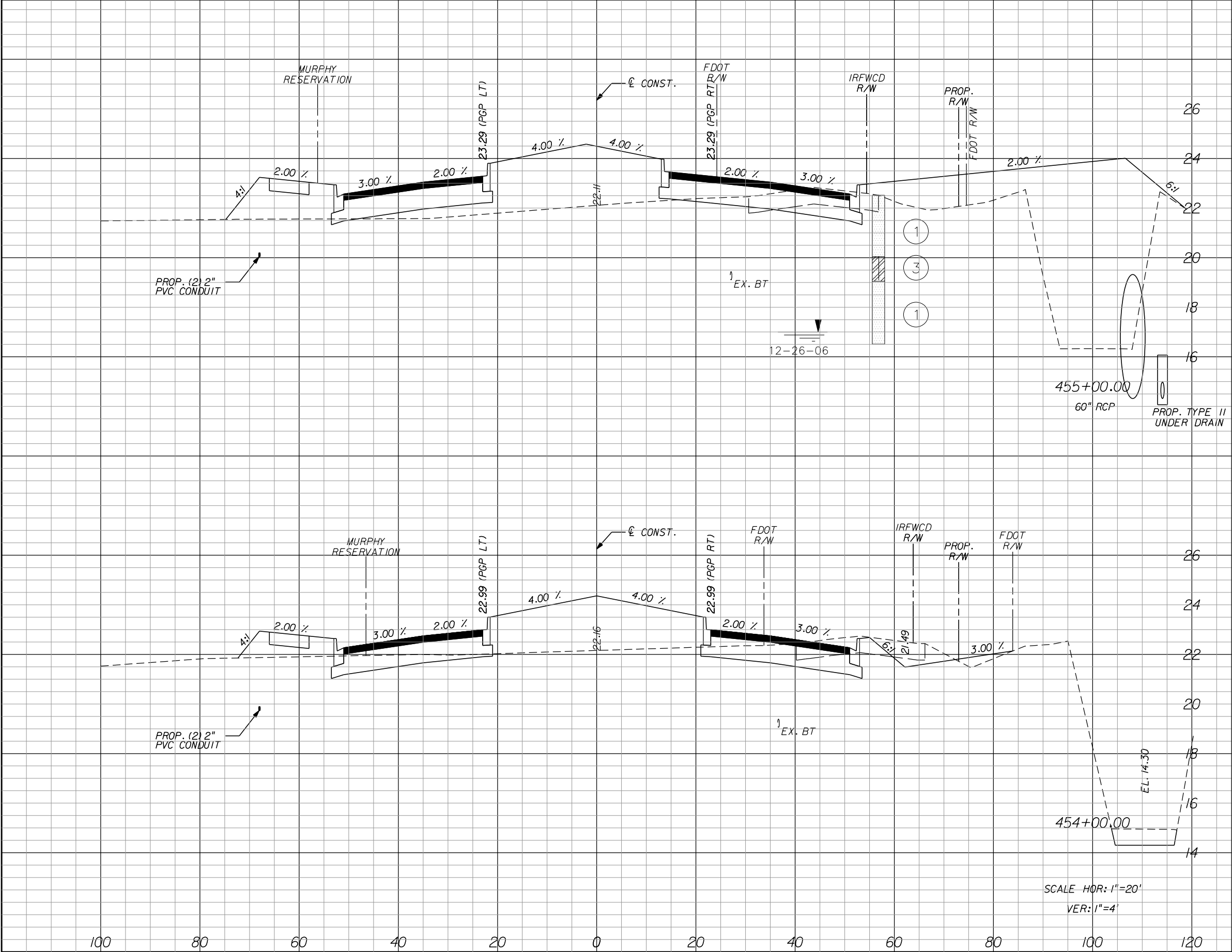
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INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

66th AVENUE
CROSS SECTIONS

SHEET NO.
71

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Regular		Exc.	Embankment		Subsoil Exc.	
A		V	A	V	A	V
24.5		140.9	304.0		730.0	
51.6		237.6	90.2		312.2	

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

66th AVENUE
CROSS SECTIONS

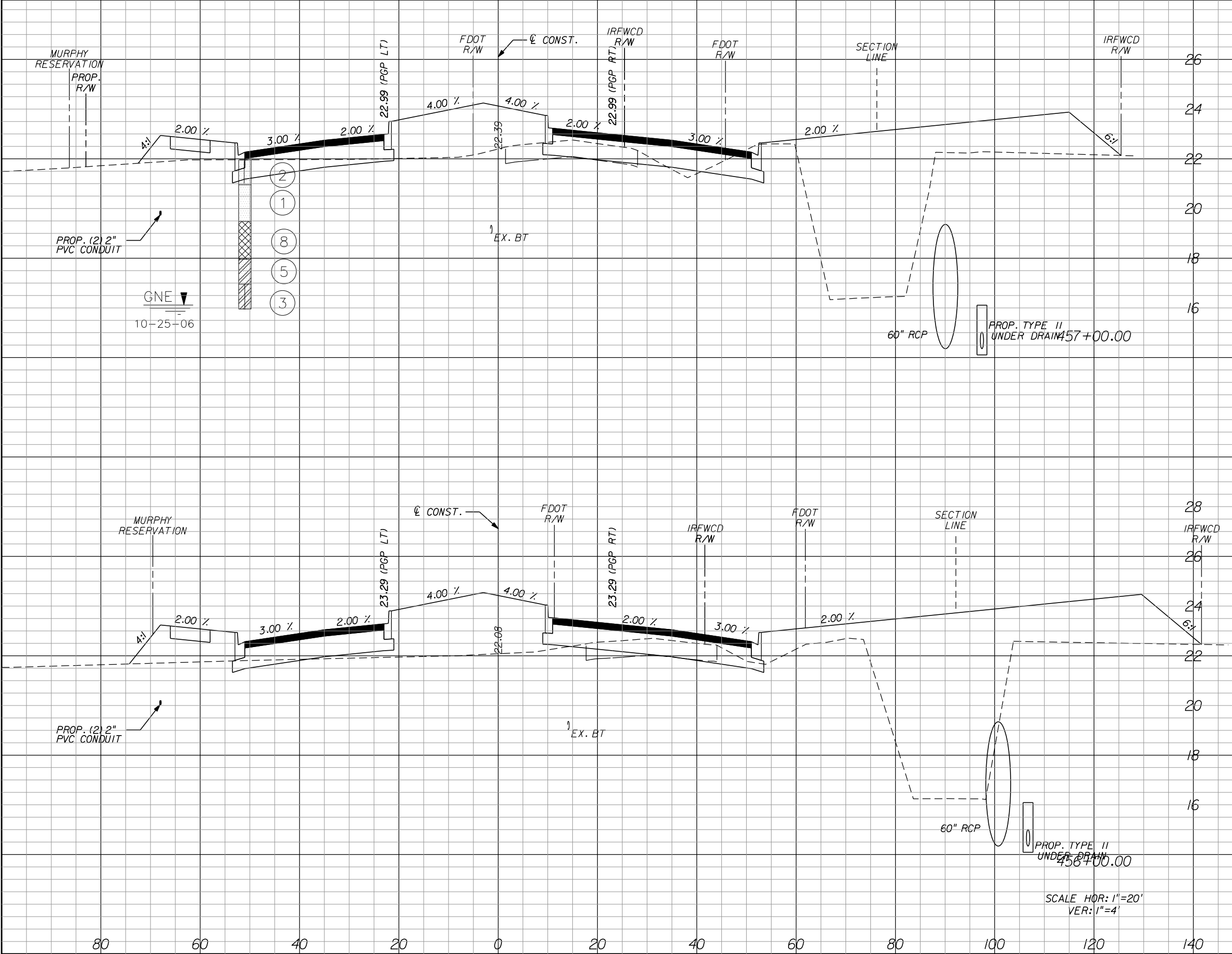
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74

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Regular		Exc.	Embankment		Subsoil Exc.	
A		V	A	V	A	V
36.0		107.2	260.8	1106.9		
21.9		85.9	336.9	1186.9		

REVISIONS					
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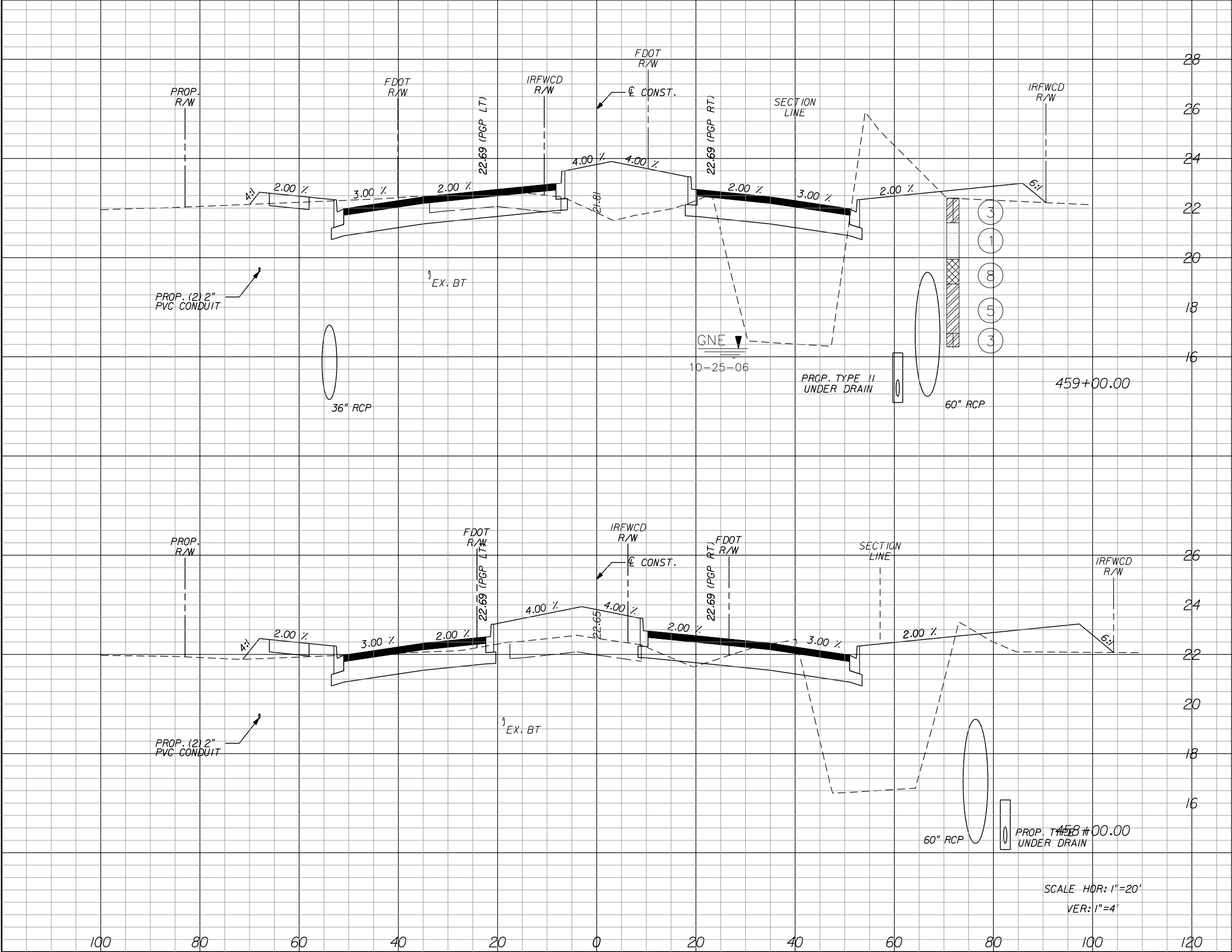
INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

66th AVENUE
CROSS SECTIONS

SHEET NO.
75

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Regular		Exc.	Embankment		Subsoil Exc.	
A	V	A	V	A	V	
89.7		156.3				
	250.6		633.9			
45.6		186.0				
	151.1		827.4			

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

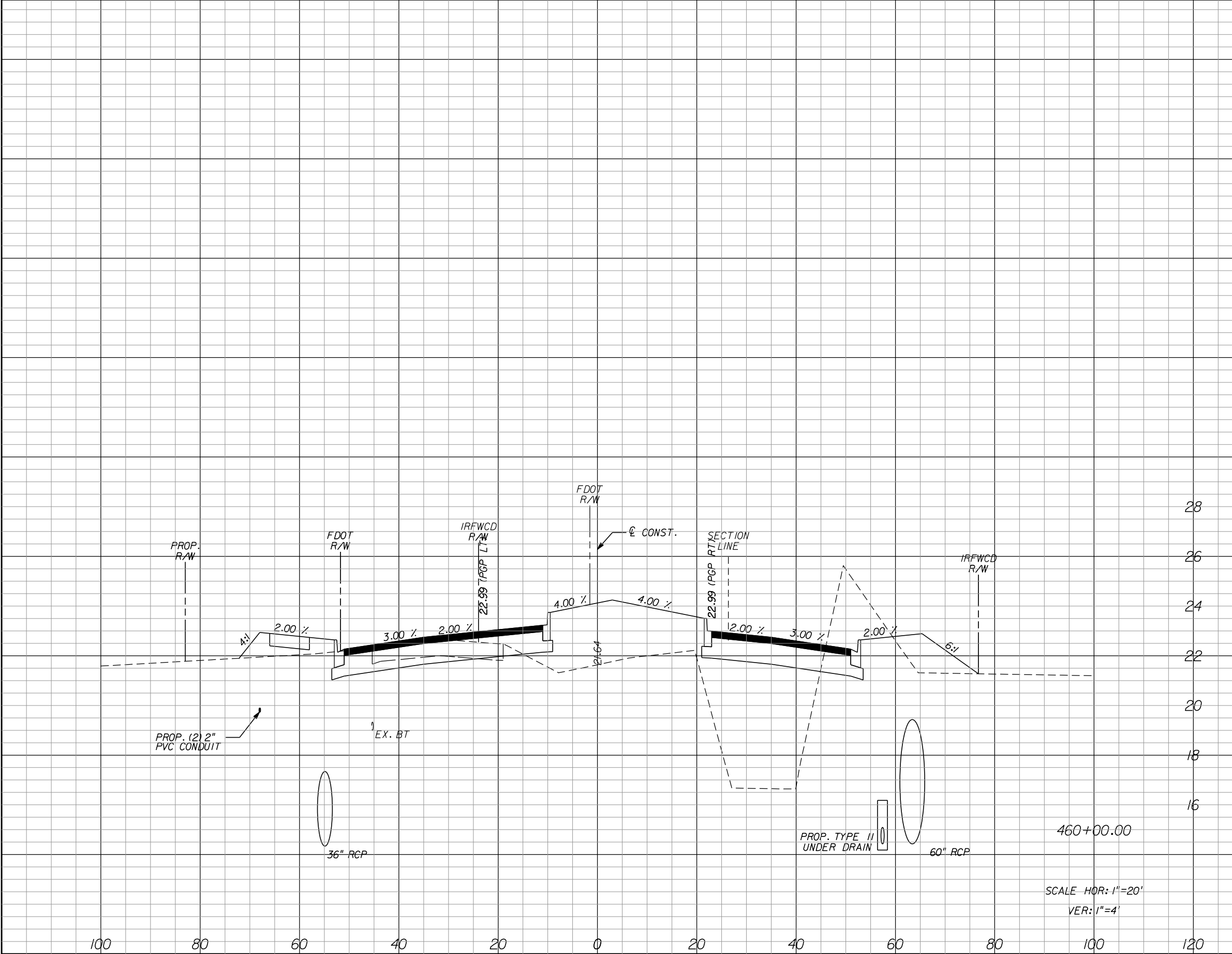
66th AVENUE
CROSS SECTIONS

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76

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Regular	Exc.	Embankment		Subsoil Exc.	
		A	V	A	V
62.1	281.1	185.2	632.4		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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VERO BEACH, FL 32960
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66th AVENUE
CROSS SECTIONS

SHEET NO.
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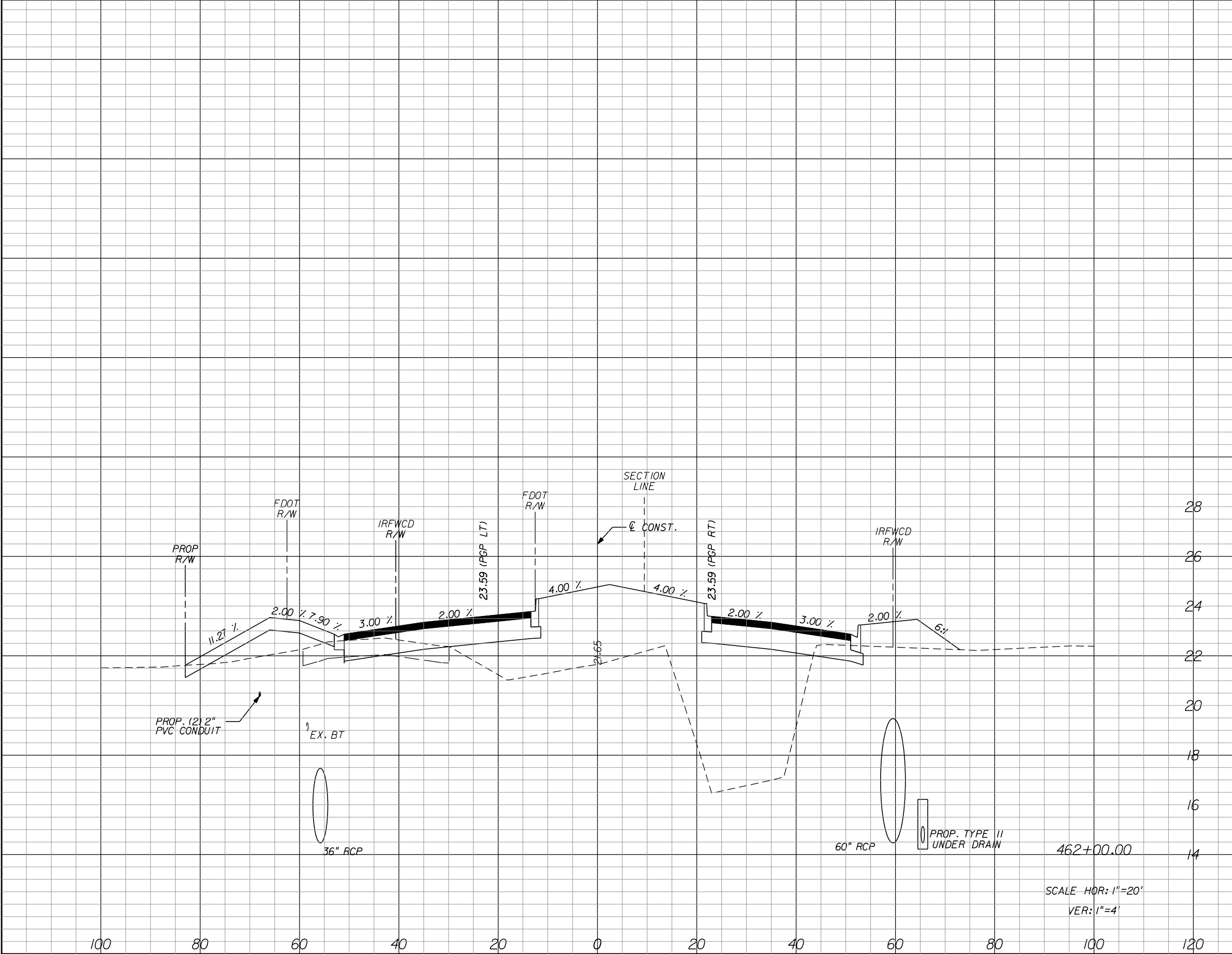
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mike.farman

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Regular		Exc.	Embankment		Subsoil Exc.	
A	V	V	A	V	A	V
18.0		81.1	258.8	918.3		

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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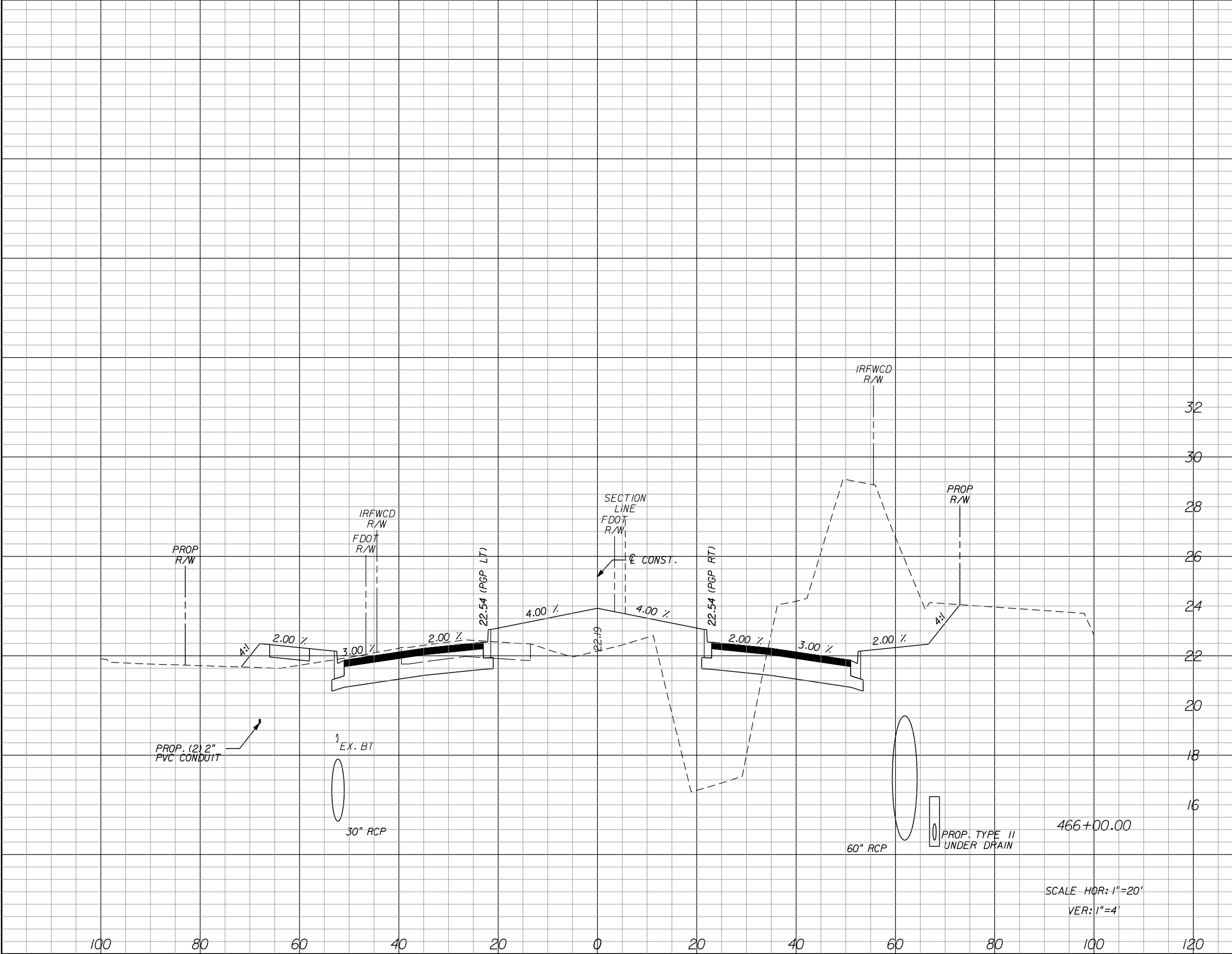
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79

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Regular		Exc.	Embankment		Subsoil Exc.	
A	V	V	A	V	A	V
199.2		464.1	135.6		457.4	

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66th AVENUE FROM 69th STREET
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66th AVENUE
CROSS SECTIONS

SHEET NO.
83

1/10/2023

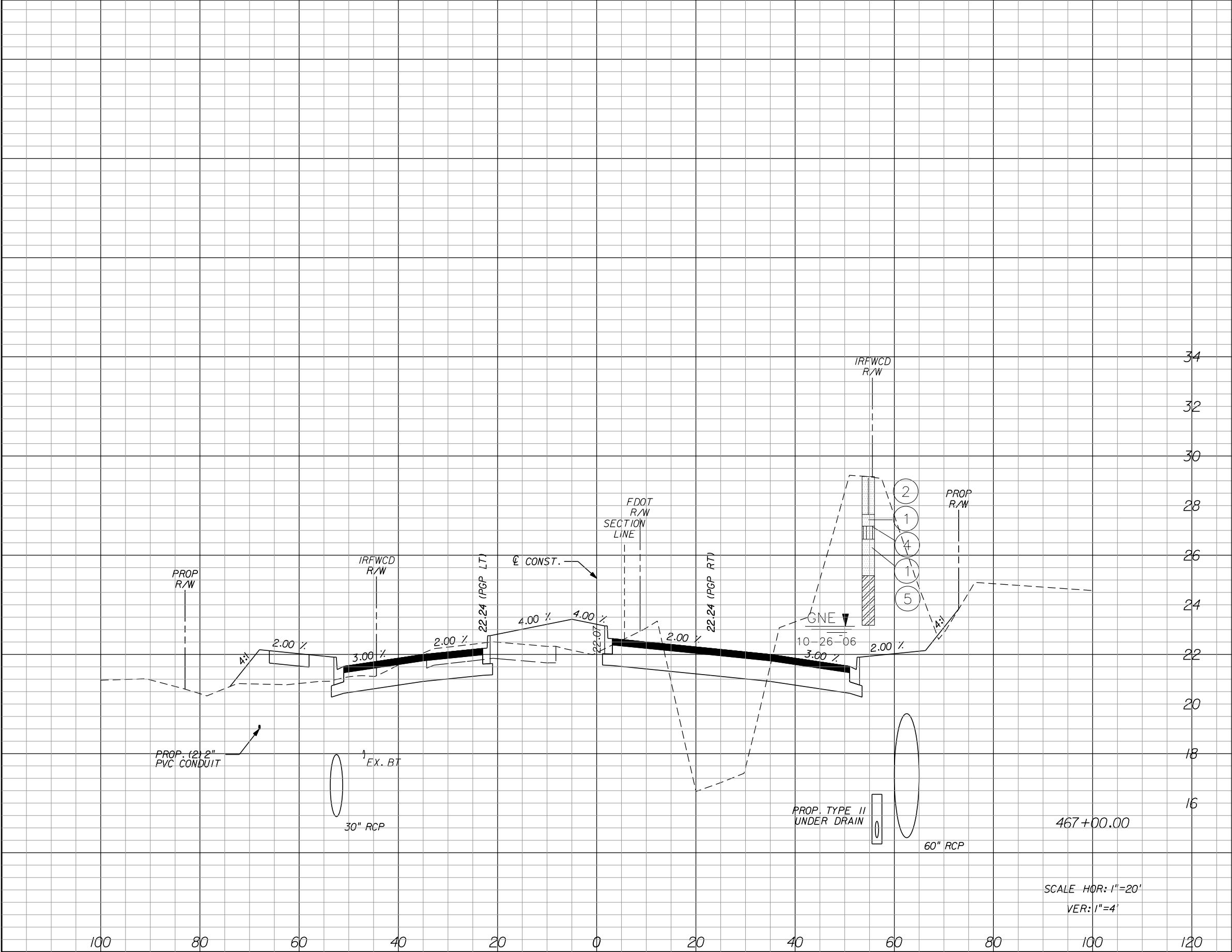
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Regular		Exc.	Embankment		Subsoil Exc.	
A		V	A	V	A	V
203.8		746.3	101.5	439.1		

DATE

BY

DESCRIPTION

DATE

BY

DESCRIPTION

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INDIAN RIVER COUNTY

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TO SR-510/85th STREET

66th AVENUE

CROSS SECTIONS

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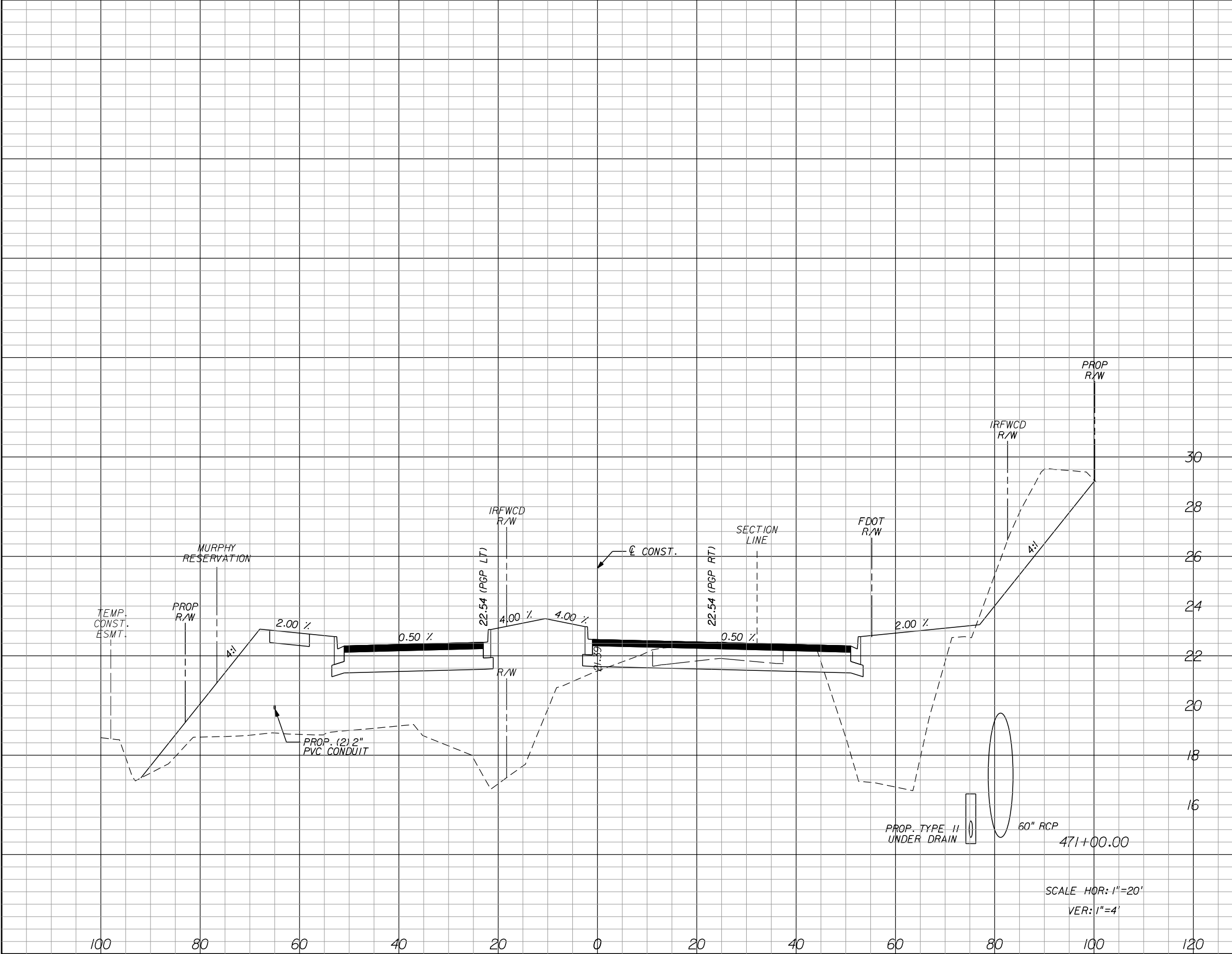
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Regular	Exc.	Embankment		Subsoil Exc.	
		A	V	A	V
79.1	422.0	375.2	1160.7		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

66th AVENUE
CROSS SECTIONS

SHEET NO.
88

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1505B

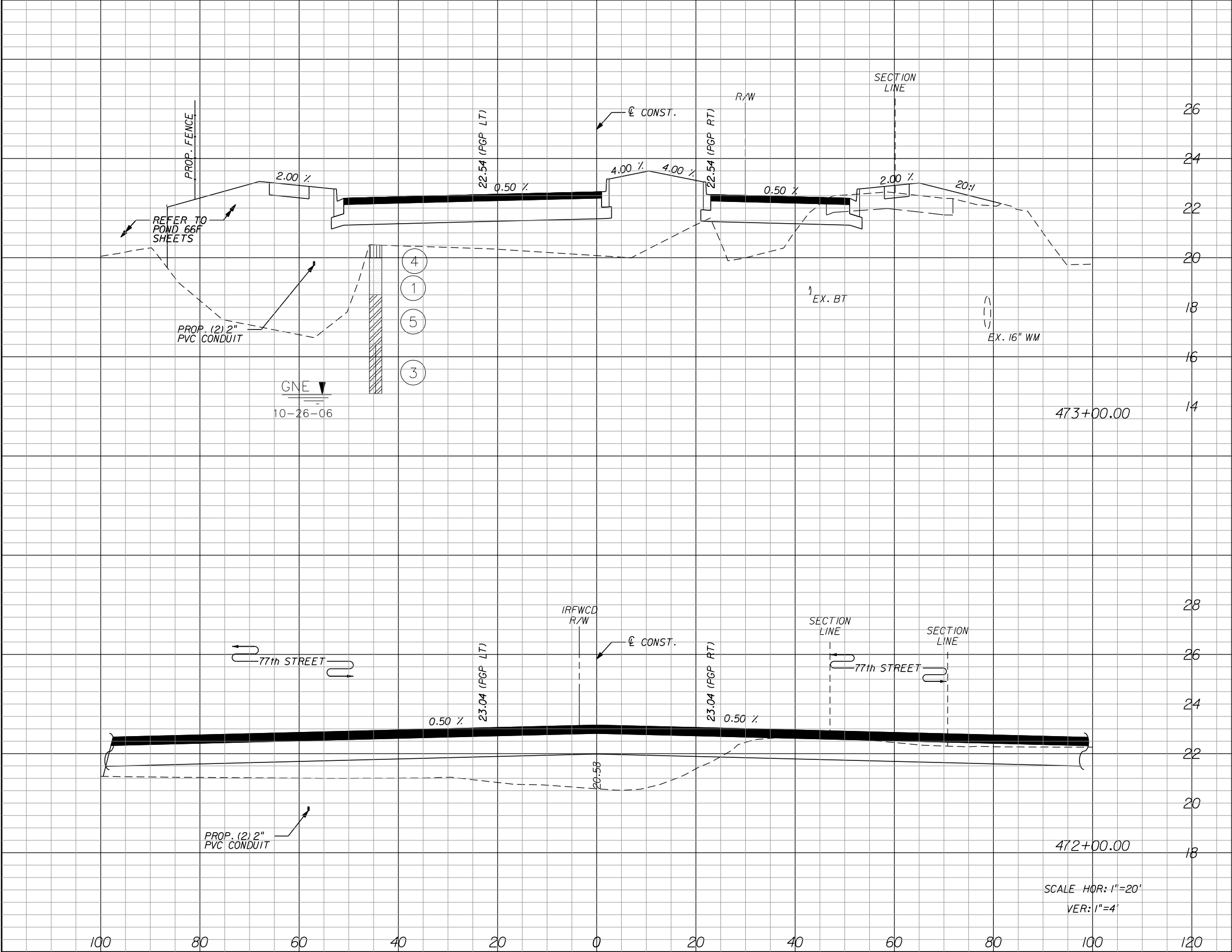
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mike.forman

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Regular		Exc.	Embankment		Subsoil Exc.	
A	V	A	V	A	V	
12.3	123.9	320.8	783.9			
54.6	247.6	102.5	884.6			

DATE

BY

DESCRIPTION

DATE

BY

DESCRIPTION

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VERO BEACH, FL 32960
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66th AVENUE FROM 69th STREET

TO SR-510/85th STREET

66th AVENUE

CROSS SECTIONS

SHEET NO.

89

DATE

BY

DESCRIPTION

DATE

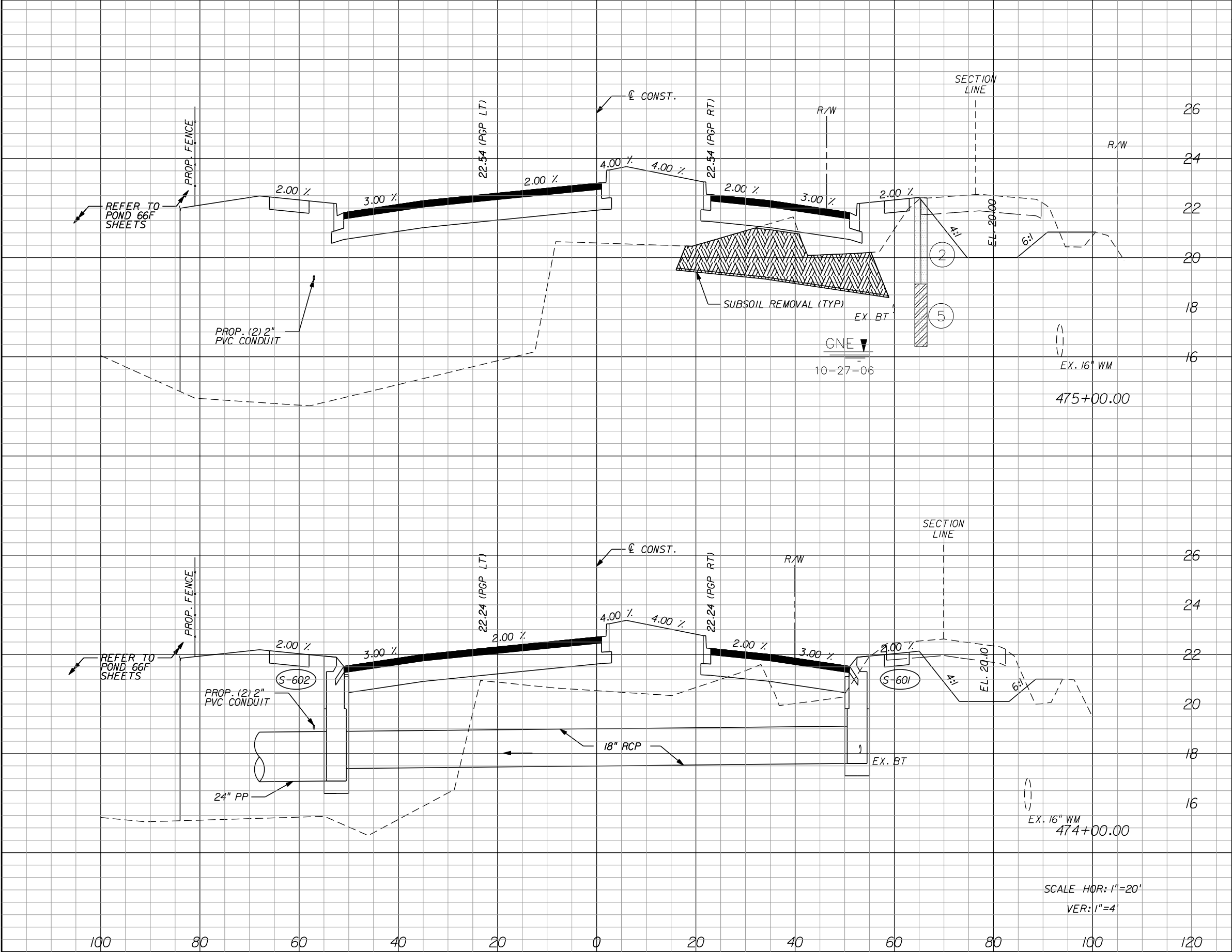
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1/10/2023

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Regular		Exc.	Embankment		Subsoil Exc.	
A		V	A	V	A	V
51.8	183.5	600.2	1933.7	64.0	118.5	
47.3	110.4	444.0	1416.3			

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 696

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

66th AVENUE
CROSS SECTIONS

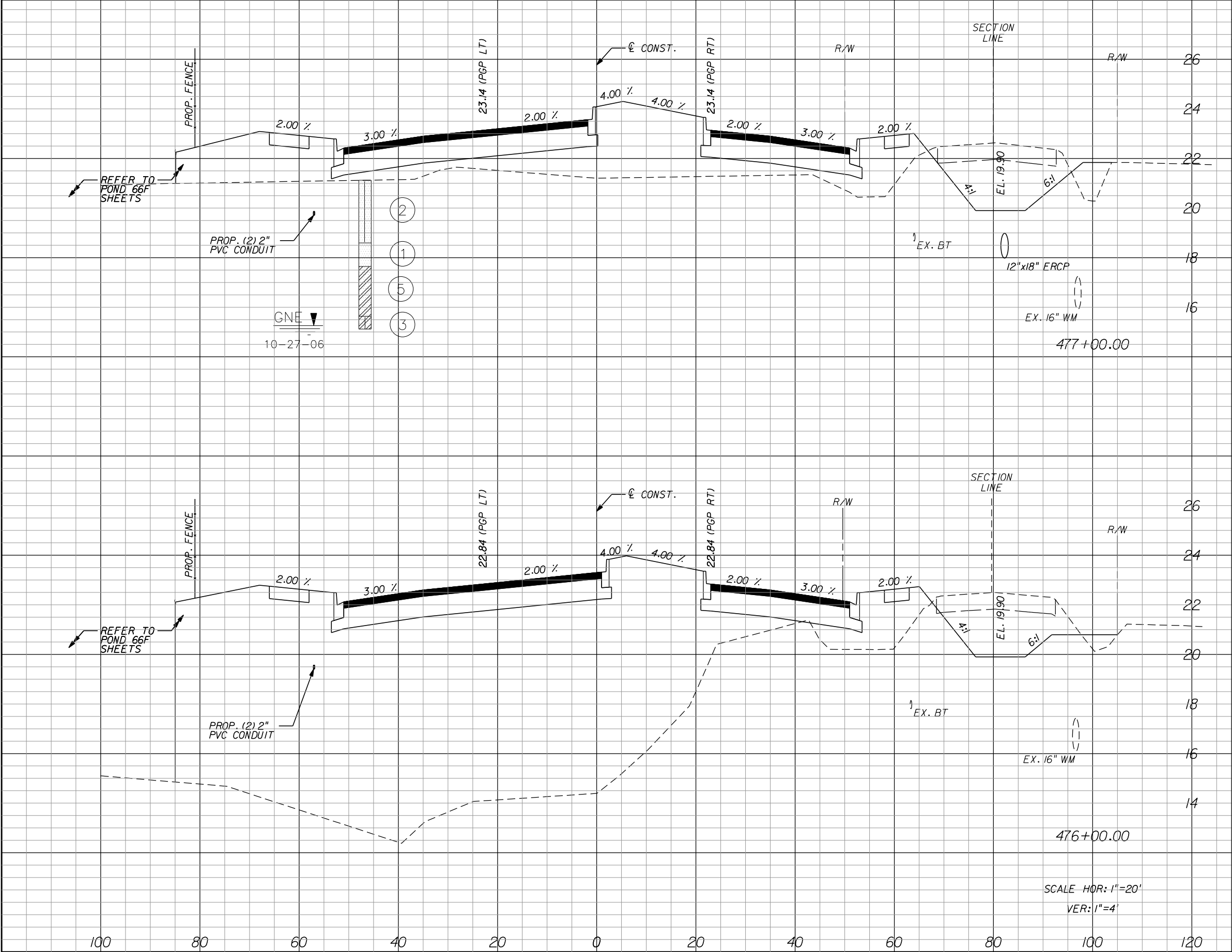
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SHEET NO.
90

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1505B

IR.CO. Proj. No.



Regular		Exc.	Embankment		Subsoil Exc.	
A		V	A	V	A	V
55.2		200.7	189.8	2001.7		
53.2		194.4	891.1	2761.7		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 696

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

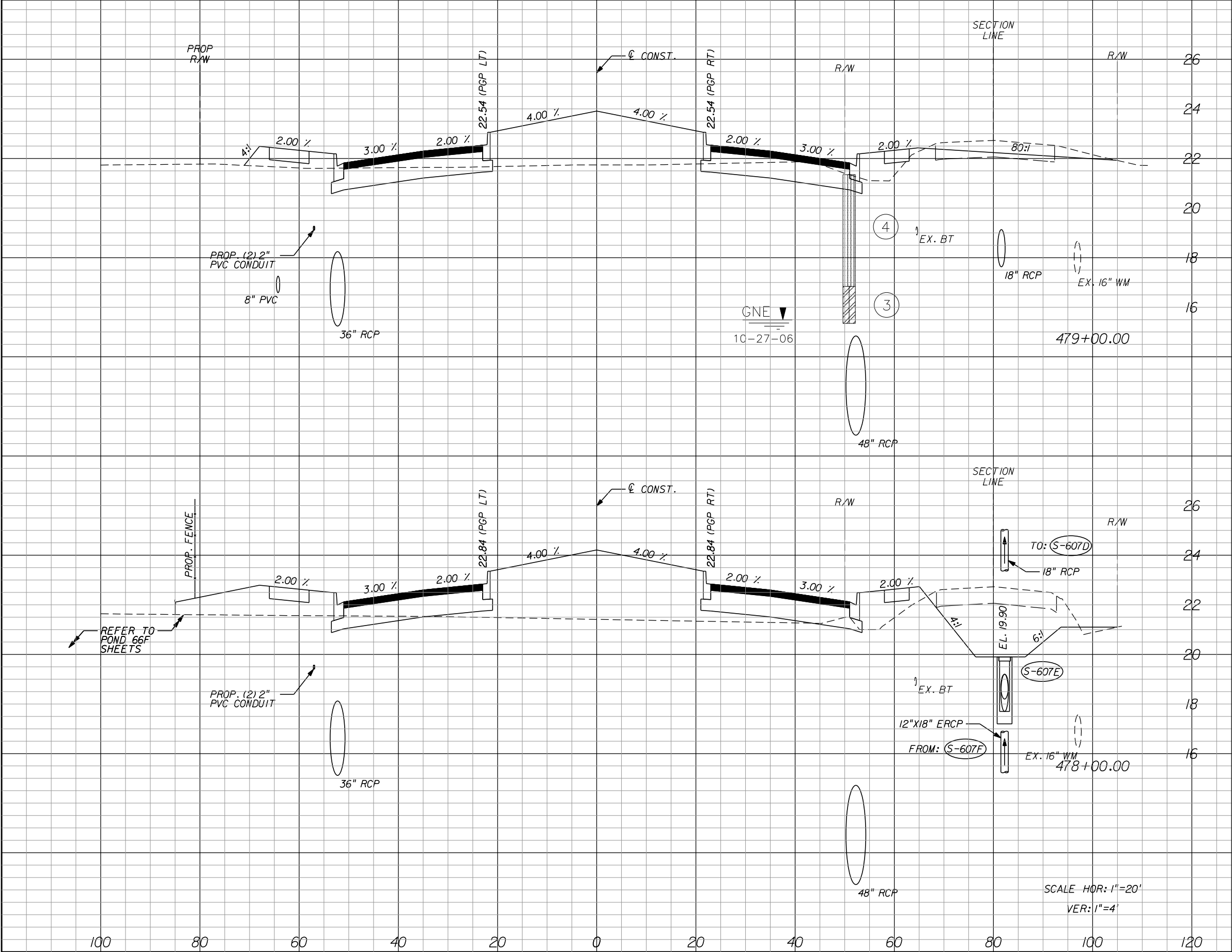
66th AVENUE
CROSS SECTIONS

91

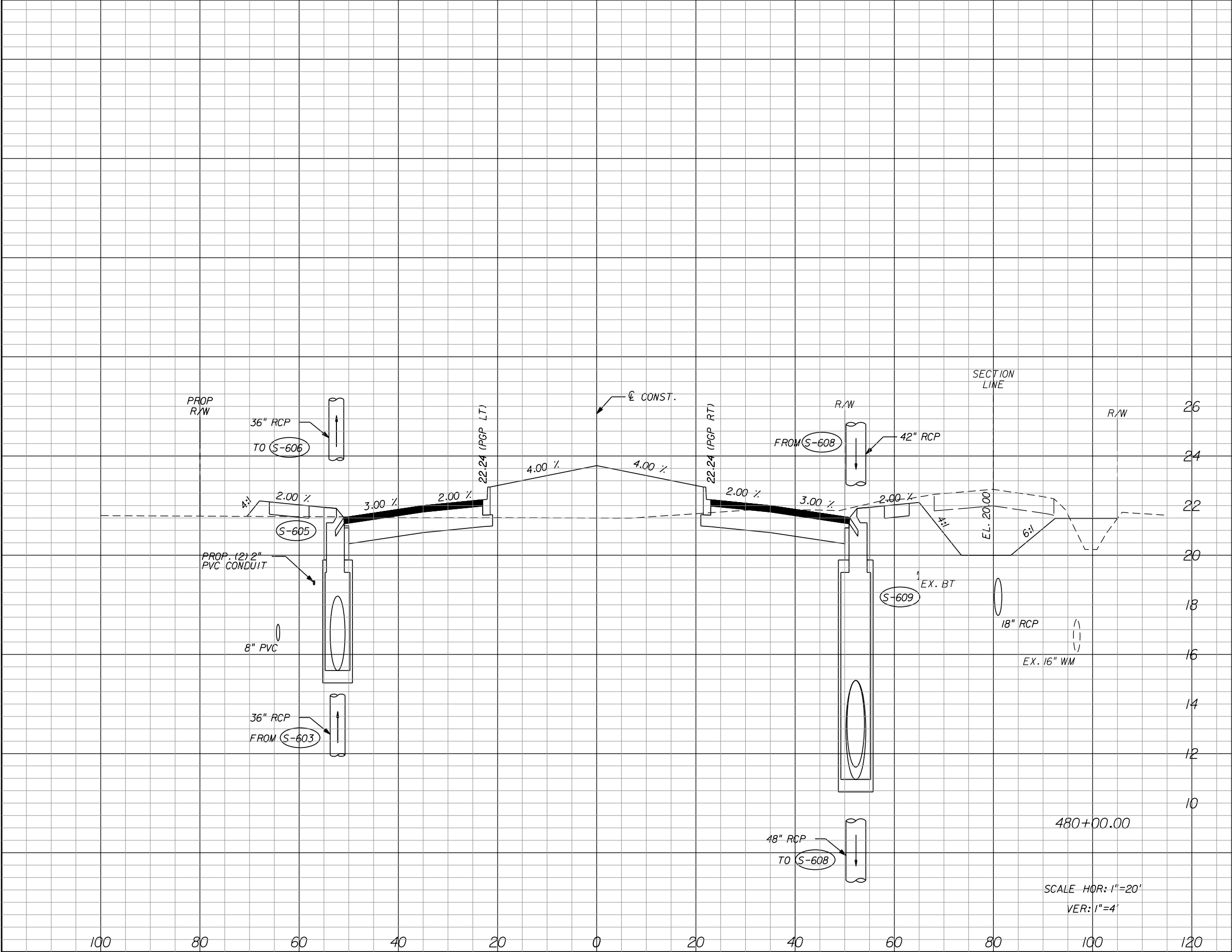
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IR.CO. Proj. No. 1505B



Regular		Exc.	Embankment		Subsoil Exc.	
A	V	A	V	A	V	
101.7	280.9	91.1	444.3			
67.0	226.3	148.8	627.0			



Regular		Exc.	Embankment		Subsoil Exc.	
A	V	A	V	A	V	
101.7		280.9	82.7	321.9		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 696

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

66th AVENUE
CROSS SECTIONS

SHEET NO.
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1505B

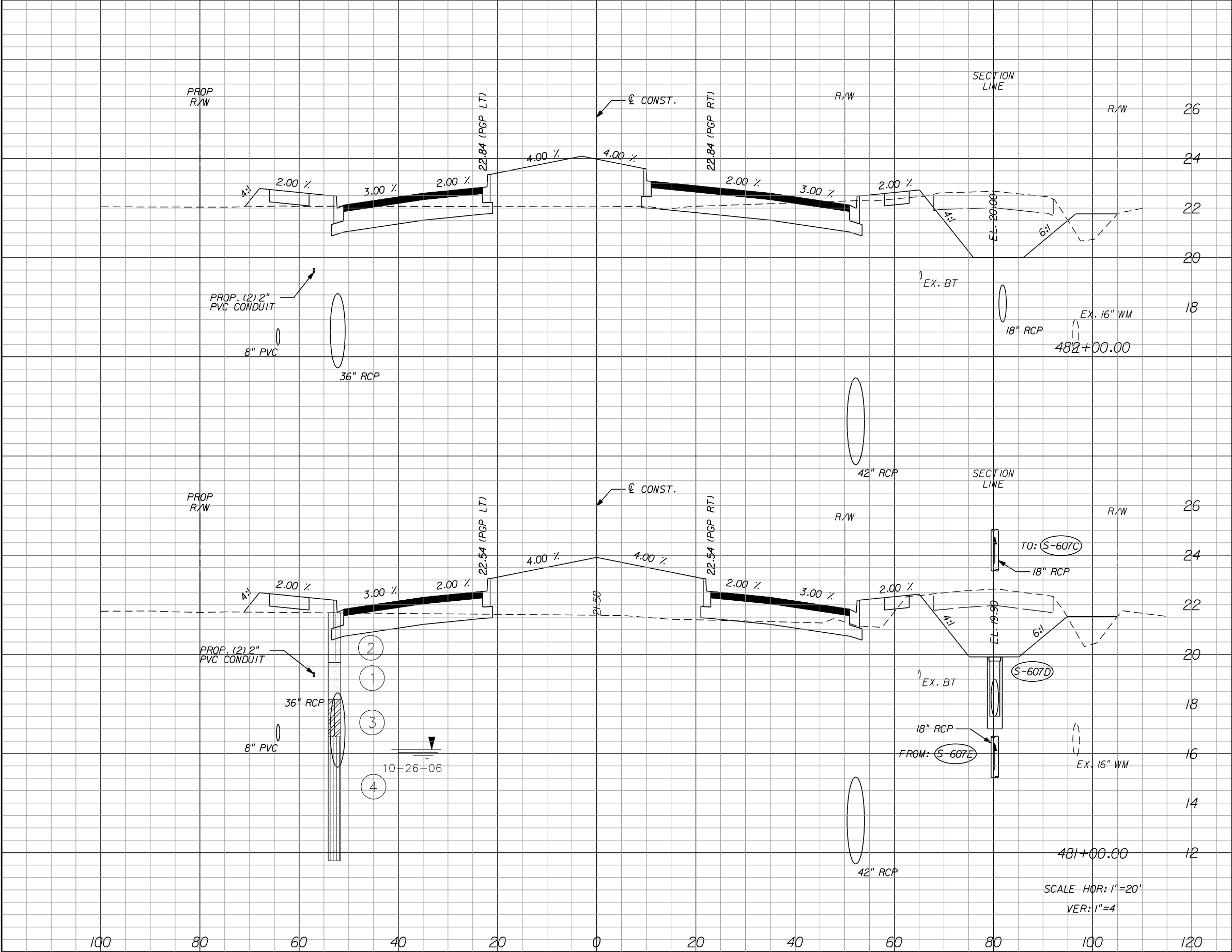
IR.CO. Proj. No.

mike.forman

1/10/2023

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Regular	Exc.	Embankment		Subsoil Exc.	
		A	V	A	V
102.4	338.7	67.2	317.2		
80.5	337.4	104.1	345.9		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 696

**INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS**
**66th AVENUE FROM 69th STREET
TO SR-510/85th STREET**

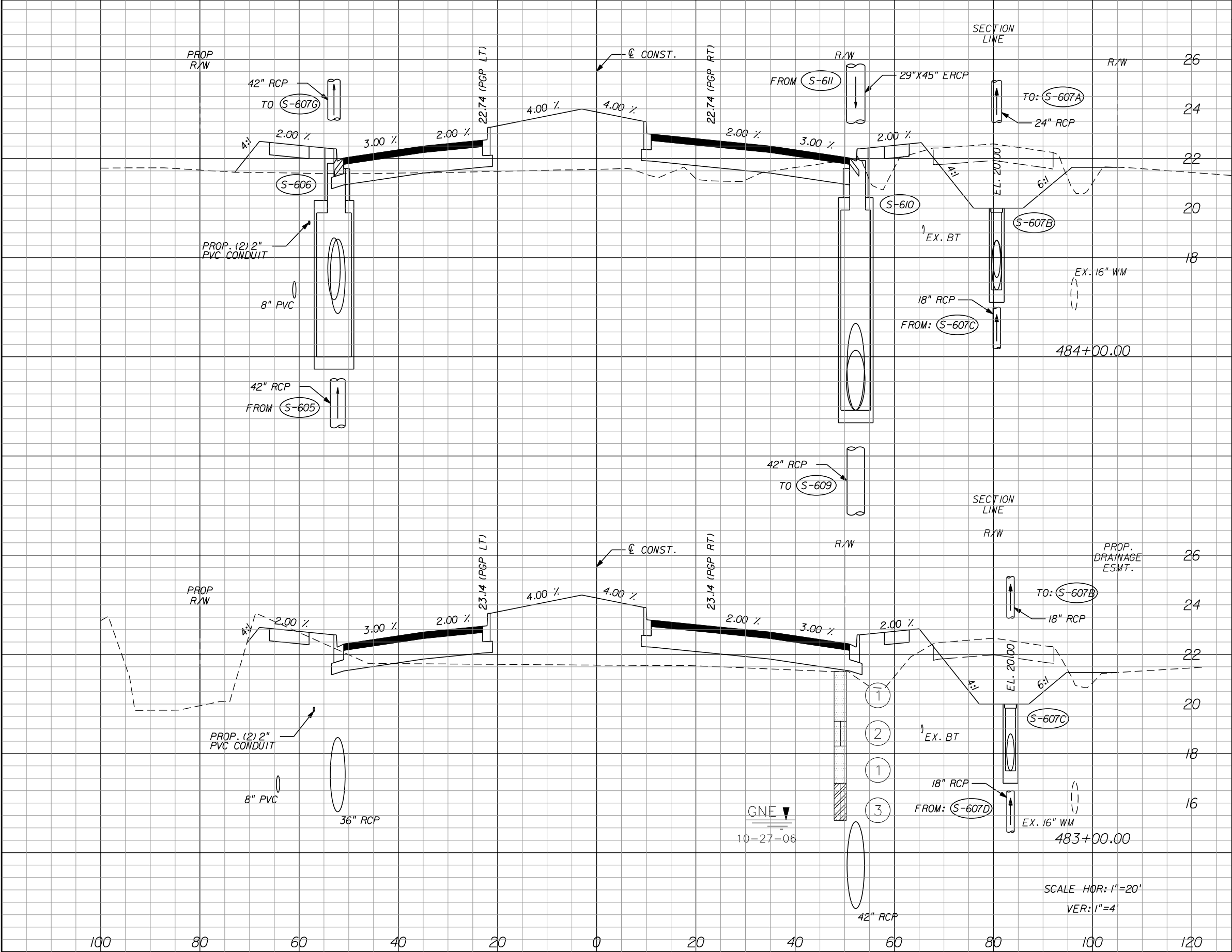
**66th AVENUE
CROSS SECTIONS**

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94

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1505B

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Regular		Exc.	Embankment		Subsoil Exc.	
A	V	A	V	A	V	
63.9		233.0	108.5	431.3		
61.9		304.3	124.4	354.8		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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P.E. LICENSE NUMBER 56939
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INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

66th AVENUE
CROSS SECTIONS

SHEET NO.

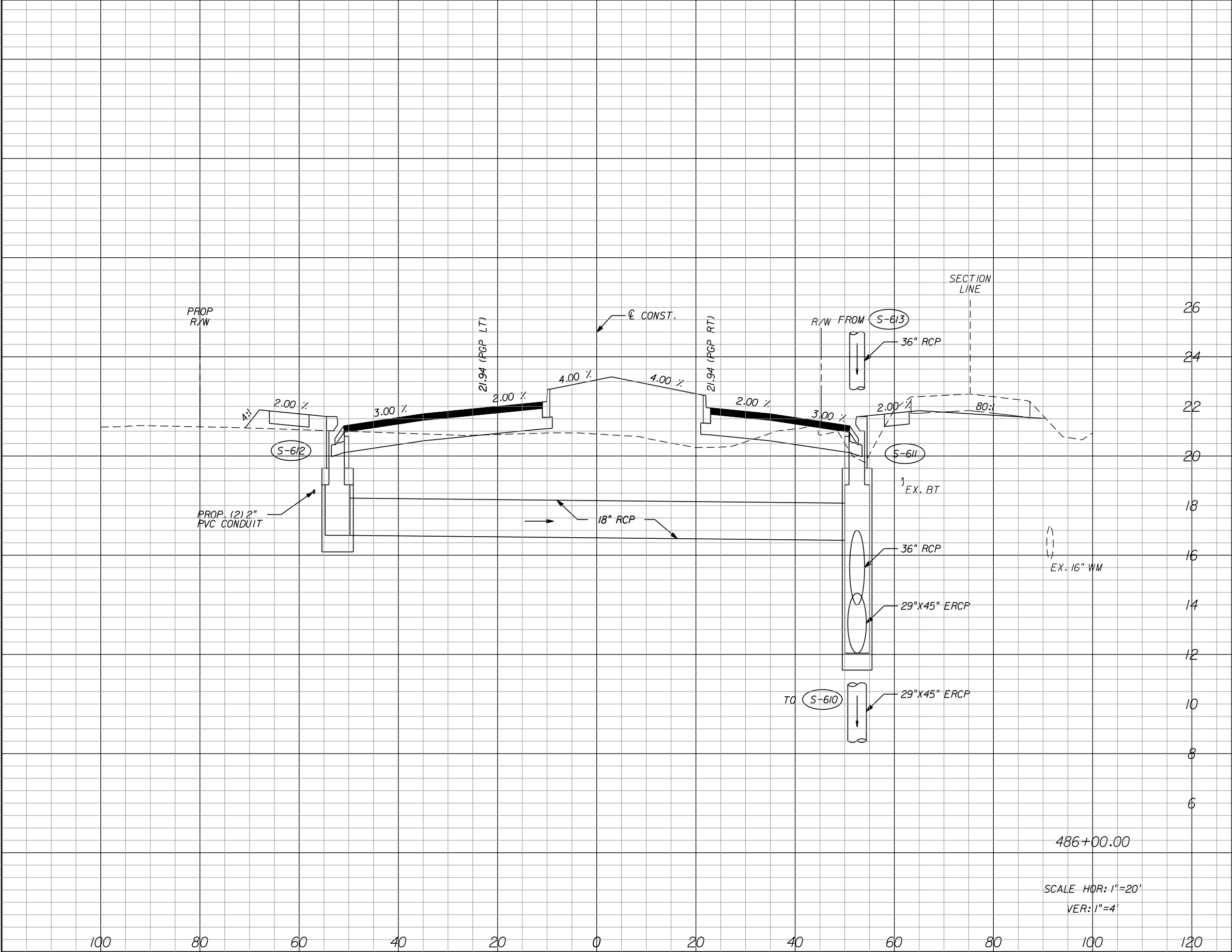
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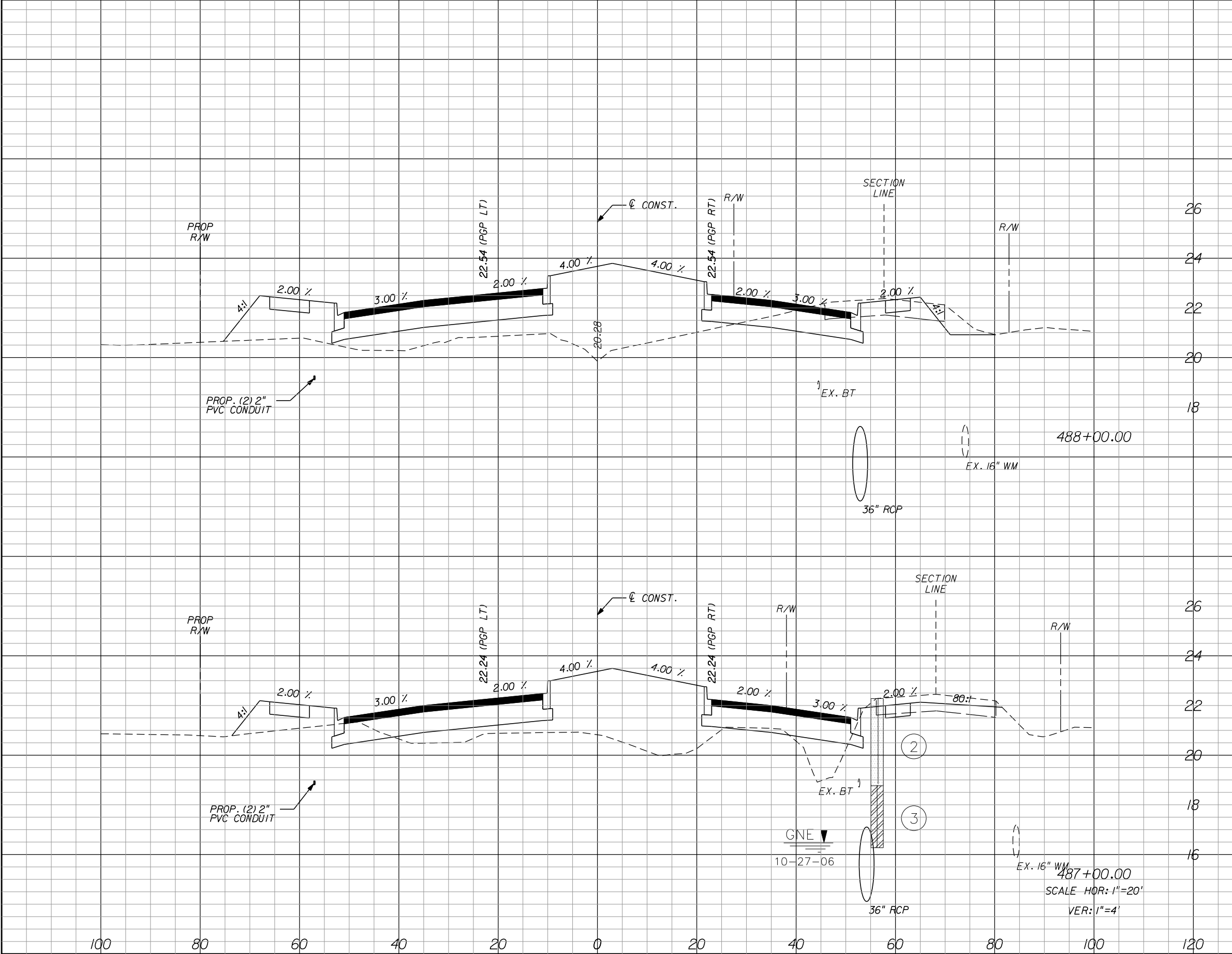
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1505B

IR.CO. Proj. No.



Regular		Exc.	Embankment		Subsoil Exc.	
A	V	A	V	A	V	
44.0		199.4	83.9	187.8		97



Regular	Exc.	Embankment		Subsoil Exc.	
		A	V	A	V
24.9	75.7	145.6	495.2		
20.7	119.8	121.8	380.9		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
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REGISTRY No. 696

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

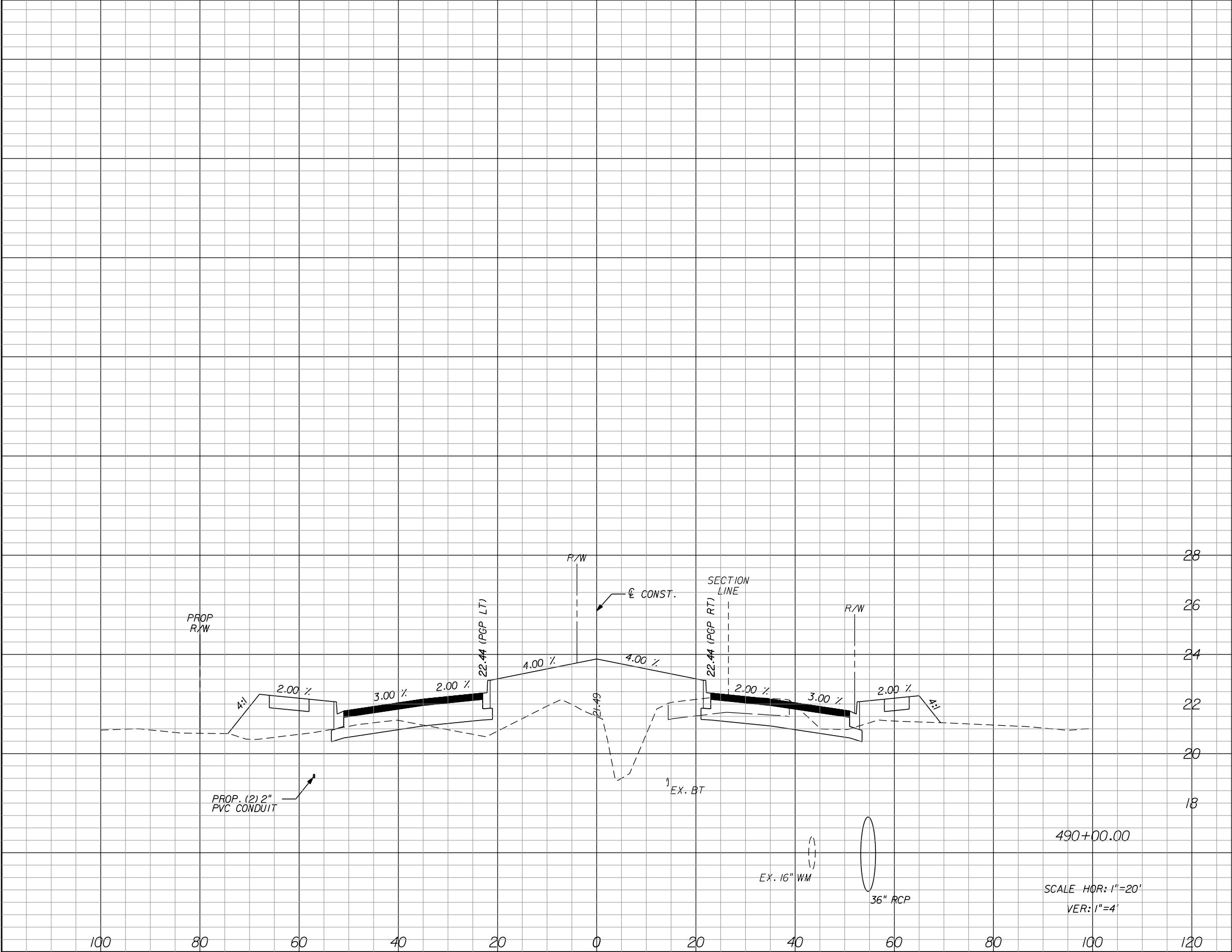
66th AVENUE
CROSS SECTIONS

SHEET NO.
98

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1505B

IR.CO. Proj. No.



Regular		Exc.	Embankment		Subsoil Exc.	
A		V	A	V	A	V
32.4		97.2	128.9	655.7		

DATE

BY

DESCRIPTION

DATE

BY

DESCRIPTION

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BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
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INDIAN RIVER COUNTY

BOARD OF COUNTY COMMISSIONERS

66th AVENUE FROM 69th STREET

TO SR-510/85th STREET

66th AVENUE

CROSS SECTIONS

SHEET NO.

100

DATE

BY

DESCRIPTION

DATE

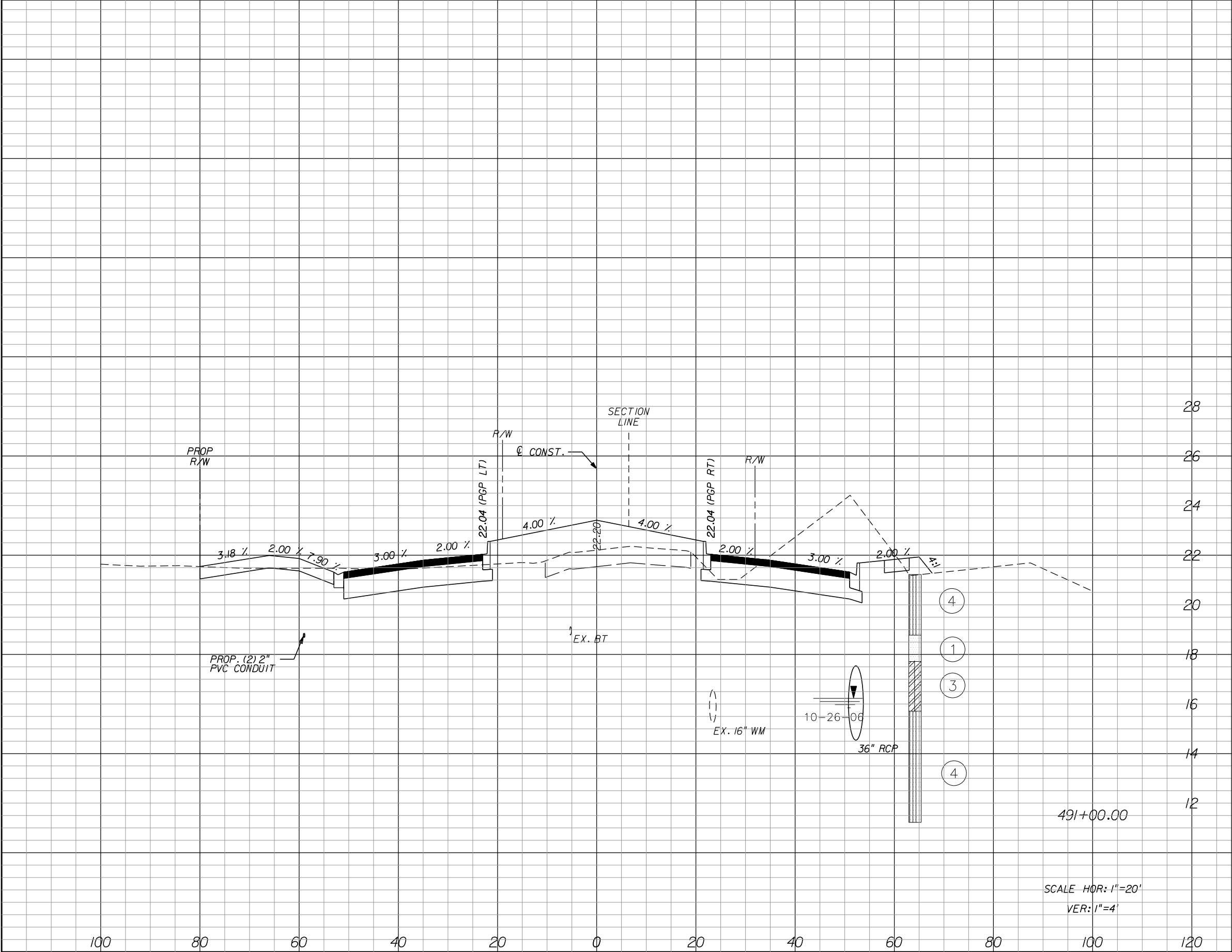
BY

DESCRIPTION

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Regular		Exc.	Embankment		Subsoil Exc.	
A	V	V	A	V	A	V
101.7		248.3	42.9	318.1		

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
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P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 696

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

66th AVENUE
CROSS SECTIONS

SHEET NO.
101

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VER: 1"=4'

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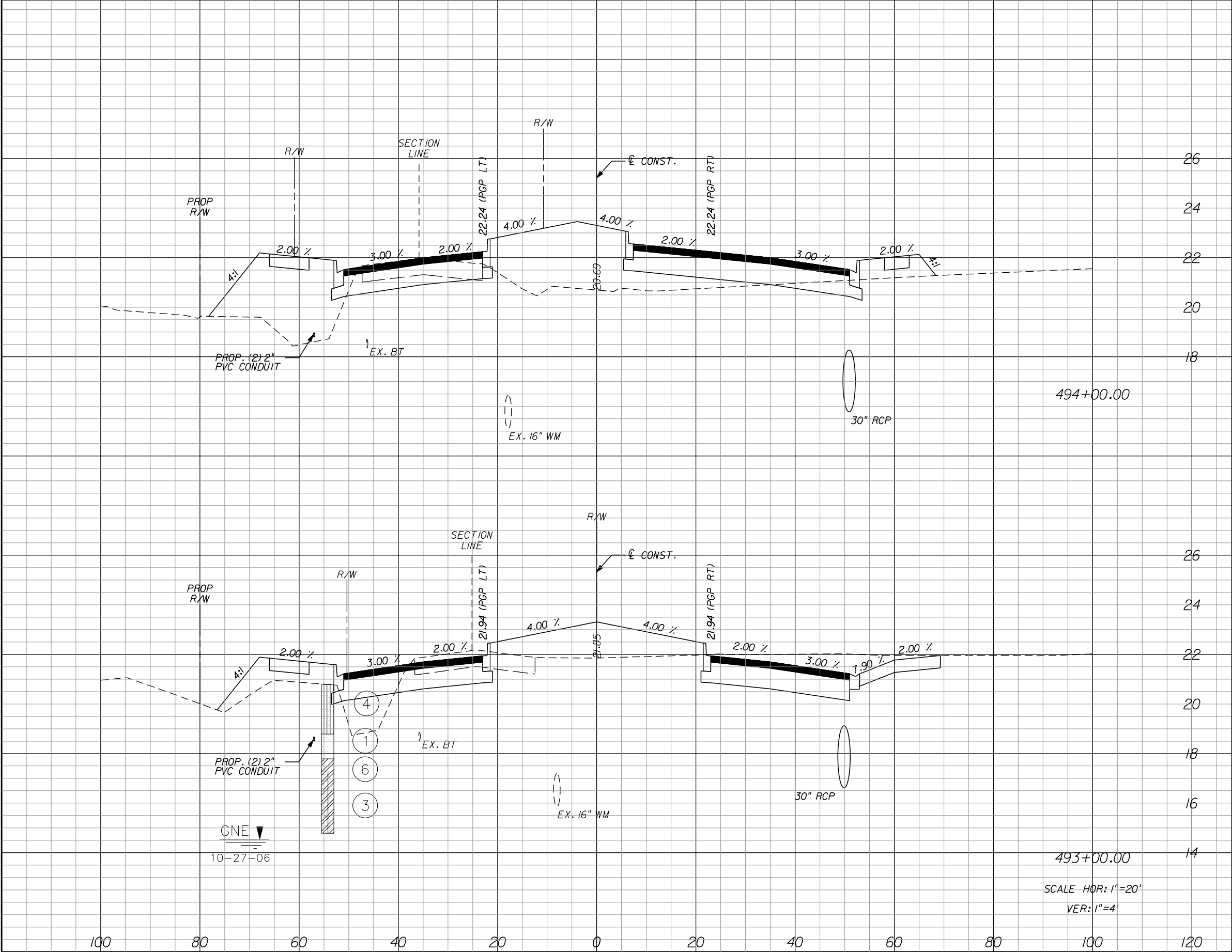
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1505B

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Regular		Exc.	Embankment		Subsoil Exc.	
A		V	A	V	A	V
33.4		215.0	144.5	394.8		
82.7		298.1	68.7	208.1		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

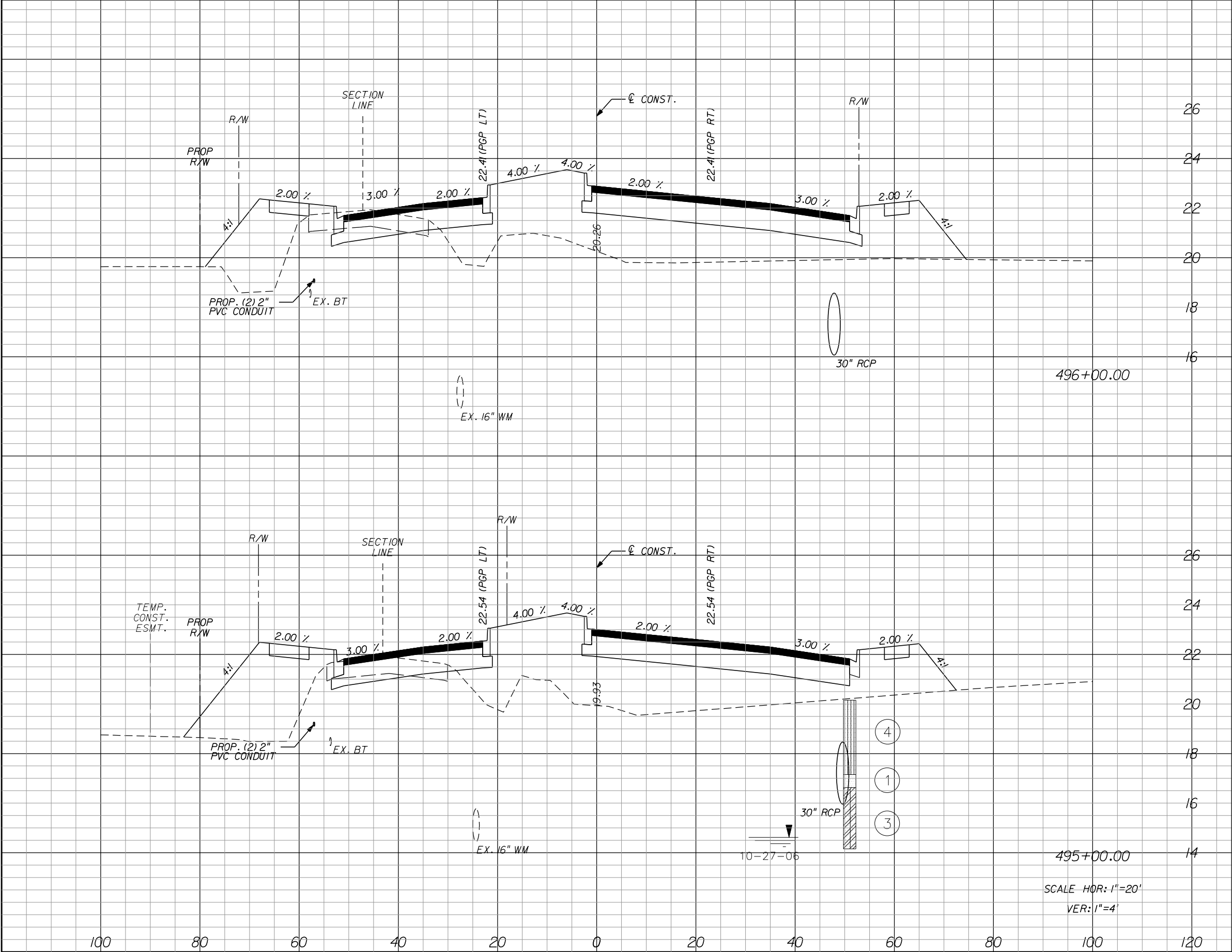
Kimley»Horn
BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 696

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

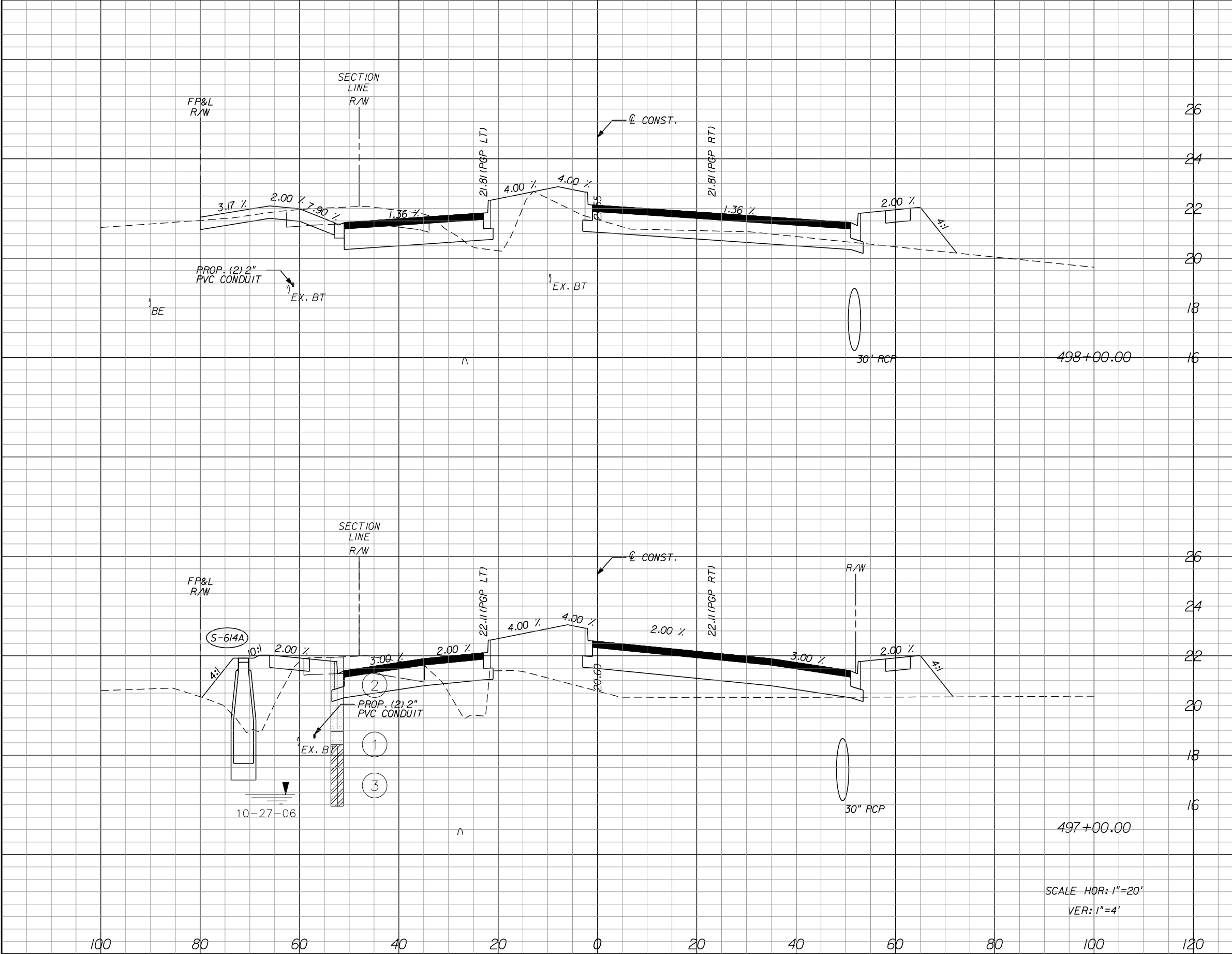
66th AVENUE
CROSS SECTIONS

SHEET NO.
103

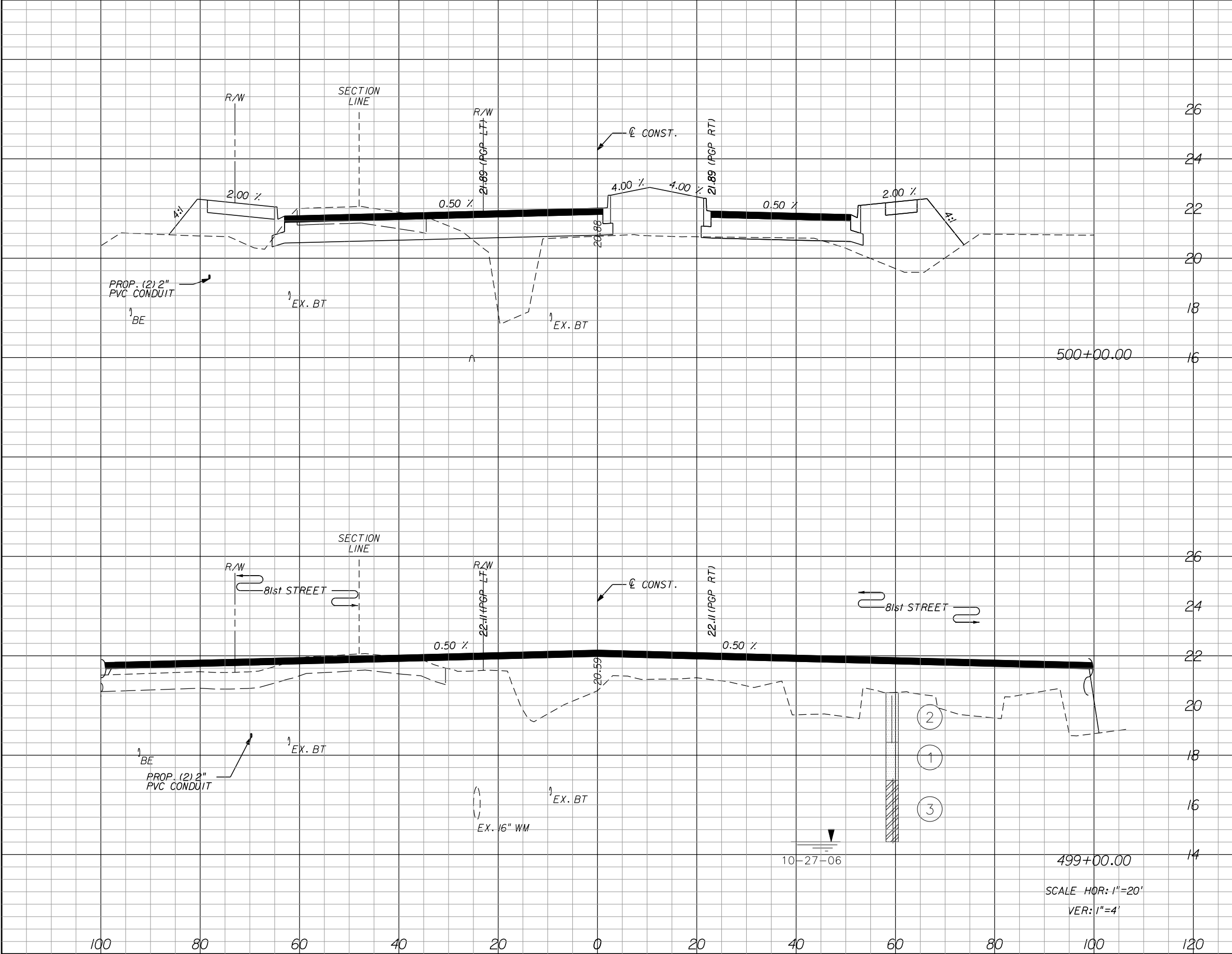
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Regular		Exc.	Embankment		Subsoil Exc.	
A		V	A	V	A	V
18.9		68.3	212.8		836.1	
18.0		95.2	239.3		710.7	



Regular		Exc.	Embankment		Subsoil Exc.	
A		V	A	V	A	V
63.7		170.7	39.6	315.6		
28.5		87.8	130.8	635.2		



Regular	Exc.	Embankment		Subsoil Exc.	
		A	V	A	V
43.5	92.8	126.9	579.8		
6.6	130.2	186.2	418.1		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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P.E. LICENSE NUMBER 56939
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VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 696

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

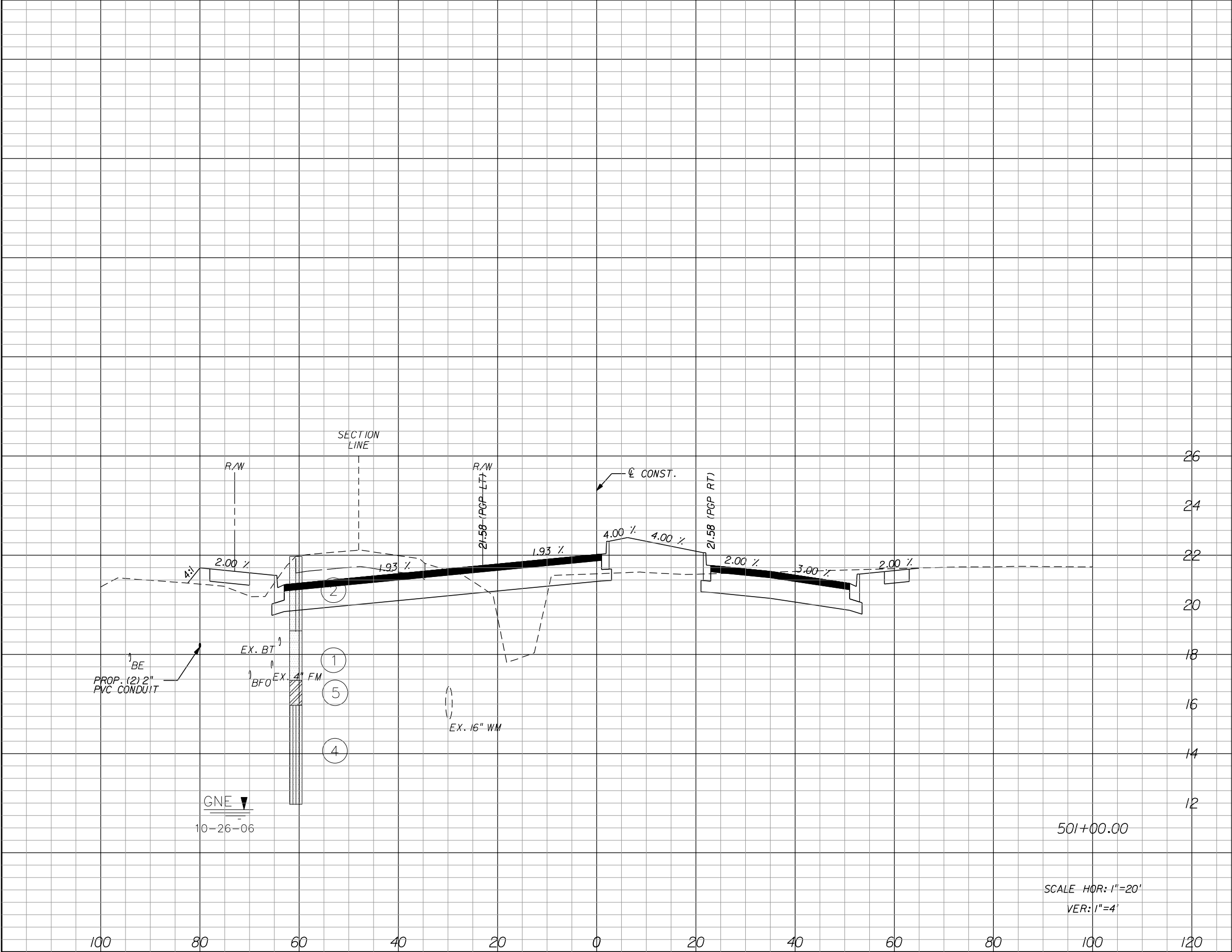
66th AVENUE
CROSS SECTIONS

SHEET NO.
106

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IR.CO. Proj. No.

1505B



Regular		Exc.	Embankment		Subsoil Exc.	
A		V	A	V	A	V
116.0		295.4		54.1		335.2

DATE

BY

DESCRIPTION

DATE

BY

DESCRIPTION

Kimley»Horn

BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 696

INDIAN RIVER COUNTY

BOARD OF COUNTY COMMISSIONERS

66th AVENUE FROM 69th STREET

TO SR-510/85th STREET

66th AVENUE

CROSS SECTIONS

SHEET NO.

107

DATE

BY

DESCRIPTION

DATE

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DESCRIPTION

10:50:00 AM

1/10/2023

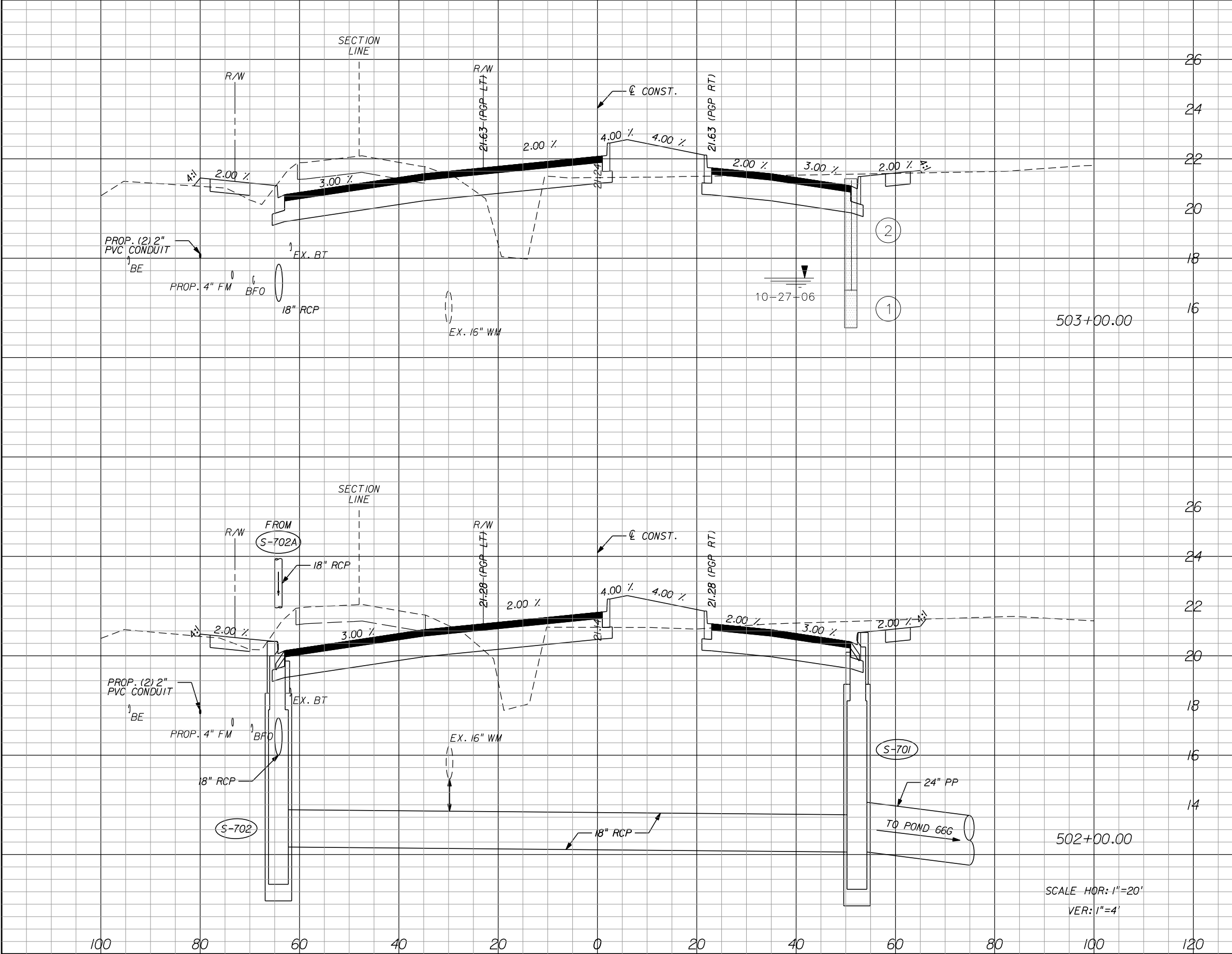
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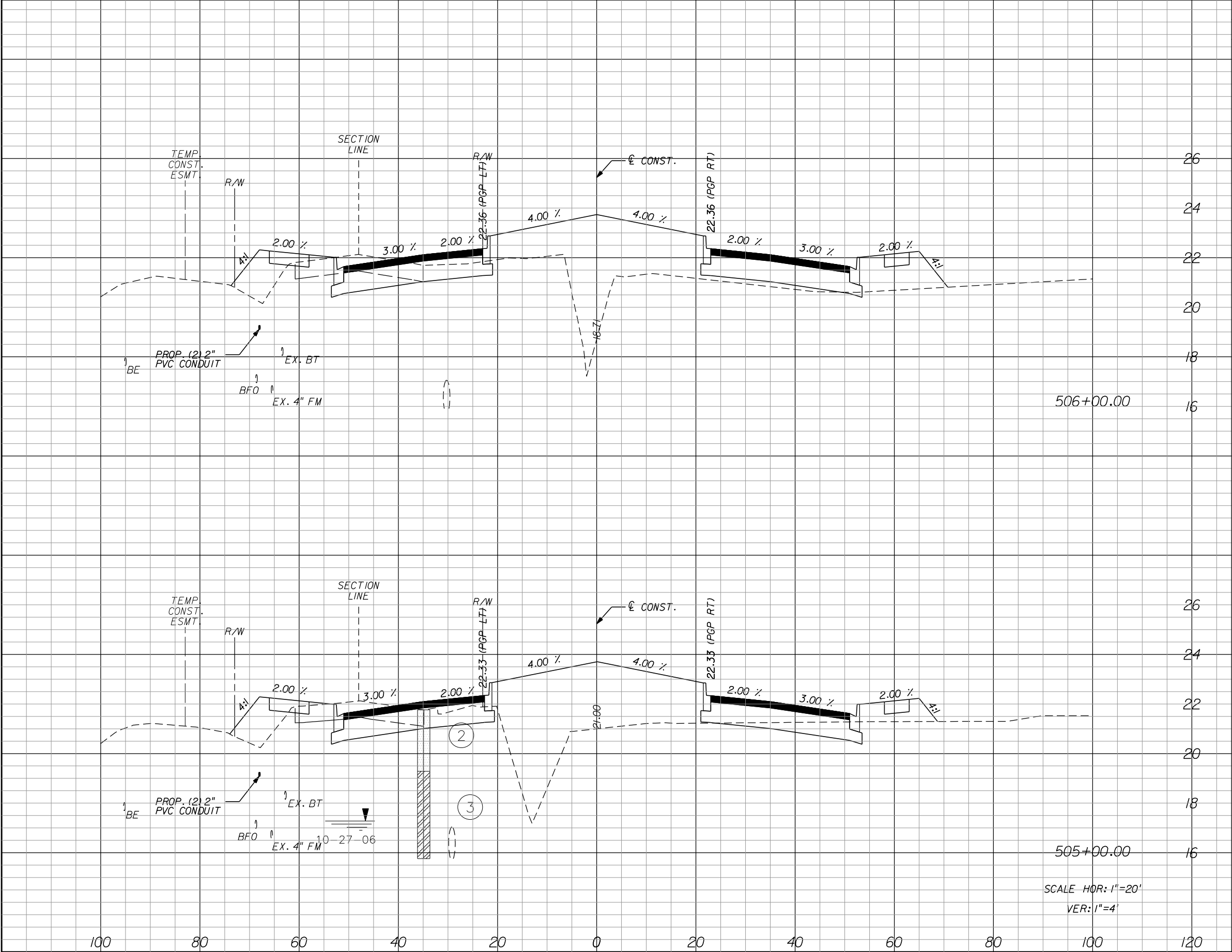
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Regular		Exc.	Embankment		Subsoil Exc.	
A		V	A	V	A	V
113.2		478.7	50.0	166.1		
145.3		483.9	39.7	173.7		



Regular		Exc.	Embankment		Subsoil Exc.	
A		V	A	V	A	V
30.9		138.9	130.6	501.9		
44.1		287.3	140.4	307.7		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
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P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 696

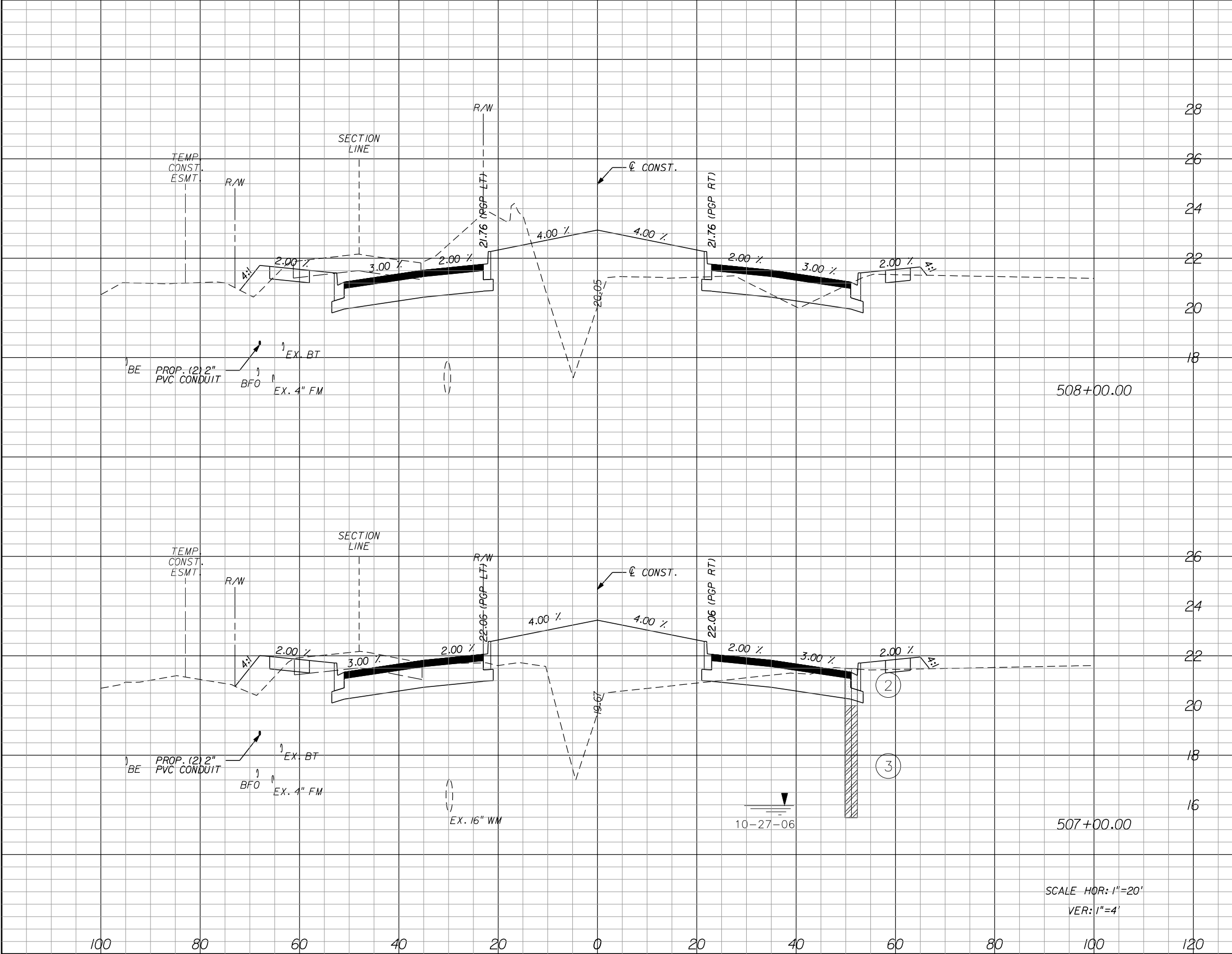
mike.forman

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

66th AVENUE
CROSS SECTIONS

SHEET NO.
110

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Regular		Exc.	Embankment		Subsoil Exc.	
A		V	A	V	A	V
		97.6	85.6			
		297.8	377.2			
		63.2	118.1			
		174.3	460.6			

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

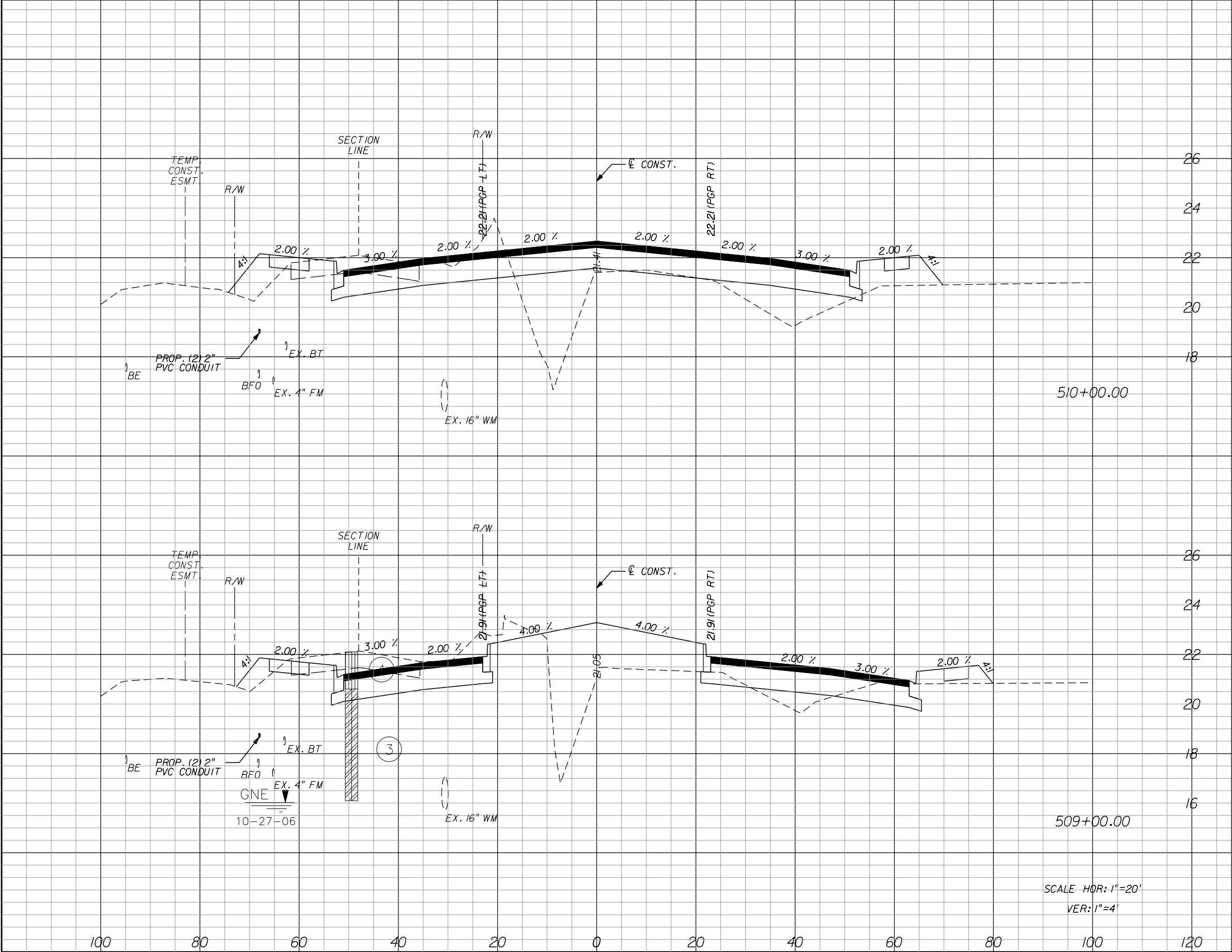
Kimley»Horn
BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 696

**INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS**
**66th AVENUE FROM 69th STREET
TO SR-510/85th STREET**

**66th AVENUE
CROSS SECTIONS**

SHEET NO.
III

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Regular		Exc.	Embankment		Subsoil Exc.	
A		V	A	V	A	V
47.4		224.4	86.2	327.2		
73.8		317.4	90.5	326.1		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 696

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

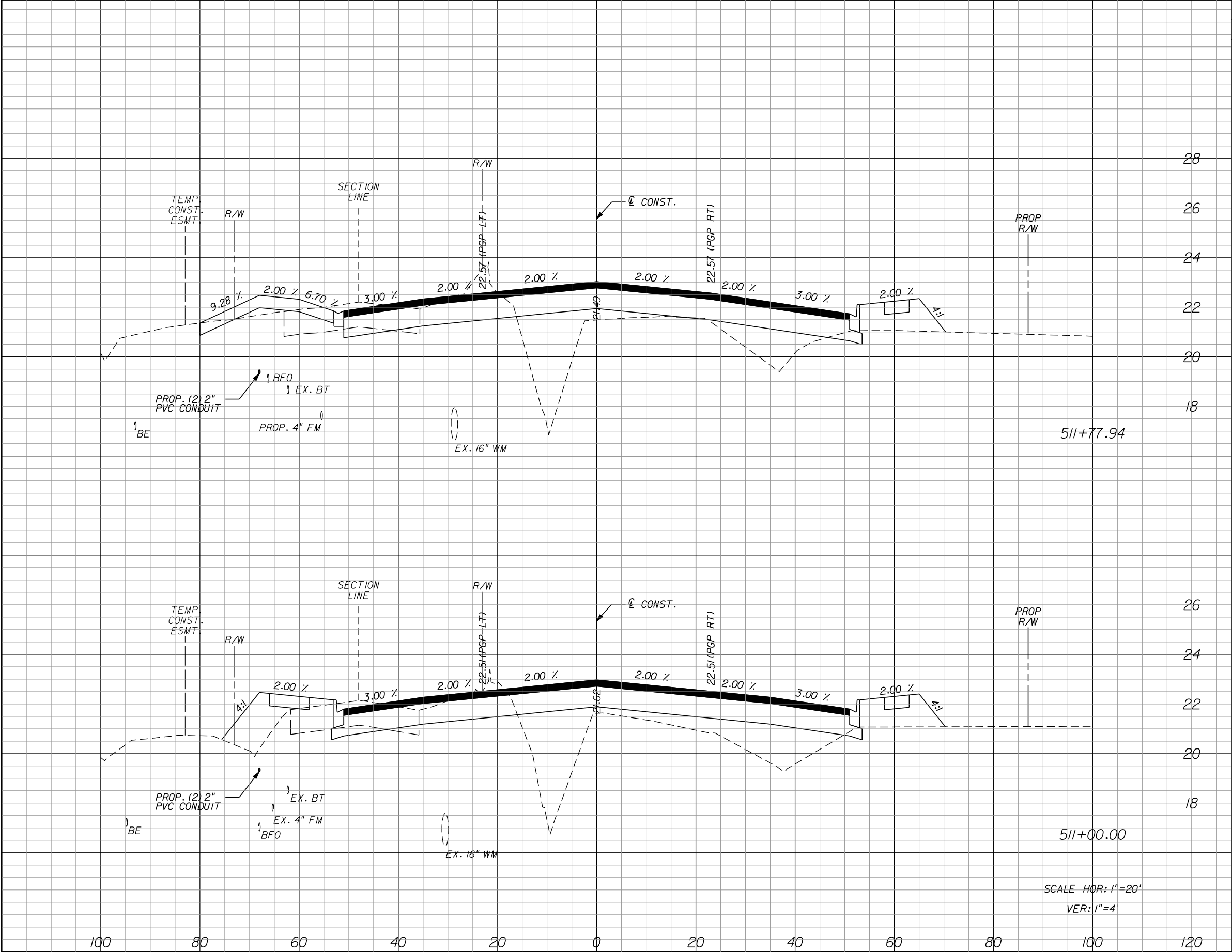
66th AVENUE
CROSS SECTIONS

SHEET NO.
112

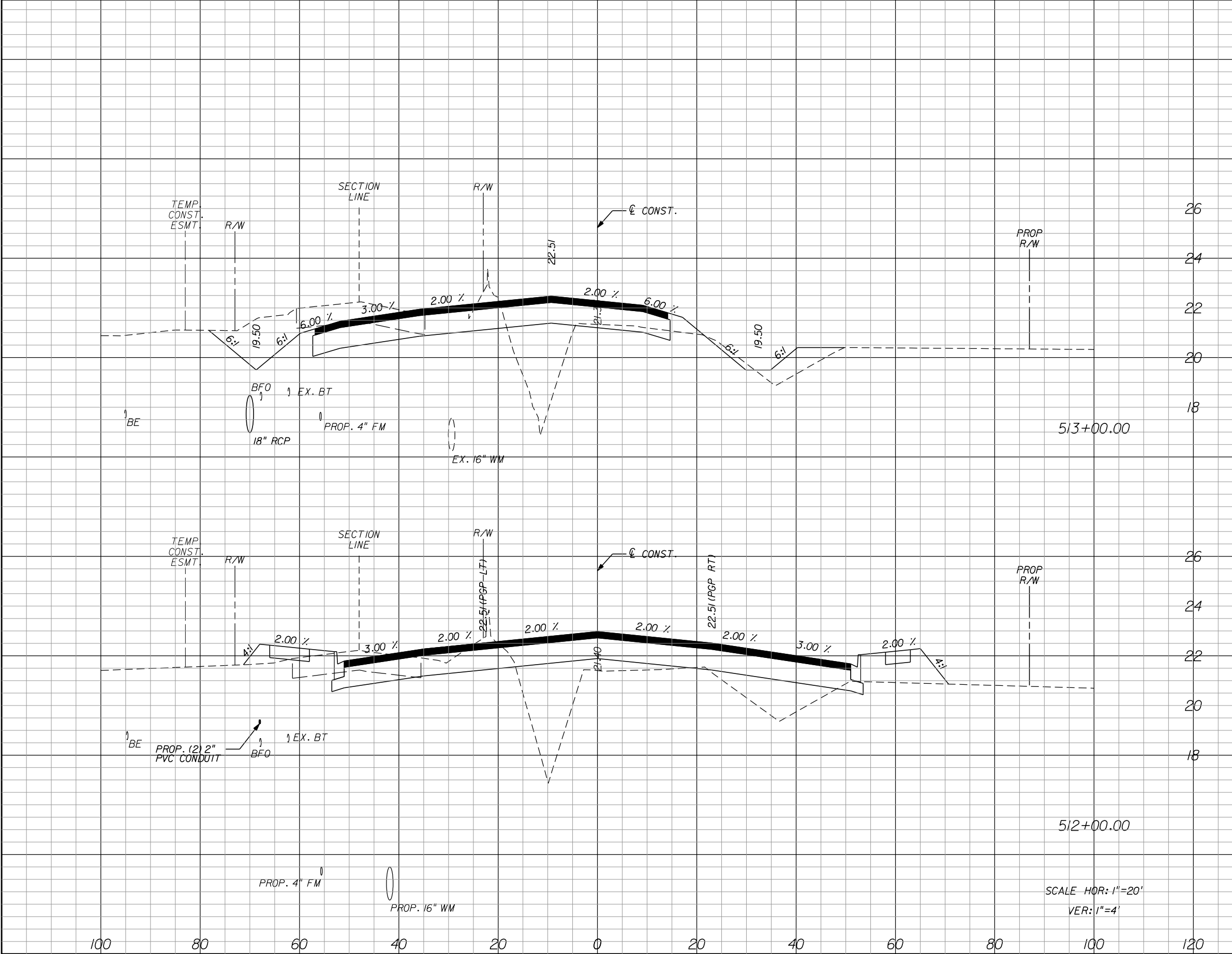
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IRCO Proj. No.

1505B



Regular	Exc.	Embankment		Subsoil Exc.	
		A	V	A	V
46.9	122.4	74.6	261.7		
37.9	158.0	106.7	357.2		



Regular	Exc.	Embankment		Subsoil Exc.	
		A	V	A	V
81.0	222.6	43.1	233.3		
39.2	35.2	82.9	64.3		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

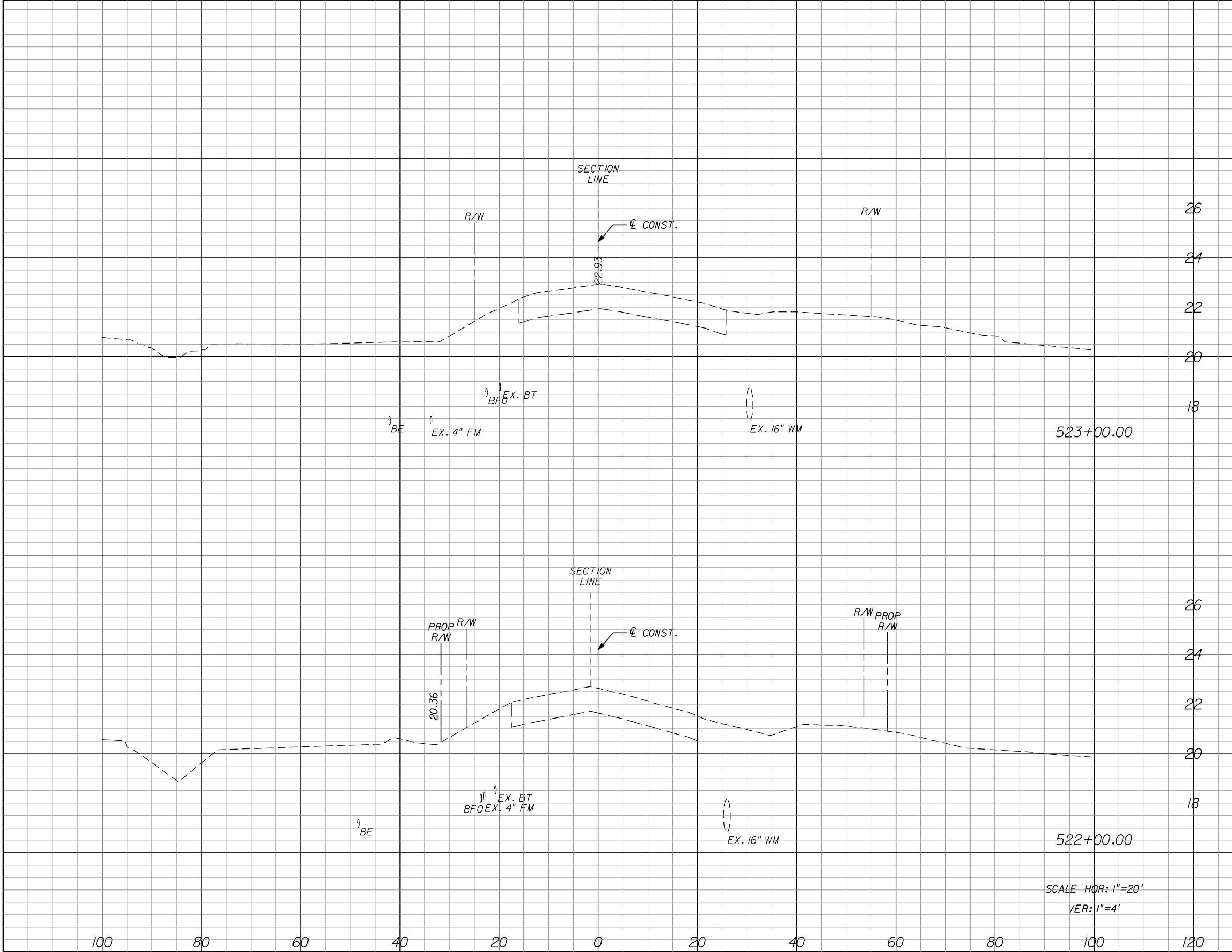
Kimley»Horn
BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
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REGISTRY No. 696

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

66th AVENUE
CROSS SECTIONS

SHEET NO.
114

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Regular		Exc.	Embankment		Subsoil Exc.	
A	V	V	A	V	A	V

REVISIONS			
DATE	BY	DESCRIPTION	

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BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 696

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

66th AVENUE
CROSS SECTIONS

SHEET NO.

121

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1505B

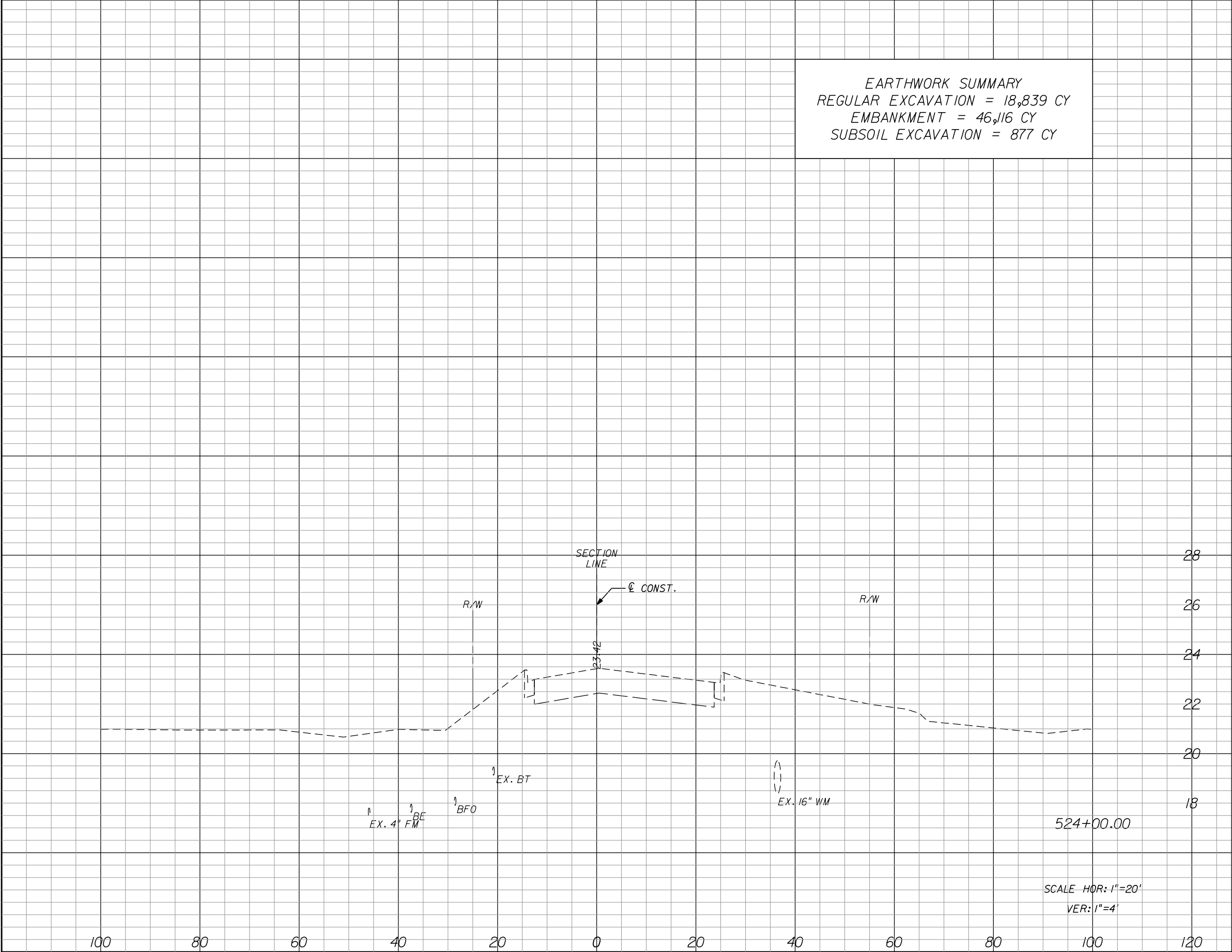
IR.CO. Proj. No.

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1/10/2023

Mike Forman

K:\VRB_Roadway\47035041\Cadd\Phase II Construction Plans\RD\SRD66.dgn



EARTHWORK SUMMARY
REGULAR EXCAVATION = 18,839 CY
EMBANKMENT = 46,116 CY
SUBSOIL EXCAVATION = 877 CY

Regular Exc.		Embankment		Subsoil Exc.	
A	V	A	V	A	V

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
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INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

66th AVENUE
CROSS SECTIONS

SHEET NO.
122

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

1505B

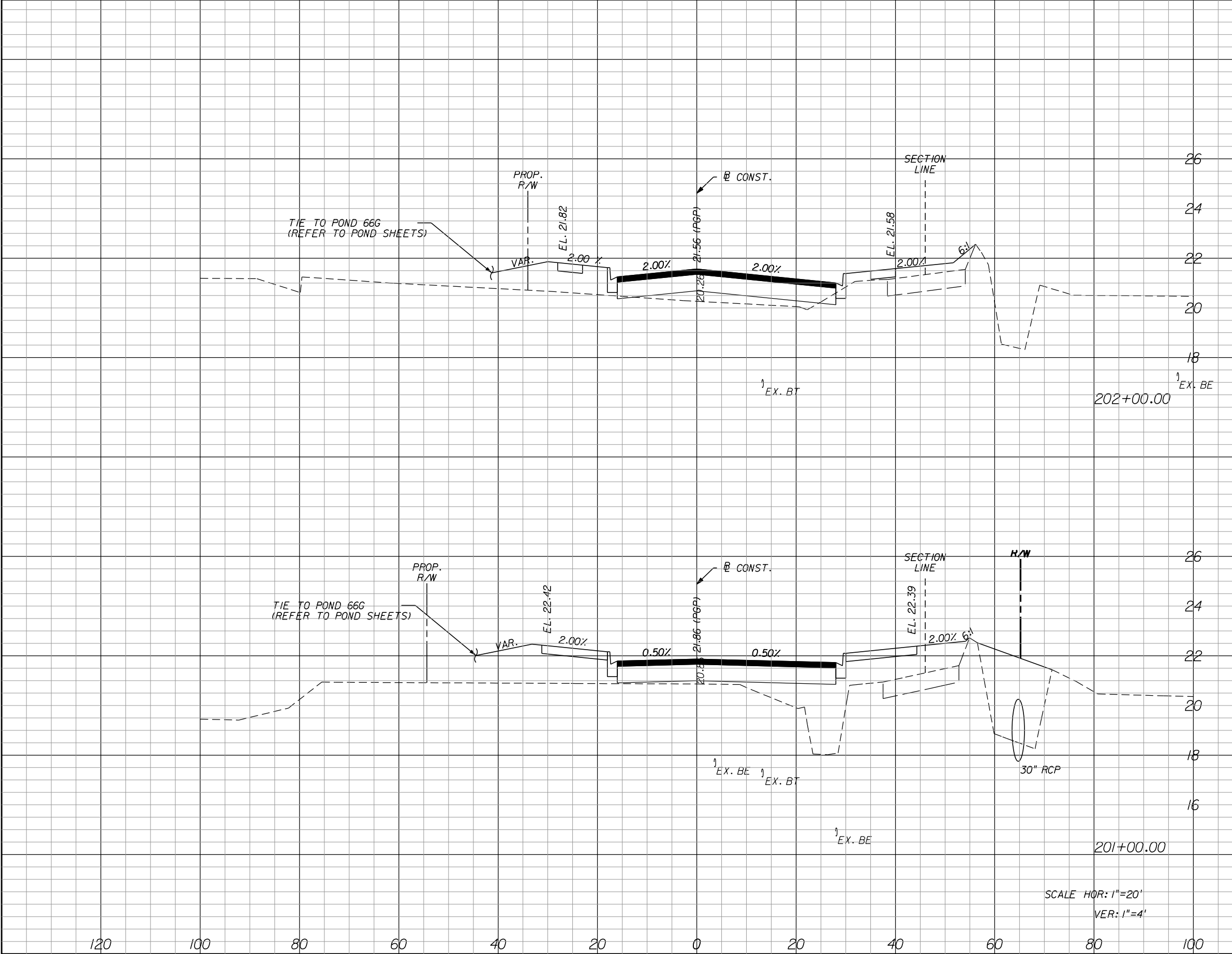
IR.CO. Proj. No.

mike.farman

11/10/2023

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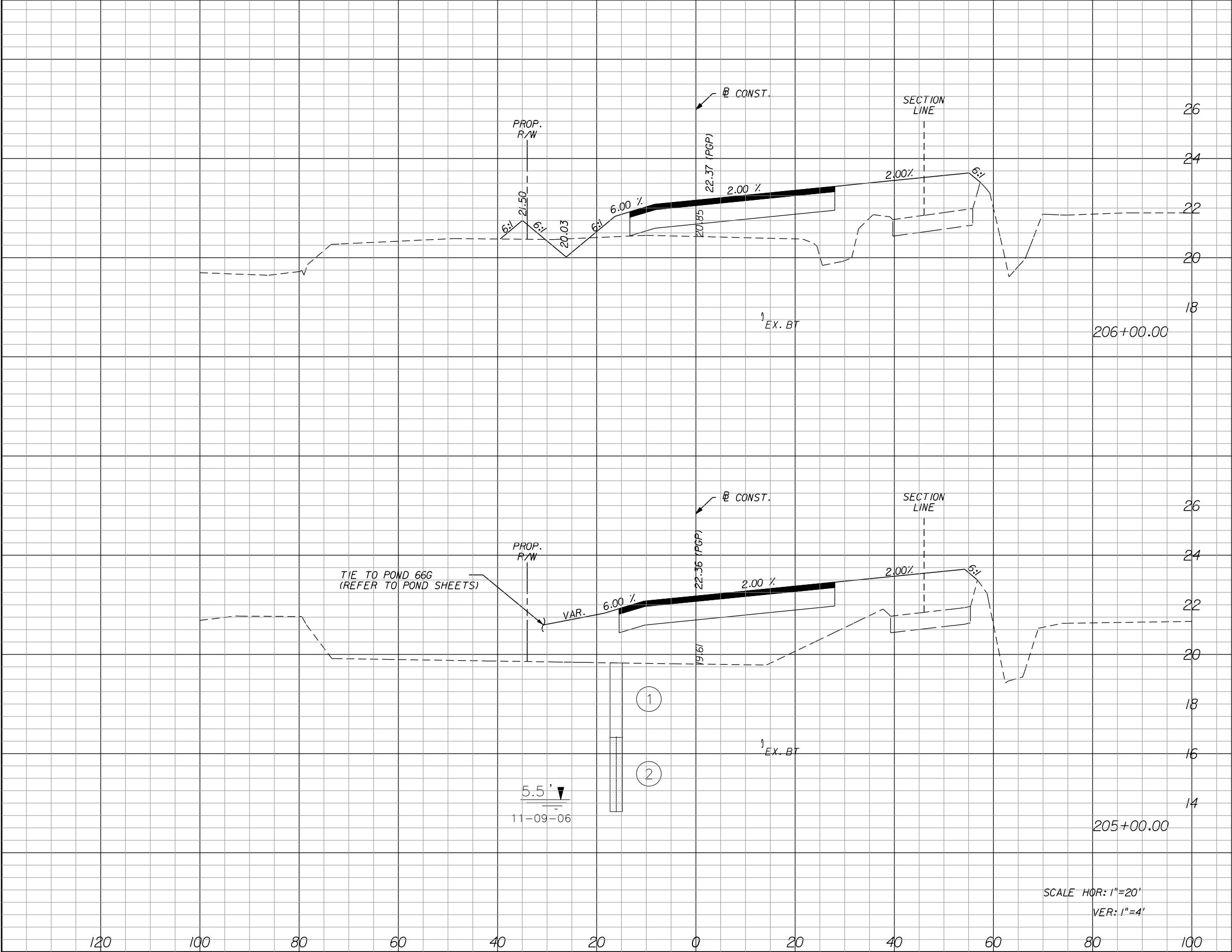


Regular	Exc.	Embankment		Subsoil Exc.	
		A	V	A	V
1.7	3.1	41.3	322.4		
0.0	0.0	132.8	350.6		

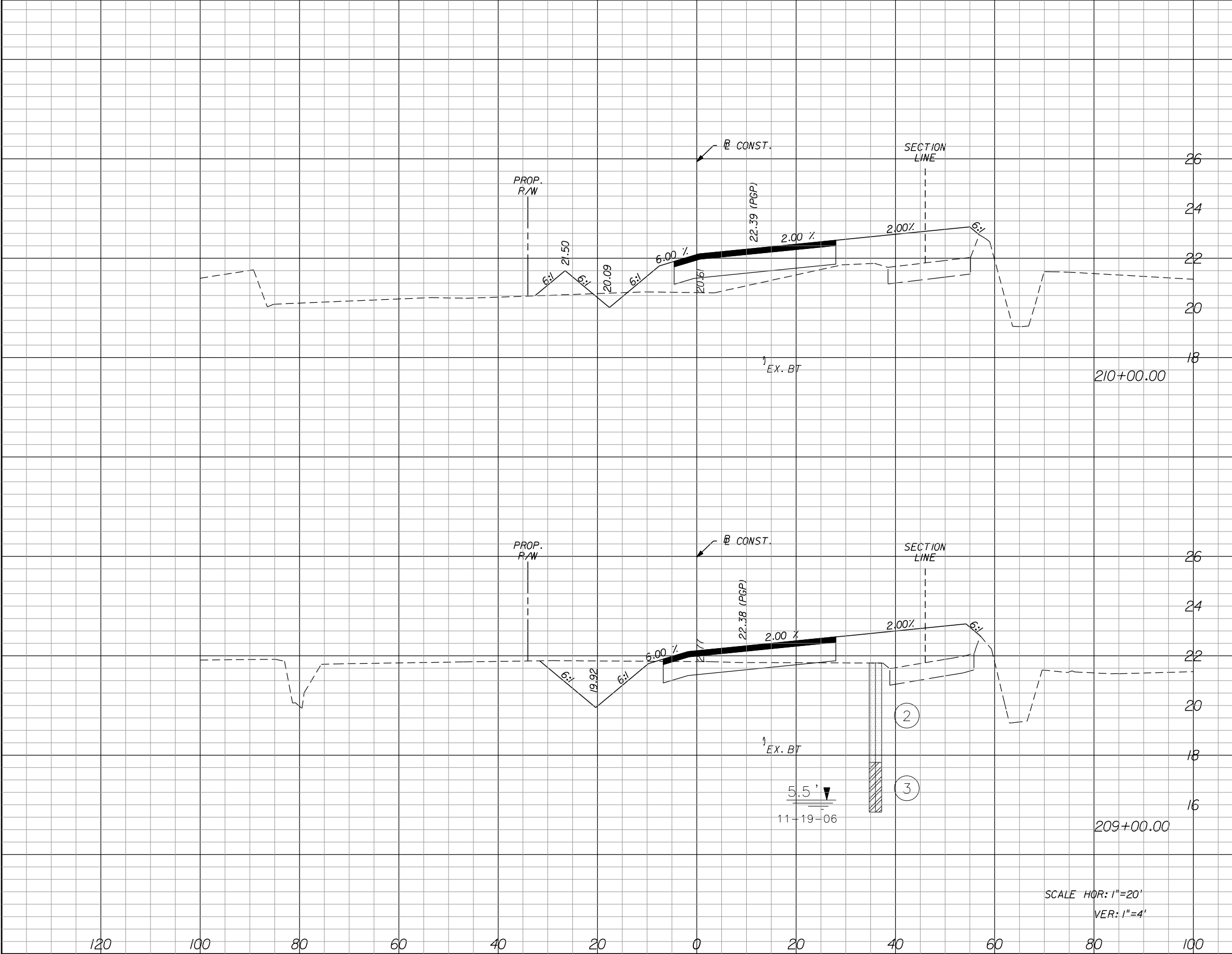
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1505B

IR.CO. Proj. No.

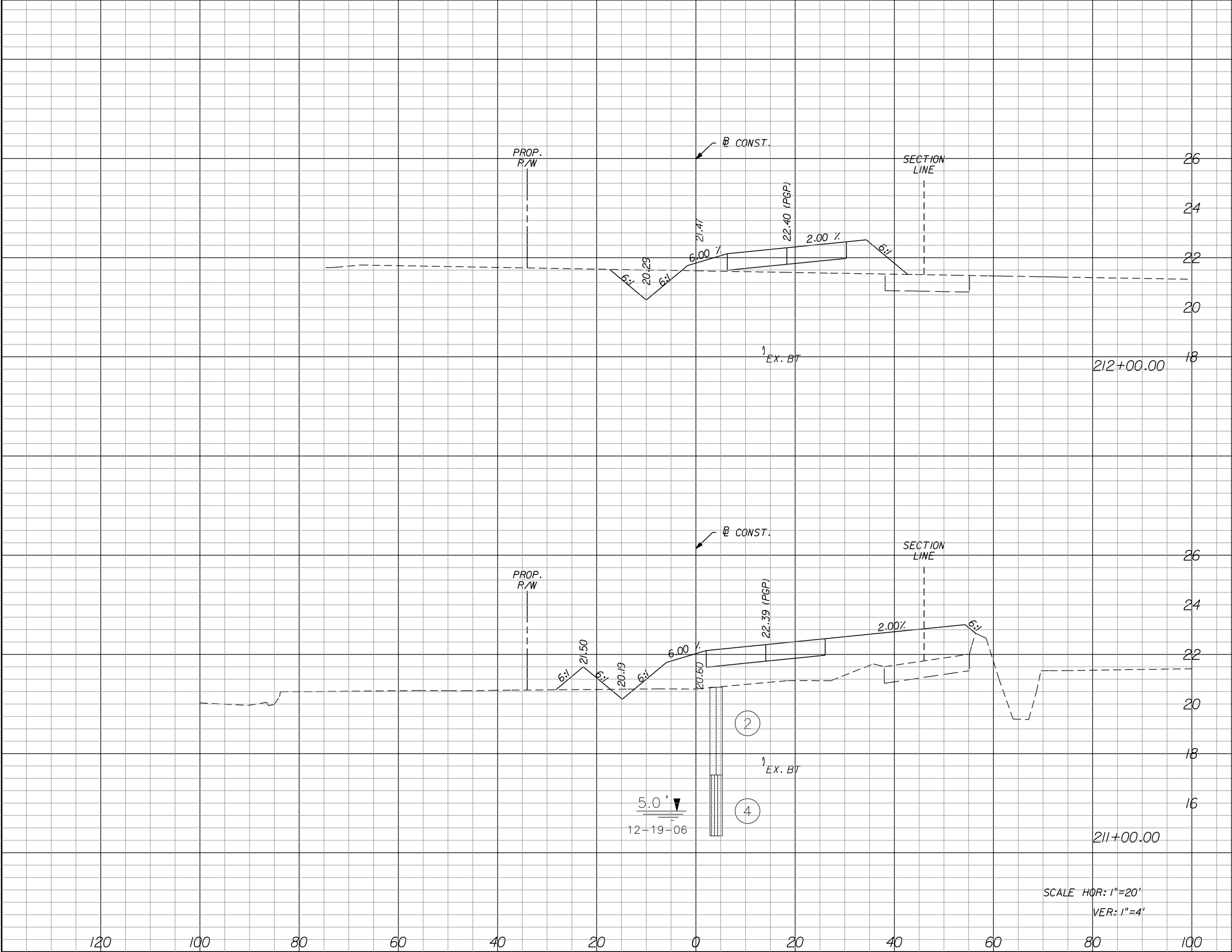


Regular		Exc.	Embankment		Subsoil Exc.	
A		V	A	V	A	V
3.2		5.9	88.6	434.1		
0.0		0.0	145.8	573.9		

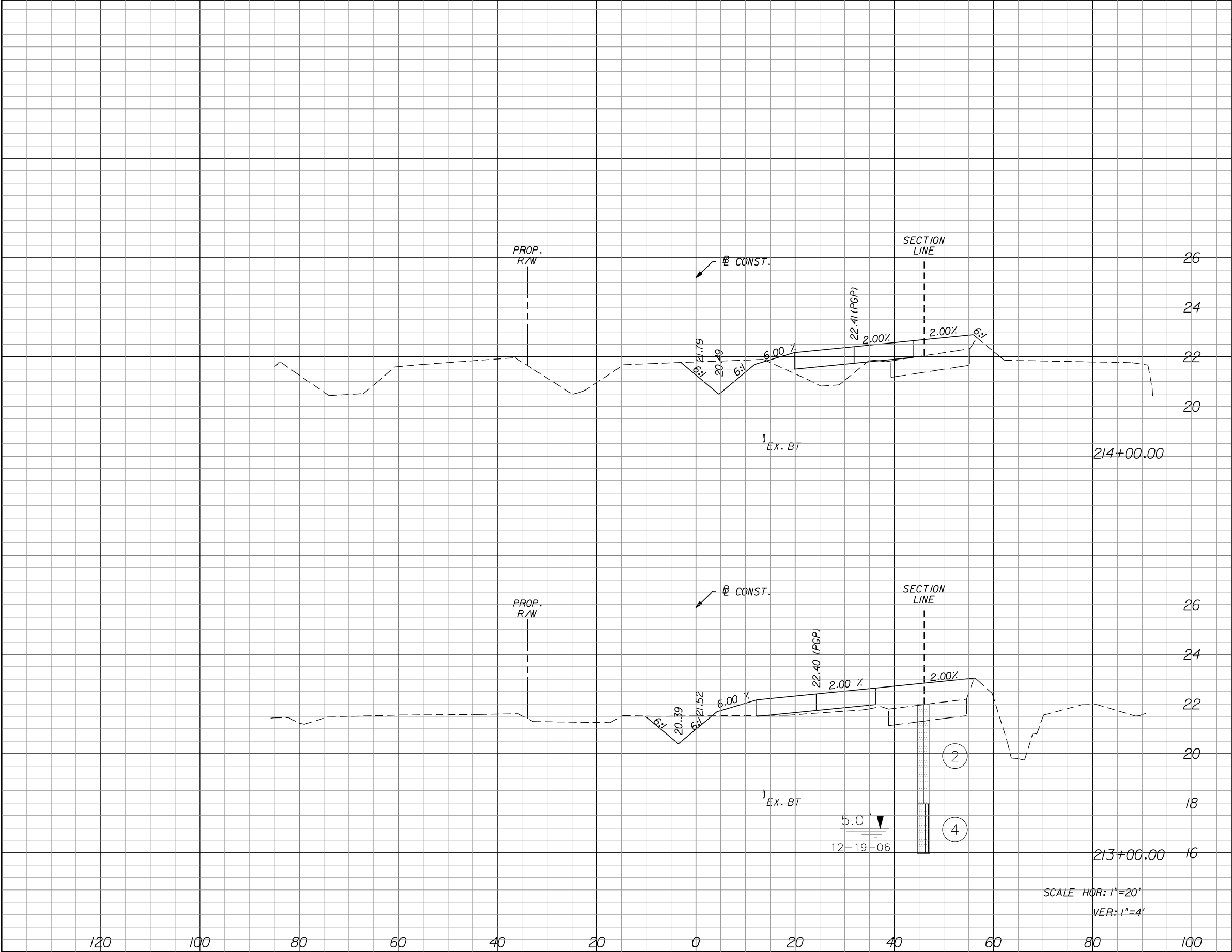


Regular		Exc.	Embankment		Subsoil Exc.	
A	V	A	V	A	V	
2.0		62.6	59.4	177.8		
31.8		94.3	36.6	162.6		

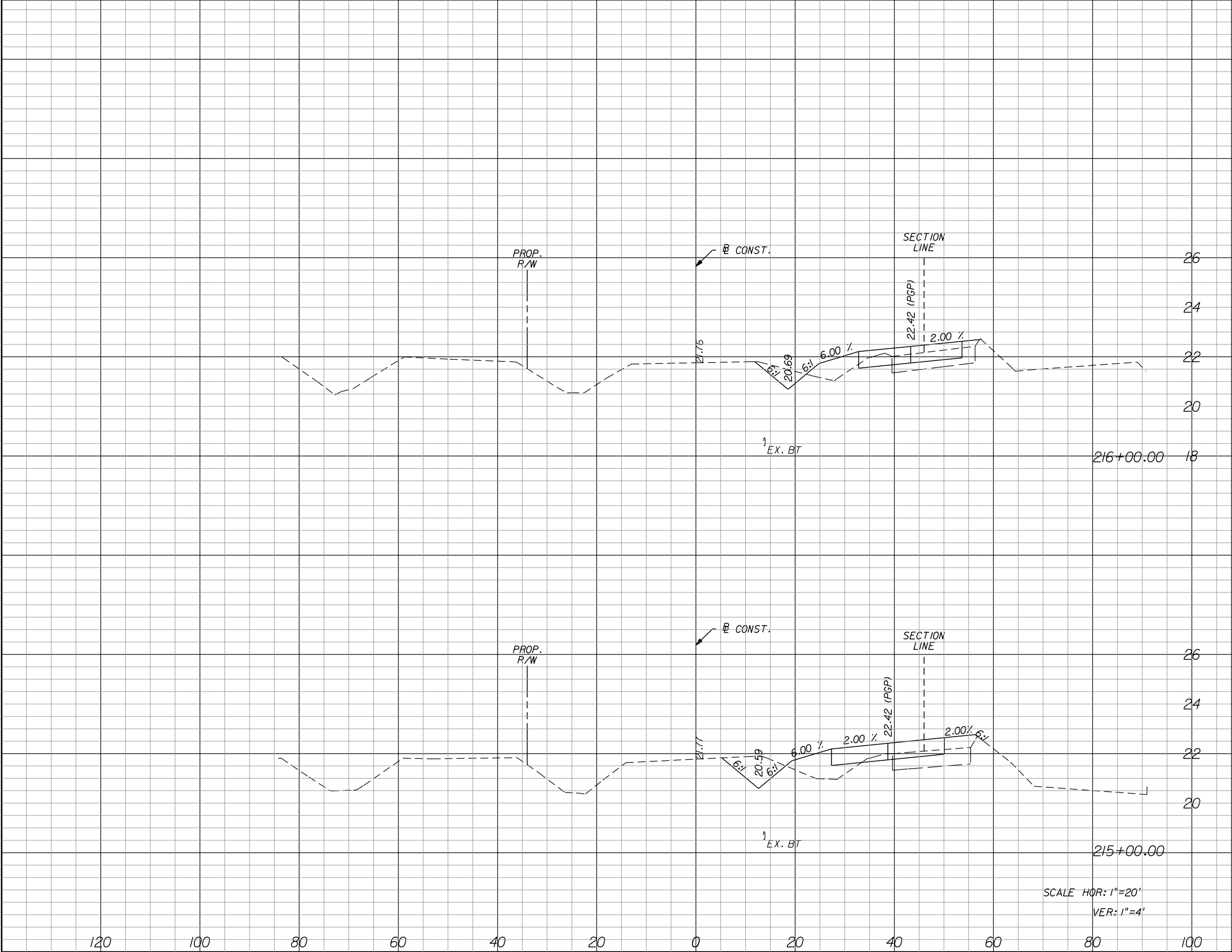
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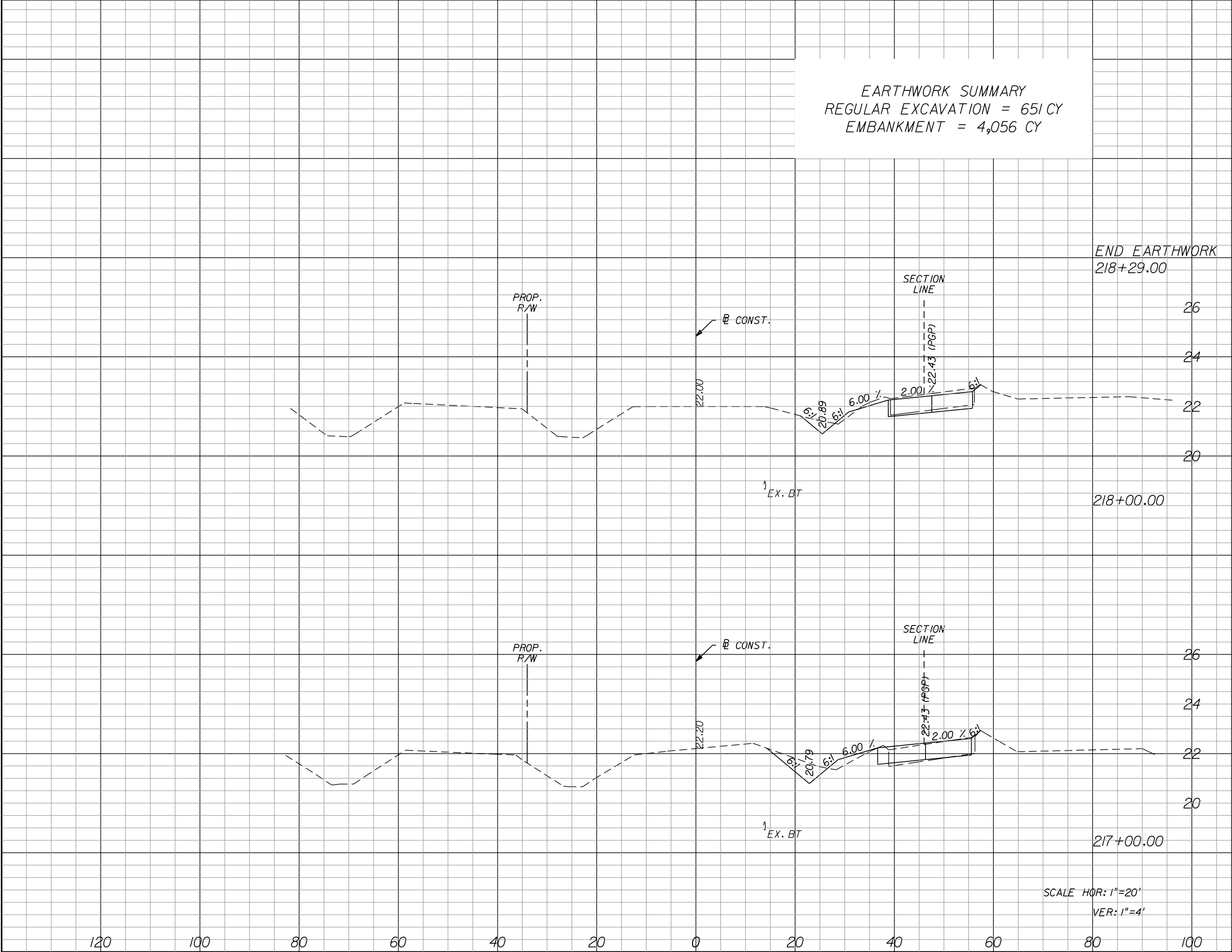
Regular		Exc.	Embankment		Subsoil Exc.	
A		V	A	V	A	V
8.8		18.1	22.6	190.4		
1.0		5.6	80.2	258.5		



Regular		Exc.	Embankment		Subsoil Exc.	
A		V	A	V	A	V
11.0		34.4	17.7	73.1		
7.6		30.4	21.8	82.2		



Regular	Exc.	Embankment		Subsoil Exc.	
		A	V	A	V
12.1	44.4	7.2	35.4		
11.9	42.4	11.9	54.8		



EARTHWORK SUMMARY
REGULAR EXCAVATION = 651 CY
EMBANKMENT = 4,056 CY

END EARTHWORK
218+29.00

Regular		Exc.	Embankment		Subsoil Exc.	
A	V	V	A	V	A	V
15.5	60.0	0.6	4.4			
16.9	53.7	1.8	16.7			

I. Site Description:

- a. Construction Activity: Widening of 66th Avenue to a 4 lane divided urban section with paved shoulders, sidewalks, and landscaping.
- b. Sequence of Major Soil Disturbing Activities: Soil disturbing activities will take place during much of the anticipated construction period of this project. The following soil disturbing activities are listed in the approximate order in which they are anticipated to occur.

1. Install Stabilized Construction Entrance(s)
2. Clearing and Grubbing
3. Stormwater Management Facility Construction
4. Excavation of Soils
5. Embankment Construction
6. Stabilization and Temporary Sodding
7. Roadway Grading and Construction
8. Final Grading and Sodding

c. Total Project Area: 62.2 Ac
Total Area to be Disturbed: 62.2 Ac

- d. Runoff Data:
The following is a list of the drainage basin, the area of the basin and the runoff coefficient before, during, and after construction.

Basin	Area (Ac.)	Before Construction	During Construction	After Construction
66D	9.77	0.478	0.585	0.692
66E	13.38	0.424	0.513	0.601
66F	13.14	0.426	0.523	0.623
66G	66.10	0.381	0.445	0.508

- e. Site Map: See KEY SHEET

- f. Receiving Waters: Indian River Lagoon

2. Controls

A). Erosion and Sediment Controls: The soil erosion and sediment controls shall be maintained by the contractor to minimize the amount of soil disturbed, prevent offsite runoff from discharging across disturbed areas, and remove on-site sediment prior to discharge of runoff from the site.

All items represented in the following discussion are treated in detail in the "Florida Department of Transportation Standard Specification for Road and Bridge Construction" or will be implemented by the Engineer in a manner appropriate to environmentally sensitive construction practices. The contractor will generate site specific erosion control plan including an implementation schedule for each phase of construction operations or activities. The Contractor will also be required to modify the plan or materials to adapt to seasonal variations and supply contract time schedules for the implementation of each subunit.

- (a) Stabilization Practices: During construction the contractor will provide temporary seeding for areas which have been cleared and not reworked within 14 calendar days. The entire cleared and unpaved portion of the project will be sodded or mulched and seeded upon completion. Bare soil areas will be kept to a minimum. Stabilization Practices will include:

Permanent sodding
Limiting steep slopes
Minimizing the area of disturbed soils at any given time
Preservation of natural vegetation
Soil retaining measures
Dust control

- (b) Structural Practices will include:

Staked Silt Fences (if)
Synthetic Bales (if)
Rock Bags (ea)
Retention/Detention Ponds
Storm Drain Inlet Protection

- (c) Phasing of Controls

Phase I - Installation of Environmental Control Features, Job Box including Permits and SWPP

- a. Environmental control features as provided in Plans Quantities are to be installed throughout the clearing and grubbing limits of environmentally sensitive areas as shown in plans (prior to clearing and grubbing).
- b. The contractor will be required to prepare a site specific erosion control plan along with a specific construction schedule for implementation. The contractor will also be required to modify the plan or materials to adapt to seasonal variations.

Phase II - Clearing and Grubbing

Clearing and grubbing shall be done as indicated on the typical sections or as noted in the plans.

Phase III - Excavation of Muck Soils and Embankment and Surcharge Construction

Environmental controls including synthetic bales, silt fences, sedimentation basins and other controls, as appropriate, shall be in place prior to the initiation of embankment and surcharge area construction.

Phase IV - Drainage System or Environmental Control Features

- a. Environmental control features as provided in Plans Quantities are to be installed in all areas of excavation or fill for drainage system or structure construction prior to such excavation or fill. All streams or ditches are to be protected from erosion or siltation by the methods detailed in the Stormwater Pollution Prevention Plan (SWPPP). Inlet entrances are also to be protected from siltation as detailed in the SWPPP. These include staked synthetic bales, sediment basins, turbidity barriers, silt fence barriers and others, as appropriate.
- b. The Contractor will be responsible for monitoring any activities for violation of water quality standards as they relate to turbidity (29 NTU's above background) and pH (limit 6.5 to 8.5). Testing will take place to substantiate the intent of the project permits throughout the duration of the project. If the water quality standard is violated, sediment and erosion control measures will be reevaluated and re-installed as directed by the Engineer.

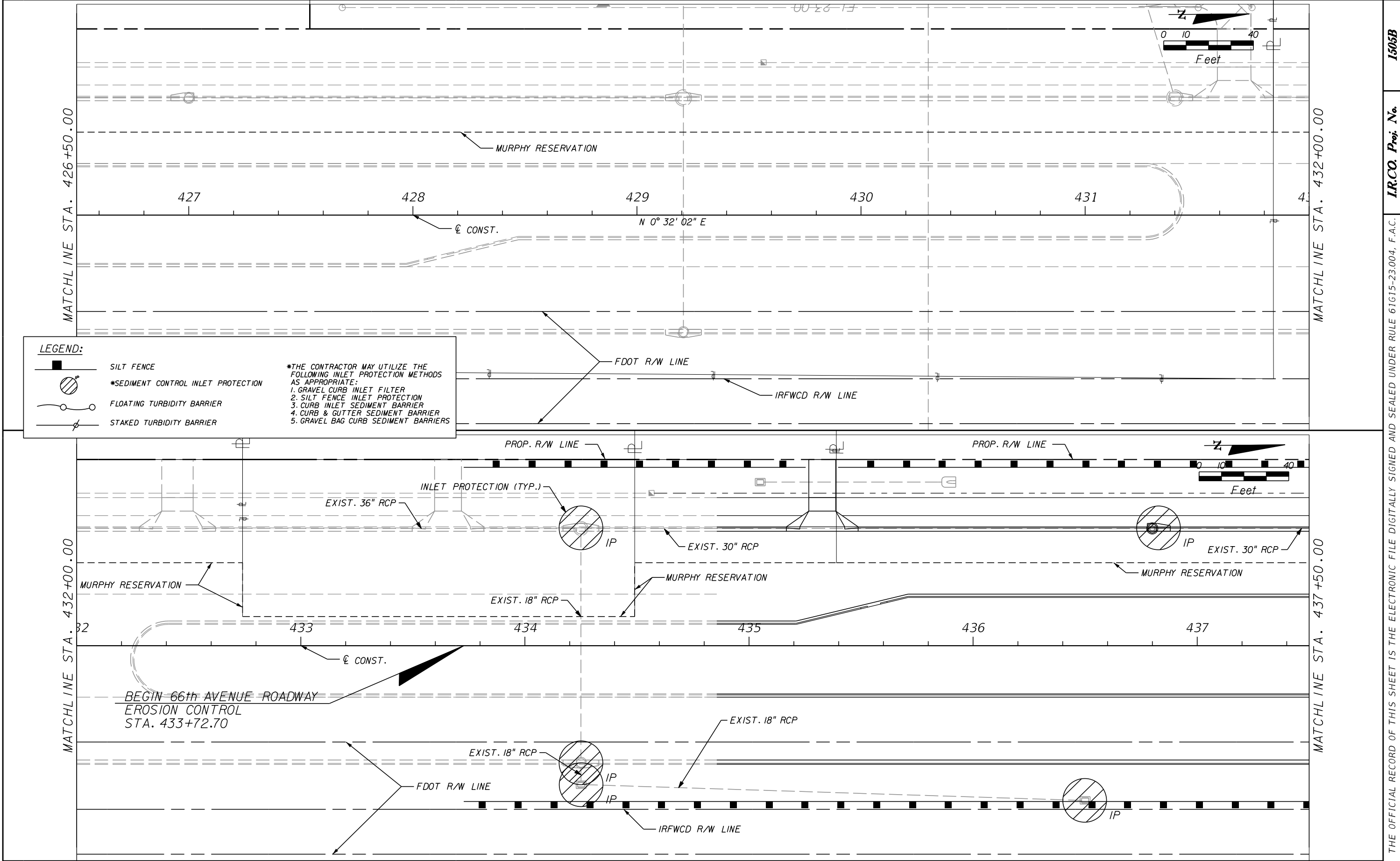
Phase V - Permanent Environmental Controls

Temporary environmental controls will be removed after new roadways have been opened, and permanent erosion, sediment and storm water control are in place and functioning. Final clean up will take place and any temporary surface water diversions or control features will be connected to the permitted stormwater management system.

B). Stormwater Management: Stormwater management will be via the permitted stormwater management system.

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	DESCRIPTION	DATE	BY	DESCRIPTION				133

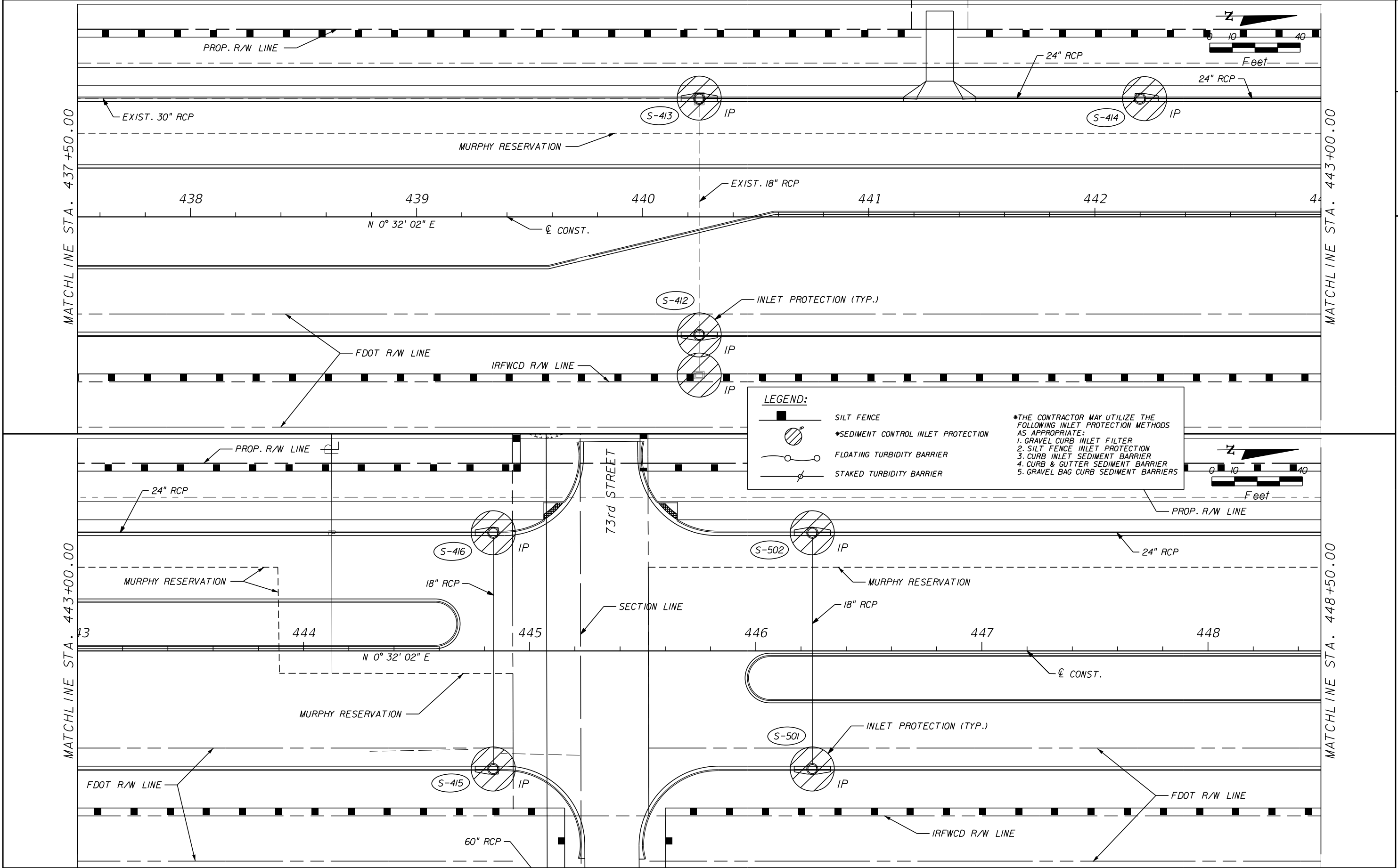
<div>C). Other Controls</div> <div>a) Waste Disposal: The contractor will provide litter control and collection within the project boundaries during construction activities. All fertilizer, hydrocarbon, or other chemical containers shall be disposed of by the contractor according to EPA's standard</div> <div>b) Off-Site Vehicle Tracking: Will be controlled by the following methods:<div><div>- Haul Roads Dampened For Dust Control</div><div>- Loaded Haul Trucks To Be Covered with Tarpaulin</div><div>- Excess Dirt on Roads To Be Removed Daily</div><div>- Soil Tracking Prevention Device Type A Per FDOT Standards</div></div></div> <div>c) Sanitary Waste: Any field offices will have portable toilet facilities or the contractor will obtain permits for sewage treatment in accordance with 10D-6 F.A.C. "Standards for On-Site Sewage Disposal Systems".</div> <div>d) Fertilizers and Pesticides: Fertilizers will be used on this project in accordance with "FDOT Standard Specifications for Road and Bridge Construction" Section 982 and per IRC Fertilizer ordinances found in the contract documents in A ppendix B. To avoid nutrient loading to surface waters, fertilizers used on this project will not be applied within fifty (50) feet of any surface waters within the project limits.</div> <div>D). Permits</div> <div>The following permits have been obtain for the project:</div> <div>SJRWMD Environmental Resource Permit</div> <div>The contractor is responsible for obtaining the following permits.<div><div>FDEP</div><div>- NPDES Permit</div><div>SJRWMD</div><div>- Temporary Dewatering Permit (if needed)</div><div>IRFWCD</div><div>- Dewatering Permit</div></div></div> <div>Additional permit fees are to be included in the cost of Mobilization 101-1</div> <div>3. Maintenance</div> <div>The Contractor shall be responsible for daily inspection and maintenance of all erosion control devices throughout the construction phase of the project. Maintenance shall be conducted in accordance with FDOT and FDEP Standards.</div> <div>The Contractor will be responsible for maintenance and repairs of erosion and sediment control devices, and removal of erosion and sediment control devices until acceptance of the completed project by FDOT.</div> <div>Maintenance and repair required for the control and abatement of erosion and water pollution shall be included in the cost of Pay Item 104-2.</div> <div>The following practices will be used to maintain erosion and sediment controls:</div> <div>General:</div> <div>The Contractor shall install and maintain Job Box, including all permits and SWPP, Post Habitat Study and rain gauges on the project site and record weekly rainfall in accordance with NPDES Permit. All control measures will be maintained by the Contractor.</div> <div>All measures will be maintained in good working order. If a repair is necessary, it will be initiated within 24 hours of report.</div> <div>Structural Practices Controls:</div> <div>Built-up sediment will be removed from silt fence and staked turbidity barriers not later than when it has reached one-third the height of the fence.</div> <div>Temporary and permanent seeding, sodding and planting will be inspected for bare spots, washouts, and healthy growth.</div> <div>Soil tracking prevention device, Type A shall be maintained to prevent clogging of rock bedding which may impede the usefulness of the structure.</div> <div>Floating turbidity barrier will be maintained with respect to depth of sediment and ensure that the fabric is attached securely to the floats and anchored properly at the bottom for proper sediment control.</div> <div>4. Inspection</div> <div>All erosion and water pollution abatement and control measures will be inspected daily by the Contractor.</div> <div>Inspections are to be performed by qualified personnel who have completed the Florida Storm water, erosion and sediment control training and certification program for inspectors and contractors who have passed the examination.</div> <div>Inspection Areas: Locations or areas to be inspected include but are not limited to:</div> <div><div>- Discharge points to waters of the United States</div><div>- Discharge points to MS4 facilities</div><div>- Areas not meeting the "Final Stabilization" criteria</div></div>						<div>- Materials storage/stockpiles</div> <div>- Sedimentation facilities</div> <div>- Structural facilities</div> <div>- Vehicle Entrances/Exits</div> <div>- On-site stormwater management systems</div> <div>The Contractor shall use the Construction Inspection Report form 650-040-03 for daily inspections.</div> <div>The Contractor's daily inspections required for the control and abatement of erosion and water pollution shall be included in the cost of Pay Item 104-2.</div> <div>Tracking and Reporting</div> <div>The Contractor is responsible for completing the inspection report form 650-040-03 every 7 days and after any 0.50 inch (or more) rainfall event. A copy of the inspection report shall be submitted to the Engineer weekly and placed in the job box.</div> <div>The County shall maintain all records submitted by the Contractor.</div> <div>Preparation of the Contractor's weekly reports of inspections, maintenance and repairs required for the control and abatement of erosion and water pollution shall be included in the cost of Pay Item 104-2.</div> <div>5. Non-Storm Water Discharge and Hazardous Waste</div> <div>The Contractor will provide Indian River County with an erosion control plan that incorporates the construction schedule and will include spill reporting and response. When the Contractor encounters a spill, contractor will stop work and work will not resume until directed by the Engineer. Disposition of hazardous waste will be made in accordance with any requirements and regulations of any local, state or federal agency having jurisdiction.</div> <div>6. References</div> <div>The construction plans and specifications for 66th Avenue Roadway Widening - Phase II 69th Street to 81st Street are hereby referenced and made part of this Stormwater Pollution Prevention Plan.</div> <div>7. Quantities</div> <div>See construction plans summary of quantities sheets for erosion control quantity tabulation.</div>	1505B	IR.CO. Proj. No.	THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.
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		DESCRIPTION	DATE	BY	DESCRIPTION			134	



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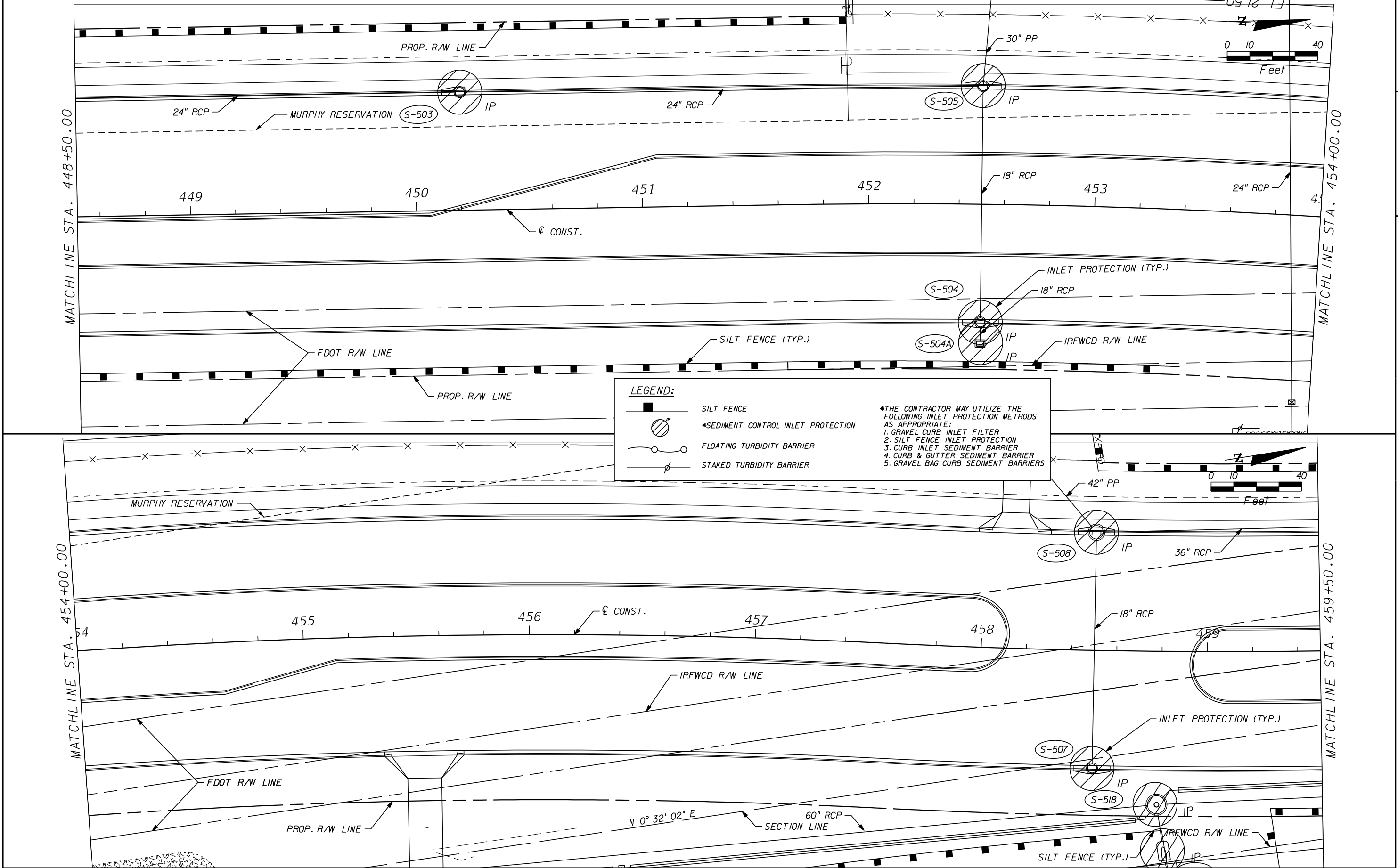


REVISIONS					Kimley»Horn	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS	66th AVENUE EROSION CONTROL PLAN	SHEET NO. 136
NO.	DATE	BY	DESCRIPTION					
					BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106	66th AVENUE FROM 69th STREET TO SR-510/85th STREET		

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**INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS**
**66th AVENUE FROM 69th STREET
TO SR-510/85th STREET**

**66th AVENUE
EROSION CONTROL PLAN**

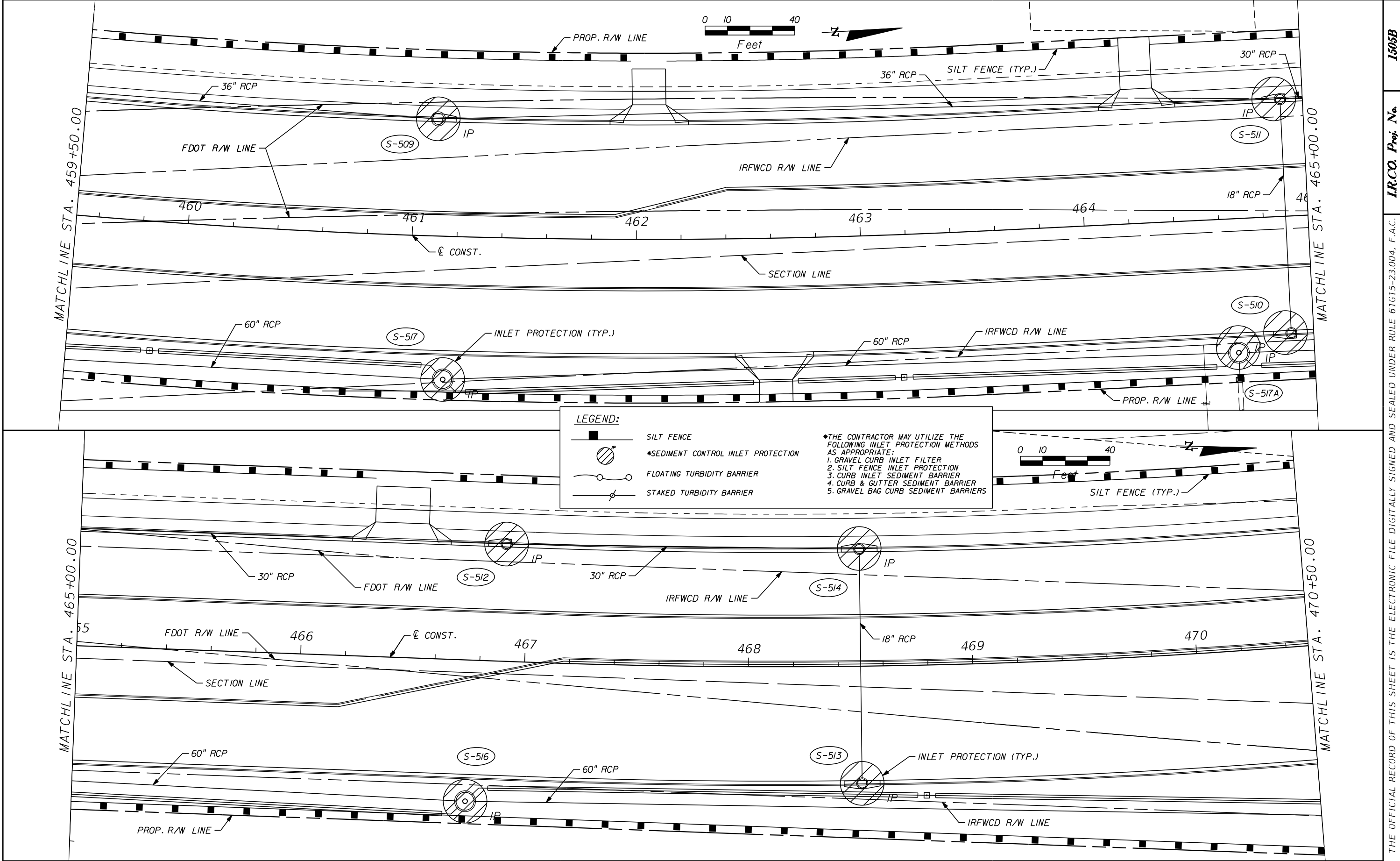
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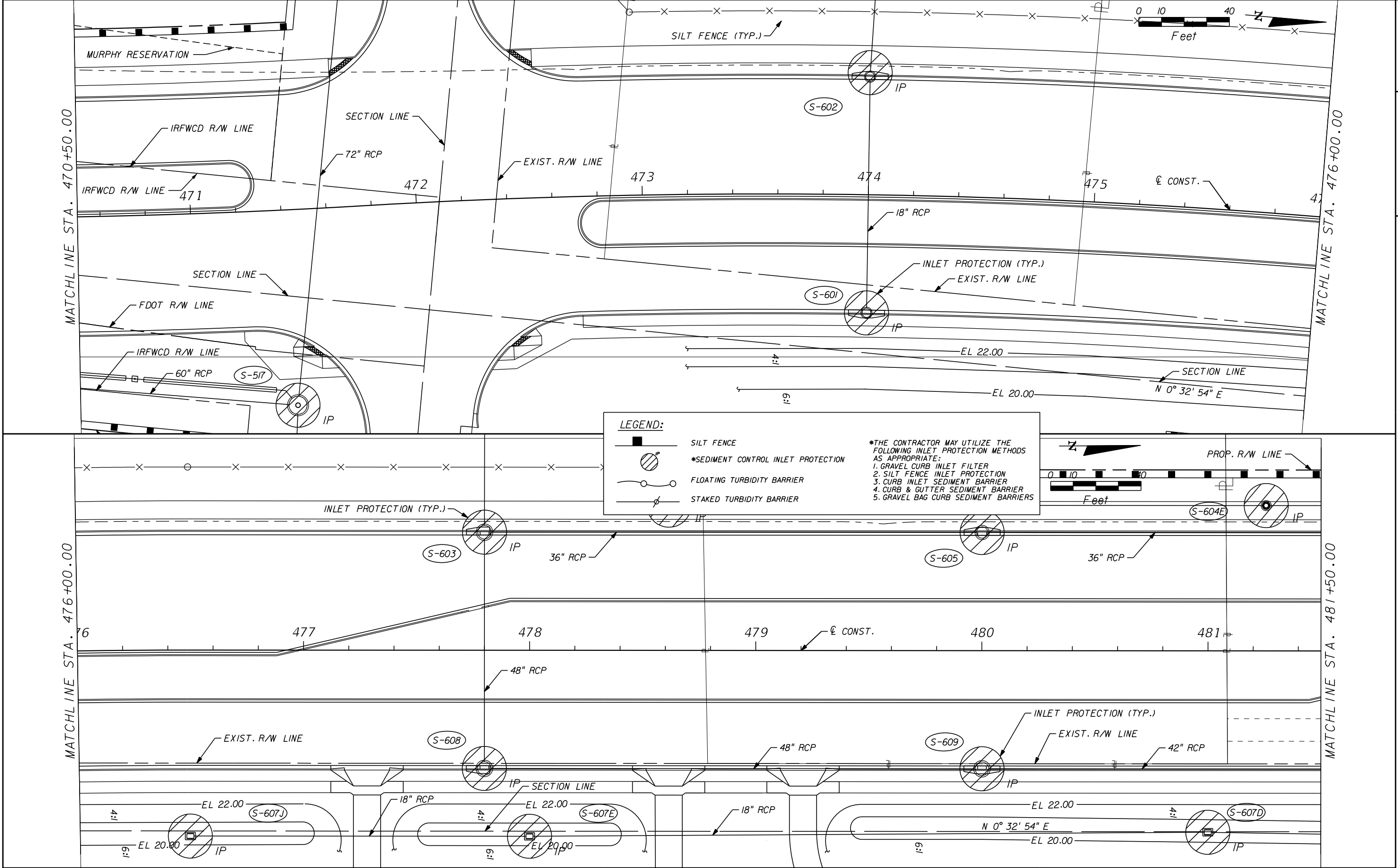


REVISIONS					Kimley»Horn	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	66th AVENUE EROSION CONTROL PLAN		SHEET NO. 138
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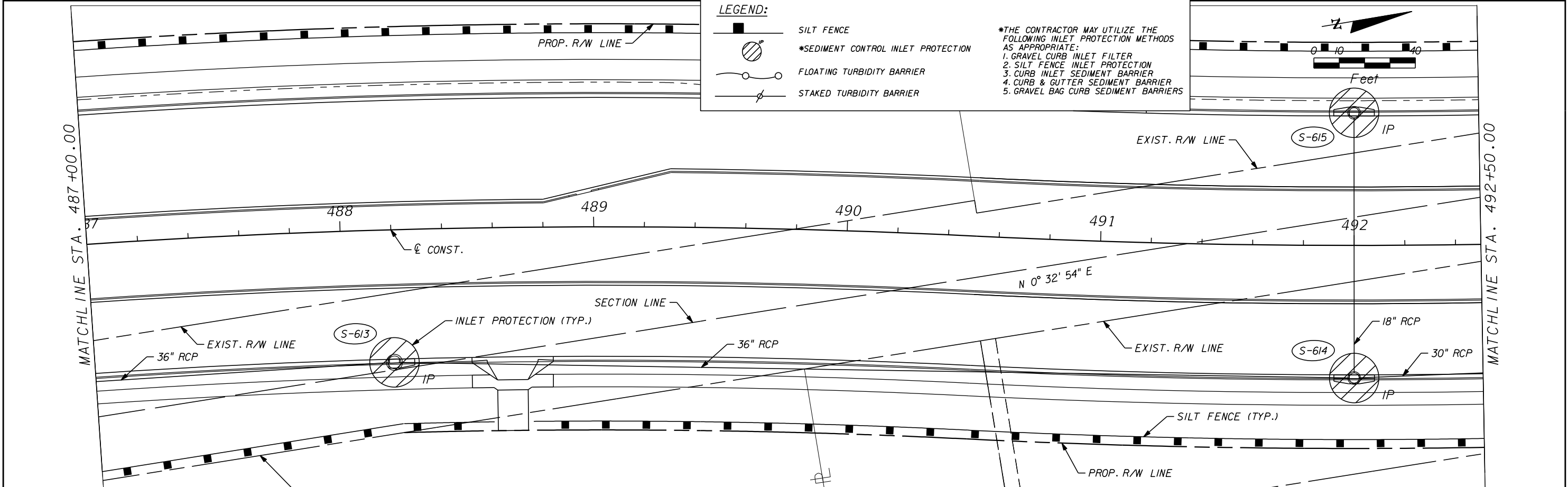
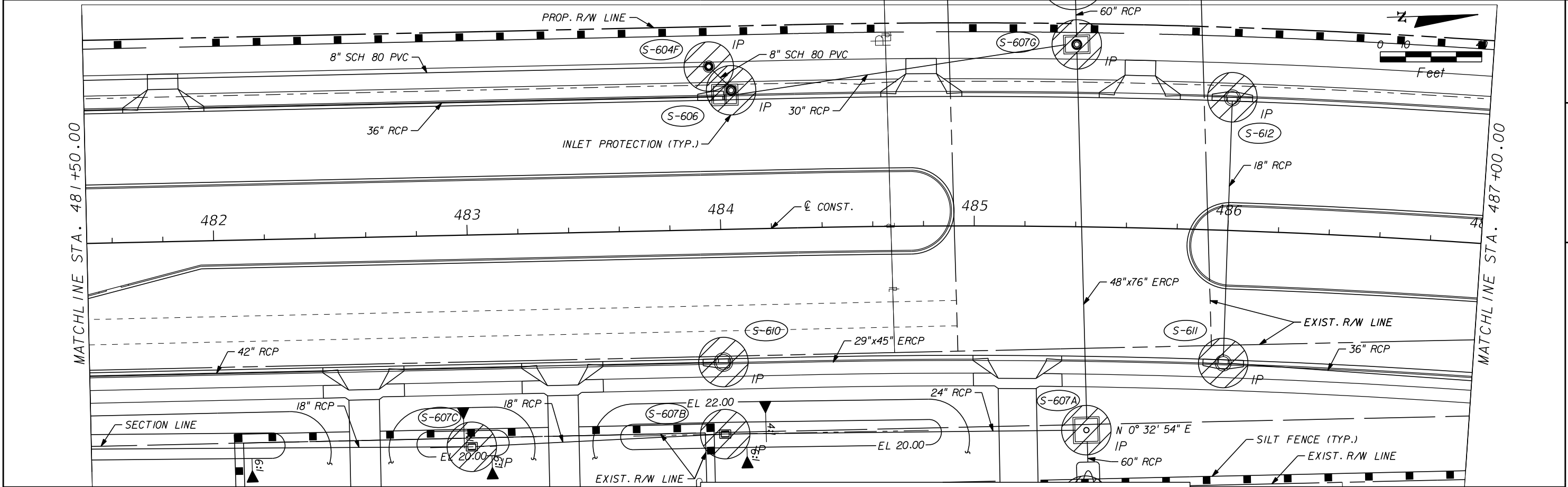
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**INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS**
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TO SR-510/85th STREET**

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EROSION CONTROL PLAN**

SHEET NO.
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LEGEND:

- SILT FENCE
- *SEDIMENT CONTROL INLET PROTECTION
- FLOATING TURBIDITY BARRIER
- STAKED TURBIDITY BARRIER

*THE CONTRACTOR MAY UTILIZE THE FOLLOWING INLET PROTECTION METHODS AS APPROPRIATE:

1. GRAVEL CURB INLET FILTER
2. SILT FENCE INLET PROTECTION
3. CURB INLET SEDIMENT BARRIER
4. CURB & GUTTER SEDIMENT BARRIER
5. GRAVEL BAG CURB SEDIMENT BARRIERS

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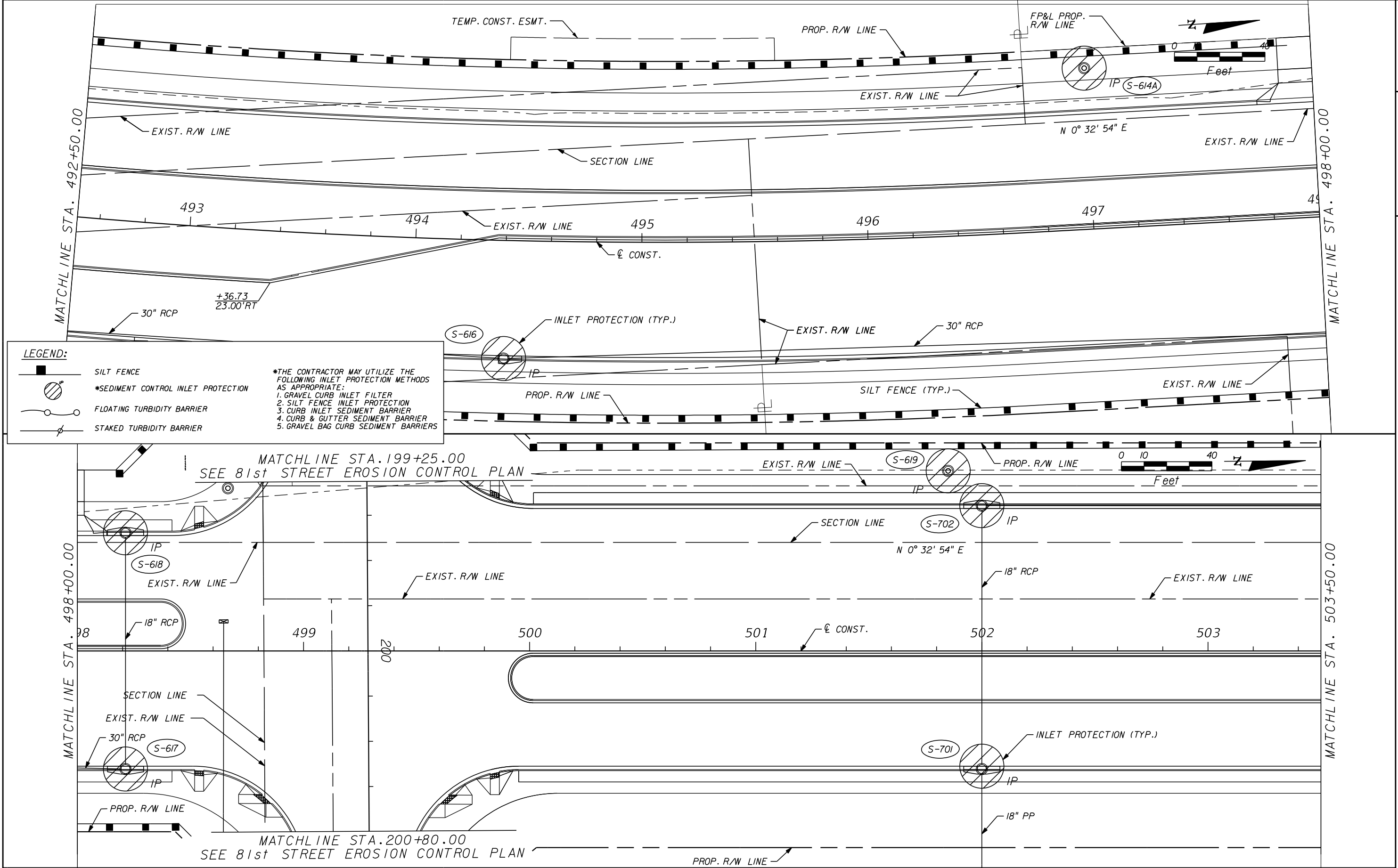
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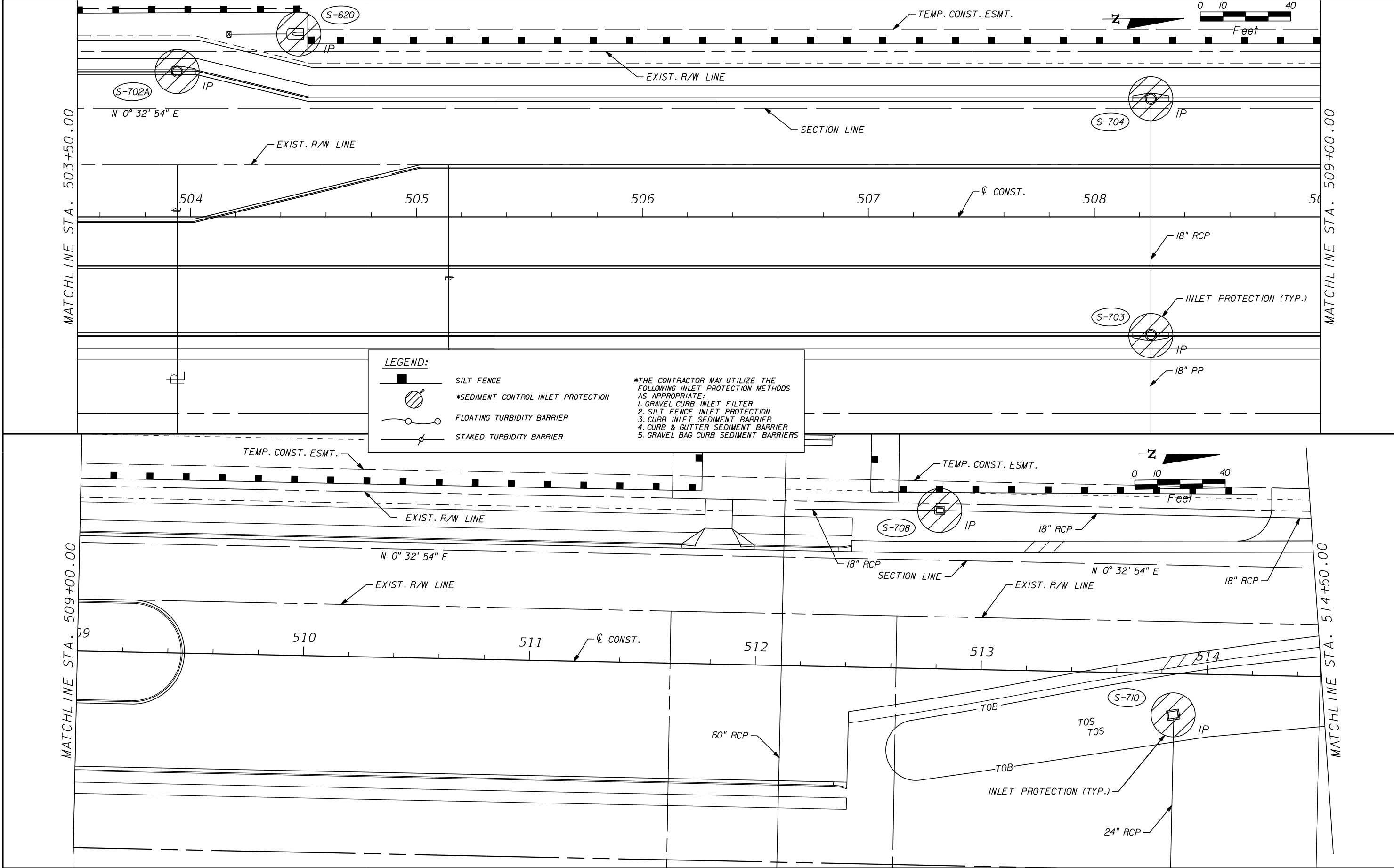
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EROSION CONTROL PLAN**

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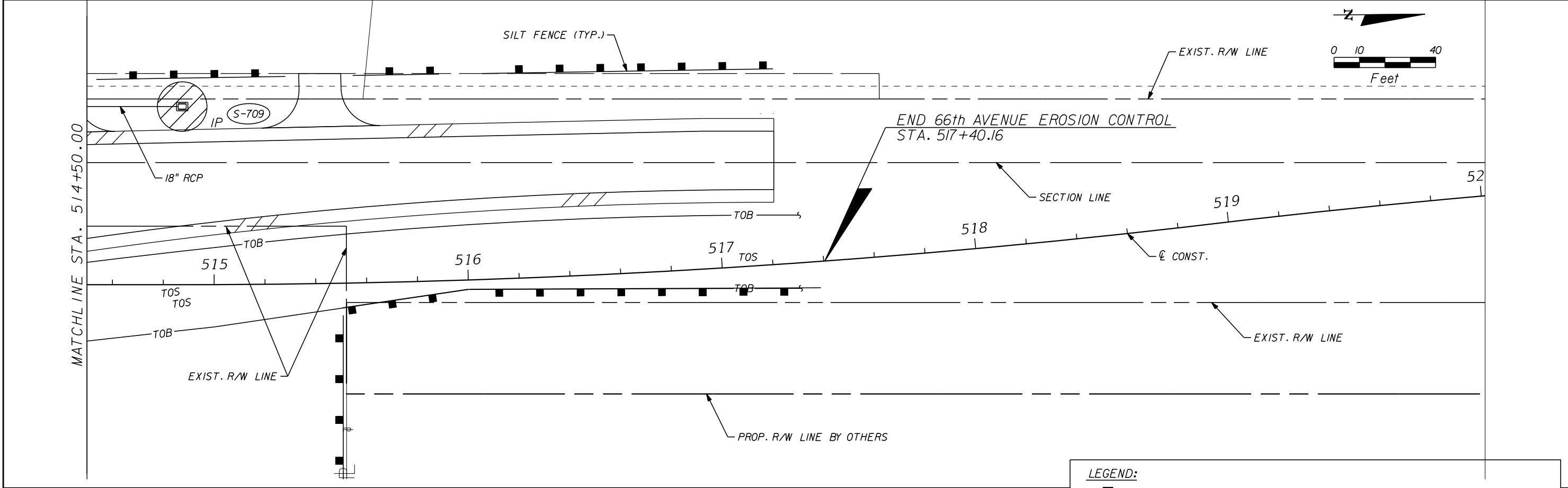
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LEGEND:

- SILT FENCE
- *SEDIMENT CONTROL INLET PROTECTION
- FLOATING TURBIDITY BARRIER
- STAKED TURBIDITY BARRIER

*THE CONTRACTOR MAY UTILIZE THE FOLLOWING INLET PROTECTION METHODS AS APPROPRIATE:

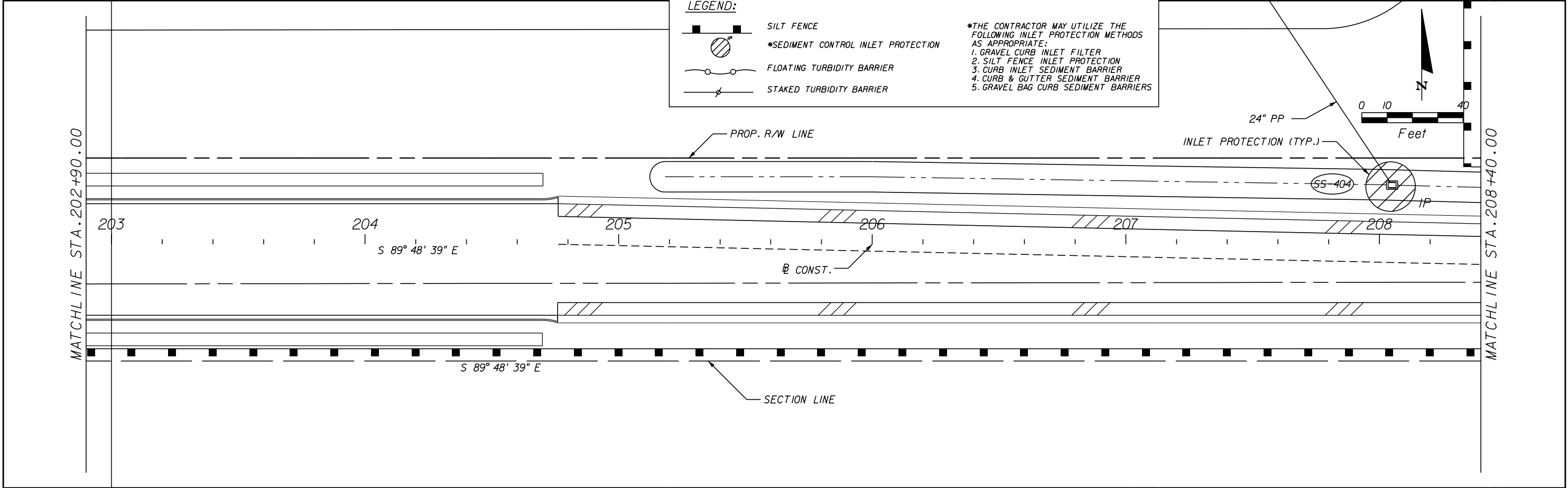
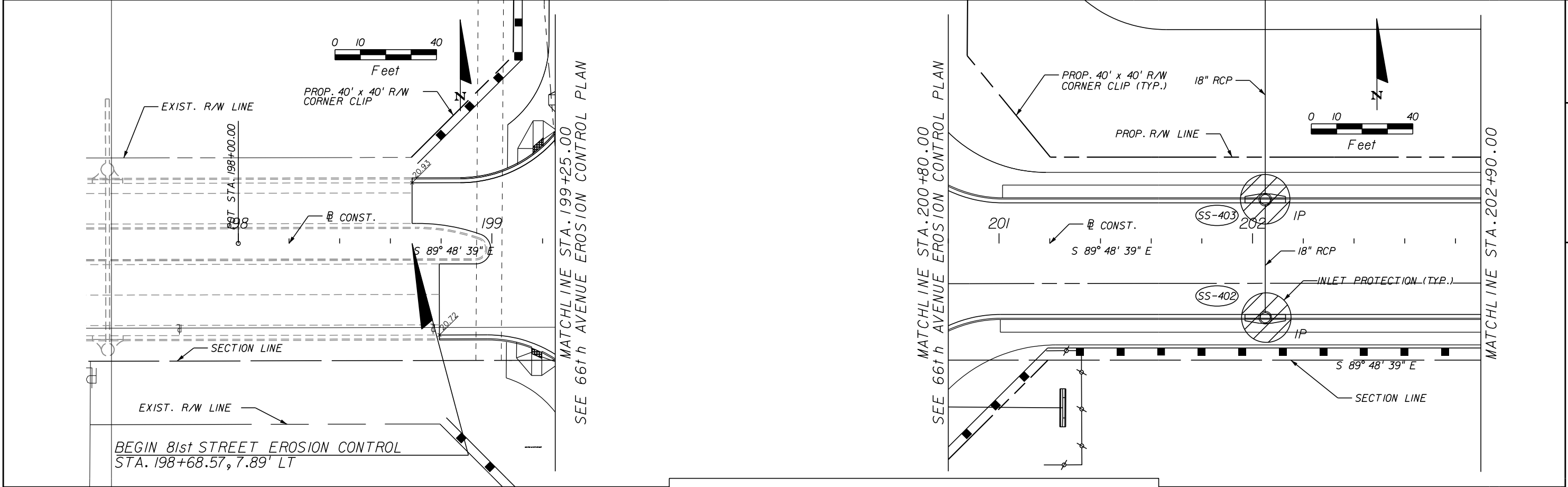
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R E V I S I O N S					<div><div>Kimley»Horn</div><div><small>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106</small></div></div>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	66th AVENUE EROSION CONTROL PLAN	SHEET NO.
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	*SEDIMENT CONTROL INLET PROTECTION
	FLOATING TURBIDITY BARRIER
	STAKED TURBIDITY BARRIER

***THE CONTRACTOR MAY UTILIZE THE FOLLOWING INLET PROTECTION METHODS AS APPROPRIATE:**

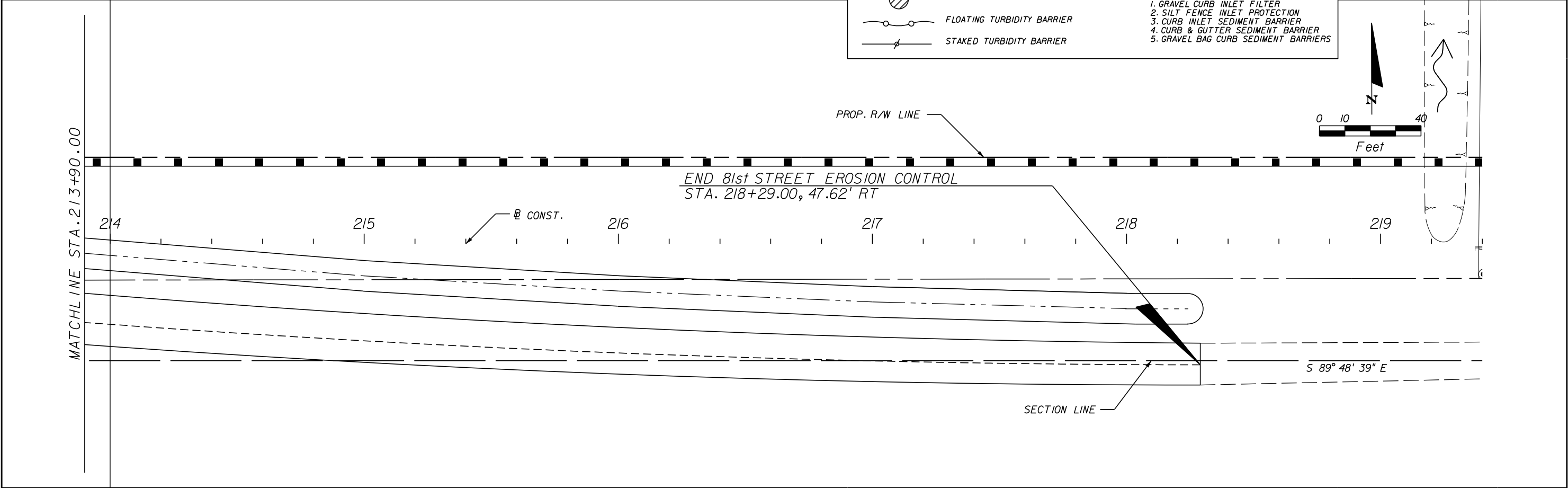
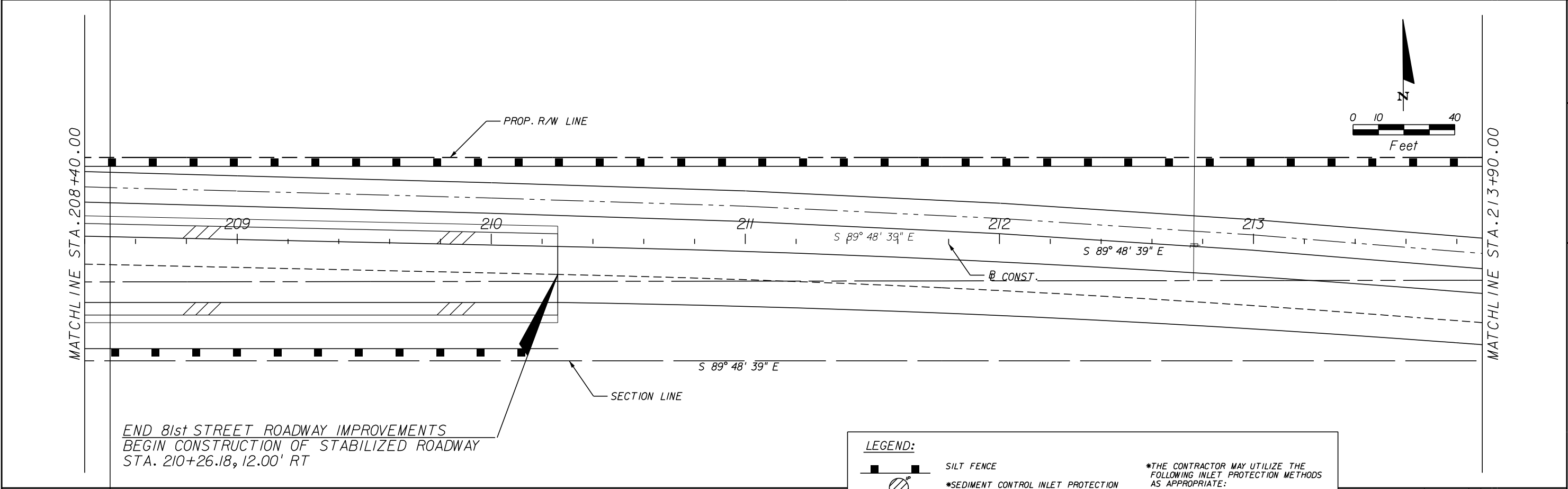
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4. CURB & GUTTER SEDIMENT BARRIER
5. GRAVEL BAG CURB SEDIMENT BARRIERS

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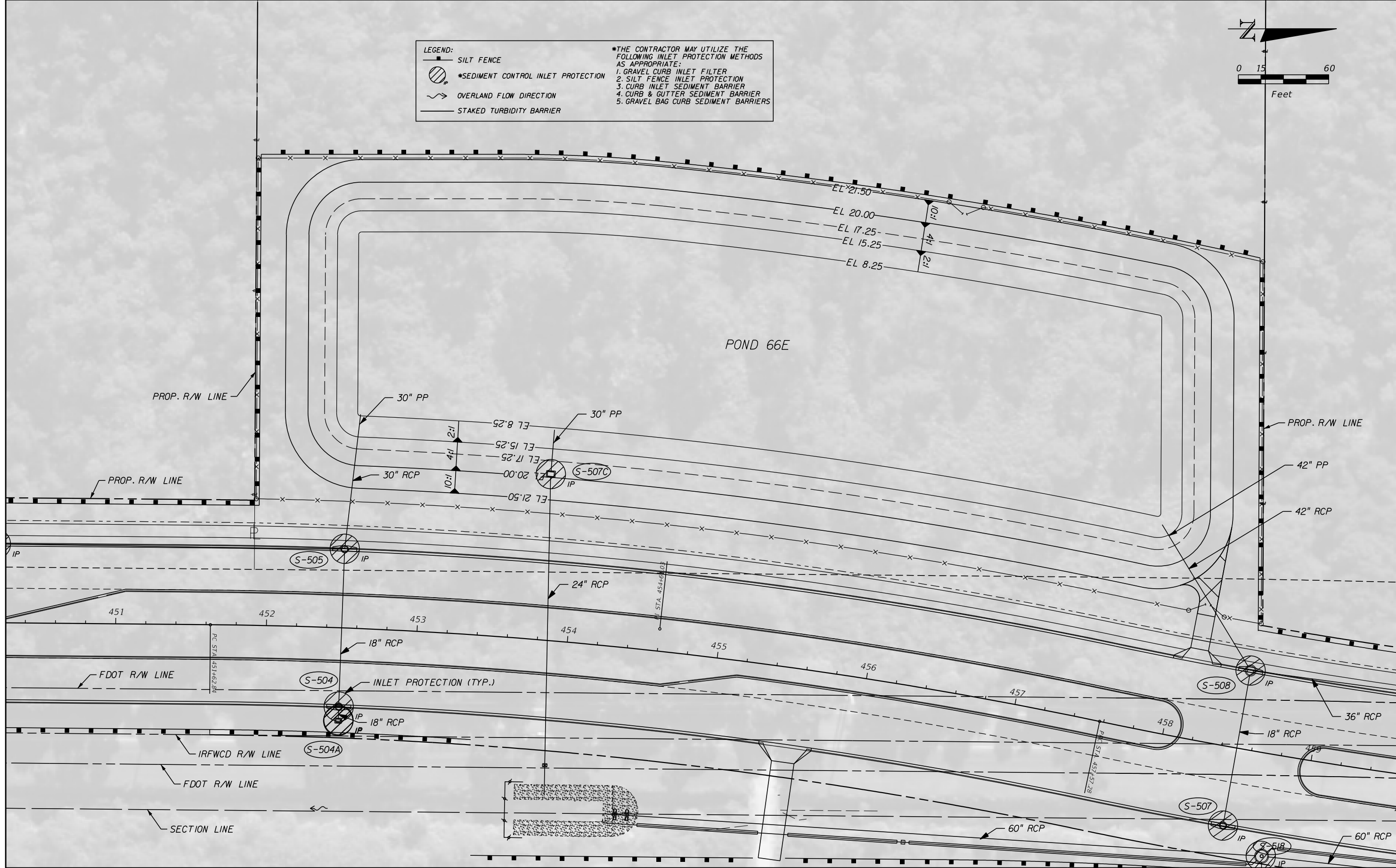
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LEGEND:

- SILT FENCE
- *SEDIMENT CONTROL INLET PROTECTION
- OVERLAND FLOW DIRECTION
- STAKED TURBIDITY BARRIER

*THE CONTRACTOR MAY UTILIZE THE FOLLOWING INLET PROTECTION METHODS AS APPROPRIATE:

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2. SILT FENCE INLET PROTECTION
3. CURB INLET SEDIMENT BARRIER
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REVISIONS				
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INDIAN RIVER COUNTY
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66th AVENUE FROM 69th STREET
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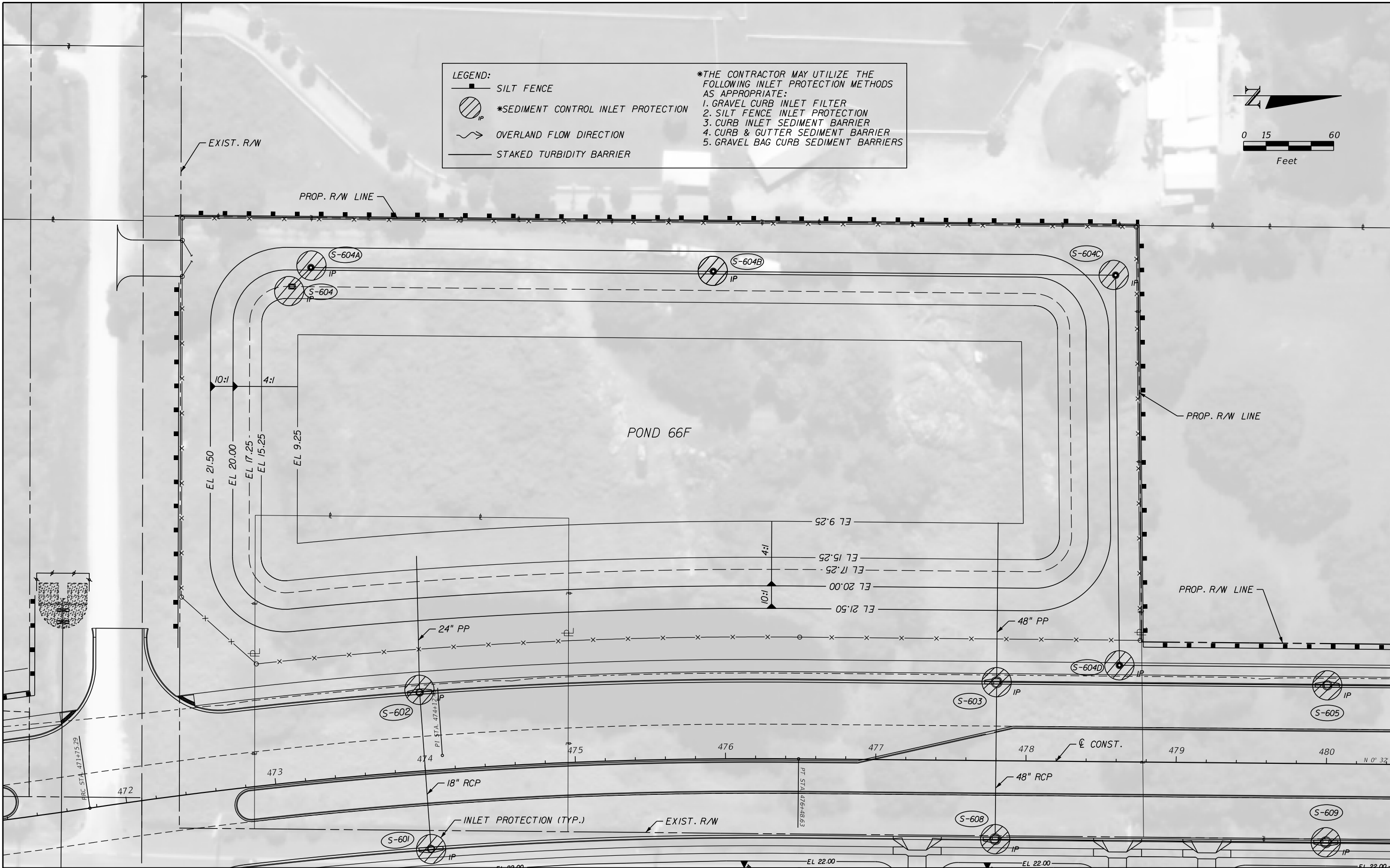
EROSION CONTROL
POND 66E

SHEET NO.
146

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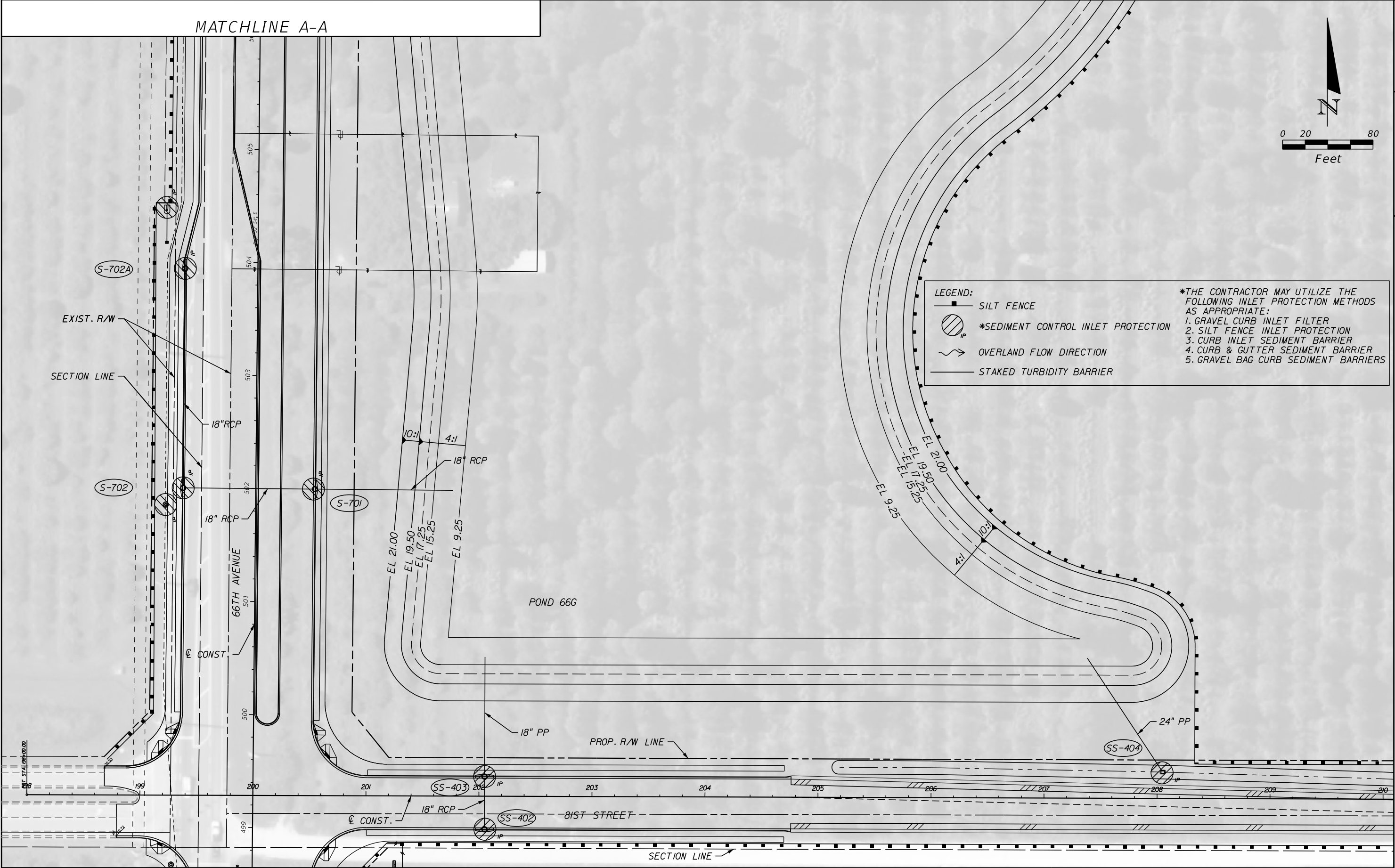
IR.CO. Proj. No.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



REVISIONS				Kimley»Horn	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	EROSION CONTROL POND 66F	SHEET NO. 147
DESCRIPTION	DATE	BY	DESCRIPTION				
				BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106			

1505B
IR.CO. Proj. No.
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



REVISIONS					Kimley»Horn	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS	EROSION CONTROL POND 66G	SHEET NO.
	DESCRIPTION	DATE	BY	DESCRIPTION				
					BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106	66th AVENUE FROM 69th STREET TO SR-510/85th STREET		148

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C. I.R.CO. Proj. No. 1505B

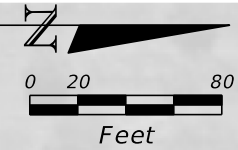
MATCHLINE C-C

LEGEND:

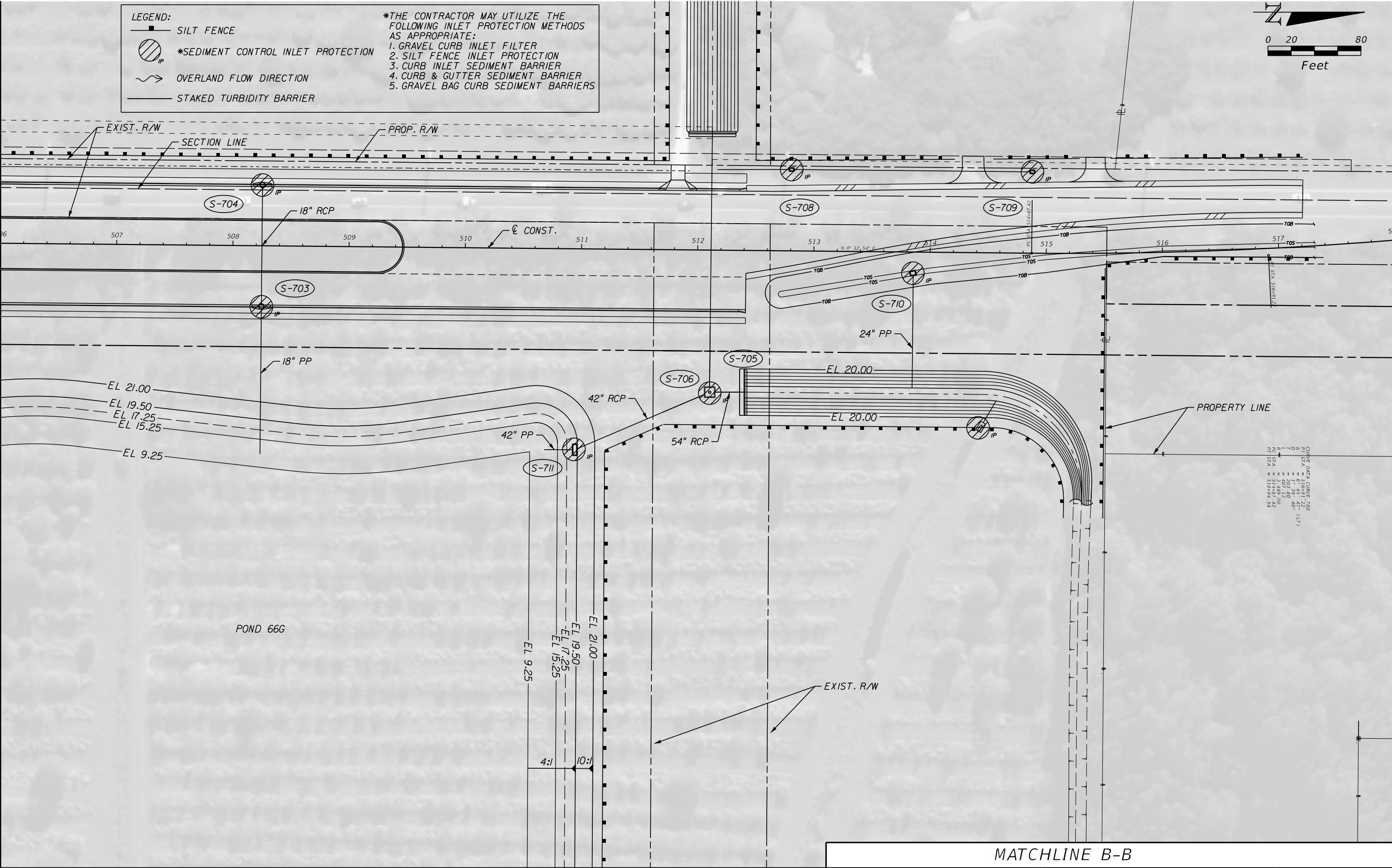
- SILT FENCE
- *SEDIMENT CONTROL INLET PROTECTION
- OVERLAND FLOW DIRECTION
- STAKED TURBIDITY BARRIER

*THE CONTRACTOR MAY UTILIZE THE FOLLOWING INLET PROTECTION METHODS AS APPROPRIATE:

1. GRAVEL CURB INLET FILTER
2. SILT FENCE INLET PROTECTION
3. CURB INLET SEDIMENT BARRIER
4. CURB & GUTTER SEDIMENT BARRIER
5. GRAVEL BAG CURB SEDIMENT BARRIERS



MATCHLINE A-A

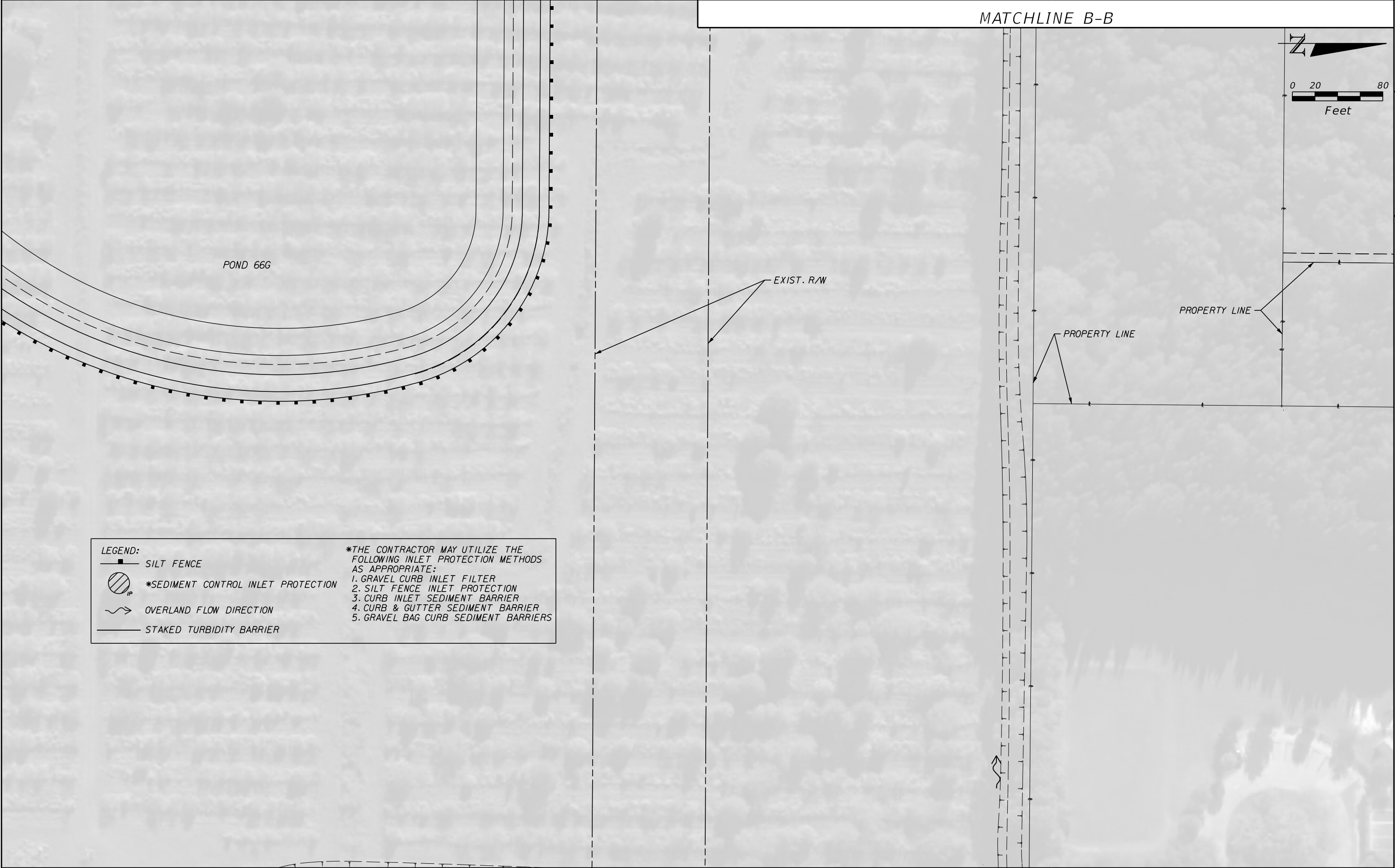


CURVE DATA CURVE 200
Δ STA = 610+39.47 (LT)
L = 103.39
R = 200
Δ STA = 610+39.47 (LT)
L = 103.39
R = 200
Δ STA = 610+39.47 (LT)
L = 103.39
R = 200

MATCHLINE B-B

REVISIONS					Kimley»Horn	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS	EROSION CONTROL POND 66G	SHEET NO.
DESCRIPTION	DATE	BY	DESCRIPTION					
					BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106	66th AVENUE FROM 69th STREET TO SR-510/85th STREET		149

1505B
IR.CO. Proj. No.
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REVISIONS					<div>Kimley»Horn</div> <div><small>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106</small></div>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	EROSION CONTROL POND 66G	SHEET NO.
		DESCRIPTION	DATE	BY				150



MATCHLINE C-C

REVISIONS					<div><div><div>Kimley»Horn</div><div><div>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106</div></div></div></div>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS		EROSION CONTROL POND 66G	SHEET NO.
	DESCRIPTION	DATE	BY	DESCRIPTION		66th AVENUE FROM 69th STREET TO SR-510/85th STREET	151		

EROSION CONTROL NOTES

1. Sediment basins and traps, perimeter dikes, sediment barriers and other measures intended to trap sediment shall be constructed as a first step in any land disturbing activity and shall be made functional before up-slope land disturbance takes place.
2. 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.
3. Permanent or temporary soil stabilization shall be applied to denuded areas within seven (7) days after final grade is reached on any portion of the site. Temporary soil stabilization shall be applied within seven (7) days to denuded areas that may not be at final grade but will remain undisturbed for longer than 30 days. Permanent stabilization shall be applied to areas that are to be left undisturbed for more than one year.
4. During construction of the project, soil stock piles shall be stabilized, covered or contained with sediment trapping measures. The applicant is responsible for the temporary protection and permanent stabilization of all soil stockpiles on site as well as soil intentionally transported from the project site.
5. A permanent vegetative cover shall be established on denuded areas not otherwise permanently stabilized.
6. After any significant rainfall, sediment control structures will be inspected for integrity. Any damaged devices shall be corrected immediately.
7. Concentrated runoff shall not flow down cut or fill slopes unless contained within an adequate temporary or permanent channel, flume, slope drain structure or approved control.
8. Sediment will be prevented from entering any storm water system, ditch or channel. All storm water 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.
9. When work in a live watercourse is performed, precautions shall be taken to minimize encroachment, control sediment transport and stabilize the work area to the greatest extent possible during construction.
10. Periodic inspection and maintenance of all sediment control structures must be provided to ensure intended purpose is accomplished. The developer, owner and/or contractor shall be continually responsible for all sediment controls. Sediment control measures shall be in working condition at the end of each working day.
11. Where construction vehicle access routes intersect paved public roads, provisions shall be made to minimize the transport of sediment by tracking onto the paved surface. Where sediment is transported onto a public road surface with curbs and gutters, the road shall be cleaned thoroughly at the end of each day. Sediment shall be removed from the roads by shoveling or sweeping and transported to a sediment control disposal area. Street washing shall be allowed only after sediment is removed in this manner. This provision shall apply to individual subdivision lots as well as to larger land disturbing activities.
12. All temporary erosion and sediment control measures shall be removed within 30 days after final site stabilization or after the temporary measures are no longer needed.
13. Properties and waterways downstream from construction sites shall be protected from sediment deposition and erosion at all times during construction.

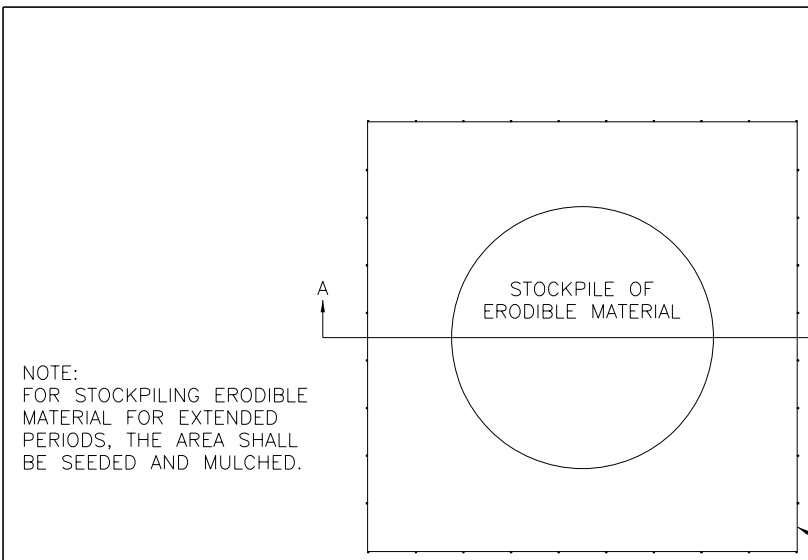
14. Erosion control design and construction shall follow the applicable requirements of the "State of Florida Erosion and Sediment Control Designer and Reviewer Manual", Latest Update: July 2013", or current edition and as may be modified by the Project Engineer of Record via a signed and sealed drawing and as required by Indian River County permits and other regulatory agency permits.
15. Contractor is responsible for all surface water discharges, rainfall run off or dewatering activities.
16. Contractor must incorporate all BMP's necessary to meet or exceed state water quality and SWPPP requirements.
17. The Pollution Prevention Plan is a minimum guideline only. Additional BMP's may be necessary at contractor's expense.
18. NOI to be posted on site.
19. Dewatering activities:

A – Discharge must not exceed state water quality standards.

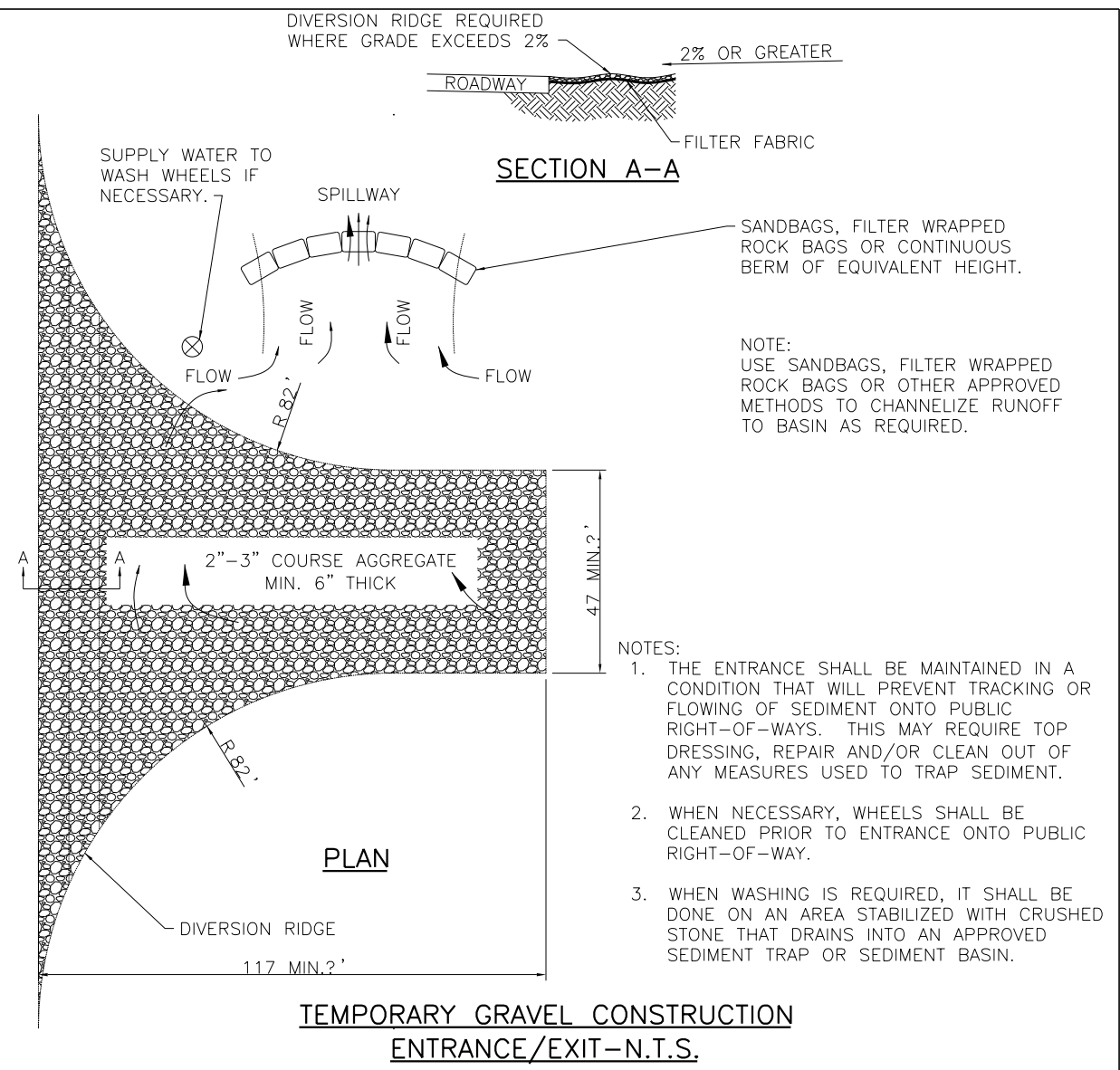
B – Contractor must have a transferable SJRWMD Consumptive Use permit known as a "Noticed General Permit For Short Term Construction De-Watering".

C – No hydraulic pumps may be used for dewatering unless approved By the water management district for that area.

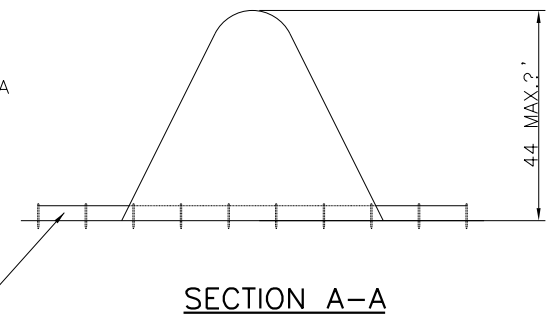
D – No turbid discharge. Turbidity and pH readings are required once a week and must be reported to the project Engineer.
20. Failure to develop and implement a certified stormwater pollution prevention plan shall be deemed a violation of the permit and the permittee shall be subject to enforcement action. The plan shall be completed prior to the submittal of an NOI (Notice of Intent) to be covered under the permit and updated as appropriate. The plan shall also provide for compliance with the terms and schedule of the plan beginning with the iniation of the construction activities.



NOTE:
FOR STOCKPILING ERODIBLE MATERIAL FOR EXTENDED PERIODS, THE AREA SHALL BE SEEDED AND MULCHED.



NOTE:
ALL STOCKPILES SHALL BE A MAXIMUM OF 25' HIGH.



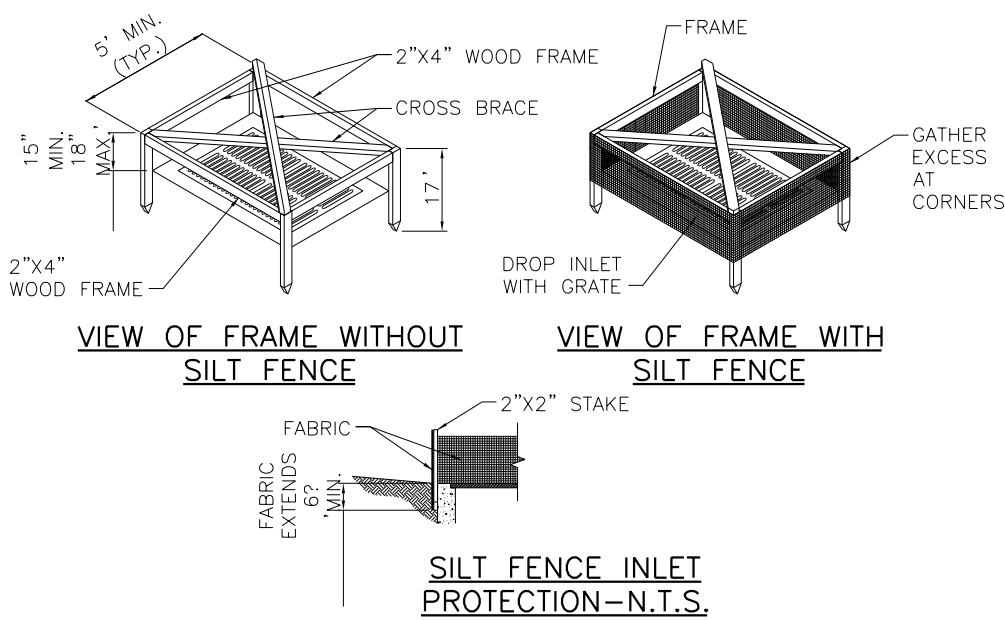
NOTE

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SEDIMENT CONTROL DETAIL FOR STOCKPILING OF ERODIBLE MATERIAL-N.T.S.

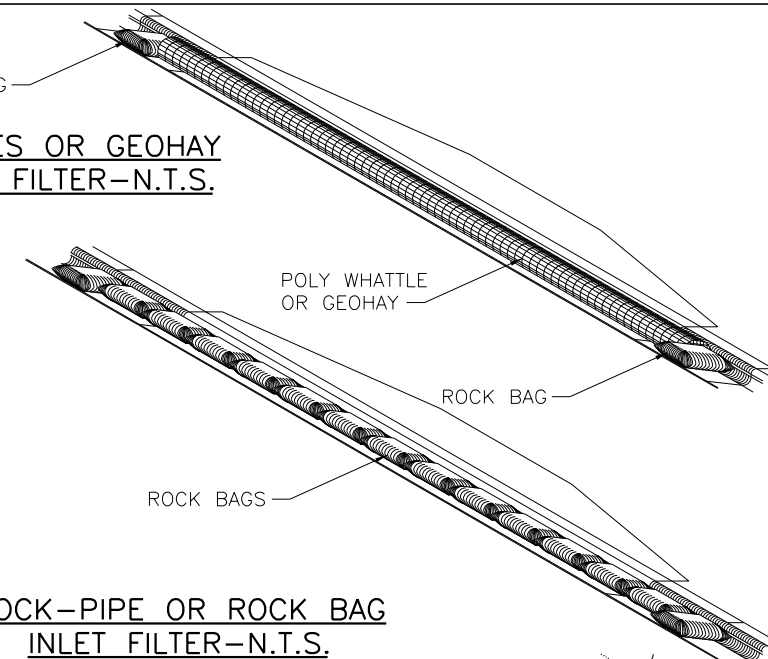
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT-N.T.S.



POLY WHATTLES OR GEOHAY CURB INLET FILTER-N.T.S.

LOW TO MODERATE FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS.
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	120 LBS.
MULLEN BURST	ASTM D-3786	800 P.S.I.
TRAPEZOID TEAR	ASTM D-4533	120 LBS.
UV RESISTANCE	ASTM D-4355	80%
APPARENT OPENING SIZE	ASTM D-4751	40 US. SIEVE
FLOW RATE	ASTM D-4491	40 GAL./MIN./SQ. FT.
PERMITTIVITY	ASTM D-4491	0.55 SEC. -1
MODERATE TO HIGH FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS.
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	135 LBS.
MULLEN BURST	ASTM D-3786	420 P.S.I.
TRAPEZOID TEAR	ASTM D-4533	45 LBS.
UV RESISTANCE	ASTM D-4355	90%
APPARENT OPENING SIZE	ASTM D-4751	20 US. SIEVE
FLOW RATE	ASTM D-4491	200 GAL./MIN./SQ. FT.
PERMITTIVITY	ASTM D-4491	1.5 SEC. -1

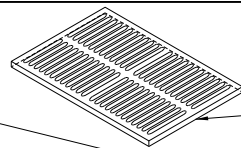
SOCK-PIPE OR ROCK BAG INLET FILTER-N.T.S.



LOOPS SIZED FOR 1" REBAR. LIFT FILTER BAG FROM INLET USING REBAR FOR HANDLES.

1/4" BRIGHTLY COLORED NYLON ROPE, EXPANSION RESISTANT

LOOPS SIZED FOR 1" REBAR. USE REBAR FOR A HANDLE TO EMPTY FILTER SACK AT A SEDIMENT COLLECTION LOCATION.



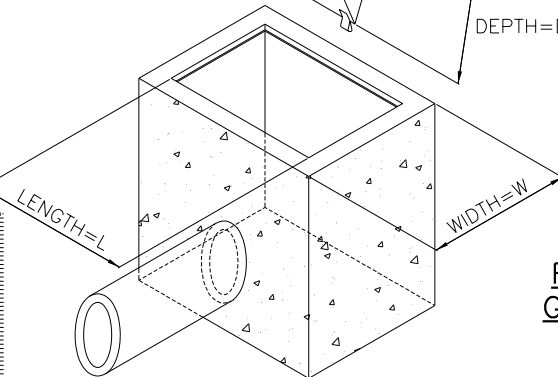
INLET GRATE

OVERFLOW HOLES (OPTIONAL)

GEOTEXTILE BAG

2"x2"x3/4" RUBBER BLOCK (TYP.)

DEPTH=D



FILTER SACKS FOR GRATED INLETS AND STABILIZED ROADWAYS-N.T.S.

NOTE: IF FILTER FABRIC HAS BEEN INSTALLED BENEATH INLET GRATE, IT SHALL BE REMOVED IMMEDIATELY AFTER ROAD SURFACE HAS BEEN STABILIZED AND THE FILTER SACK SHALL BE IMMEDIATELY INSTALLED.

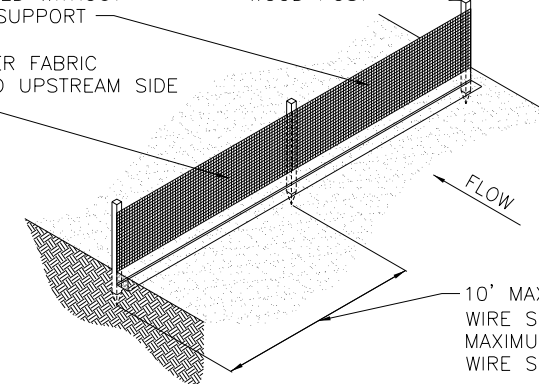
NOTES:

1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" MAXIMUM RECOMMENDED STORAGE HEIGHT.
3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

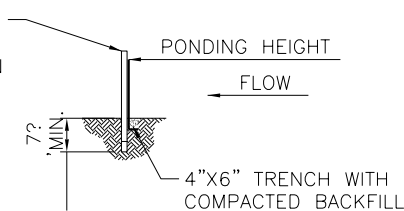
EXTRA STRENGTH FILTER FABRIC NEEDED WITHOUT WIRE MESH SUPPORT

ATTACH FILTER FABRIC SECURELY TO UPSTREAM SIDE OF POST

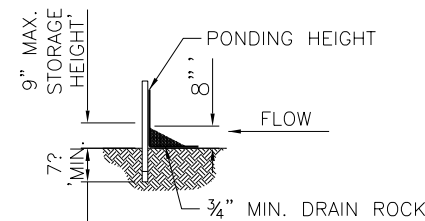
STEEL OR WOOD POST



STEEL OR WOOD POST-36" HIGH MAX. (POSTS SHALL BE INSTALLED ON THE OPPOSITE SIDE OF THE DIRECTION OF FLOW)



SILT FENCE-N.T.S.



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REVISIONS

DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 35106

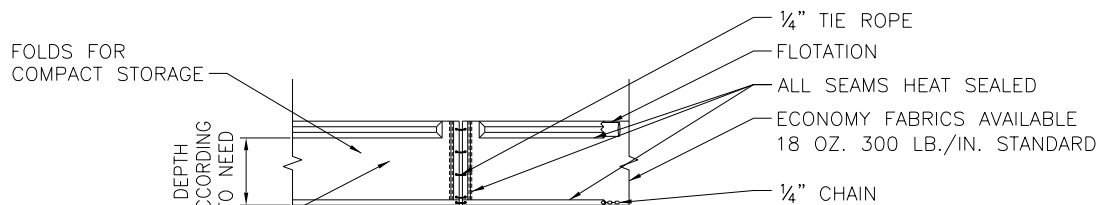
**INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS**
**66th AVENUE FROM 69th STREET
TO SR-510/85th STREET**

**INDIAN RIVER COUNTY
EROSION CONTROL DETAILS**

SHEET
NO.

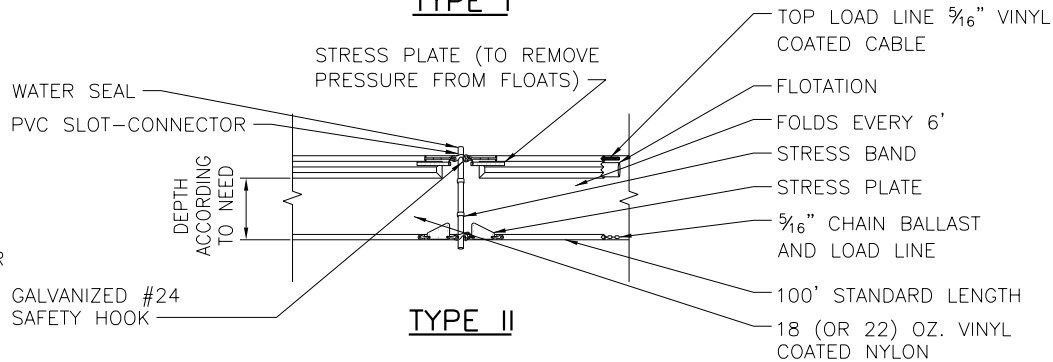
153

TYPE I. DOT FOR WATERS WITH LOW CURRENTS (NO MORE THAN ONE FOOT PER SECOND) AND LIGHT WINDS: LAKES, PONDS, SMALL STREAMS, MARSHES. FLEXIBLE TOP FLOTATION SECTION WITH ENCAPSULATED EPS FOAM FLOTATION LOGS (6"x6"x4')



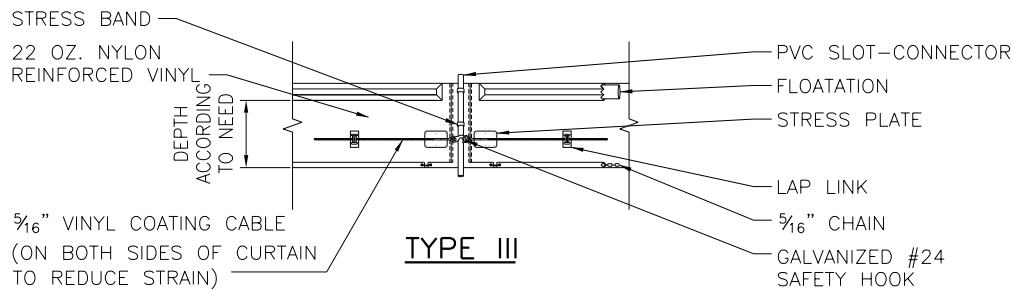
TYPE I

TYPE 2. DOT FOR HIGHER CURRENT WATERS (UP TO FIVE FEET PER SECOND): DEEPER LAKES, STREAMS, INTERCOASTAL AND TIDAL AREAS. INCLUDES AN ENCAPSULATED STEEL LOAD CABLE ALONG TOP OF BARRIER AND 8"x8"x4' FLOTATION LOGS. WEAR STRESS POINTS ARE REINFORCED WITH SHIELDS.

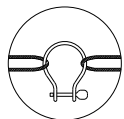


TYPE II

TYPE 3. DOT IS SIMILAR TO TYPE 2. DOT EXCEPT THAT POLYPROPYLENE FILTER FABRIC IS PERMANENTLY INSERTED INTO THE BARRIER SKIRT TO MEET SOME STATE'S SPECIFICATIONS.



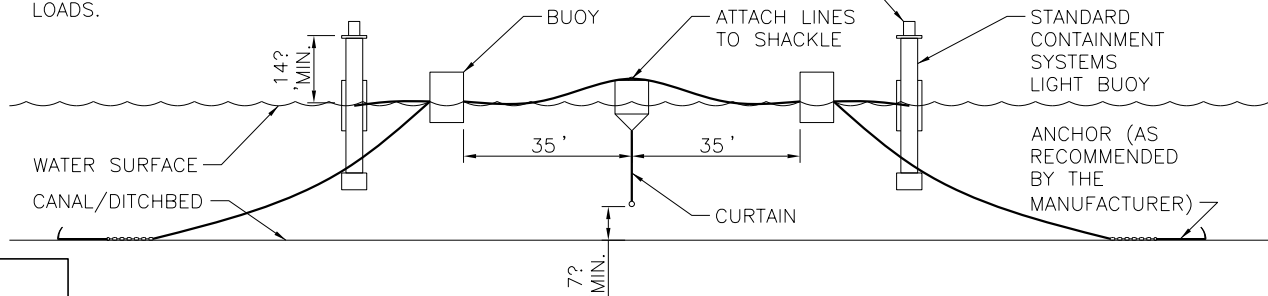
TYPE III



BLOW-UP OF SHACKLE CONNECTION

NOTE: ANCHORING TO BUOYS AS SHOWN REMOVES ALL VERTICAL FORCES FROM THE CURTAIN, HENCE, THE CURTAIN WILL NOT SINK FROM WIND OR CURRENT LOADS.

AUTOMATIC FLASHING LIGHT (ON AT DUSK-OFF AT DAWN) 100' ON CENTER SHALL BE USED IN NAVIGABLE CHANNELS ONLY



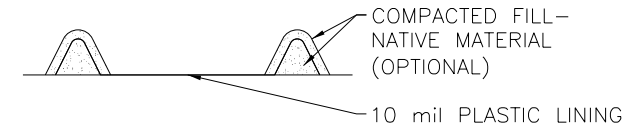
ORIENTATION WHEN INSTALLED (TIDAL SITUATION-TYPE III)-N.T.S.

NOTE

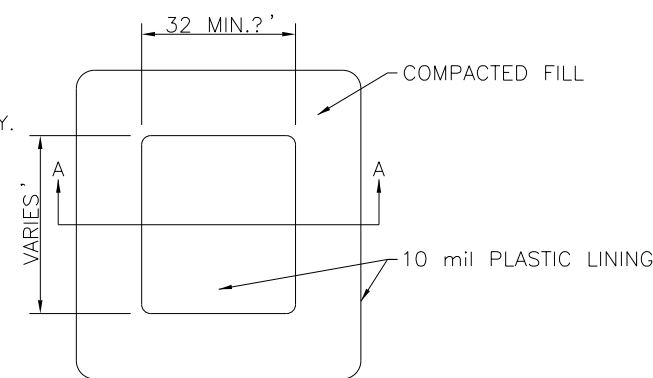
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NOTES:

1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. A ROLL OFF CONTAINER SPECIFICALLY MANUFACTURED FOR CONCRETE AND STUCCO WASHOUT MAY BE SUBSTITUTED.

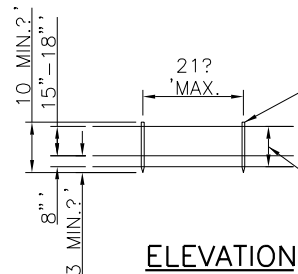


SECTION A-A



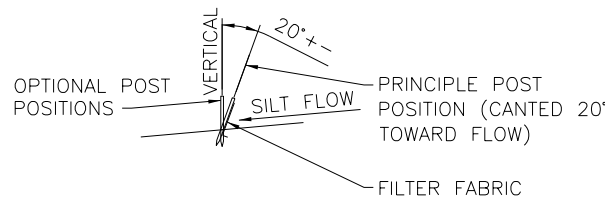
PLAN TYPE "ABOVE GRADE" WITH COMPACTED FILL

CONCRETE & STUCCO WASTE MANAGEMENT-N.T.S.



ELEVATION

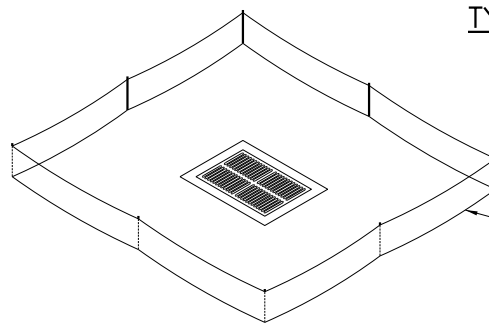
POST OPTIONS:
WOOD 2-1/2" MIN. DIA.
WOOD 2"x4"
OAK 1-1/2"x1-1/2"
STEEL 1.33 LBS./FT. MIN.
FILTER FABRIC (IN CONFORMANCE WITH SEC. 985 F.D.O.T. SPEC.)



SECTION

NOTES: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (L.F.)

TYPE III SILT FENCE



NOTE: SPACING FOR TYPE III FENCE TO BE IN ACCORDANCE WITH CHART 1, SHEET 1 OF 3 AND DITCH INSTALLATIONS AT DRAINAGE STRUCTURES SHEET 2 OF 3

TYPE III SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS

DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

SILT FENCE APPLICATIONS-N.T.S.

REVISIONS				
DESCRIPTION	DATE	BY	DESCRIPTION	

Kimley»Horn

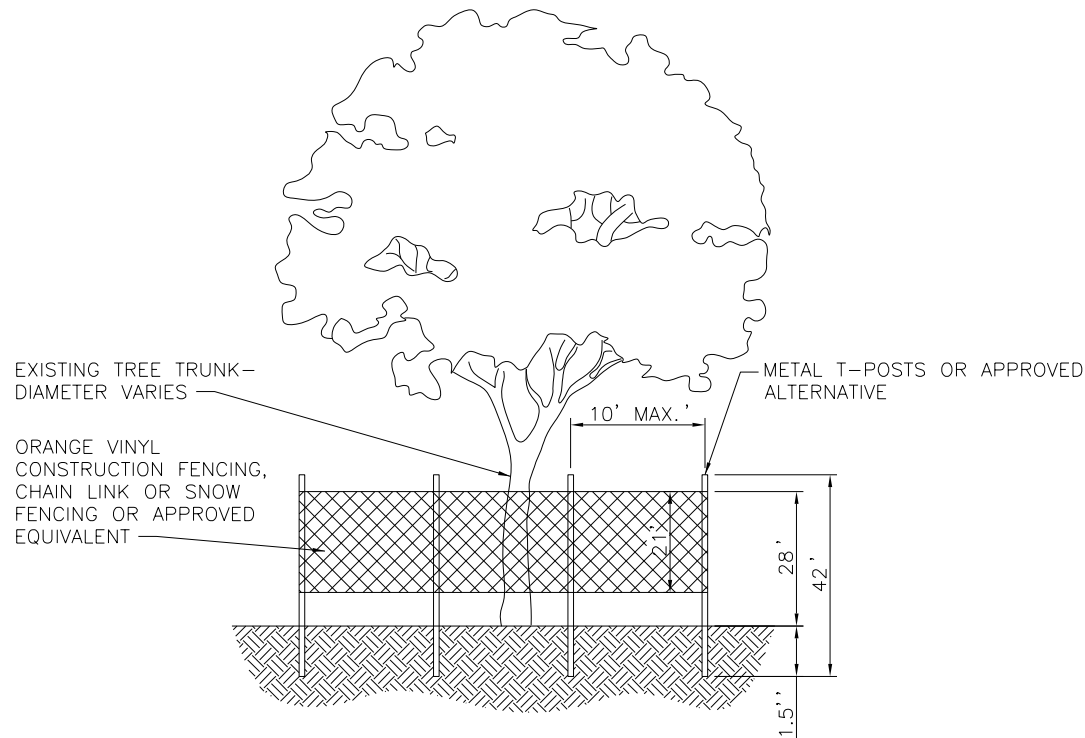
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**66th AVENUE FROM 69th STREET
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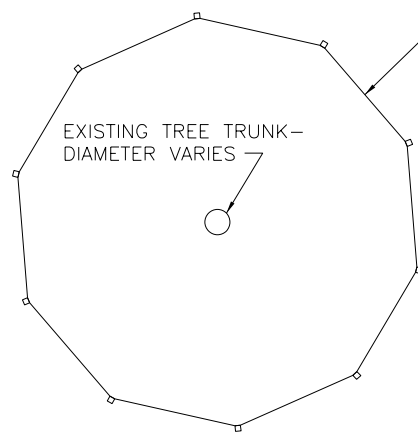
**INDIAN RIVER COUNTY
EROSION CONTROL DETAILS**

SHEET NO.

154



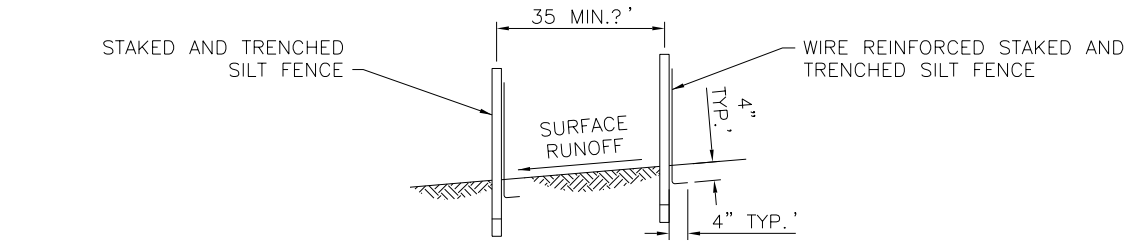
ELEVATION



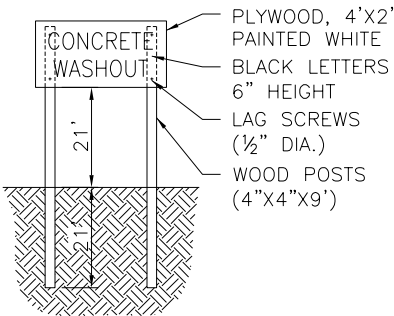
PLAN

PROTECTIVE FENCING FOR TREES-N.T.S.

- NOTES:
1. ALL TREES RETAINED ON A SITE SHALL BE PROTECTIVELY BARRICADED BEFORE AND DURING CONSTRUCTION ACTIVITIES.
 2. UNDERGROUND UTILITY LINES SHALL BE ROUTED AROUND EXISTING TREES TO THE OUTSIDE OF THE DRIPLINE WHERE ABLE.
 3. INSTALLATION OF FENCES AND WALLS SHALL TAKE INTO CONSIDERATION THE ROOT SYSTEMS OF EXISTING TREES.
 4. FENCE/BARRICADE SHALL BE INSTALLED AT PERIMETER OF ALL TRESS OR GROUP OF TREES TO BE PRESERVED. FENCE SHALL BE MAINTAINED DURING CONSTRUCTION.
 5. DO NOT PARK HEAVY EQUIPMENT ON TREE ROOTS. DO NOT ADD FILL 4" TO 6" AROUND TREE. ALL WORK WITHIN THE CRZ MUST BE DONE BY HAND.



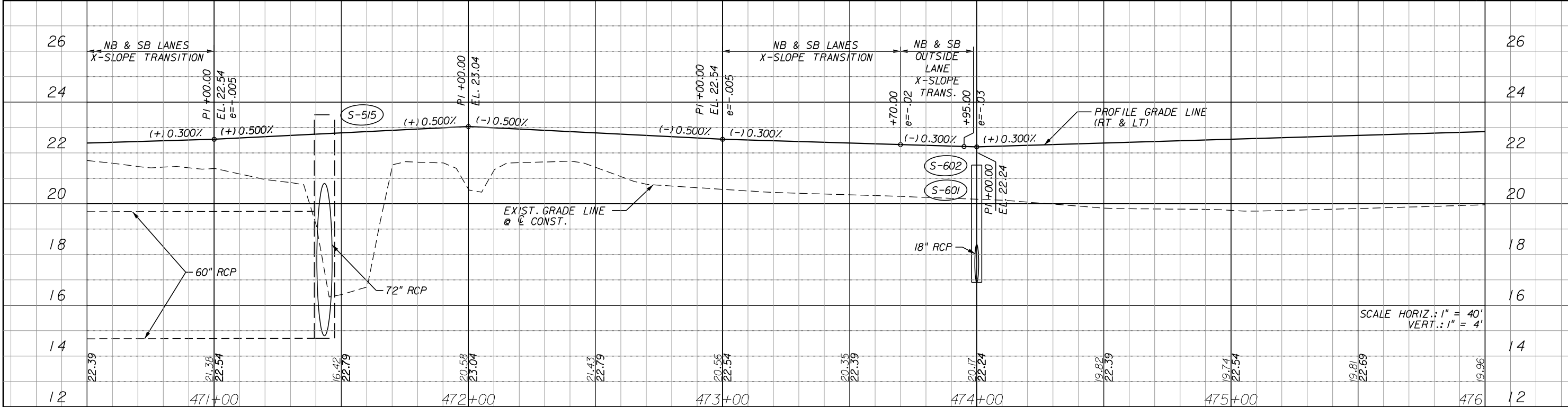
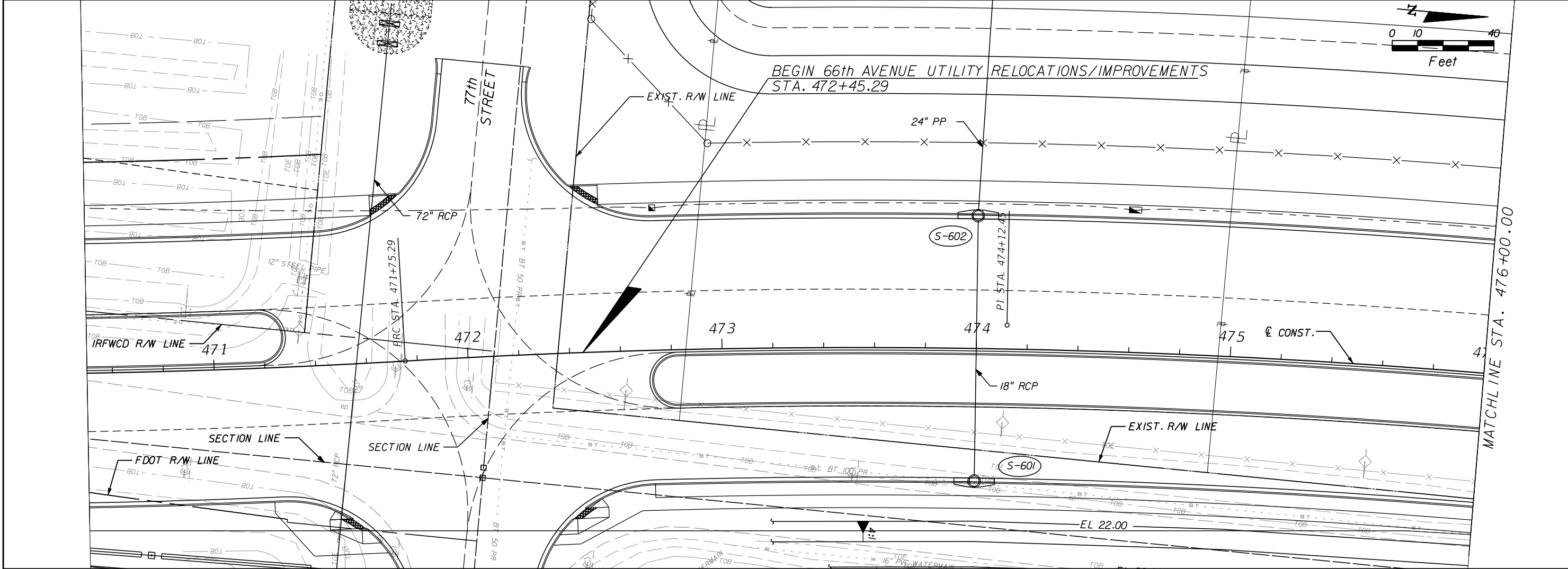
DOUBLE ROW STAKED SILT FENCE FOR USE AROUND WETLANDS-N.T.S.



CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)

- NOTE
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REVISIONS					Kimley»Horn	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS	INDIAN RIVER COUNTY EROSION CONTROL DETAILS	SHEET NO.
		DESCRIPTION	DATE	BY				
					BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106	66th AVENUE FROM 69th STREET TO SR-510/85th STREET		155

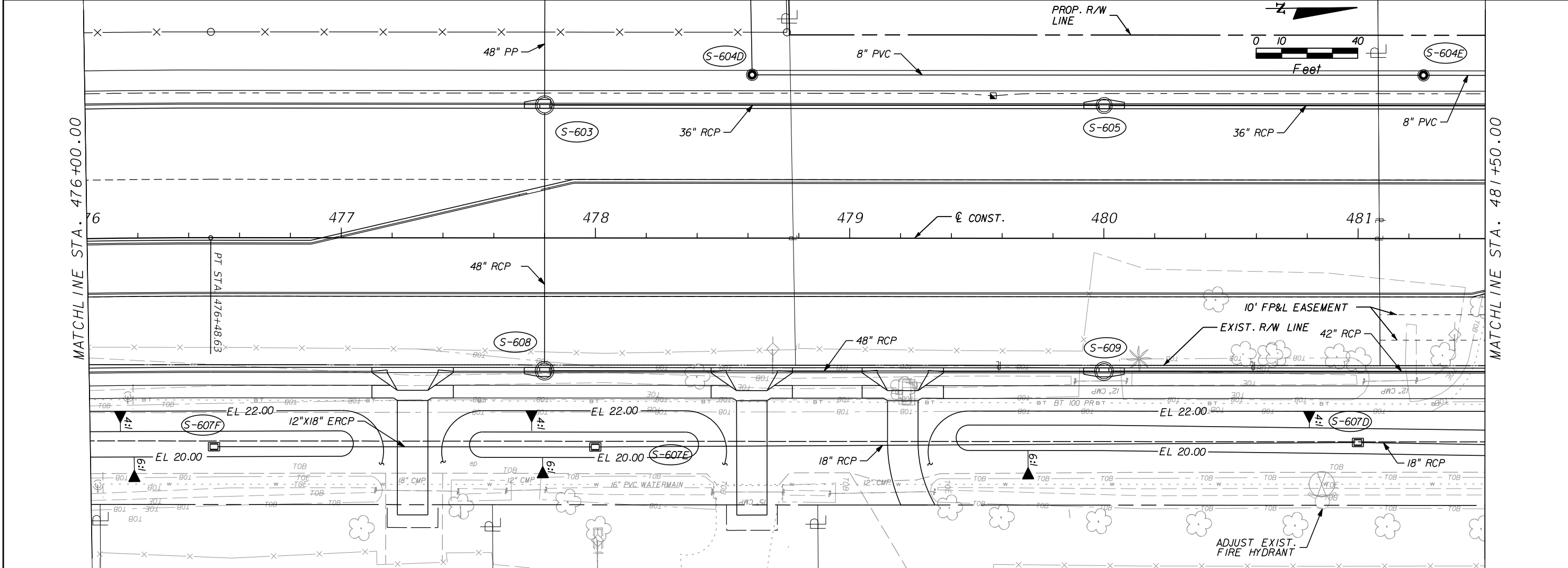


REVISIONS				Kimley»Horn	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS	66th AVENUE UTILITY RELOCATION/IMPROVEMENT PLAN & PROFILE	SHEET NO. 156
DESCRIPTION	DATE	BY	DESCRIPTION				
				BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106	66th AVENUE FROM 69th STREET TO SR-510/85th STREET		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

1505B

IR.CO. Proj. No.

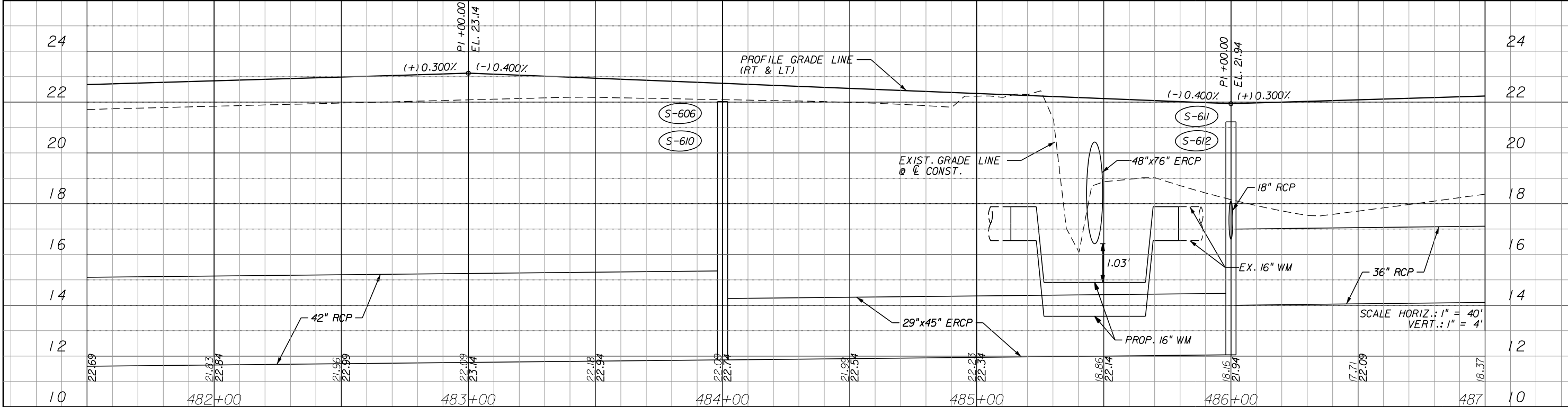
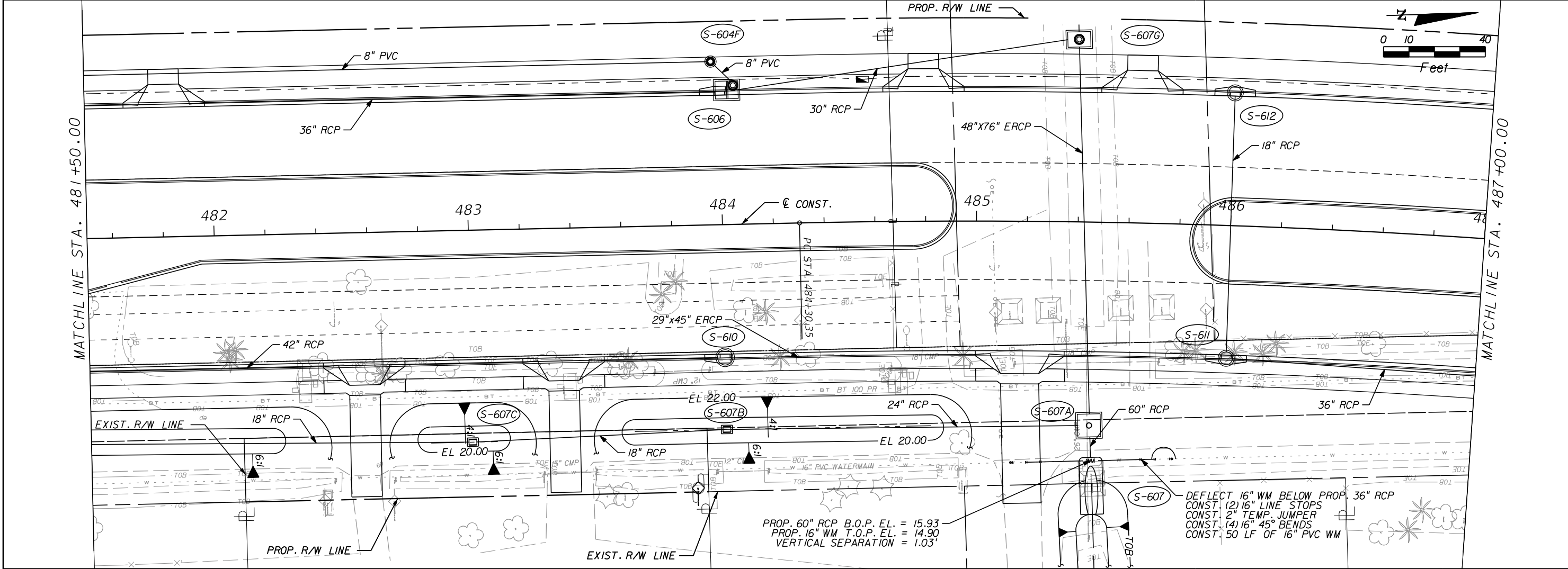


REVISIONS				Kimley»Horn		INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS		66th AVENUE UTILITY RELOCATION/IMPROVEMENT PLAN & PROFILE		SHEET NO. 157	
DESCRIPTION	DATE	BY	DESCRIPTION								
				BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106		66th AVENUE FROM 69th STREET TO SR-510/85th STREET					

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

1505B

IR.CO. Proj. No.



REVISIONS			
DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 35106

**INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS**
**66th AVENUE FROM 69th STREET
TO SR-510/85th STREET**

**66th AVENUE UTILITY
RELOCATION/IMPROVEMENT
PLAN & PROFILE**

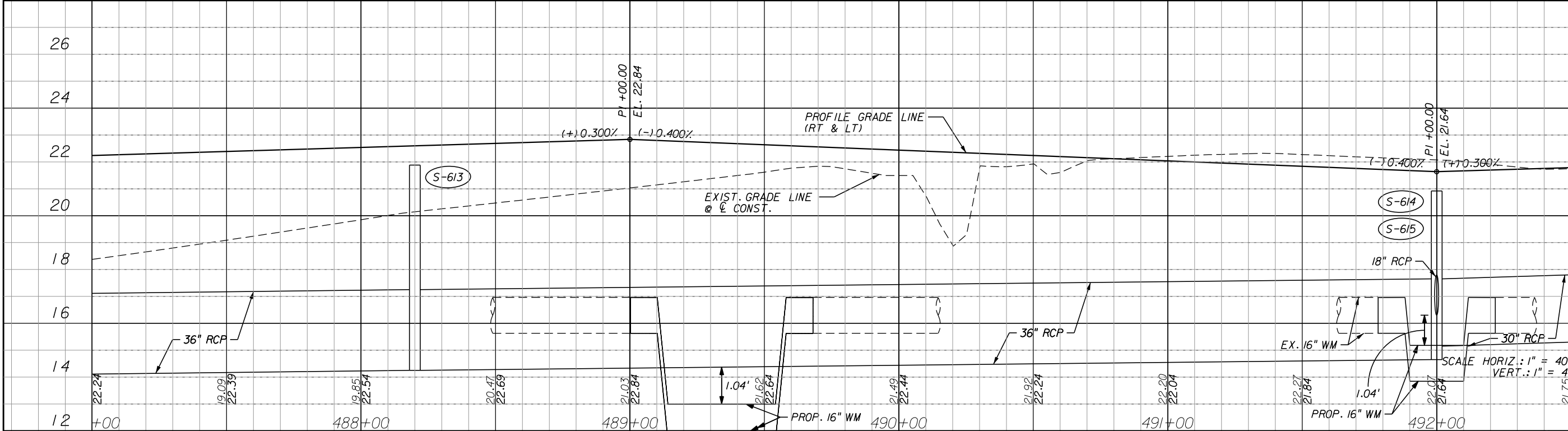
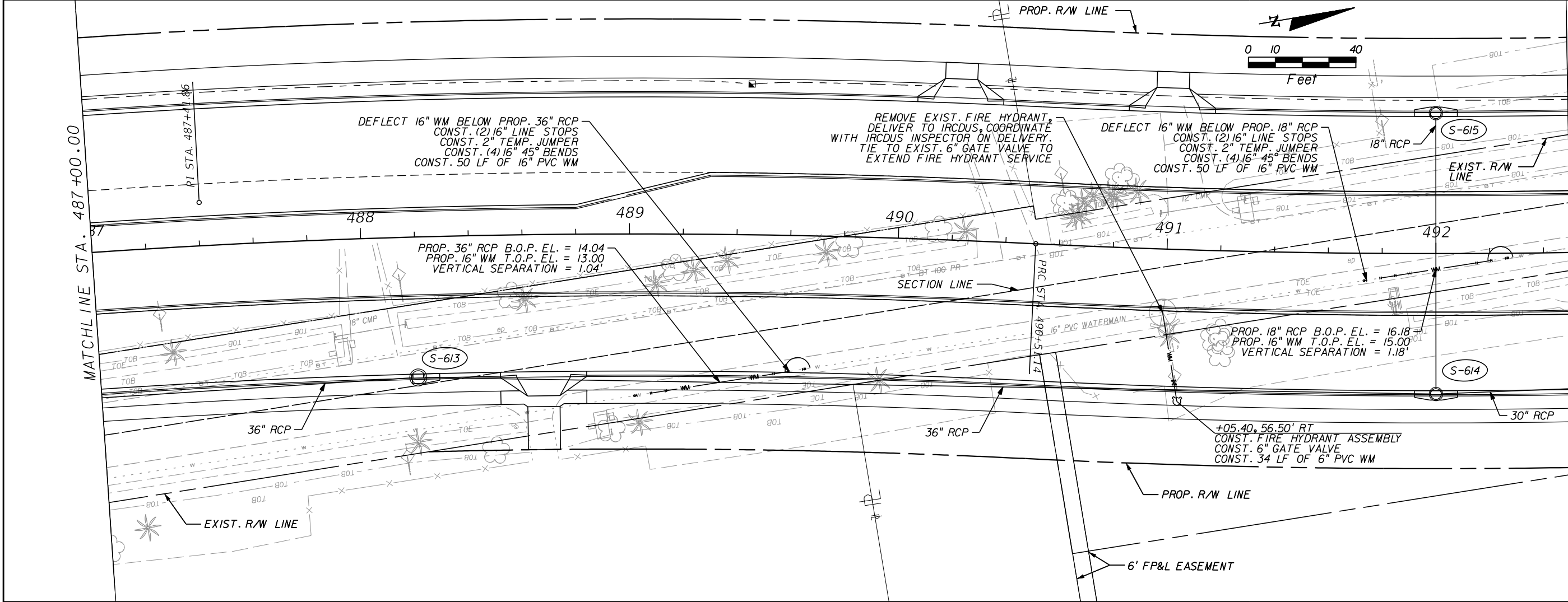
SHEET NO.

158

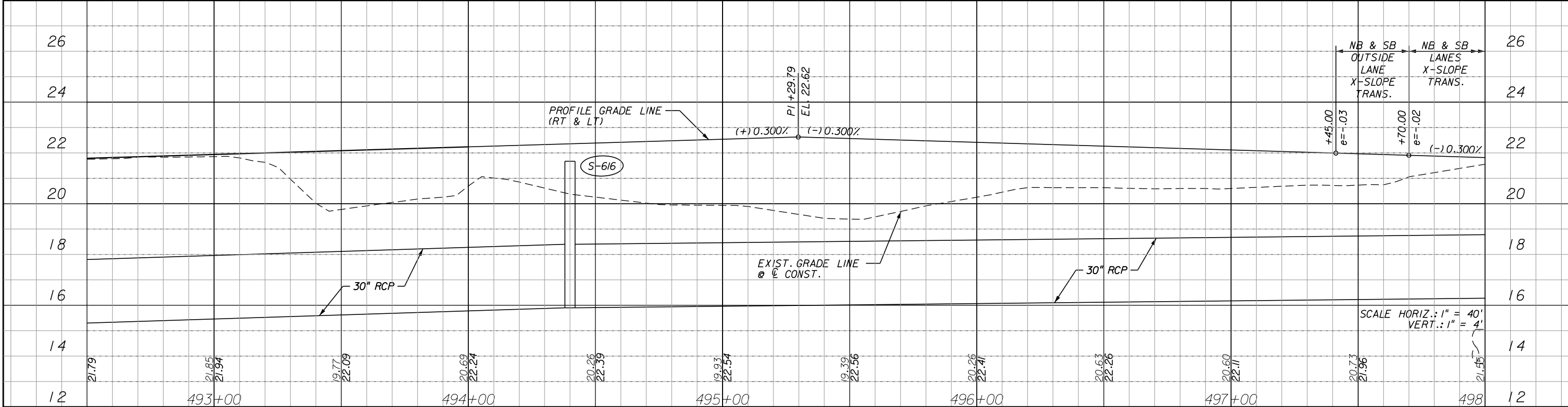
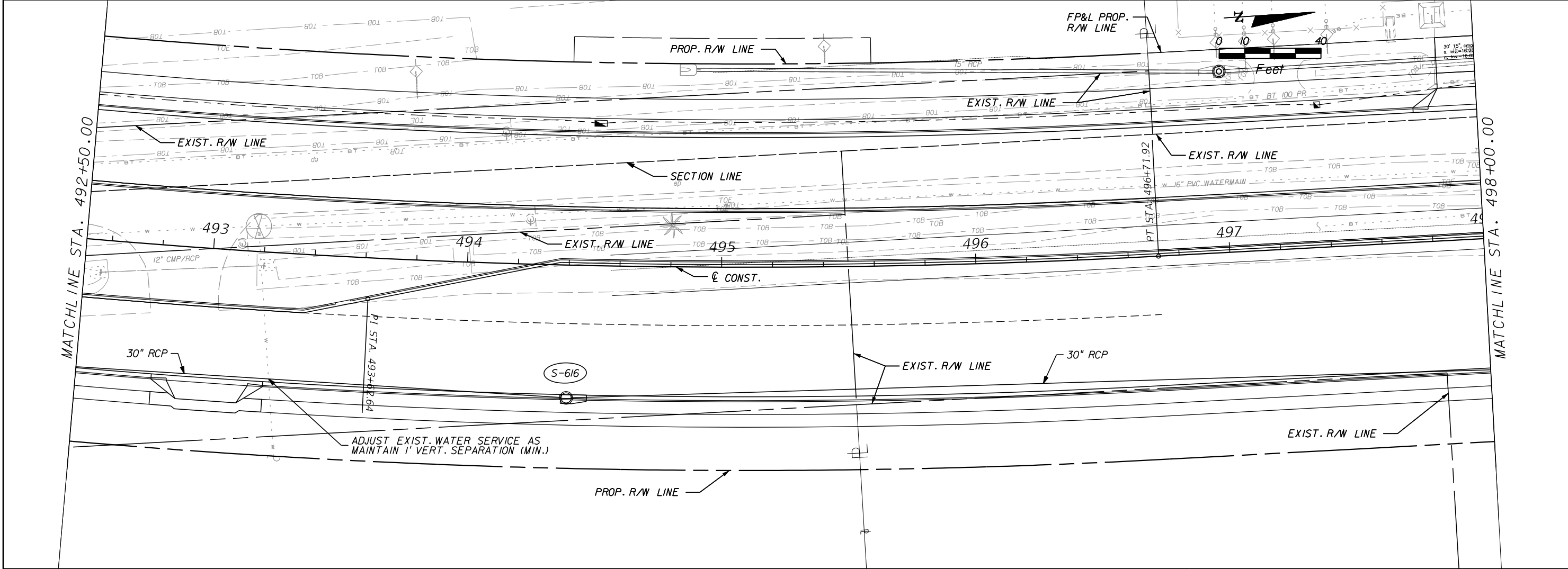
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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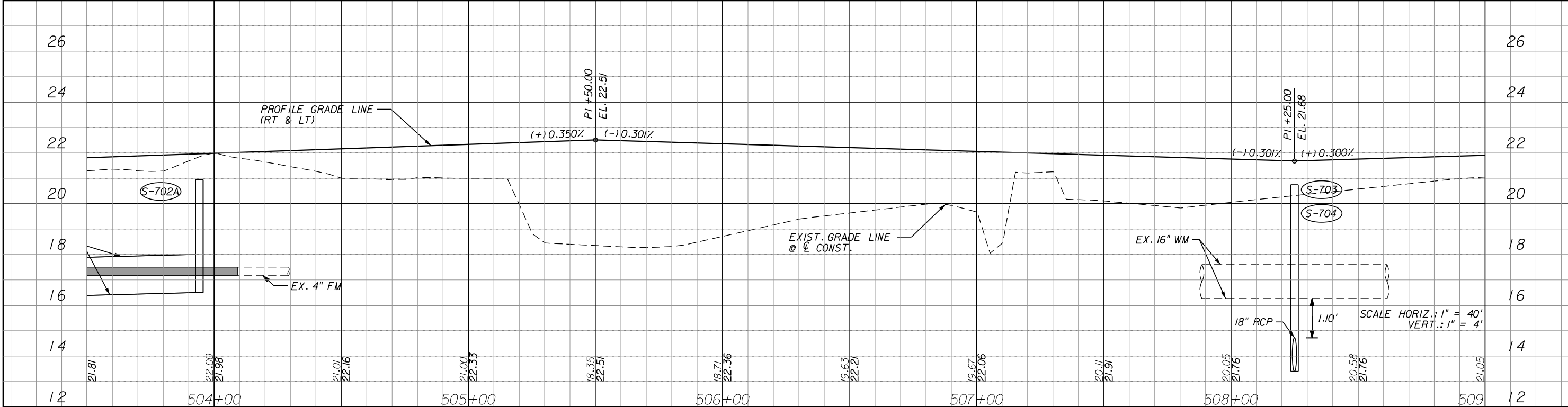
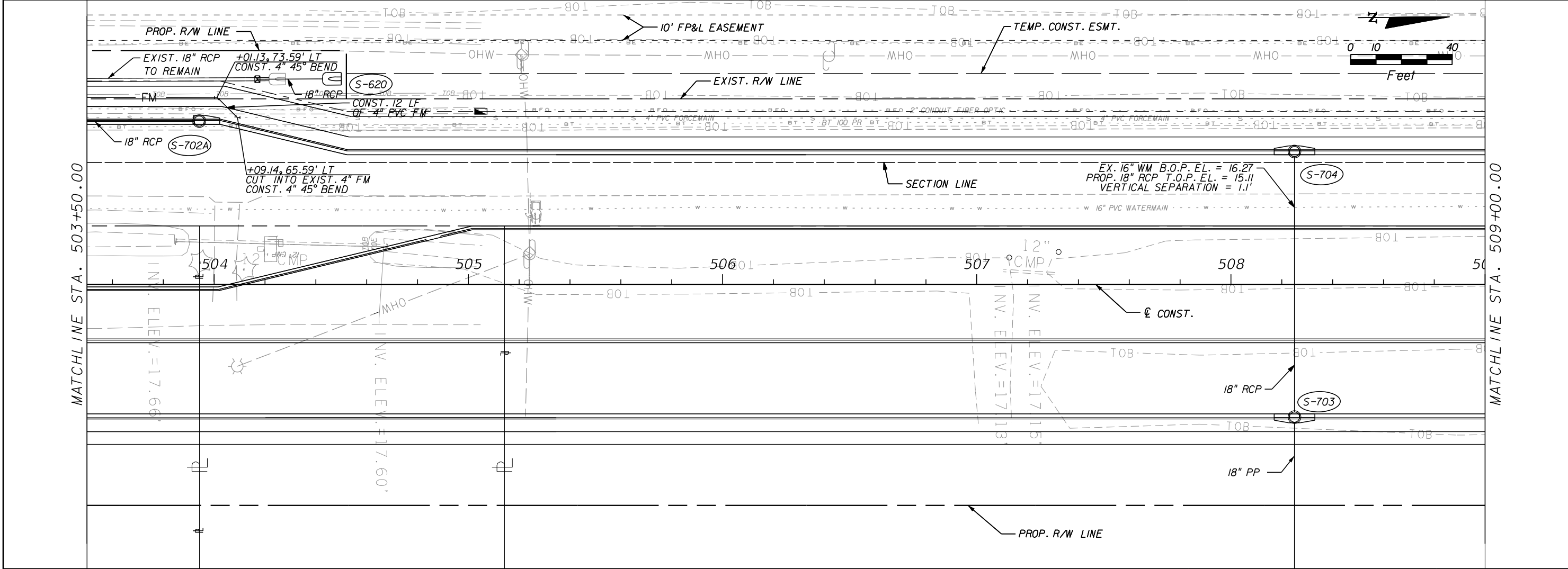
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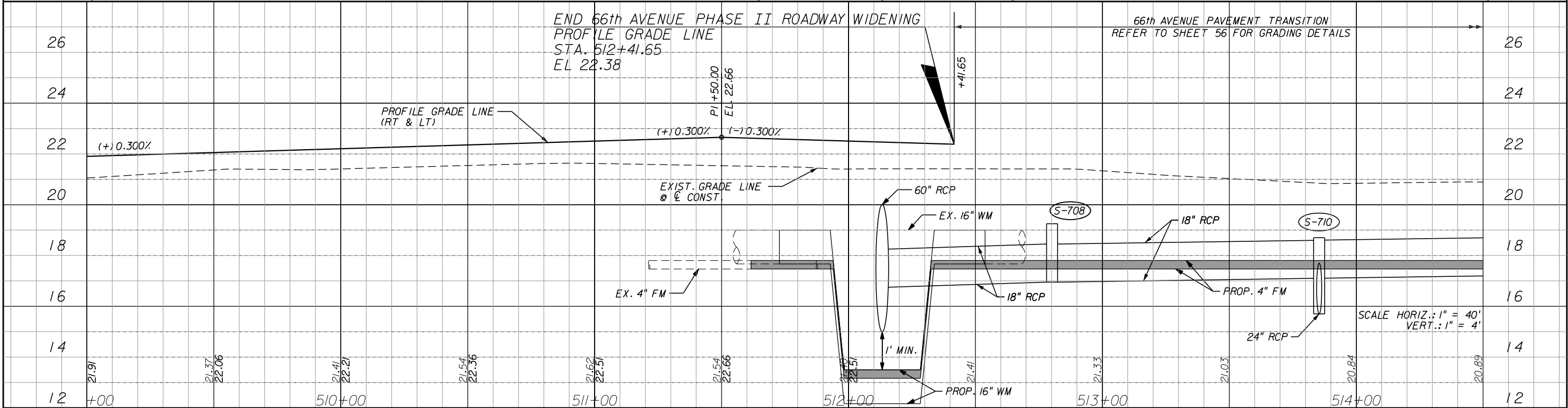
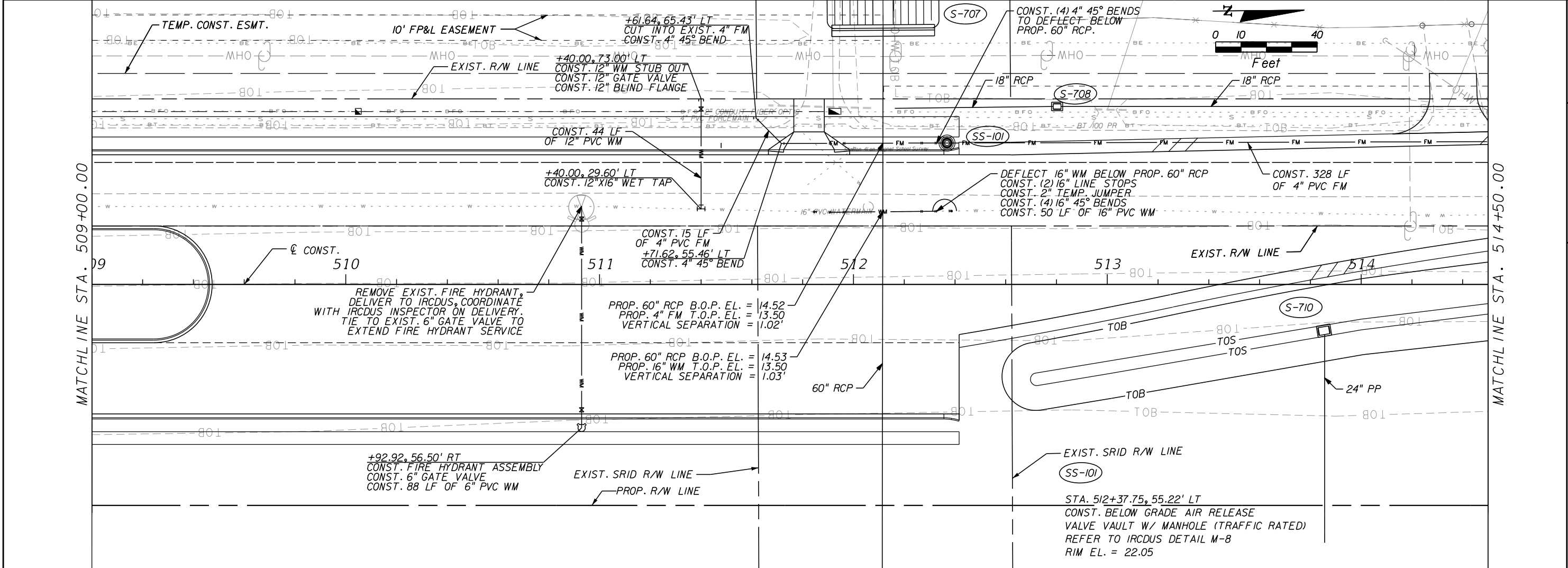
REVISIONS					Kimley»Horn <small>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106</small>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	66th AVENUE UTILITY RELOCATION/IMPROVEMENT PLAN & PROFILE	
DESCRIPTION			DATE	BY				DESCRIPTION



REVISIONS				Kimley»Horn		INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS		66th AVENUE UTILITY RELOCATION/IMPROVEMENT PLAN & PROFILE		SHEET NO.	
DESCRIPTION	DATE	BY	DESCRIPTION	BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106		66th AVENUE FROM 69th STREET TO SR-510/85th STREET				160	



REVISIONS				Kimley»Horn	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS	66th AVENUE UTILITY RELOCATION/IMPROVEMENT PLAN & PROFILE	SHEET NO. 162
DESCRIPTION	DATE	BY	DESCRIPTION				
				BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106	66th AVENUE FROM 69th STREET TO SR-510/85th STREET		



REVISIONS			
DESCRIPTION	DATE	BY	DESCRIPTION

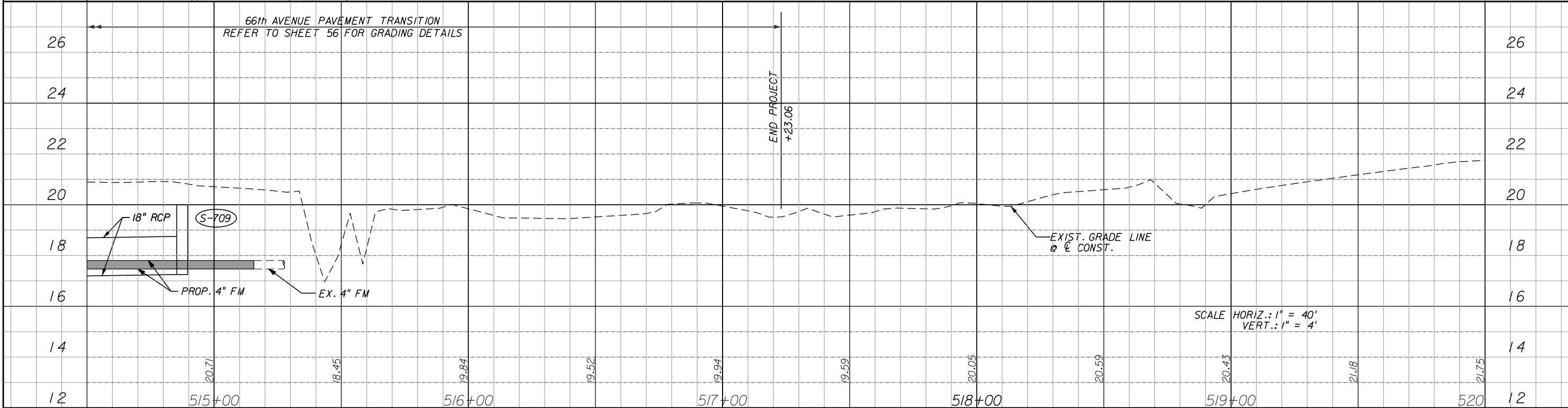
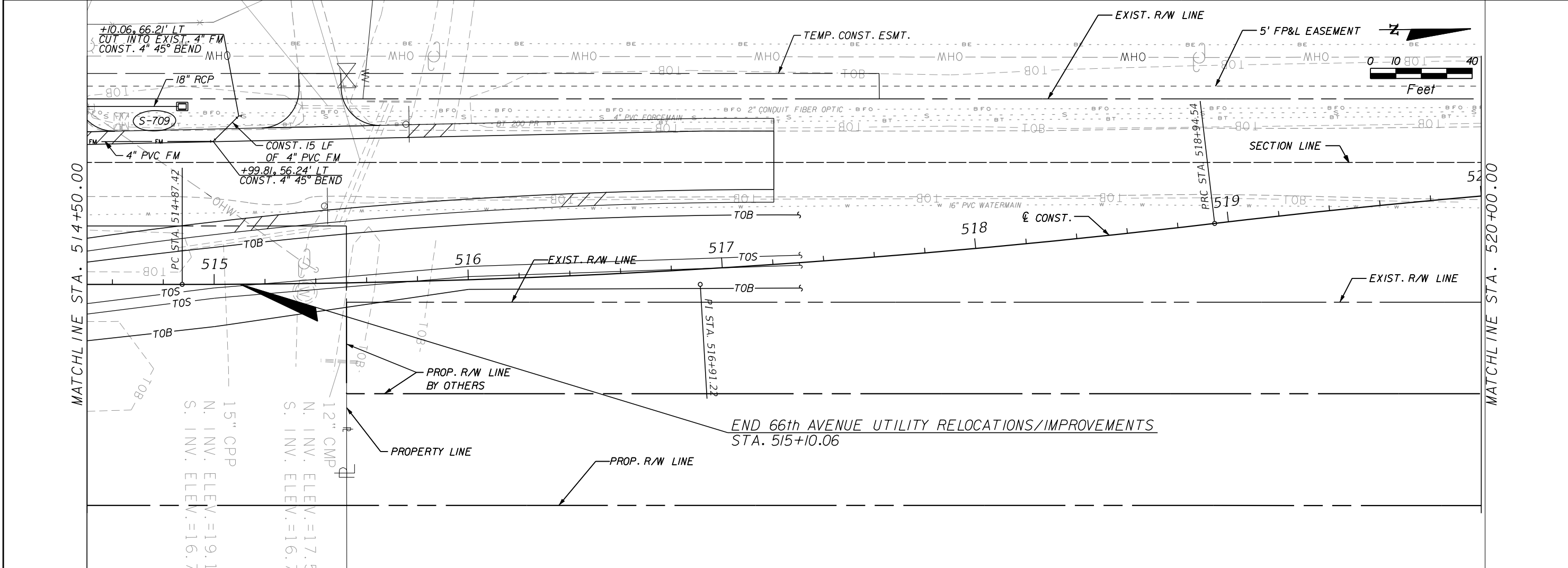
Kimley»Horn
BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 35106

**INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS**
**66th AVENUE FROM 69th STREET
TO SR-510/85th STREET**

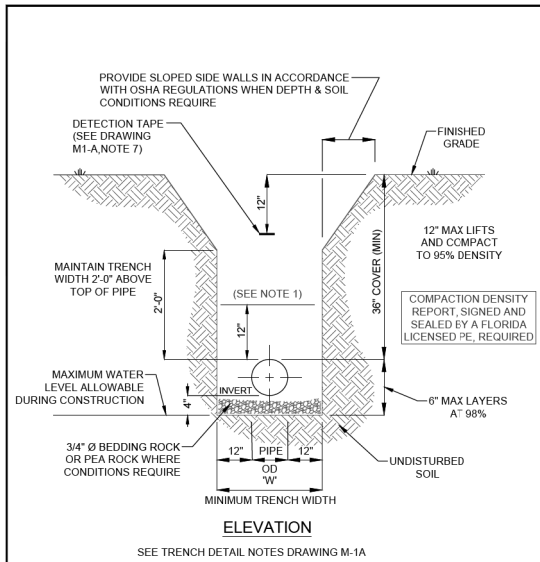
**66th AVENUE UTILITY
RELOCATION/IMPROVEMENT
PLAN & PROFILE**

SHEET NO.

163



REVISIONS				Kimley»Horn		INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS		66th AVENUE UTILITY RELOCATION/IMPROVEMENT PLAN & PROFILE		SHEET NO. 164	
DESCRIPTION	DATE	BY	DESCRIPTION								
				BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106		66th AVENUE FROM 69th STREET TO SR-510/85th STREET					



- NOTES:
1. MECHANICAL COMPACTION NOT ALLOWED BELOW THIS LEVEL OTHER THAN HAND VIBRATORY MEANS.
 2. ALL RESTORATION IN EASEMENTS OR RIGHT-OF-WAYS OR WHEN REQUIRED BY OTHER JURISDICTIONAL AGENCIES SHALL CONFORM TO IRCBUS SPECIFICATIONS OR THE OTHER JURISDICTIONAL AGENCY SPECIFICATION, WHICHEVER IS MORE STRINGENT.

INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

TRENCH DETAIL
(UNPAVED EASEMENT)

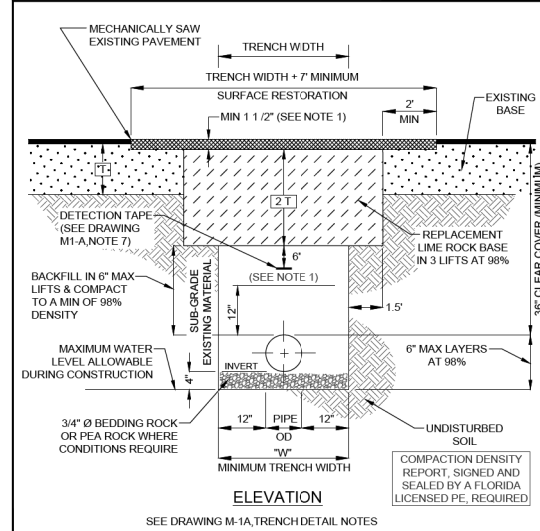
DRAWING
NO.
M-1

- NOTES:
1. WHERE SOIL CONDITIONS CANNOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE METHOD OF CONSTRUCTION TO IRCBUS FOR APPROVAL.
 2. SHEETING WILL BE REQUIRED AS DETERMINED IN THE FIELD IN ACCORDANCE WITH OSHA REGULATIONS.
 3. COMPACTION PERCENTAGES SHOWN REFER TO AASHTO T-180 MODIFIED PROCTOR METHOD.
 4. MECHANICAL COMPACTION NOT ALLOWED BELOW THIS LEVEL OTHER THAN HAND VIBRATORY MEANS.
 5. COMPACTION REPORTS REQUIRED.
 6. MINIMUM TRENCH WIDTH "W" = PIPE O.D. PLUS 2'-0".
 7. 2" DETECTION TAPE WITH METALLIC BACKING TO BE INSTALLED OVER MAIN 6" BELOW BOTTOM OF BASE COURSE. TAPE TO BE MARKED "CAUTION-WATER LINE BELOW", "CAUTION-FORCE MAIN BELOW", OR "CAUTION-REUSE MAIN BELOW". TRACE WIRE SHALL BE USED CONTINUOUSLY ON ALL PIPE. SEE DRAWING, No. M-14, TRACE WIRE DETAIL.
 8. ALL RESTORATION IN EASEMENTS OR RIGHT-OF-WAYS OR WHEN REQUIRED BY OTHER JURISDICTIONAL AGENCIES SHALL CONFORM TO IRCBUS SPECIFICATIONS OR THE OTHER JURISDICTIONAL AGENCY SPECIFICATION, WHICHEVER IS MORE STRINGENT.
 9. ALL PIPE TO BE LOCATED A MINIMUM OF 5' O.C. (TYPICAL) FROM EDGE OF PAVEMENT.
 10. EXCAVATABLE FLOWABLE FILL IS ALLOWED WITH PRIOR APPROVAL OF PROPOSED MATERIAL STRENGTH BY COUNTY PUBLIC WORKS ENGINEER OR DESIGNEE.

INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

TRENCH DETAIL
NOTES

DRAWING
NO.
M-1
A



- NOTES:
1. MECHANICAL COMPACTION NOT ALLOWED BELOW THIS LEVEL OTHER THAN HAND VIBRATORY MEANS.
 2. NEW SURFACE MATERIALS SHALL BE CONSISTENT IN DEPTH WITH EXISTING MATERIALS AND SHALL HAVE LAPPED JOINTS, (1 1/2" MINIMUM THICKNESS). PAVEMENT MATERIAL TO BE SPECIFIED.
 3. MINIMUM TRENCH WIDTH "W" = PIPE O.D. PLUS 2'-0".
 4. EXCAVATABLE FLOWABLE FILL IS ALLOWED WITH PRIOR APPROVAL OF PROPOSED MATERIAL STRENGTH BY COUNTY PUBLIC WORKS ENGINEER OR DESIGNEE.

INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

TRENCH DETAIL (PAVED
AREAS & SHOULDERS)

DRAWING
NO.
M-2

RESTRAINED LENGTH IN FEET EACH SIDE OF BEND													
PIPE DIAMETER (INCHES)	D.I.P.					P.V.C.							
	90°	45°	22 1/2°	11 1/4°		90°	45°	22 1/2°	11 1/4°				
3"	30'	15'	10'	5'		40'	20'	10'	5'				
4"	35'	15'	10'	5'		55'	25'	15'	10'				
6"	55'	25'	10'	5'		80'	35'	20'	10'				
8"	65'	30'	15'	10'		90'	40'	20'	10'				
10"	80'	35'	20'	10'		110'	50'	25'	15'				
12"	95'	40'	20'	10'		130'	55'	30'	15'				
16"	120'	50'	25'	15'		165'	70'	35'	20'				
20"	150'	65'	30'	15'		200'	85'	40'	20'				
24"	180'	70'	35'	20'		210'	90'	45'	25'				
30"	190'	80'	40'	20'		250'	105'	50'	25'				
36"	220'	95'	45'	25'		0	0	0	0				
42"	245'	105'	50'	25'		0	0	0	0				
48"	260'	120'	60'	30'		0	0	0	0				

RESTRAINED LENGTHS FOR DEAD ENDS AND BRANCHES FROM
TEES SHALL BE THE SAME AS FOR 90° BENDS

RESTRAINED LENGTH IN FEET EACH SIDE FOR REDUCER										
PIPE DIAMETER (INCHES)	3"	4"	6"	8"	10"	12"	16"	20"	24"	30"
3"	0	0	0	0	0	0	0	0	0	0
4"	0	0	0	0	0	0	0	0	0	0
6"	50'	45'	0	0	0	0	0	0	0	0
8"	75'	70'	40'	0	0	0	0	0	0	0
10"	95'	90'	70'	40'	0	0	0	0	0	0
12"	120'	115'	100'	75'	40'	0	0	0	0	0
16"	160'	155'	140'	125'	100'	70'	0	0	0	0
20"	200'	195'	185'	170'	150'	130'	75'	0	0	0
24"	160'	155'	150'	140'	135'	120'	90'	50'	0	0
30"	195'	190'	185'	180'	170'	160'	120'	105'	70'	0
36"	225'	220'	215'	210'	205'	195'	180'	150'	125'	70'
42"	245'	240'	235'	230'	225'	220'	205'	180'	155'	105'
48"	255'	250'	245'	240'	235'	230'	215'	195'	175'	125'

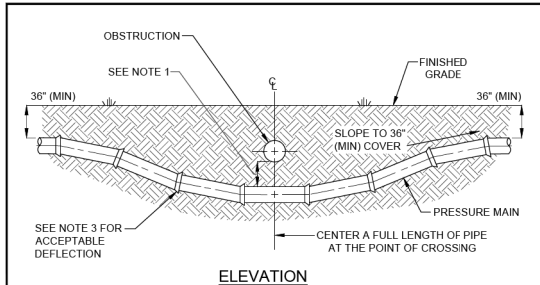
RESTRAINED LENGTHS FOR LARGER DIAMETER PIPES

ALL IN-LINE VALVES SHALL BE TREATED AS DEAD END
WITH RESTRAINED PIPE JOINTS UP AND DOWN

INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

RESTRAINED PIPE
LENGTHS AND SCHEDULE
NOTES

DRAWING
NO.
M-3

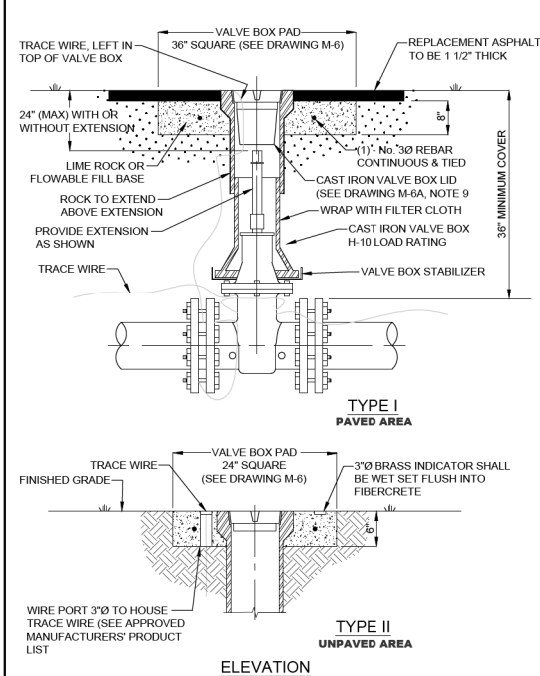


- NOTES:
1. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY, VACUUM TYPE SANITARY SEWER, STORM SEWER, OR PRESSURE TYPE SANITARY SEWER, WASTEWATER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE WATER MAIN IS AT LEAST 6", AND PREFERABLY 12", ABOVE OR A MINIMUM OF 12 INCHES BELOW THE OTHER PIPELINE. IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE IF 36" MINIMUM COVER CAN BE MAINTAINED ABOVE THE WATER MAIN AND 6" OF SEPARATION BETWEEN THE WATER MAIN AND THE OTHER PIPELINE.
 2. AT UTILITY CROSSINGS, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER, AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER.
 3. CONSTRUCT STANDARD CROSSING NOT TO EXCEED 75% OF THE MANUFACTURER'S MAXIMUM JOINT DEFLECTION.
 4. OTHER METHODS OF RESTRAINT MAY BE USED AS APPROVED BY IRCBUS IN LIEU OF DEFLECTING THE PIPE AS SHOWN ABOVE.
 5. TRACER WIRE SHALL BE INSTALLED ABOVE THE PIPE. (SEE DRAWING, No. M-14)
 6. ALL WATER AND SEWER PIPING SHALL BE LOCATED A MINIMUM HORIZONTAL SEPARATION EQUAL TO THE DEPTH OF THE PIPE PLUS THE DIAMETER OF THE PIPE FROM ANY PERMANENT ABOVE GROUND STRUCTURES (I.E. WALLS, TREES, TRANSFORMER PADS, ETC.) AND A MINIMUM HORIZONTAL SEPARATION EQUAL TO FOUR (4) FEET FROM ANY UNDERGROUND UTILITIES (I.E. GAS MAINS, TELEPHONE LINES, CABLE LINES, IRRIGATION MAINS, ETC.)
 7. IRCBUS MAY REQUIRE AIR RELEASE VALVES ON EACH SIDE OF A UTILITY CROSSING.

INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

UTILITY CROSSINGS

DRAWING
NO.
M-4



INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

VALVE AND BOX
DETAIL

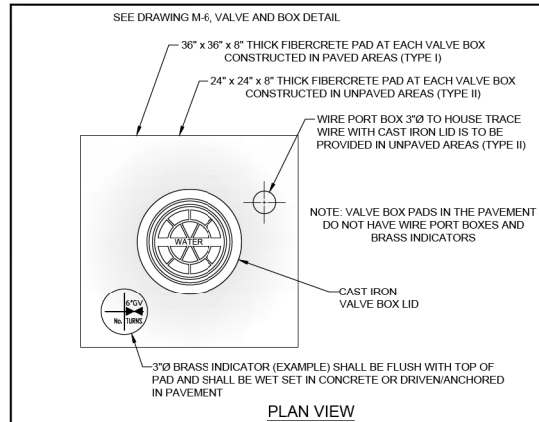
DRAWING
NO.
M-6

- NOTES:
1. VALVE BOXES SHALL BE CONSTRUCTED PER MANUFACTURERS' SPECIFICATION.
 2. ALL VALVE BOXES SHALL BE SHAFT/SCREW TYPE AND CANNOT REST ON THE VALVE.
 3. ALL VALVE BOLTS SHALL BE STAINLESS STEEL WITH BRASS NUTS.
 4. VALVE MARKERS ARE TO BE INSTALLED ADJACENT TO ALL VALVES IN UNPAVED AREAS AS DIRECTED BY IRCBUS. (SEE DRAWING, No. M-10, VALVE MARKER)
 5. ALL VALVES REQUIRE STATE PLANE COORDINATES.
 6. TRACE WIRE IS REQUIRED. (SEE DRAWING, No. M-14, TRACE WIRE DETAILS)
 7. BLUE REFLECTIVE MARKERS (RPMs) ARE TO BE LOCATED IN MID-LANE OF ROADWAY FOR ALL HYDRANT VALVES. (SEE DRAWING, No. W-1, FIRE HYDRANTS & VALVE LOCATIONS)
 8. REFLECTIVE MARKERS SHALL NOT BE PLACED IN BIKE LANES.
 9. VALVE BOX LID LOCATED IN PAVEMENT SHALL BE A MINIMUM 24 LBS. WITH A MINIMUM 6" LONG THROAT.
 10. VALVE BOX SHALL COMPLY WITH FDOT STANDARDS AS APPLICABLE.
 11. VALVE EXTENSIONS OVER 36" REQUIRE IRCBUS ENGINEERING APPROVAL.
 12. VALVE SPACING ON WATER MAINS SHALL NOT EXCEED 1,000' MAXIMUM.

INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

VALVE AND BOX DETAIL
NOTES

DRAWING
NO.
M-6
A



- NOTES:
1. VALVE BOX LIDS SHALL BE PAINTED: BLUE - WATER
FIRE HYDRANTS - RED
FORCE MAINS - GREEN
WASTEWATER MAINS - PURPLE
BRINE - BROWN
 2. IN UNPAVED AREAS (SEE DRAWING, No. M-6, TYPE II) A BRASS VALVE INDICATOR IS TO BE PROVIDED, WITH ENGRAVED DIAGRAM OF VALVE LOCATION AND DESCRIPTION. (SEE EXAMPLE ABOVE) INDICATOR SHALL BE FLUSH WITH VALVE PAD.
 3. VALVE BOX LID LOCATED IN PAVEMENT SHALL BE A CAST IRON, STAY-PUT COVER, MINIMUM 24 LBS. WITH A MINIMUM 6" LONG THROAT AND SHALL BE MARKED WITH RAISED LETTERS: "WATER", "SEWER", "BRINE", OR "REUSE WATER" AS APPLICABLE.
 4. VALVE BOX SHALL COMPLY WITH FDOT STANDARDS AS APPLICABLE.
 5. NO VALVE RINGS ARE TO BE USED.
 6. IN TYPE I, PAVED AREAS, THE VALVE BOX PAD TOP ELEVATION SHALL BE EVEN WITH THE ROCK GRADE TO ALLOW BOTH LAYERS OF ASPHALT TO COVER THE VALVE BOX PAD WITH THE FINAL ASPHALT LAYER FLUSH WITH THE TOP OF THE VALVE BOX. (SEE DRAWING, No. M-6, VALVE AND BOX DETAIL)

INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

VALVE BOX PAD

DRAWING
NO.
M-7

REVISIONS					
DESCRIPTION	DATE	BY	DESCRIPTION		

Kimley»Horn

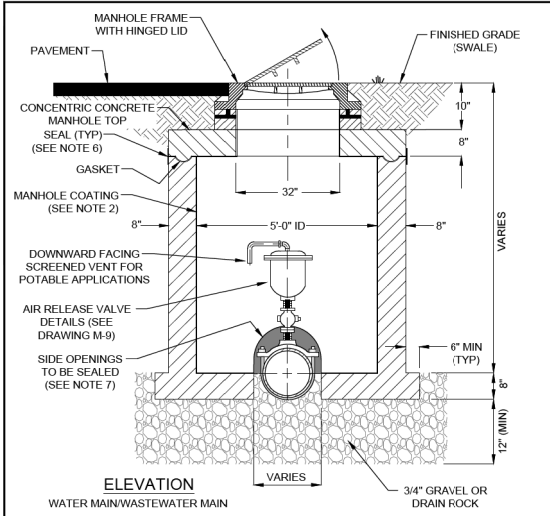
BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 35106

**INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS**

**66th AVENUE FROM 69th STREET
TO SR-510/85th STREET**

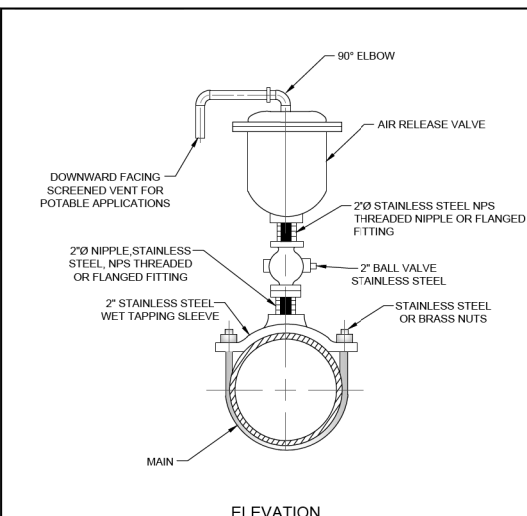
**INDIAN RIVER COUNTY
UTILITY DETAILS**

SHEET
NO.
165



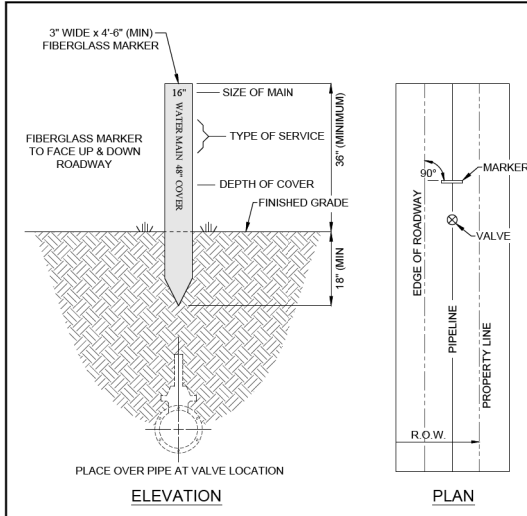
- NOTES:
- AIR RELEASE VALVE IS TO BE LOCATED INSIDE A CONCRETE MANHOLE WITH HINGED LID, PER IRCUDS APPROVED MANUFACTURERS' PRODUCT LIST.
 - MANHOLES FOR SEWER FORCE MAINS SHALL BE COATED. ALL COATING MATERIAL SHALL BE PER IRCUDS APPROVED MANUFACTURERS' PRODUCT LIST.
 - SEE DRAWING, No. M-9, AIR RELEASE VALVE ABOVE GROUND (AUTOMATIC WATER/WASTEWATER).
 - SEE DRAWING, No. M-14, TRACER WIRE DETAILS.
 - WASTEWATER LIDS SHALL BE VENTED.
 - SEAL SHALL BE USED AT ALL JOINTS. SEE DRAWING, No. S-5, MANHOLE NOTES.
 - OPENING AT BOTH SIDES OF THE MANHOLE TO BE SEALED WITH MATERIALS PER IRCUDS APPROVED MANUFACTURERS' PRODUCT LIST.

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES	AIR RELEASE VALVE MANHOLE BELOW GROUND (AUTOMATIC WATER/WASTEWATER)	DRAWING NO. M-8 MAY 2019
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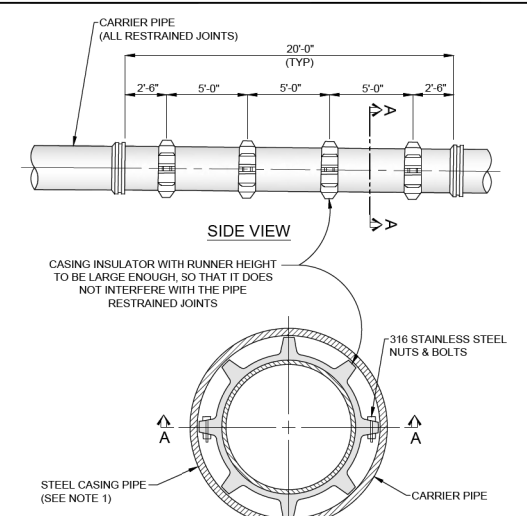
- NOTES:
- AUTOMATIC AIR RELEASE VALVE TO BE LOCATED ONLY WHERE CONDITIONS MAKE IT INACCESSIBLE OR AS REQUIRED BY THE IRCUDS.
 - AIR RELEASE RISERS TO BE IN A VERTICAL PLUMB POSITION AND PLACED AT SUMMITS IN THE SYSTEM. FOR DIRECTIONAL BORES, AIR RELEASE VALVES ARE TO BE PLACED ON EITHER SIDE OF THE CROSSING.
 - SEE DRAWING, No. M-14, TRACER WIRE DETAILS.
 - FOR AIR RELEASE VALVES LARGER THAN 2" CONSULT IRCUDS

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES	AIR RELEASE VALVE ASSEMBLY ABOVE GROUND (AUTOMATIC/WASTEWATER)	DRAWING NO. M-9 MAY 2019
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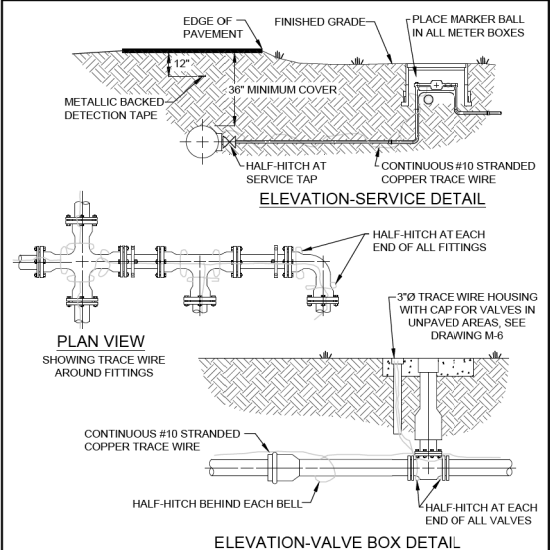
- NOTES:
- MARKER TO BE PLACED PERPENDICULAR, AT A 90° ANGLE, TO ROADWAY AND DIRECTLY OVER PIPE, ADJACENT TO VALVE, AS DIRECTED BY IRCUDS.
 - MARKER TO BE USED AT ALL CANAL CROSSINGS AND AS DIRECTED BY IRCUDS.
 - MARKER TO BE PLACED ADJACENT TO WATER MAIN VALVES, FORCE MAIN VALVES RE-USE MAIN VALVES AND BRINE VALVES AS DIRECTED BY IRCUDS.
 - ALL MATERIAL TO BE PER IRCUDS APPROVED MANUFACTURERS' PRODUCT LIST.
 - MARKERS SHALL BE PAINTED: BLUE - WATER, RED - FIRE HYDRANTS, GREEN - FORCE MAINS, PURPLE - RE-USE MAINS, BROWN - BRINE.

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES	VALVE MARKER	DRAWING NO. M-10 MAY 2019
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- NOTES:
- STEEL CASING PIPE SHALL MEET ASTM A139 GRADE B REQUIREMENTS WITH A MINIMUM YIELD STRENGTH OF 35,000 PSI.
 - EACH LENGTH OF STEEL CASING PIPE SHALL BE FIELD WELDED TO PROVIDE WATER PROOF JOINTS.
 - INSULATORS OR SPACERS ARE TO BE PER IRCUDS APPROVED MANUFACTURERS' PRODUCT LIST.

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES	JACK AND BORE DETAIL CASING INSULATOR/SPACER	DRAWING NO. M-11 MAY 2019
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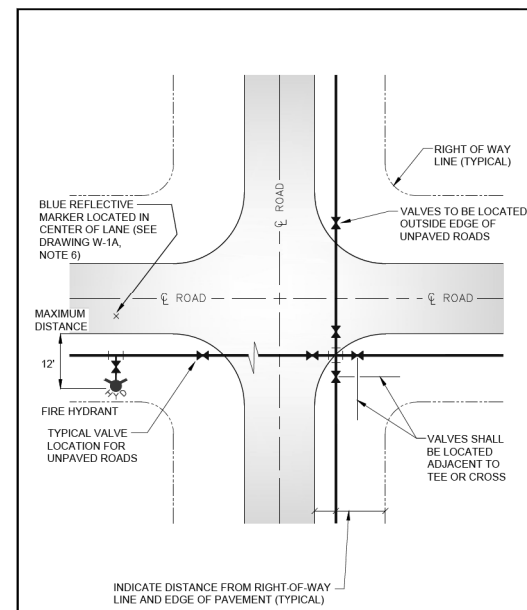
- NOTES:
- TRACE WIRE IS REQUIRED ON ALL PIPES REGARDLESS OF MATERIAL.
 - INCLUDE ALL COST OF MATERIAL AND LABOR TO INSTALL TRACE WIRE IN PRICE OF PIPE.
 - CONTRACTOR IS RESPONSIBLE FOR CONTINUITY THROUGHOUT ENTIRE PROJECT OF ALL TRACE WIRE.
 - ALL CONNECTIONS SHALL BE MADE WITH DIRECT BURY CONNECTORS.
 - ALL MATERIALS ARE TO BE PER IRCUDS APPROVED MANUFACTURERS' PRODUCT LIST.
 - COLOR OF TRACE WIRE SHALL BE: BLUE FOR WATER, GREEN FOR SEWER, AND PURPLE FOR RECLAIMED WATER.

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES	TRACE WIRE DETAILS	DRAWING NO. M-14 MAY 2019
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- MANHOLE NOTES
- REINFORCING AREA OF 0.20 SQ. IN./FT. FOR WALL SECTION, MINIMUM TO MEET OR EXCEED A.S.T.M. A-185.
 - ALL CEMENT MORTAR TO BE TYPE I OR TYPE II.
 - ALL CEMENT FOR PRECAST MANHOLES TO BE MINIMUM 3,000 P.S.I. TO MEET OR EXCEED A.S.T.M. C-478.
 - BOTTOMS AND CHANNELS OF ALL MANHOLES TO BE A MINIMUM OF 2,500 P.S.I. FILL CONCRETE SHALL BE FINISHED SMOOTH WITH STEEL TROWEL.
 - CONCRETE MANHOLES TO HAVE A MINIMUM WALL THICKNESS OF 8".
 - INSIDE AND OUTSIDE OF MANHOLE SHALL BE COATED WITH TWO COATS OF EW-1 WATER BASED EPOXY, BLACK, WITH THE IRCUDS INSPECTOR PRESENT.
 - CHANNELS TO BE FORMED IN ALL MANHOLES TO ACCEPT T.V. CAMERA.
 - ORIENT ECCENTRIC CONE AS REQUIRED BY IRCUDS INSPECTOR IN FIELD.
 - BOTTOM SECTION TO BE MONOLITHIC POUR EXCEPT WHERE DROP CONNECTION REQUIRED.
 - CONNECTIONS TO EXISTING MANHOLE AND LIFT STATION WET WELL STRUCTURES SHALL BE BY MEANS OF BORING A PENETRATION IN THE STRUCTURE, RATHER THAN PUNCHING. THE CONTRACTOR SHALL TAKE POSITIVE MEASURES TO PREVENT ANY CONCRETE OR CONSTRUCTION DEBRIS FROM ENTERING THE WASTEWATER SYSTEM.
 - BUOYANCY CALCULATIONS SHALL BE REQUIRED FOR ALL MANHOLES.
 - NO. 40 BARS, 9" O.C. REQUIRED EACH WAY IN SLAB (TOP AND BOTTOM).
 - 2 COURSES BRICK MINIMUM, 6 COURSES MAXIMUM REQUIRED BETWEEN ALL PRECAST MANHOLE TOPS AND CASINGS.
 - 3 1/4" CRUSHED STONE FOUNDATION FOR A MINIMUM DEPTH OF 12" SHALL BE PROVIDED AS REQUIRED BY IRCUDS.
 - MANHOLE LID SHALL BE TRAFFIC BEARING (H-20 LOADING).
 - SEWER PIPE INVERTS AT BOTTOM OF MANHOLES SHALL HAVE AS INVERT ELEVATION DIFFERENTIAL OF 0.1 FEET FOR A CHANGE IN DIRECTION AND 0.35 FEET FOR A STRAIGHT RUN.
 - A WATERTIGHT RAIN GUARD BOOT, TO BE PER IRCUDS APPROVED MANUFACTURER'S PRODUCT LIST, SHALL BE PROVIDED FOR ALL MANHOLE FRAME/COVERS.
 - MATERIALS FOR LINING MANHOLES, WHERE REQUIRED, TO BE PER IRCUDS, APPROVED MANUFACTURERS' PRODUCT LIST. MANHOLE LINERS SHALL BE INSTALLED ON ALL MANHOLES RECEIVING PUMPED SEWAGE, PLUS 5 MANHOLES IN EACH DIRECTION. (AS DIRECTED BY IRCUDS).
 - PUMP OUT MANHOLE SHALL BE LOCATED WITHIN 20' OF LIFT STATION AND CONSTRUCTED OUT OF RIGHT-OF-WAY.
 - ALL EXISTING MANHOLES, LIFT STATION WET WELLS, VALVE VAULTS, JOINTS AND COURSES OF BRICK SHALL BE SEALED.
 - SLOPES ON ALL CHANNEL BOTTOMS TO BE EQUAL TO SLOPES OF PIPE ENTERING AND EXITING MANHOLE.
 - DIAMETERS OF MANHOLES SHALL BE:

DEPTH OF MANHOLE	LESS THAN 10'	GREATER THAN 10'
DIAMETER	4'	5'

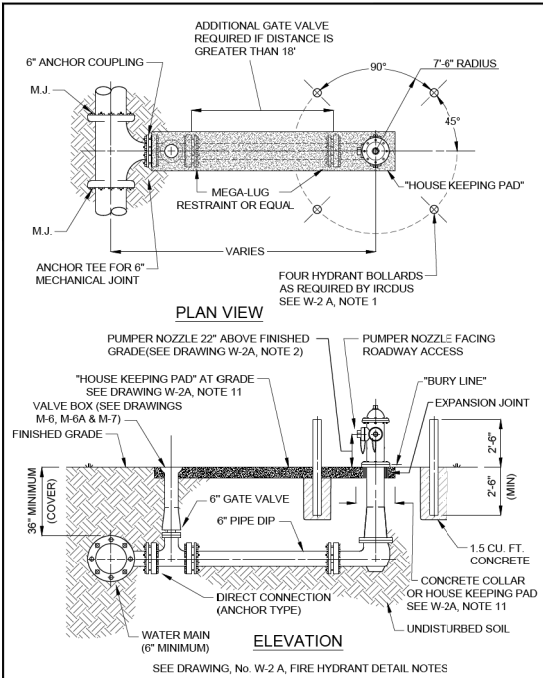
INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES	MANHOLE NOTES	DRAWING NO. S-5 MAY 2019
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INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES	FIRE HYDRANT AND VALVE LOCATIONS	DRAWING NO. W-1 MAY 2019
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- NOTES:
- VALVE SPACING ON WATER MAINS SHALL NOT EXCEED 1000'.
 - A MINIMUM COVER OF 36" IS REQUIRED ABOVE THE TOP OF ALL PIPE BELLS.
 - CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF BLUE REFLECTIVE MARKERS (RPM) INDICATING A FIRE HYDRANT. BLUE REFLECTIVE MARKER SHALL BE LOCATED IN THE CENTERLINE OF THE LANE CLOSEST TO THE HYDRANT.
 - DEAD END LINES, VALVES, AND HYDRANTS SHALL BE RESTRAINED.
 - ALL LINES SHALL BE A MINIMUM 10' OFFSET FROM BUILDINGS.
 - REFLECTIVE MARKER (RPM/S) FOR FIRE HYDRANTS SHALL BE BLUE.
 - REFLECTIVE MARKERS SHALL BE AFFIXED TO PAVEMENT WITH A FDOT APPROVED PRODUCT.
 - SEE DRAWINGS, No. M-6, VALVE AND BOX & M-7, VALVE BOX PAD.
 - ALL FIRE HYDRANT VALVE COVERS SHALL BE PAINTED RED. ALL IN-LINE VALVE COVERS SHALL BE PAINTED BLUE.

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES	FIRE HYDRANT AND VALVE NOTES	DRAWING NO. W-1 A MAY 2019
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INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

**FIRE HYDRANT
DETAIL**

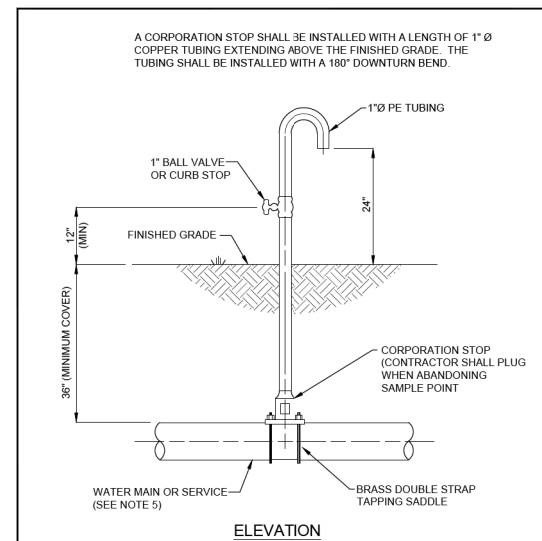
DRAWING
NO.
W-2

- NOTES:**
- HYDRANT BOLLARD TO BE 4" DIAMETER GALVANIZED STEEL OR DUCTILE IRON PIPE FILLED WITH CONCRETE WHEN REQUIRED BY IRCDUS. GUARDS TO BE PAINTED RED, SAME AS HYDRANTS AND VALVE COVER.
 - THE HYDRANT SHOULD BE SET SUCH THAT THE "BURY LINE" ON THE HYDRANT BARREL IS SET AT FINISHED GRADE OR THAT THE OPERATING NUT OF THE PUMPER NOZZLE IS A MINIMUM OF 22" ABOVE FINISHED GRADE.
 - ALL HYDRANTS SHALL BE TRAFFIC BREAKAWAY TYPE.
 - COMPLETE ANCHORED FIRE HYDRANT ASSEMBLY MAY BE UTILIZED IN LIEU OF ABOVE.
 - FIRE HYDRANT SHOULD BE LOCATED A MINIMUM 3' AND MAXIMUM 12' FROM EDGE OF PAVEMENT WHERE POSSIBLE.
 - ALL MATERIALS ARE TO BE PER IRCDUS APPROVED MANUFACTURERS' PRODUCT LIST.
 - TRACE WIRE TO BE INSTALLED AS PER DRAWING, No. M-14, TRACE WIRE DETAIL. (FOR CLARITY THE TRACE WIRE IS NOT SHOWN IN DRAWING, No. W-2, FIRE HYDRANT DETAILS).
 - MAINTAIN CLEAR ZONE RADIUS OF 7'-6" AROUND HYDRANT PERPENDICULAR TO ROADWAY OR CURB FACE (EXAMPLE MUST BE CLEAR OF SIGNS, TREES, SHRUBS, TRANSFORMERS, UTILITY POLES, ETC.)
 - HYDRANTS AND PROTECTION DEVICES SHALL HAVE CLEARANCES OF 7'-6" IN FRONT AND THE SIDES OF THE FIRE HYDRANT, WITH A 4' MINIMUM CLEARANCE TO THE REAR OF THE HYDRANT UNLESS THE AHJ (AUTHORITY HAVING JURISDICTION) REQUIRES A LARGER CLEAR ZONE.
 - SEE DRAWINGS, No. M-6 VALVE AND BOX DETAIL, M-6A VALVE AND BOX DETAIL NOTES AND M-7 VALVE BOX PAD.
 - HOUSE KEEPING PAD IS REQUIRED. HOUSE KEEPING PAD SHALL BE 6" THICK x 2' WIDE (MINIMUM) AND LOCATED AT FINISHED GRADE. BREAKAWAY FLANGES SHALL BE 2" ABOVE HOUSEKEEPING PAD. (SEE DRAWING, No. W-2, FIRE HYDRANT DETAIL).

INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

**FIRE HYDRANT
DETAIL NOTES**

DRAWING
NO.
**W-2
A**



- NOTES**
- TEMPORARY SAMPLING POINT SHALL BE CONSTRUCTED USING A SERVICE LINE WHEN POSSIBLE. SCHEDULE 40 PVC OR OTHER MATERIALS CAN BE USED, AS APPROVED BY IRCDUS.
 - NO SAMPLE POINTS SHALL BE CONSTRUCTED ON FIRE HYDRANTS.
 - CERTIFICATION OF PRESSURE TEST, TWO CONSECUTIVE DAYS OF SUCCESSFUL BACTERIOLOGICAL TESTS, AND CLEARANCE FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION IS REQUIRED BEFORE THE SAMPLE TAP CAN BE ABANDONED.
 - WHEN SAMPLING IS COMPLETE, TUBING SHALL BE REMOVED AND CORPORATION STOP PLUGGED. USE A SERVICE FOR A SAMPLE POINT WHENWHERE POSSIBLE.

INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

**TEMPORARY SAMPLING
POINT (BACTERIOLOGICAL)**

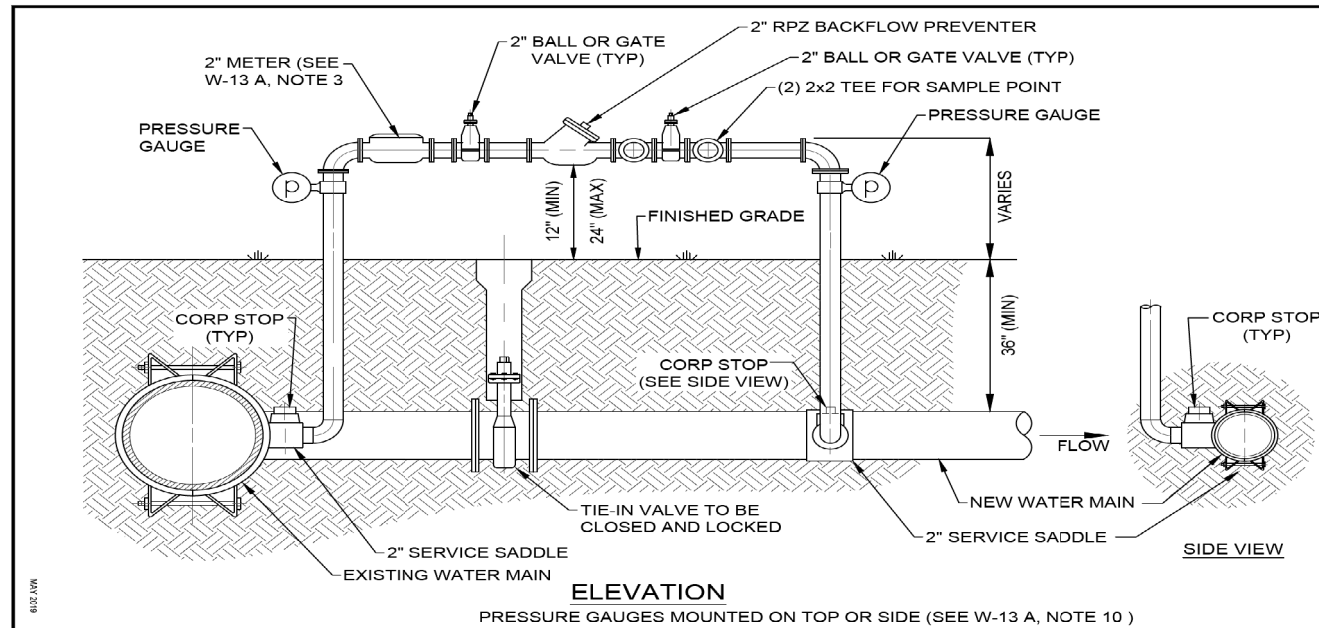
DRAWING
NO.
W-8

- TEMPORARY JUMPER DETAIL NOTES**
- A TEMPORARY JUMPER CONNECTION IS TO BE USED FOR FILLING ANY NEW WATER MAIN OF ANY SIZE FROM THE EXISTING ACTIVE WATER MAINS AND FOR THE FLUSHING OF NEW MAINS UP TO 6" DIAMETER (2.5 FPS MINIMUM VELOCITY) AND FOR PULLING BACTERIOLOGICAL SAMPLES FROM ANY NEW WATER MAIN OF ANY SIZE.
 - TIE-IN VALVE SHALL BE OPERATED BY IRCDUS PERSONNEL ONLY AND IN THE PRESENCE OF THE ENGINEER OF RECORD.
 - IRCDUS SHALL PROVIDE METER FOR SERVICE AFTER APPLICATION, DEPOSIT AND ALL FEES HAVE BEEN PAID.
 - A 2" TEMPORARY JUMPER TO BE USED UNLESS OTHERWISE DIRECTED BY IRCDUS.
 - ALL INSTALLATION AND MAINTENANCE OF THE TEMPORARY JUMPER CONNECTION AND ASSOCIATED BACKFLOW PREVENTION DEVICE, FITTINGS, VALVES, ETC., SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - ALL MATERIALS TO BE PER IRCDUS APPROVED MANUFACTURERS' PRODUCT LIST.
 - PIPE AND FITTINGS USED FOR CONNECTING THE NEW PIPE TO THE EXISTING PIPE SHALL BE DISINFECTED WITH LIQUID CHLORINE (SODIUM HYPOCHLORITE) PRIOR TO INSTALLATION IN ACCORDANCE WITH AWWA C651, LATEST EDITION. THE TAPPING SLEEVE AND EXTERIOR OF THE MAIN TO BE TAPPED SHALL BE DISINFECTED BY SPRAYING OR SWABBING PER AWWA C651 SECTION TWO. THE USE OF CHLORINE TABLETS IS STRICTLY PROHIBITED.
 - THE JUMPER CONNECTION SHALL ALSO BE USED TO MAINTAIN A MINIMUM PRESSURE OF 20 PSI IN THE NEW MAINS CONTINUOUSLY AFTER DISINFECTION AND UNTIL FDEP CLEARANCE LETTER IS OBTAINED.
 - PRESSURE GAUGES ARE REQUIRED ON EACH SIDE OF THE 2" GATE OR BALL VALVE.
 - THE CONTRACTOR SHALL PROVIDE DOCUMENTATION DEMONSTRATING THAT THE REDUCED PRESSURE ZONE BACKFLOW PREVENTER (RPZ) IS IN GOOD WORKING ORDER AT THE TIME OF INSTALLATION, AND PROVIDE DOCUMENTATION THAT THE RPZ HAS BEEN TESTED BY A QUALIFIED BACKFLOW TECHNICIAN AS APPROVED BY IRCDUS. THE CONTRACTOR SHALL HAVE EACH RPZ TESTED PRIOR TO USE ON EACH PROJECT.
 - EXCEPT AS REQUIRED TO FLUSH LINES GREATER THAN 6" DIAMETER, THE TIE-IN VALVE SHALL REMAIN CLOSED AND SHALL BE LOCKED IN THE CLOSED POSITION BY THE UTILITY COMPANY. THE TIE-IN VALVE SHALL REMAIN LOCKED UNTIL THE NEW SYSTEM HAS BEEN CLEARED FOR USE BY THE FDEP.
 - THE JUMPER CONNECTION SHALL BE MAINTAINED UNTIL CLEARANCE FOR USE FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AND OTHER PERTINENT AGENCIES HAS BEEN RECEIVED.
 - UPON RECEIPT OF CLEARANCE FOR USE BY FDEP, THE CONTRACTOR SHALL REMOVE TEMPORARY JUMPER CONNECTION. THE CORPORATION STOPS ARE TO BE CLOSED AND PLUGGED WITH 2" BRASS OR PVC PLUGS.

INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

**TEMPORARY JUMPER
DETAIL NOTES**

DRAWING
NO.
**W-13
A**



SEE DRAWING,
No. W-13 A & W-13 B,
TEMPORARY
JUMPER NOTES

INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

**TEMPORARY JUMPER
DETAIL**

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS

ROADWAY CONTRACT PLANS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

INDIAN RIVER COUNTY PROJECT No. IRC-1505B
FDOT FPID No. 436379-2-54-01

INDEX OF SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2 - T-3	GENERAL NOTES
T-4	INDIAN RIVER COUNTY TRAFFIC SIGNAL SPECIFICATIONS
T-4A	INDIAN RIVER COUNTY TYPICAL WIRING
T-4B	INDIAN RIVER COUNTY CABINET PAD DETAIL
T-4C	INDIAN RIVER COUNTY POWER SERVICE & CABINET CONDUIT
T-5	SIGNALIZATION TABULATION OF QUANTITIES
T-6	SIGNALIZATION PAY ITEM FOOTNOTES
T-7	66th AVENUE AND 81st STREET SIGNALIZATION PLAN
T-8	MAST ARM TABULATION
T-9	STANDARD MAST ARM ASSEMBLIES DESIGN TABLE
T-10	GUIDE SIGN WORKSHEET

SIGNALIZATION CONTRACT PLANS

SIGNALIZATION SHOP DRAWINGS
TO BE SUBMITTED TO:

BRIAN GOOD, P.E.
KIMLEY-HORN AND ASSOCIATES, INC.
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100

PLANS PREPARED BY:

Kimley»Horn

445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
PROJECT NUMBER: 04703504I
REGISTRY No. 35106

SIGNALIZATION PLANS
ENGINEER OF RECORD: BRIAN GOOD
P.E. NO. 56939

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

BID PLANS
JANUARY 2023

PREPARED FOR



Department of Public Works

RICHARD B. SZPYRKA, P.E., DIRECTOR

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
"DESIGN STANDARDS" DATED 2016, AND
"STANDARD SPECIFICATIONS FOR ROAD
AND BRIDGE CONSTRUCTION" DATED 2016, AS
AMENDED BY CONTRACT DOCUMENTS.

SHEET
NO.

T-1

1505B
IRC.CO. Proj. No.
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SIGNALIZATION GENERAL NOTES										1505B																					
<p>1. ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING UNLESS OTHERWISE NOTED: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD); FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (STANDARD SPECIFICATIONS) 2016; FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS (STANDARD INDEXES)) 2016, ALL SUPPLEMENTS THERETO; NATIONAL ELECTRIC CODE; INDIAN RIVER COUNTY TRAFFIC SIGNAL SPECIFICATIONS; AND ANY OR ALL INDIAN RIVER COUNTY TRAFFIC ENGINEERING DIVISION REQUIREMENTS.</p> <p>2. THE AGENCY RESPONSIBLE FOR MAINTENANCE OF THE TRAFFIC SIGNAL AND RELATED COMMUNICATIONS EQUIPMENT IS INDIAN RIVER COUNTY TRAFFIC ENGINEERING DIVISION (IRCTED) (772) 226-1547. ALL TRAFFIC SIGNAL AND RELATED COMMUNICATIONS EQUIPMENT WHEN USING PAY ITEM SERIES: 632, 634, 635, 660, 670, 684 AND 685 FOR THIS CONTRACT SHALL BE COMPATIBLE WITH IRCTED'S CENTRAL COMPUTER NETWORK SYSTEM. PRIOR TO ANY PURCHASING OF THE ABOVE PRODUCTS, ENSURE THEY HAVE BEEN APPROVED FOR SYSTEM COMPATIBILITY BY THE MAINTAINING AGENCY.</p> <p>3. IRCTED SHALL BE NOTIFIED AT (772) 226-1547 AT LEAST TWO (2) FULL BUSINESS DAYS PRIOR TO ANY WORK BEING PERFORMED AT A SIGNALIZED LOCATION IN ORDER TO PROPERLY TRANSFER MAINTENANCE RESPONSIBILITIES.</p> <p>4. THE CONTRACTOR SHALL DELIVER ALL REMOVED TRAFFIC SIGNAL EQUIPMENT, EXCEPT CONCRETE STRAIN POLES, TO IRCTED LOCATED AT 4548 41" STREET, VERO BEACH, FL 32967 (772) 226-3460. THE COST OF DELIVERY TO IRCTED SHALL BE INCLUDED IN THE REMOVAL OF THE RELATED SIGNAL PAY ITEM. THE CONTRACTOR SHALL CONTACT THE IRCTED SEVEN (7) FULL BUSINESS DAYS PRIOR TO THE DELIVERY OF ANY REMOVED EQUIPMENT. CONTRACTOR IS RESPONSIBLE FOR CONCRETE STRAIN POLE DISPOSAL AT THE CONTRACTOR'S EXPENSE.</p> <p>5. THE CONTRACTOR SHALL BE ADVISED THAT OTHER PROJECTS MAY BE UNDER CONSTRUCTION CONCURRENTLY WITH THIS PROJECT AND THAT COORDINATION EFFORTS MAY BE NECESSARY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE CONSTRUCTION SCHEDULE AND FOR THE AMOUNT OF COORDINATION REQUIRED. THE COST SHALL BE INCLUDED IN THE BID.</p> <p>6. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND OTHER FEATURES AFFECTING HIS/HER WORK PRIOR TO CONSTRUCTION, AND NOTIFY THE ENGINEER IMMEDIATELY AND PRIOR TO ANY FURTHER RELATED WORK ACTIVITY WHEN CONFLICT BETWEEN DRAWINGS AND ACTUAL CONDITIONS ARE DISCOVERED.</p> <p>7. THE CONTRACTOR SHALL CALL SUNSHINE STATE ONE-CALL AT 1-800-432-4770 FOR LOCATIONS OF UTILITIES WITHIN THE AREAS OF CONSTRUCTION FOR THIS PROJECT A MINIMUM OF TWO (2) FULL BUSINESS DAYS PRIOR TO ANY DIGGING OR EXCAVATION ACTIVITIES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE TO CONTACT ANY UTILITY OWNER(S) THAT MY NOT BE A "SUNSHINE" MEMBER.</p> <p>8. EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE LOCATION AND PROTECTION, REPAIR AND/OR REPLACEMENT OF ALL UTILITIES THAT MAY BE AFFECTED BY THE CONSTRUCTION OF THIS PROJECT. EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE DURING CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE UTILITY OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ANY REQUIRED UTILITY RELOCATIONS.</p> <p>9. THE CONTRACTOR SHALL NOTIFY ALL INVOLVED UTILITIES TWO (2) FULL BUSINESS DAYS IN ADVANCE, BEFORE SETTING TRAFFIC SIGNAL POLES OR PERFORMING ANY DIGGING OR OTHER EXCAVATION WORK, 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. KNOWN UTILITY COMPANIES INCLUDE:</p> <table><tr><th>COMPANY</th><th>CONTACT</th><th>TELEPHONE #</th></tr><tr><td>COMCAST CABLE</td><td>ANTHONY SPRINGSTEEL</td><td>(561) 804-0973</td></tr><tr><td>FPL DISTRIBUTION</td><td>ROB MORRIS</td><td>(772) 223-4215</td></tr><tr><td>FPL DISTRIBUTION</td><td>TRICIA D'ANNUNZIO</td><td>(561) 904-3560</td></tr><tr><td>INDIAN RIVER COUNTY UTILITIES</td><td>KEVIN OSTHUS</td><td>(772) 226-1824</td></tr><tr><td>INDIAN RIVER COUNTY TRAFFIC</td><td>JOHN ANKENY</td><td>(772) 226-1563</td></tr><tr><td>BELLSOUTH</td><td>MARK GUITEREZ</td><td>(772) 460-4443</td></tr></table> <p>10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE COMPANY PROVIDING ELECTRICAL POWER TO DETERMINE IF A SERVICE PROCESSING FEE IS REQUIRED. IF REQUIRED, FEE SHALL BE REFLECTED IN THE CONTRACTOR'S BID UNIT PRICE FOR ELECTRICAL POWER SERVICE ASSEMBLY.</p> <p>11. THE CONTRACTOR SHALL COORDINATE AND FIELD VERIFY LOCATION(S) OF THE ELECTRIC SERVICE POINT PRIOR TO INSTALLING CONDUIT, DISCONNECT SWITCH, AND PULL BOXES.</p> <p>12. (IF APPLICABLE) IT SHOULD BE NOTED THAT NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED BY JACKING OR TRENCHING. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE THE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS IN ACCORDANCE WITH SECTION 2-4 OF THE FDOT SPECIFICATIONS.</p> <p>13. THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN ACCORDANCE WITH THE APPLICABLE GUIDELINES SET FORTH IN FDOT DESIGN STANDARD INDEXES 600 THROUGH 660; THE MUTCD; AND SECTION 102 OF THE STANDARD SPECIFICATIONS.</p> <p>14. THE CONTRACTOR SHALL MAKE ALL VIDEO DETECTORS INSTALLED AS PART OF THE PROJECT FULLY OPERATIONAL IN ACCORDANCE WITH THEIR ASSOCIATED ISOLATED INTERSECTION SIGNAL TIMING CHART PRIOR TO THE ACTIVATION OF THE SIGNAL.</p> <p>15. THE CONTRACTOR SHALL VERIFY ALL SIGNAL POLE ELEVATIONS AND LOCATIONS INCLUDING POSSIBLE UTILITY CONFLICTS PRIOR TO PROCURMENT. THE CONTRACTOR SHALL VERIFY THAT ALL SIGNAL POLE ELEVATIONS WILL MEET MUTCD, FDOT AND INDIAN RIVER COUNTY REQUIREMENTS FOR LOW POINT OF CLEARANCE. ALL SIGNAL ASSEMBLIES SHALL HAVE A VERTICAL CLEARANCE OF 17.5 FEET MINIMUM AND 19 FEET MAXIMUM FROM THE BOTTOM OF THE ASSEMBLY TO THE ROAD.</p> <p>16. UNDER NO CIRCUMSTANCES SHALL ENERGIZED SIGNAL CABLE BE PLACED IN THE SAME CONDUIT OR PULL BOX AS VIDEO DETECTION CABLE OR COMMUNICATION.</p> <p>17. ALL FIELD WIRING SHALL BE NEATLY BUNDLED AND CLEARLY IDENTIFIED WITH PERMANENT LEGIBLE, WEATHERPROOF TAGS THAT ARE SECURELY ATTACHED TO EACH CABLE. THE TAGGING SYSTEM PROPOSED SHALL BE SUBMITTED FOR APPROVAL WITH THE OTHER EQUIPMENT SUBMITTALS REQUIRED FOR THIS PROJECT.</p> <p>18. THE CABINET DOOR SHALL OPEN AWAY FROM THE INTERSECTION UNLESS SPECIFIED OTHERWISE.</p> <p>19. TRAFFIC SIGNAL ACCEPTANCE TESTING PROCEDURES SHALL BE IN ACCORDANCE WITH SECTION 611 OF THE STANDARD SPECIFICATIONS.</p> <p>20. THERE WILL BE A 90 DAY WARRANTY PERIOD SUBJECT TO THE REQUIREMENTS CONTAINED IN ARTICLE (SECTIONS 611-5 THROUGH 611-7.3) "CONTRACTOR'S WARRANTY PERIOD FOR SIGNAL INSTALLATIONS" AS FOUND IN FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.</p> <p>21. THE CONTRACTOR SHALL PROVIDE FOUR COPIES OF MARKED-UP (AS-BUILT) CONSTRUCTION PLANS, ALSO A COPY OF SHOP DRAWING AND A COPY OF MAST ARM SPECIFICATION AND ANY/ALL APPROVED SHOP DRAWINGS AT THE TIME OF SIGNAL CONDITIONAL ACCEPTANCE INSPECTION BY THE MAINTAINING AGENCY.</p> <p>22. ALL SUBMITTALS AND SHOP DRAWINGS SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW IN ACCORDANCE WITH SECTION 603 OF THE STANDARD SPECIFICATIONS: LATEST EDITION</p> <p>BRIAN A. GOOD, P.E. 445 24TH STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100</p> <p>23. THE CONTRACTOR SHALL SUBMIT IN WRITING A REQUEST FOR SIGNAL INSPECTION TO THE MAINTAINING AGENCY. (ALLOW TWO (2) WEEKS FOR SIGNAL INSPECTION).</p> <p>24. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN FOUR (4) PORTABLE CHANGEABLE (VARIABLE) MESSAGE SIGNS (PCMS) FOR A PERIOD OF TWO WEEKS. THE PCMS WILL BE LOCATED AT AN APPROPRIATE DISTANCE IN ADVANCE OF THE APPROACHES TO THE NEW SIGNALIZED INTERSECTION AS SPECIFIED BY THE MAINTAINING AGENCY'S ENGINEER. THE PCMS WILL BE PROVIDED ONE (1) WEEK PRIOR TO THE SCHEDULED ACTIVATION TO FULL COLOR OPERATION AND SHALL REMAIN IN PLACE FOR ONE (1) WEEK FOLLOWING ACTIVATION. COST OF FURNISHING PCMS TO BE INCLUDED UNDER PAY ITEM NO. 102-1 MAINTENANCE OF TRAFFIC.</p>										COMPANY	CONTACT	TELEPHONE #	COMCAST CABLE	ANTHONY SPRINGSTEEL	(561) 804-0973	FPL DISTRIBUTION	ROB MORRIS	(772) 223-4215	FPL DISTRIBUTION	TRICIA D'ANNUNZIO	(561) 904-3560	INDIAN RIVER COUNTY UTILITIES	KEVIN OSTHUS	(772) 226-1824	INDIAN RIVER COUNTY TRAFFIC	JOHN ANKENY	(772) 226-1563	BELLSOUTH	MARK GUITEREZ	(772) 460-4443	THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.
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IR.CO. Proj. No.																															

REVISIONS					<div><div><div><div><div><div>Kimley»Horn</div><div>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106</div></div></div><div>INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS</div><div>66th AVENUE FROM 69th STREET TO SR-510/85th STREET</div></div></div></div>	GENERAL NOTES	SHEET NO.
							T-2

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25. IN ACCORDANCE WITH FDOT STANDARDS & SPECIFICATIONS, THE CONTRACTOR SHALL PROVIDE THE ASSOCIATED TRAFFIC SIGNAL MANUFACTURER WARRANTIES FOR THE ASSOCIATED MATERIALS AND/OR EQUIPMENT PRIOR TO THE FINAL ACCEPTANCE OF THE TRAFFIC SIGNAL.
26. PRIOR TO ACTIVATION THE PCMS SIGN SHALL BE:
- (PANEL ONE LINE 1) "TRAFFIC"
(PANEL ONE LINE 2) "SIGNAL"
(PANEL ONE LINE 3) "WILL BE"
(PANEL TWO LINE 1) "ACTIVE"
(PANEL TWO LINE 2) "ON DAY"
(PANEL TWO LINE 3) "MONTH XX"

SUBSTITUTION FOR THE WORD "DAY" SHALL BE AS FOLLOWS:

SUNDAY AS "SUN"
MONDAY AS "MON"
TUESDAY AS "TUES"
WEDNESDAY AS "WED"
THURSDAY AS "THUR"
FRIDAY AS "FRI"
SATURDAY AS "SAT"

SUBSTITUTION FOR THE WORD "MONTH" SHALL BE AS FOLLOWS:

JANUARY AS "JAN"
FEBRUARY AS "FEB"
MARCH AS "MAR"
APRIL AS "APR"
MAY AS "MAY"
JUNE AS "JUN"
JULY AS "JUL"
AUGUST AS "AUG"
SEPTEMBER AS "SEP"
OCTOBER AS "OCT"
NOVEMBER AS "NOV"
DECEMBER AS "DEC"

SUBSTITUTION FOR THE WORD "XX" SHALLBE AS FOLLOWS:

THE NUMERICAL DAY OF THE MONTH, FROM ONE (1) TO THIRTY-ONE (31). THE DATES LESS THAN TEN (10) SHALL BE PROCEDED BY A ZERO (0); EXAMPLE: "JAN 03" FOR JANUARY 3RD.

27. AFTER THE TURN-ON, THE PCMS SHALL BE CHANGED TO:
- (PANEL ONE LINE 1) "TRAFFIC"
(PANEL ONE LINE 2) "SIGNAL"
(PANEL TWO LINE 1) "NOW"
(PANEL TWO LINE 2) "ACTIVE"
- PANEL TWO, LINE AND LINE 2, SHALL FLASH THREE (3) TIMES BEFORE REVERTING BACK TO PANEL ONE.

PRIOR TO SIGNAL ACTIVATION

PANEL 1

T	R	A	F	F	I	C	
	S	I	G	N	A	L	
W	I	L	L		B	E	

PANEL 2 (FLASH)

	A	C	T	I	V	E	
	O	N		D	A	Y	
M	O	N	T	H		X	X

AFTER SIGNAL ACTIVATION

PANEL 1

T	R	A	F	F	I	C	
	S	I	G	N	A	L	

PANEL 2 (FLASH)

		N	O	W			
	A	C	T	I	V	E	

28. THE ENGINEER OR CONTRACTOR SHALL SUBMIT IN WRITING A REQUEST FOR SIGNAL ACTIVATION (TURN-ON) TO THE MAINTAINING AGENCY. THE MAINTAINING AGENCY WILL SCHEDULE THE SIGNAL ACTIVATION A MINIMUM OF SEVEN (7) DAYS AFTER NOTIFICATION THAT THE SIGNAL HAS BEEN PLACED FLASHING MODE AND INSPECTIONS BY MAINTAINING AGENCY FORCES HAVE BEEN COMPLETED.
29. THE CONTRACTOR SHALL BE PRESENT AND SHALL CONDUCT THE TURN-ON TO FULL COLOR OPERATION IN THE PRESENCE OF THE MAINTAINING AGENCY'S ENGINEER. NO ACTIVATIONS SHALL BE SCHEDULED ON MONDAYS, FRIDAYS OR WEEKENDS UNLESS OTHERWISE APPROVED BY THE MAINTAINING AGENCY'S ENGINEER. ANY PROPOSED OR NECESSARY SCHEDULE CHANGE DURING THE SEVEN (7) DAYS PRIOR TO SCHEDULED TURN-ON WILL BE AT THE DETERMINATION AND DISCRETION OF THE MAINTAINING AGENCY'S ENGINEER.
30. UPON COMPLETION AND FINAL ACCEPTANCE OF THE PERMANENT TRAFFIC SIGNAL INSTALLATION BY INDIAN RIVER COUNTY, THE SIGNALS AND EQUIPMENT SHALL BE MAINTAINED BY IRCTD.
31. WHEN IRCTD DETERMINES THAT THE NEED FOR A TRAFFIC SIGNAL IS CRITICAL TO THE PUBLIC WELFARE, EARLY TURN-ON OF THE SIGNAL MAY BE REQUIRED BEFORE THE COMPLETION OF THE CONTRACT. IF THIS NEED ARISES, IRCTD MAY ASSUME THE RESPONSIBILITY FOR MAINTENANCE AND LIABILITY, OR NEGOTIATE WITH THE CONTRACTOR FOR MAINTENANCE AND LIABILITY, FOR SUCH A SIGNAL. NEW SIGNALS SHALL NOT BE PLACED ON FULL COLOR OPERATION UNTIL THE DATE OF INSPECTION EXCEPT AS STATED ABOVE. NEW SIGNALS SHALL BE FLASHED NO LESS THAN A WEEK OR MORE THAN TWO WEEKS PRIOR TO THE INSPECTION. SIGNAL HEADS MUST BE BAGGED WITH BURLAP OR TURNED BACK UNTIL THIS TIME.

REVISIONS					<div>Kimley»Horn <small>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106</small></div>	<div>INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET</div>	<div>GENERAL NOTES</div>	SHEET NO.
		DESCRIPTION	DATE	BY				T-3

INDIAN RIVER COUNTY – TRAFFIC SIGNAL GENERAL NOTES
REV 7.0 2-11-22

A. POWER SERVICE

- 1. POWER SERVICES SHALL FOLLOW THE LATEST STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARD INDEX NO. 17504, 17736
- 2. SERVICE BREAKER BOX SHALL BE SQUARE-D MODEL #QO24L70RB, OR APPROVED EQUIVALENT.
- 3. POWER SERVICES ARE TO BE 120/240 VAC WITH TRIPLEX SERVICE DROP WIRE WITH TWO BLACK AND ONE WHITE CABLE FROM SERVICE DISCONNECT TO POWER SERVICE CONNECTION POINT.
- 4. ALL ABOVE GROUND CONDUIT SHALL BE HD GAVINIZED OR ALUMINUM.
- 5. MAST ARM POWER SERVICES SHALL BE MOUNTED ON A STUB POLE.
- 6. UNDERGROUND POWER SERVICE SHALL HAVE A LOAD PULL BOX AND A SEPARATE LINE PULL BOX AT THE SERVICE POINT.
- 7. CONCRETE STRAIN POLE INSTALLATIONS SHOULD HAVE THE POWER SERVICE MOUNTED ON THE STRAIN POLE.

B. TRAFFIC SIGNAL CONTROLLER

- 1. SHALL BE COMPATIBLE WITH ECONOLITE SYSTEM SOFTWARE.
- 2. SHALL HAVE INTERNAL TIME-BASED CAPABILITIES
- 3. SHALL HAVE INTERNAL RAILROAD PREEMPTION WITH IMMEDIATE RETURN TO COORDINATION.

C. TRAFFIC SIGNAL COMMUNICATIONS INTERCONNECT

NOTE: VARIANCE TO COMMUNICATION INTERCONNECT DUE TO DESIGN CRITERIA WOULD REQUIRE PRIOR APPROVAL FROM INDIAN RIVER COUNTY.

- 1. TWO 2” CONDUITS SHALL BE INSTALLED WITH ALL INTERCONNECT RUNS.
- 2. PULL BOXES CONTAINING INTERCONNECT ARE TO BE INSTALLED AT NO MORE THAN 1000 FOOT INTERVALS MARKED “TRAFFIC SIGNAL” (FDOT DESIGN STANDARD INDEX 17700).
- 3. FIBER OPTIC INTERCONNECT RUNS SHALL HAVE A SLACK/SPLICE BOX AT ALL SIGNALIZED INTERSECTIONS MARKED “FIBER OPTICS”. SLACK/SPLICE BOXES SHALL CONTAIN A MINIMUM OF 100 FEET OF FIBER OPTIC CABLE SLACK (FDOT DESIGN STANDARD 635-001) AND SHALL BE LOCATED AT NO MORE THAN 1/2-MILE INTERVALS.
- 4. FIBER OPTIC CABLE SHALL BE 96-FIBER SINGLE MODE. A #14 AWG (OR IRC-APPROVED ALTERNATIVE) TRACE WIRE SHALL BE INSTALLED WITH THE FIBER RUN.
- 5. THE CONNECTION FROM THE SLACK/SPLICE BOX TO THE SIGNAL CABINET (PIG TAIL) SHALL BE A 12-FIBER SINGLE MODE CABLE. FIBER IN THE CABINET SHALL BE TERMINATED IN A FIBER OPTIC TERMINAL PANEL. THE FIBER CABLE SHALL NOT BE RUN BEHIND SHELVING.
- 6. IN THE CABINET, DATA CONVERSION WILL BE ACCOMPLISHED WITH EXTREME NETWORKS MODEL 1SW 4-10/100P, 2-10/100T, 2-SFP GIGABIT ETHERNET SWITCH OR IRC-APPROVED EQUIVALENT.
- 7. RADIO LINK SHOULD BE ECONOLITE INTUICOM RADIO ACCESS POINT OR REMOTE STATION. INCLUDES MOUNTING HARDWARE, PoE INJECTOR OR APPROVED EQUIVALENT.

D. TRAFFIC SIGNAL MAST ARM

- 1. MAST ARMS SHALL FOLLOW THE LATEST STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS INDEX NO. 17743, 17745.
- 2. ALL MAST ARM POLES SHALL HAVE REMOVALBE L.E.D. TUBE WITH RA-D ENDS HEAD LUMINAIRES, BARRING OBSTRUCTIONS OR DESIGN CRITERIA. EACH LUMINAIRE SHALL BE PHOTO CELL CONTROLLER AND NOT POWERED THROUGH SIGNAL CABINET. WIRING SHALL BE #10 AWG OR LARGER SIZE AWG. LUMINAIRE CASING SHALL HAVE AN I.R.C. SUPPLIED STICKER ADHEARED TO THE CASING.
- 3. MAST ARM POLES ARE TO HAVE A TERMINAL COMPARTMENT IN PLACE OF A HAND HOLE, PER STANDARD 649-031.
- 4. MAST ARM MOUNTING HEIGHT (MEASUREMENT UB INDEX NO. 17743) SHALL BE 19-FEET FOR HORIZONTAL AND 20-FEET FOR VERTICAL MOUNTED SIGNALS, IN THE ABSENCES OF GEOMETRIC ABNORMALTIES.
- 5. ALL MAST ARMS SHALL BE GALVANIZED STEEL WITH FACTORY FINISHED U.S. GOVERNMENT AMS-STD 595 #14066 (HIGHWAY GREEN) IN ACCORDANCE WITH FDOT.
- 6. EACH TERMINAL COMPARTMENT SHALL HAVE A 20 CIRCUIT AWG#14 TERMINAL BLOCK.
- 7. MAST ARMS ARE TO HAVE L.E.D. INTERNALLY-ILLUMINATED SINGLE-SIDED STREET NAME SIGNS WITH LOCAL STREET NAMES AND 1” WHITE BORDER. THE SIGNS SHALL BE CONTROLLED FROM A PHOTO CELL WITH IN THE SIGNAL CABINET THE SIGNS ARE NOT TO HAVE INDIVUALL PHOTO CELL. THE STREET NAME SIGNS ARE TO BE MOUNTED WITH FIXED BRACKETS ON THE ARM BETWEEN THE POLE AND THE FIRST TRAFFIC SIGNAL.

E. TRAFFIC SIGNAL POLES & SPAN WIRE

- 1. POLES SHALL FOLLOW THE LATEST STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARD INDEX NO. 17725.
- 2. STRAIN POLES SHALL HAVE L.E.D., COBRA HEAD STYLE LUMINAIRES, BARRING OBSTRUCTIONS OR DESIGN CRITERIA. EACH LUMINAIRE SHALL BE PHOTO CELL CONTROLLER AND NOT POWERED THROUGH SIGNAL CABINET.
- 3. ALL ABOVE GROUND CONDUIT SHALL BE HD GAVINIZED.
- 4. BOTH UPPER AND LOWER SPAN SHALL BE NO LESS THAN 3/8 INCH CABLE WIRE.
- 5. THE SIGNAL CABLE SHALL BE ATTACHED TO THE MESSENGER WIRE BY LASHING RODS.

F. TRAFFIC SIGNAL HEADS

- 1. TRAFFIC SIGNALS MOUNTED ON SPAN CABLE ARE TO BE LIGHTWEIGHT McCain SIGNAL, (RED SECTION TO BE ALUMINUM AND ALL OTHER SECTIONS TO BE POLY PLASTIC), 12 INCH INDICATIONS.
- 2. TRAFFIC SIGNALS MOUNTED ON MAST SUPPORTS ARE TO BE ALL AUMIMUM McCain SIGNAL 12-INCH INDICATIONS. THE MOUNTING SHALL BE HORIZONTAL USING PELCO ASTRO BRAC OR IRC-APPROVED EQUIVALENT. SPAN MOUNT SIGNALS ARE TO BE MOUNTED VERTICAL. ALL VEHICLE SIGNAL HEADS ARE TO HAVE RETRO-RELFECTIVE BACK PLATES.
- 3. TRAFFIC SIGNALS ARE TO BE SUPPLIED WITH ALL L.E.D. INDICATIONS, INCLUDING ALL ARROWS AND YELLOWS.
- 4. TRAFFIC SIGNALS ARE TO BE SUPPLIED WITH TUNNEL VISORS.
- 5. TRAFFIC SIGNALS AND ASSOCIATED ACCESSORIES, INCLUDING BUT NOT LIMITED TO BACKPLATES SHALL BE MCCAIN.
- 6. PEDESTRIAN SIGNALS ARE TO BE COUNT DOWN PEDESTRIAL SIGNALS WITH INTERNATIONAL-STYLE HAND/MAN (SYMBOLS) WITH FULL (NOT OUTLINE) L.E.D. INDICATIONS. EACH CORNER WILL BE FED WITH ONE SEVEN CONDUCTOR CABLE FOR PEDESTRIAN SIGNAL HEAD AND ONE FOUR CONDUCTOR CABLE FOR PEDESTRIAN DETECTOR.THESE CABLES WILL RUN FROM PEDESTRIAN SIGNAL AND DETECTOR DIRECTLY TO CONTROLLER BOX. (NO SPLICES). PEDESTRIAN DETECTOR SIGNS ARE TO BE R10-3I.

G. VIDEO DETECTORS

- 1. VIDEO DETECTION SYSTEM SHALL BE TRAFISENSE2 632 FLIR OR IRC-APPROVED EQUIVALENT.

H. VIDEO SURVEILLANCE

- 1. VIDEO CAMERAS SHALL BE AXIS Q6075-E PTZ DOME NETWORK CAMERA WITH SURGE PROTECTOR, LATEST TECHNOLOGY OR IRC-APPROVED EQUIVALENT.

I. BATTERY BACK-UP

- 1. BATTERY BACKUP SYSTEM IS TO BE USED ON ALL INSTALLATIONS UNLESS OTHERWISE STATED.
- 2. BATTERY BACKUP SHALL BE MYERS UPS SYSTEM MP2000E-TB WITH STANDING CABINET, EXTERNAL GENERATOR PLUG, ETHERNET CARD.

E:\Traffic Division\Traffic Signal Coordination\Design Info\Specifications\Source Code\IRC TRAFFIC ENGINEERING TYPICAL GENERAL NOTES FOR SIGNALIZATION IMPROVEMENTS 02-11-2022.docx

R E V I S I O N S					<div>Kimley»Horn</div> <div>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106</div>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	INDIAN RIVER COUNTY TRAFFIC SIGNAL SPECIFICATIONS	SHEET NO.
DESCRIPTION	DATE	BY	DESCRIPTION					T-4

INDIAN RIVER COUNTY TYPICAL WIRING

Signal Wiring 20 Conductor				
Number	Color	Location	Phase	Comments
1	Green	Main Street	02, 06	
2	Orange	Main Street	02, 06	
3	Red	Main Street	02,06	
4	Green/Black	Side Street	04, 08	
5	Orange/Black	Side Street	04, 08	
6	Red/Black	Side Street	04,08	
7	Blue	Left Turn	01, 03, 05, 07	Green
8	White/Black	Left Turn	01, 03, 05, 07	Amber
9	Black/White	Left Turn	01, 03, 05, 07	Red
10	Blue/Black	Right Turn	02, 04, 06, 07	Amber
11	Black	Right Turn	02, 04, 06, 07	Green
12	White	Neutral		
13	Green/White	Spare		
14	Orange/Red	Spare		
15	Red/White	Spare		
16	Blue/White	Spare		
17	White/Red	Spare		
18	Black/Red	Spare		
19	Blue/Red	Spare		
20	Red/Green	Spare		

Pedestrian Head Wiring 7 Conductor				
Number	Color	Location	Phase	Comments
1	Green	Main Street	02, 06	Green
2	Orange	Side Street	04, 08	Green
3	Red	Main Street	02, 06	Red
4	Blue	Side Street	04, 08	Red
5	White/Black	Spare		
6	Black	Spare		
7	White	Neutral		

Pedestrian Button Wiring 4 Conductor				
Number	Color	Location	Phase	Comments
1	Green	Main Street	02, 06	Return
2	Red	Main Street	02, 06	
3	White	Side Street	04, 08	Return
4	Black	Side Street	04, 08	

Tape Color	
Direction	Color
North	Green
South	Red
East	Yellow
West	Blue

TABULATION OF QUANTITIES																					
PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			T-7														PLAN	FINAL	PLAN	FINAL	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL					
630-2-11	CONDUIT (SIGNAL) (F & I) (OPEN TRENCH)	LF	235													235		235			
630-2-12	CONDUIT (SIGNAL) (F & I) (DIRECTIONAL BORE)	LF	390													390		390			
632-7-1	SIGNAL CABLE (F & I)	PI	1													1		1			
635-2-14	PULL & SPLICE BOX (F & I) (17"X30")	EA	13													13		13			
639-1-122	ELECTRICAL POWER SERVICE (UNDERGROUND) (METER PURCHASED BY CONTRACTOR)	AS	1													1		1			
639-2-1	ELECTRICAL SERVICE WIRE (F & I)	LF	20													20		20			
639-3-11	ELECTRICAL SERVICE DISCONNECT (F & I) (POLE)	EA	1													1		1			
641-2-12	PRESTRESSED CONCRETE POLE STANDARD PLANS 641-010 (F & I) (TYPE P-II SERVICE POLE)	EA	1													1		1			
646-1-11	ALUMINUM SIGNALS POLE PEDESTAL AND PEDESTRIAN DETECTOR POST (F & I) (PEDESTAL)	EA	6													6		6			
649-31-107	MAST ARM (F & I) (WIND SPEED - 150) (SINGLE ARM W/ LUMINAIRE) (46')	EA	1													1		1			
649-31-108	MAST ARM (F & I) (WIND SPEED - 150) (SINGLE ARM W/ LUMINAIRE) (60')	EA	1													1		1			
649-31-109	MAST ARM (F & I) (WIND SPEED - 150) (SINGLE ARM W/ LUMINAIRE) (70.5')	EA	2													2		2			
650-1-14	VEHICULAR TRAFFIC SIGNAL (F & I) (ALUMINUM) (3-SECTION) (1-WAY)	AS	5													5		5			
650-1-16	VEHICULAR TRAFFIC SIGNAL (F & I) (ALUMINUM) (4-SECTION) (1-WAY)	AS	2													2		2			
650-1-18	VEHICULAR TRAFFIC SIGNAL (F & I) (ALUMINUM) (5-SECTION) (1-WAY) (STRAIGHT)	AS	3													3		3			
653-1-11	PEDESTRIAN SIGNAL - RECTANGLE WALK/DON'T WALK OR EQUIVALENT SYMBOLS (F & I) (LED-COUNTDOWN) (1-WAY)	AS	8													8		8			
665-1-11	PEDESTRIAN DETECTOR (F & I) (STANDARD)	EA	8													8		8			
660-4-11	VEHICLE DETECTION SYSTEM - VIDEO (F & I) (CABINET EQUIPMENT)	EA	1													1		1			
660-4-12	VEHICLE DETECTION SYSTEM - VIDEO (F & I) (ABOVE GROUND EQUIPMENT)	EA	4													4		4			
670-5-111	TRAFFIC CONTROLLER ASSEMBLY (CONTROLLER WITH CABINET) (F & I) (NEMA) (ONE PREEMPTION PLAN)	AS	1													1		1			
682-1-133	CCTV CAMERA (F & I) (DOME ENCLOSURE, NON-PRESSURIZED) (IP, HD)	EA	1													1		1			
684-1-1	MANAGED FIELD ETHERNET SWITCH, LAYER 2 (F & I)	EA	1													1		1			
685-1-14	UNINTERRUPTIBLE POWER SUPPLY (F & I) (LINE INTERACTIVE)	EA	1													1		1			
700-5-22	INTERNALLY ILLUMINATED SIGN (F & I, OVERHEAD MOUNT) (<12 SF)	EA	4													4		4			
715-1-11	LIGHTING - CONDUCTORS (F & I) (INS																				

PAY ITEM FOOTNOTES

PAY ITEM NO. 101-1 - MOBILIZATION/DEMobilIZATION

INCLUDES ALL NECESSARY EQUIPMENT INCLUDING A TWO PERSON BUCKET TRUCK FOR USE BY THE ENGINEER OR COUNTY REPRESENTATIVE DURING INSPECTION OF TRAFFIC SIGNAL.

PAY ITEM NO.102-1 - MAINTENANCE OF TRAFFIC

INCLUDES ALL COSTS ASSOCIATED WITH FURNISHING, INSTALLING MAINTAINING AND REMOVAL OF ALL ITEMS OF MAINTENANCE OF TRAFFIC NOT PAID FOR UNDER SEPARATE ITEMS.

PAY ITEM NO. 630-2-11 - CONDUIT (SIGNAL) (F&I) (OPEN TRENCH)

SHALL BE INSTALLED PER SECTION 630, OF FDOT'S STANDARD SPECIFICATIONS. ALL CONDUITS SHALL ENTER PULL BOXES AS REQUIRED IN FDOT STANDARD DESIGN INDEX 17700. ALL CONDUIT SHALL BE 2 INCH, SCHEDULE 40 PVC UNLESS SPECIFIED OTHERWISE IN THE PLANS OR SPECIFICATIONS. ALL SPARE CONDUITS SHALL ENTER THE SIGNAL CABLE PULL BOX UNLESS OTHERWISE STATED IN THE PLAN.

PAY ITEM NO. 630-2-12 - CONDUIT (SIGNAL) (F&I) (DIRECTIONAL BORE)

SHALL CONSIST OF MULTIPLE 2 INCH SCHEDULE 40 PVC SLEEVES PER BORE. SEE SPECIFIC PLAN SHEETS FOR NUMBER REQUIRED FOR THE BORE. ALL DIRECTIONAL BORING SHALL BE DONE IN CONFORMANCE WITH FDOT UTILITY ACCOMMODATIONS MANUAL REQUIREMENTS.

PAY ITEM NO. 632-7-1 - CABLE (SIGNAL) (F&I)

SHALL BE INSTALLED PER FDOT STANDARD INDEX 17727 AS APPLICABLE. THREE SPARE CONDUCTORS PER SIGNAL CABLE ARE REQUIRED. SPARES SHALL BE GROUNDED TO THE BUS GROUNDING FACILITY IN THE CONTROLLER CABINET. MAST ARM CABLING SHALL CONSIST OF A TWENTY CONDUCTOR IMSA-19 SIGNAL CABLE FROM CONTROL CABINET TO EACH MAST ARM. EACH CONDUCTOR SHALL BE TERMINATED UPON THE 20 TERMINAL-TERMINAL BLOCK LOCATED IN THE TERMINAL COMPARTMENT OF THE MAST. A SEPARATE IMSA-19 SEVEN CONDUCTOR SHALL BE RUN FROM THE TERMINAL BLOCK TO EACH SIGNAL HEAD. PEDESTRIAN SIGNALS SHALL HAVE A SEVEN CONDUCTOR TO EACH CORNER ALONG WITH A FOUR CONDUCTOR FOR THE PEDESTRIAN DETECTORS. SPAN WIRE INSTALLATIONS SHOULD CONSIST OF A SEPARATE IMSA-19 TWELVE CONDUCTOR CABLE TO EACH APPROACH. PEDESTRIAN SIGNALS SHALL HAVE AN IMSA-19 SEVEN CONDUCTOR TO EACH CORNER ALONG WITH A FOUR CONDUCTOR FOR THE PEDESTRIAN DETECTORS THESE CABLES SHOULD RUN FROM PEDESTRIAN SIGNAL TO CONTROL CABINET DIRECTLY.

PAY ITEM NO. 635-2-11 - PULL BOX (F&I) (TRAFFIC SIGNAL)

SHALL BE INSTALLED IN ACCORDANCE WITH FDOT DESIGN STANDARD INDEX 17700, AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SIZE THE PULL BOXES SUCH THAT THEY WILL ALLOW PLACEMENT OF ALL CABLES INSIDE THE PULL BOXES WHILE MAINTAINING THE REQUIRED MINIMUM BENDING RADII ON THE CABLES AND NOT EXCEEDING THE MAXIMUM BENDING RADII OF THE CABLES (MIN. 17"x30"x12"). PULL BOX COVERS SHALL BE FDOT APPROVED OF NON-METALLIC CONSTRUCTION WITH RECESSED COVER LOGO "TRAFFIC SIGNAL"OR "FIBER OPTIC"AS APPROPRIATE. PULL BOXES SHALL BE QUAZITE AND PLACED BEHIND CURB AND GUTTER. IF THERE IS NO CURB AND GUTTER, THE PULL BOXES SHALL BE PLACED A MINIMUM OF 7 FEET FROM THE EDGE OF PAVEMENT WITH PULL BOXES AND LIDS BEING TRAFFIC BEARING. PULL BOXES SHALL NOT BE PLACED IN PEDESTRIAN RAMPS. PULL BOXES SHALL HAVE CONCRETE MOWER PADS IN ACCORDANCE WITH STANDARD DESIGN INDEX 17700.

PAY ITEM NO. 639-1-122 - ELECTRICAL POWER SERVICE (F&I) (UNDERGROUND) (METER PURCHASED BY CONTRACTOR)

SHALL INCLUDE THE COST OF ALL LABOR, MATERIALS, AND PERMITS REQUIRED TO FURNISH AND INSTALL THE ASSEMBLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH ALL AGENCIES REQUIRED FOR APPROVAL OF THE COMPLETED INSTALLATION. FDOT DESIGN STANDARD INDEX 17504, 17736 (AS APPLICABLE) SHALL APPLY.

PAY ITEM NO. 639-2-1 - ELECTRICAL SERVICE WIRE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING THE CONDUCTORS FOR THE POWER SERVICE.

PAY ITEM NO. 660-4-11 AND 660-4-12 - VEHICLE DETECTION VIDEO (F&I) CABINET AND ABOVE GROUND EQUIPMENT

SHALL CONSIST OF 4 VEHICLE DETECTOR ASSEMBLIES (VIDEO TYPE), TRAFISENSE DETECTION, LATEST TECHNOLOGY. A COMPLETE VIDEO DETECTION INSTALLATION CONSISTENT WITH INDIAN RIVER COUNTY STANDARDS FOR ALL APPROACHES OF THE INTERSECTION IS REQUIRED. THE EQUIPMENT SHALL BE VIDEO DETECTION UNITS CAPABLE OF INTERFACE WITH THE TRAFFIC SIGNAL CONTROLLER UNIT AND SHALL INCLUDE THE COST OF MOUNTING ARMS TO EXTEND CAMERA TO A POSITION OVER THE ROADWAY UNLESS OTHER WISE STATED ON THE PLAN. THE CONTRACTOR IS REQUIRED TO COORDINATE WITH THE SUPPLIER AND INDIAN RIVER COUNTY TRAFFIC ENGINEERING DIVISION TO ENSURE RELIABLE OPERATION. CAMERA LOCATIONS MAY REQUIRE ADJUSTMENT IN THE FIELD. CONTACT INDIAN RIVER COUNTY TRAFFIC ENGINEERING DIVISION BEFORE ORDERING.

PAY ITEM NO. 670-5-111 - TRAFFIC CONTROLLER ASSEMBLY (F&I) (NEMA) (TYPE 5) (ONE PREEMPTION PLAN)

SHALL BE ECONOLITE TYPE 6 CABINET WITH INTERNAL PHOTO CELL STREET SIGN CONTROL. THE CONTRACTOR SHOULD COORDINATE WITH THE INDIAN RIVER COUNTY TRAFFIC ENGINEERING DIVISION PRIOR TO ORDERING ANY CONTROLLER RELATED EQUIPMENT.

PAY ITEM NO. 715-5-31

SHALL CONSIST OF AEL HOLOPHANE ATB0 P304 MVOLT R4 4K GN 20 TB PCLL OR APPROVED EQUIVALENT.

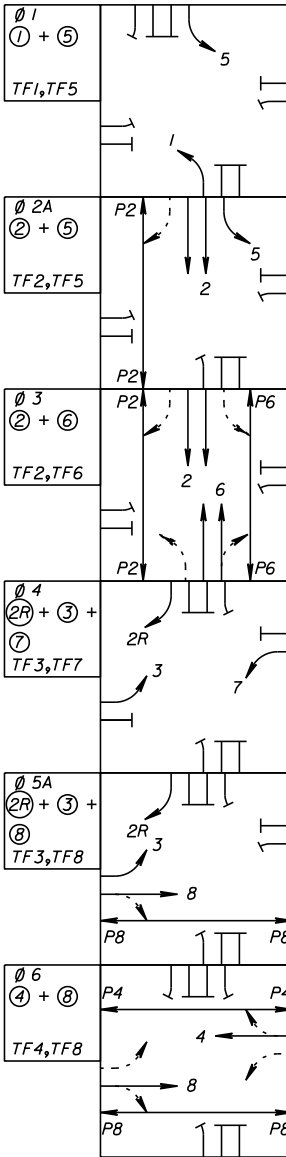
ALL TRAFFIC SIGNAL EQUIPMENT MUST BE CONSISTENT WITH INDIAN RIVER COUNTY TRAFFIC ENGINEERING DIVISION STANDARDS. CONTRACTOR SHALL COORDINATE WITH THE INDIAN RIVER COUNTY TRAFFIC ENGINEERING DIVISION TO CONFIRM THAT EQUIPMENT STANDARDS HAVE NOT CHANGED SINCE THE TIME OF PUBLICATION OF THESE PLANS.

REVISIONS					Kimley»Horn BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24TH STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	SIGNALIZATION PAY ITEM FOOTNOTES	SHEET NO.
	DESCRIPTION	DATE	BY	DESCRIPTION				T-6

DETECTION CAMERA ASSIGNMENTS				
CAMERA NO.	ZONE NO.	DETECTOR OPERATION	TIMING FUNCTION	DELAY TIME (SEC)
V1	1	NORMAL	1	-
	6	NORMAL	6	-
V2	3	NORMAL	3	-
	8	NORMAL	8	-
V3	5	NORMAL	5	-
	2	NORMAL	2	-
V4	2R	DELAY/NORMAL	2	10
	7	NORMAL	7	-
V4	4	NORMAL	4	-

DETECTION CAMERA ASSIGNMENTS AND DETECTION ZONE AREAS ARE PRELIMINARY AND MAY REQUIRE FIELD ADJUSTMENT BY THE CONTRACTOR DURING INSTALLATION. DELAY TIME IS INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER.

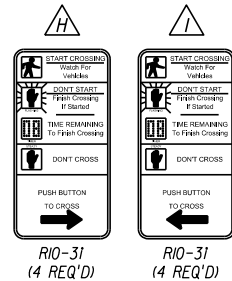
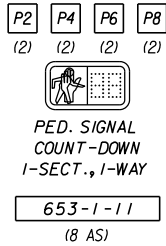
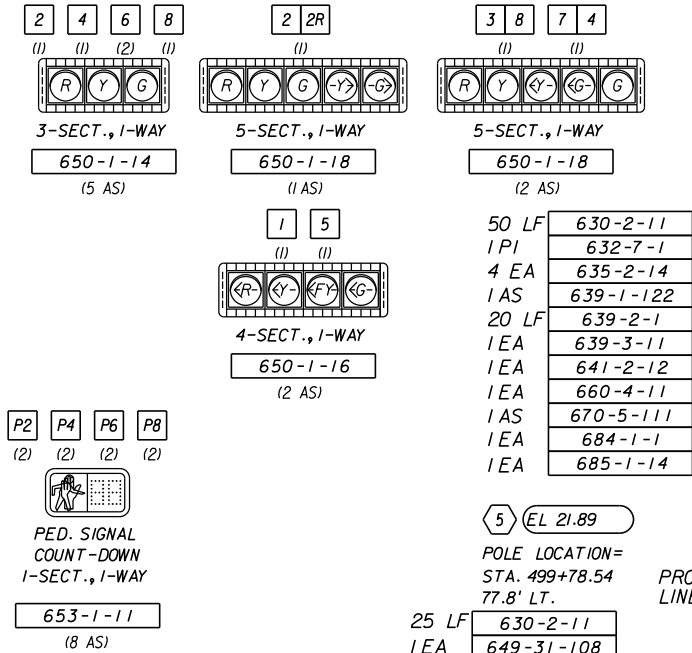
ASSOCIATED PHASE MOVEMENTS



OR

OR

SIGNAL DISPLAY DETAILS



PEDESTRIAN PUSH BUTTON SIGNS R10-31 INCLUDED IN THE COST OF PAY ITEM 665-1-11.

CONTROLLER OPERATIONS

1. MAJOR STREET: 66th AVE. (MOVEMENTS 2 AND 6)
MINOR STREET: 81st ST. (MOVEMENTS 4 AND 8)
2. SPEED LIMITS: 66th AVE. 45 MPH
81st ST. 30 MPH
3. FLASHING OPERATION: MOVEMENTS 2 & 6 - YELLOW
MOVEMENTS 1, 4, 5 & 8 - RED
4. ALL SIGNAL TIMING SHALL BE PROVIDED BY INDIAN RIVER COUNTY TRAFFIC ENGINEERING, PHONE (772) 226-1547.
5. CABINET DOOR SHALL OPEN AWAY FROM THE INTERSECTION.
6. ALL CONDUIT RUNS SHALL CONSIST OF 5 RUNS UNLESS OTHERWISE NOTED. ((2) SIGNAL, VIDEO, LIGHTING AND SPARE)

25 LF	630-2-11	15 LF (1 RUN)	630-2-11
1 EA	649-31-108	1 EA	646-1-11
2 AS	653-1-11	1 AS	653-1-11
1 EA	660-4-12	1 EA	665-1-11
2 EA	665-1-11		
150 LF	715-5-31		
	715-1-11		

25 LF	630-2-11	15 LF (1 RUN)	630-2-11
1 EA	646-1-11	1 EA	646-1-11
1 AS	653-1-11	1 AS	653-1-11
1 EA	665-1-11	1 EA	665-1-11

15 LF	630-2-11	15 LF (1 RUN)	630-2-11
3 EA	635-2-11	1 EA	649-31-109
1 EA	646-1-11	1 EA	660-4-12
1 EA	682-1-133	1 EA	715-5-31
150 LF	715-1-11		

15 LF	630-2-14	3 EA	635-2-11
1 EA	649-31-109	1 EA	660-4-12
1 EA	682-1-133	1 EA	715-5-31
150 LF	715-1-11		

15 LF	630-2-14	3 EA	635-2-11
1 EA	649-31-109	1 EA	660-4-12
1 EA	682-1-133	1 EA	715-5-31
150 LF	715-1-11		

25 LF	630-2-11	1 EA	649-31-108	2 AS	653-1-11	1 EA	660-4-12	2 EA	665-1-11	150 LF	715-5-31	715-1-11

(3 CONDUCTORS)

25 LF	630-2-11	1 EA	649-31-108	2 AS	653-1-11	1 EA	660-4-12	2 EA	665-1-11	150 LF	715-5-31	715-1-11

25 LF	630-2-11	15 LF (1 RUN)	630-2-11
1 EA	646-1-11	1 EA	646-1-11
1 AS	653-1-11	1 AS	653-1-11
1 EA	665-1-11	1 EA	665-1-11

25 LF	630-2-11	15 LF (1 RUN)	630-2-11
1 EA	646-1-11	1 EA	646-1-11
1 AS	653-1-11	1 AS	653-1-11
1 EA	665-1-11	1 EA	665-1-11

15 LF	630-2-11	15 LF (1 RUN)	630-2-11
3 EA	635-2-11	1 EA	649-31-109
1 EA	646-1-11	1 EA	660-4-12
1 EA	682-1-133	1 EA	715-5-31
150 LF	715-1-11		

15 LF	630-2-14	3 EA	635-2-11
1 EA	649-31-109	1 EA	660-4-12
1 EA	682-1-133	1 EA	715-5-31
150 LF	715-1-11		

(3 CONDUCTORS)

PROP. R/W LINE

PROP. R/W LINE

PROP. R/W LINE

PROP. R/W LINE

PROP. R/W LINE

PROP. R/W LINE

FPL EASEMENT

FIBER INTERCONNECT P.O.C.

FPL P.O.C. TIE TO FPL PULL BOX

PROP. R/W LINE

PROP. R/W LINE

PROP. R/W LINE

PROP. R/W LINE

PROP. R/W LINE

PROP. R/W LINE

PROP. R/W LINE

PROP. R/W LINE

PROP. R/W LINE

PROP. R/W LINE

PROP. R/W LINE

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

66th AVENUE AND 81st STREET
SIGNALIZATION PLAN

SHEET NO.

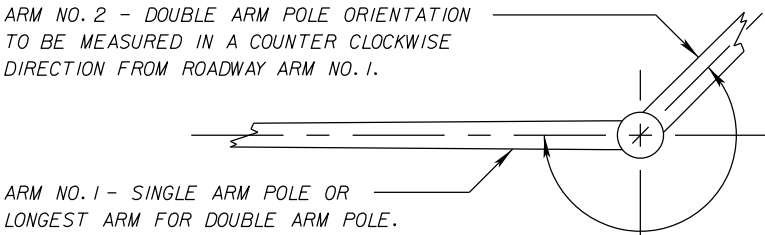
T-7

Kimley»Horn

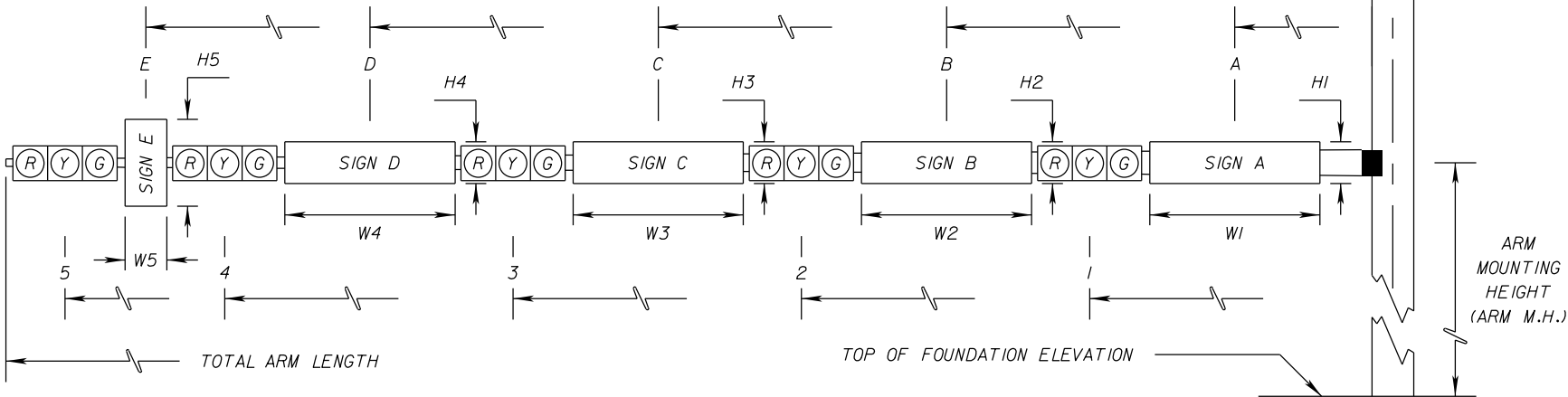
BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 35106

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1505B I.R.CO. Proj. No. THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



NOTE: REFER TO THIS PLAN, STANDARD MAST ARM ASSEMBLIES DESIGN TABLE, AND FDOT
INDEX NO.'S 17743 AND 17745 FOR LUMINAIRE AND LUMINAIRE CONNECTION DETAILS.



NOTE: ALL STATION/OFFSETS ARE REFERENCED TO THE BASELINE OF CONSTRUCTION OF 66TH AVENUE.

* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY

VD DENOTES VIDEO DETECTION CAMERA

						SIGNAL DATA																SIGN DATA																	FED. PAINT AMS-STD No.
ID NO.	SHEET NO.	LOCATION BY STA.	TOP OF FOUNDATION ELEVATION	RDWY ARM NO.	CROWN ELEV.	SIGNAL V/H	BACK PLATES Y/N	PED. SIGNAL Y/N	DISTANCE FROM POLE								TOTAL ARM LENGTH	ARM M.H.	∠ BETWEEN DUAL ARMS 90/270	DISTANCE FROM POLE / HEIGHT AND WIDTH OF SIGN																			
									1	*	2	*	3	*	4	*				5	*	A	HI	WI	B	H2	W2	C	H3	W3	D	H4	W4	E	H5	W5			
5	T-7	499+78.54, 77.8'LT	21.89	1	21.88	H	Y	Y	38.50	3	50.50	5						60			31.50	2.0	8.0	44.50	VD	VD										595-14066			
				2																																			
6	T-7	499+84.63, 73.5'RT	22.44	1	22.11	H	Y	Y	32.50	3	44.50	3	68.50	4				70.5			25.50	2.0	6.5				50.50	VD	VD							595-14066			
				2																																			
7	T-7	498+76.86, 82.7'RT	22.42	1	21.90	H	Y	N	20.50	3	32.50	5						46			13.50	2.0	8.0	26.50	VD	VD										595-14066			
				2																																			
8	T-7	498+53.48, 72.5'LT	22.67	1	21.99	H	Y	Y	21.50	5	37.50	3	67.50	4				70.5			14.00	2.0	6.5				49.50	VD	VD							595-14066			
				2																																			
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REVISIONS

	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

BRIAN A. GOOD, P.E.

P.E. LICENSE NUMBER 56939

445 24th STREET, SUITE 200

VERO BEACH, FL 32960

(772) 794-4100

REGISTRY No. 35106

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS

66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

MAST ARM TABULATION

SHEET NO.

T-8

11/10/2023

11:13:59 AM

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INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS

ROADWAY CONTRACT PLANS
66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

INDEX OF SIGNING & MARKING PLANS

SHEET NO.	SHEET DESCRIPTION
S-1	KEY SHEET
S-2	GENERAL NOTES
S-3 - S-4	SIGNING AND MARKING TABULATION OF QUANTITIES
S-5 - S-13	66th AVENUE SIGNING AND MARKING
S-14	73rd STREET / 77th STREET SIGNING AND MARKING
S-15 - S-16	81st STREET SIGNING AND MARKING
S-17	GUIDE SIGN WORK SHEET

INDIAN RIVER COUNTY PROJECT No. IRC-1505B
FDOT FPID No. 436379-2-54-01

PLANS PREPARED BY:

Kimley»Horn

445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
PROJECT NUMBER: 04703504I
REGISTRY No. 35106

SIGNING AND MARKING PLANS
ENGINEER OF RECORD: BRIAN GOOD

P.E. NO. 56939

SIGNING AND MARKING CONTRACT PLANS

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

BID PLANS
JANUARY 2023

PREPARED FOR



Department of Public Works

RICHARD B. SZPYRKA, P.E., DIRECTOR

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
"DESIGN STANDARDS" DATED JANUARY 2016,
AND "STANDARDS SPECIFICATIONS FOR ROAD
AND BRIDGE CONSTRUCTION" DATED 2016, AS
AMENDED BY CONTRACT DOCUMENTS.

SHEET NO.
S-1

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

IRC.O. Proj. No.

1505B

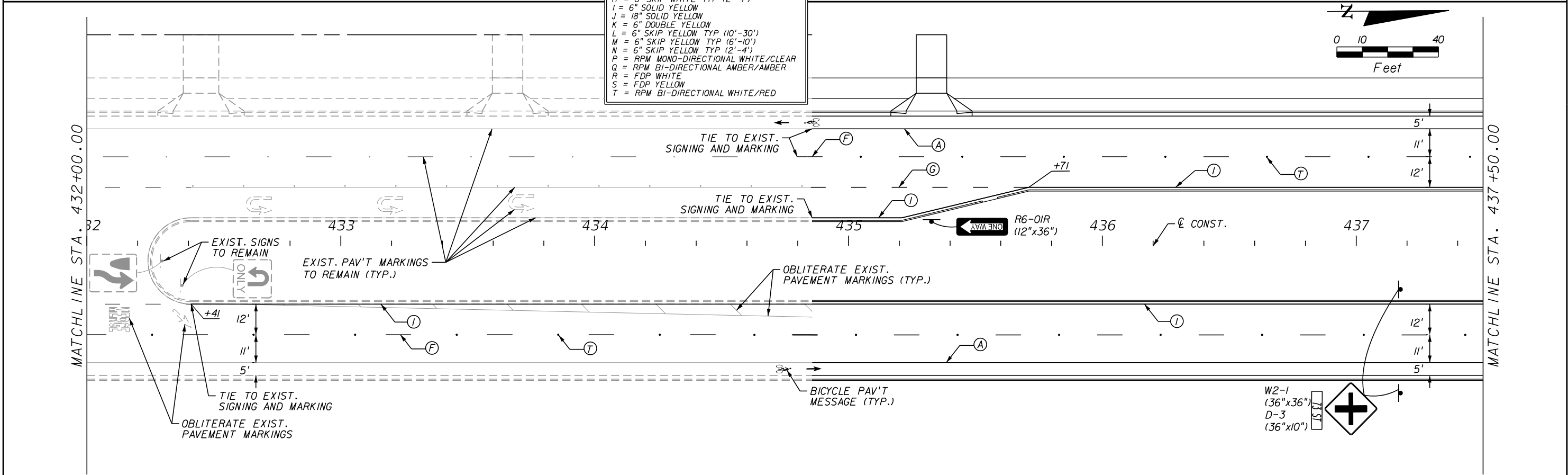
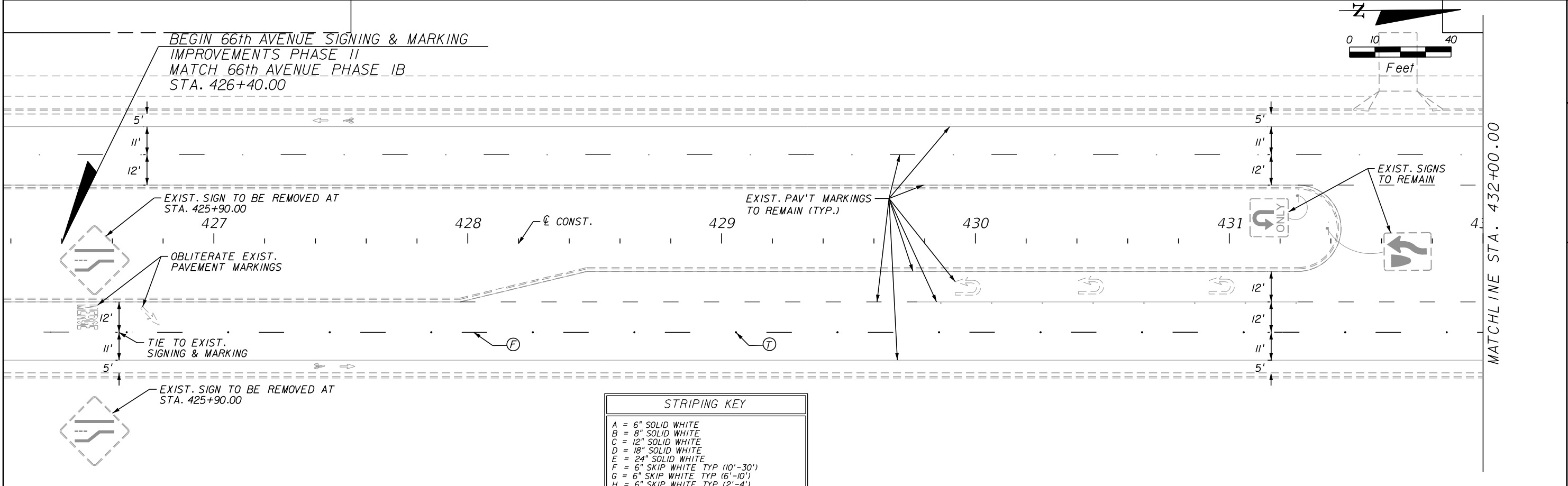
SIGNING & MARKING GENERAL NOTES

1. SIGNS AND PAVEMENT MARKINGS ARE TO CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION AND THE INDIAN RIVER COUNTY TYPICAL DRAWINGS FOR ROADWAY SIGNING, STRIPING & GEOMETRICS.
2. ALL PAVEMENT MARKINGS ARE TO CONSIST OF 90 mil EXTRUDED ALKYD THERMOPLASTIC.
3. RAISED REFLECTIVE PAVEMENT MARKERS (RPMs) ARE TO CONSIST OF 4-INCH SQUARE MONO-DIRECTIONAL WHITE AND BI-DIRECTIONAL YELLOW. LANE LINE RPMs ON THE 4 (OR MORE) LANE PORTION OF ANY DIVIDED ROADWAY SHALL BE BI-DIRECTIONAL WHITE/RED.
4. RPMs SHALL BE POSITIONED IN ACCORDANCE WITH FDOT INDEX # 17352 AND THIS PLAN.
5. ALL GROUND MOUNTED STREET NAME SIGNS SHALL HAVE 8 INCH CAPITAL LETTERS.
6. SINGLE COLUMN GROUND SIGNS SHALL BE INSTALLED W/ STEEL SQUARE TUBE POST. STEEL SQUARE TUBE POST SHALL BE SIZED IN ACCORDANCE W/ FDOT INDEX NO. 11865.
7. ALL EXISTING SIGNS AND POSTS ARE TO BE REMOVED UNLESS NOTED OTHERWISE.
8. ALL PAVEMENT MARKINGS SHALL MEET SPECIFICATIONS AND BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, FDOT DESIGN STANDARDS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2009, FDOT TRAFFIC ENGINEERING MANUAL AND INDIAN RIVER COUNTY STANDARDS, LATEST EDITIONS.
9. ALL PAVEMENT MARKING MATERIAL SHALL BE ON THE DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST (APL), IN ADDITION TO BEING APPROVED BY INDIAN RIVER COUNTY TRAFFIC ENGINEERING, PRIOR TO INSTALLATION.
10. THE METHOD OF REMOVAL OF PAVEMENT MARKINGS SHALL BE HYDROBLASTING AND IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 711.

REVISIONS						<div><div><div>Kimley»Horn</div><div>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106</div></div></div>	<div>INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS</div> <div>66th AVENUE FROM 69th STREET TO SR-510/85th STREET</div>	GENERAL NOTES	SHEET NO.
		DESCRIPTION	DATE	BY	DESCRIPTION				S-2

TABULATION OF QUANTITIES																												
PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		SUB TOTAL		REF. SHEET	
			S-5		S-6		S-7		S-8		S-9		S-10		S-11		S-12		S-13		S-14							
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL		PLAN
700-1-11	SINGLE POST SIGN (FURNISH & INSTALL) (LESS THAN 12 SF)	AS	3		5		7		8		10		11		10		5		1		1		61		61			
700-1-12	SINGLE POST SIGN (FURNISH & INSTALL) (12-20 SF)	AS			2															1		3		3				
700-2-12	MULTI-POST SIGN (FURNISH & INSTALL) (12-20 SF)	AS													1		1					2		2				
706-3	RETRO-REFLECTIVE PAVEMENT MARKERS	EA	36		146		105		89		132		107		143		92		28		9		887		887			
711-11-121	THERMOPLASTIC, STD, WHITE, SOLID 6"	LF	529		1913		2485		2331		1988		2702		2625		2520		547		277		17917		17917			
711-11-122	THERMOPLASTIC, STD, WHITE, SOLID 8"	LF			1428		344		701		1025				1559		136					5193		5193				
711-11-123	THERMOPLASTIC, STD, WHITE, SOLID 12"	LF			94						308				678							1080		1080				
711-11-124	THERMOPLASTIC, STD, WHITE, SOLID 18"	LF			394		84		180		282				432		146					1518		1518				
711-11-125	THERMOPLASTIC, STD, WHITE, SOLID 24"	LF			31						23				751					35		840		840				
711-11-131	THERMOPLASTIC, STD, WHITE, SKIP (10'-30'), 6"	LF	1358		2011		2200		2200		1914		2200		1666		614					14163		14163				
711-11-141	THERMOPLASTIC, STD, WHITE, SKIP (2'-4' / 6'-10'), 6"	LF	86		385		170		243		318		156		390		289					2037		2037				
711-11-160	THERMOPLASTIC, STD, WHITE, MESSAGE	EA	2		4		2		1		4		2		6		4					25		25				
	MERGE														1		1					2		2				
	BICYCLE PERSON		2		4		2		1		4		2		5		3					23		23				
711-11-170	THERMOPLASTIC, STD, WHITE, ARROW				12		8		8		10		8		19		4				1		70		70			
	LEFT TURN				8		1		4		6				10					1		30		30				
	RIGHT TURN														4							4		4				
	U TURN						5		3				6									14		14				
	MERGE																1					1		1				
	BICYCLE THRU		2		4		2		1		4		2		5		3					23		23				
711-11-221	THERMOPLASTIC, STD, YELLOW, SOLID 6"	LF	775		2380		2085		2203		2251		2057		1942		3254		878		219		18044		18044			
711-11-224	THERMOPLASTIC, STD, YELLOW, SOLID 18"	LF			75						82						892		33			1082		1082				
711-11-241	THERMOPLASTIC, STD, YELLOW, SKIP (2'-4' / 6'-10'), 6"	LF			242		225				317		252									1036		1036				

[illegible]



REVISIONS				
DESCRIPTION	DATE	BY	DESCRIPTION	

Kimley»Horn

BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 35106

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS

66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

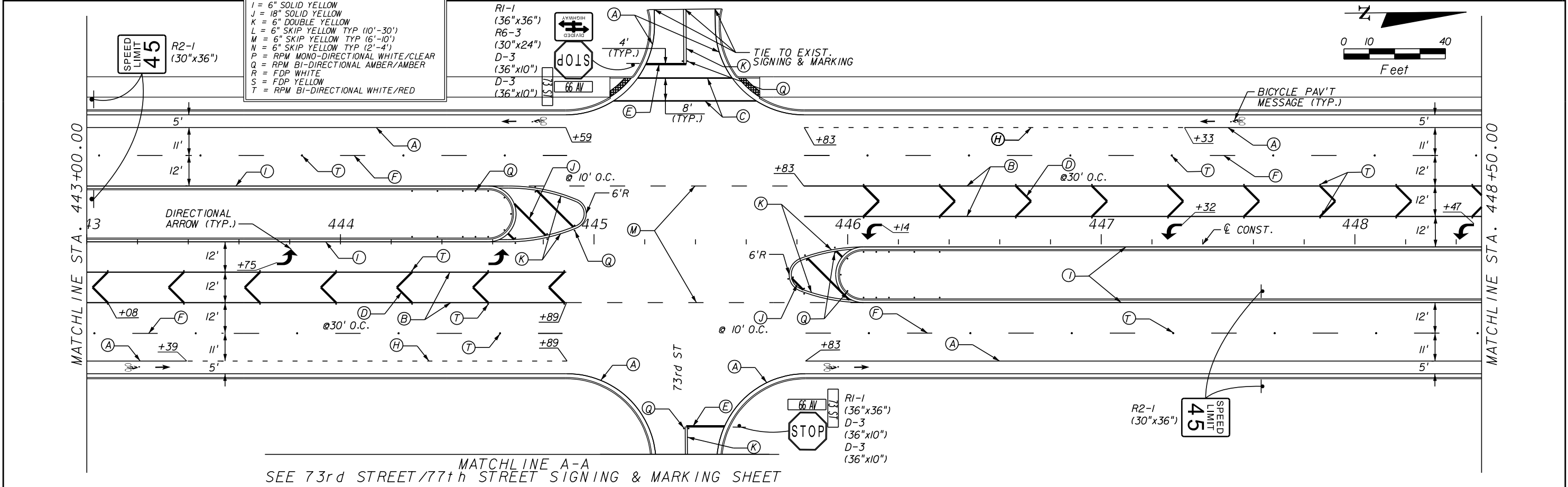
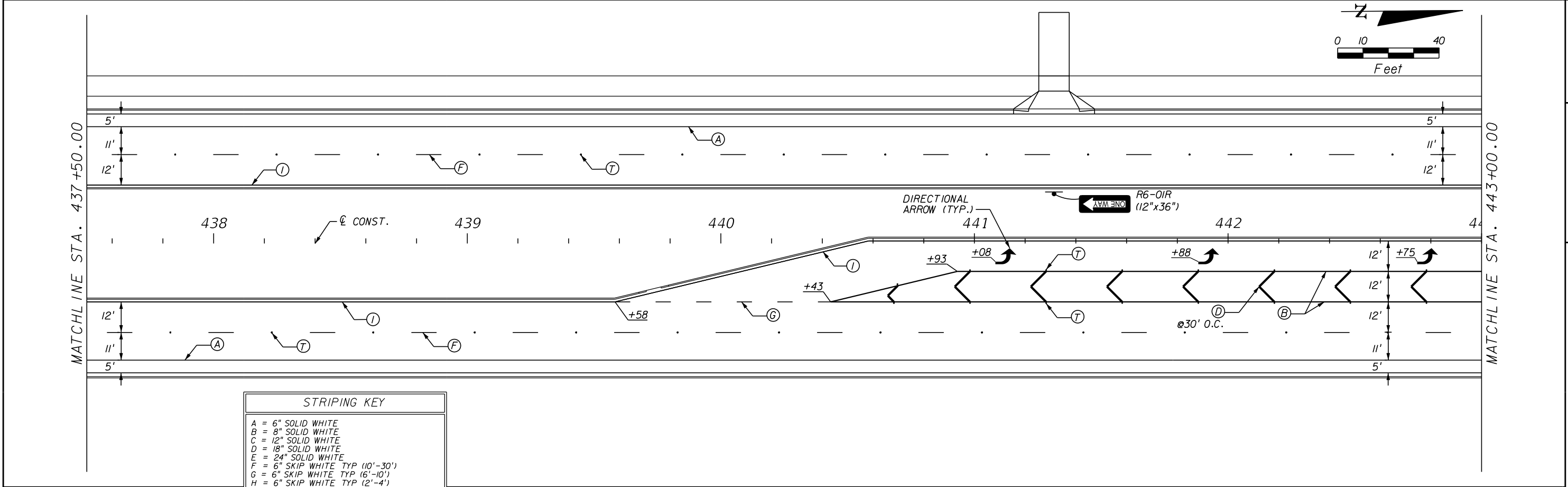
66th AVENUE
SIGNING AND MARKING

SHEET NO.
S-5

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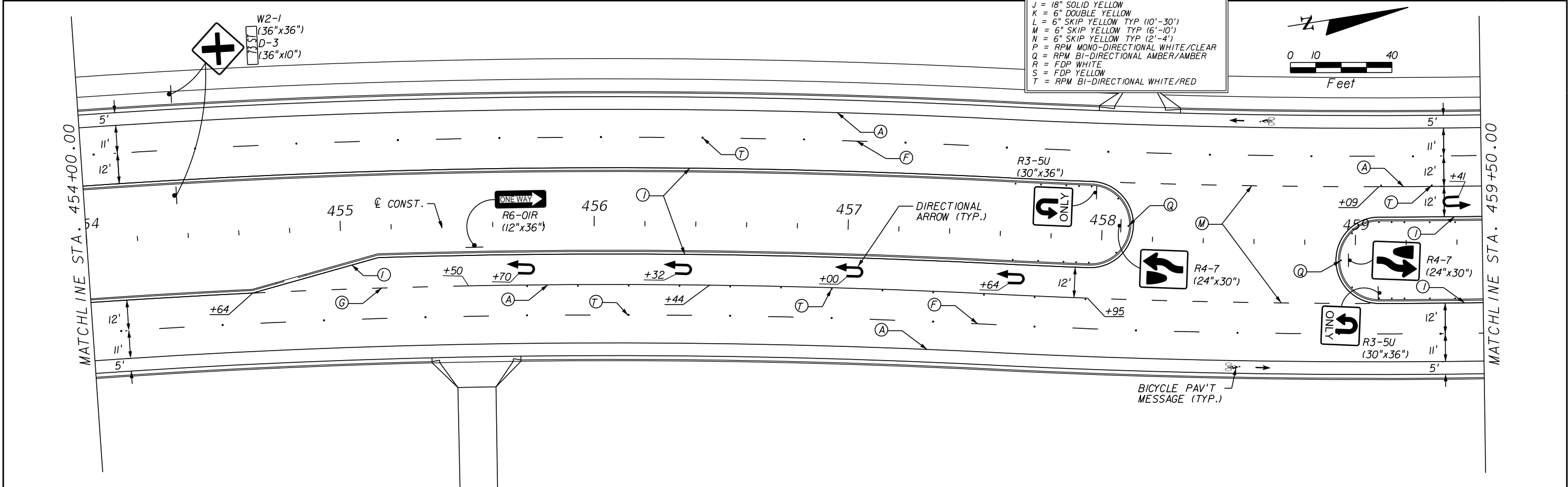
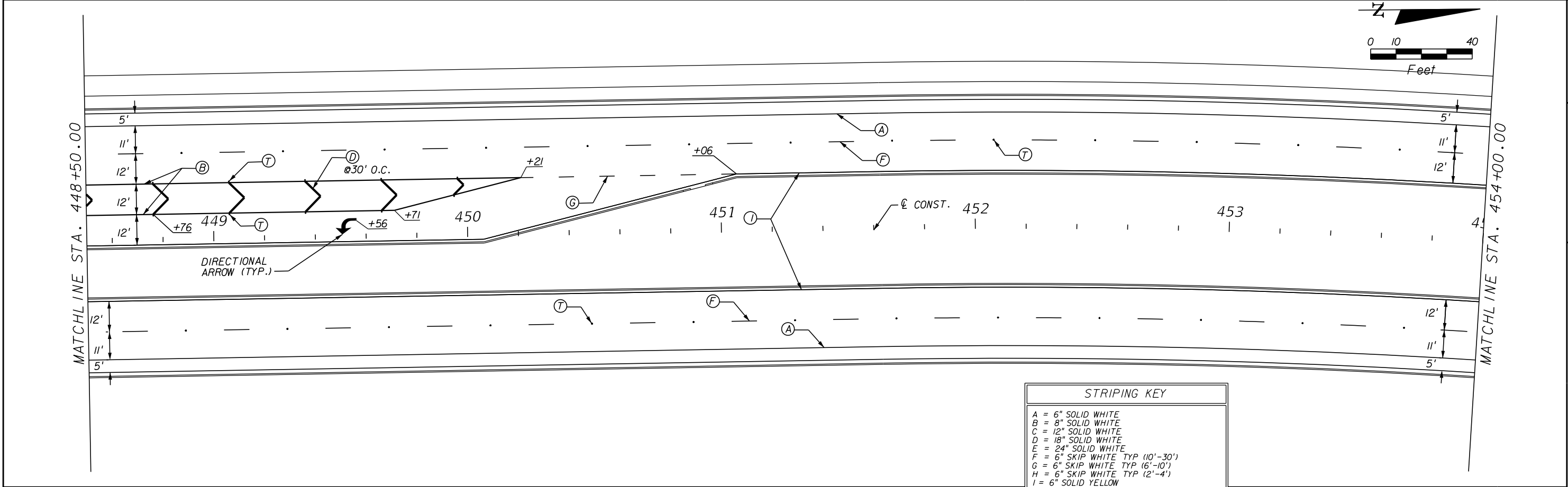
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IR.CO. Proj. No.



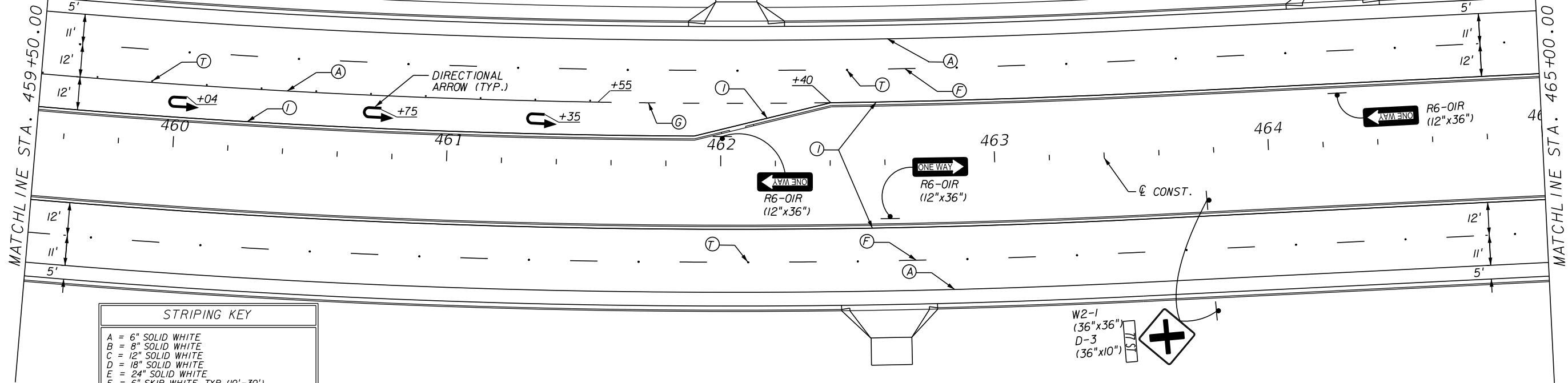
MATCHLINE A-A
SEE 73rd STREET/77th STREET SIGNING & MARKING SHEET

REVISIONS				DESCRIPTION	<div>Kimley»Horn</div> <div>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106</div>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	66th AVENUE SIGNING AND MARKING	SHEET NO. S-6
NO.	DATE	BY	DESCRIPTION					



REVISIONS					Kimley»Horn	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS	66th AVENUE SIGNING AND MARKING	SHEET NO.
		DESCRIPTION	DATE	BY				
					BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106	66th AVENUE FROM 69th STREET TO SR-510/85th STREET		S-7

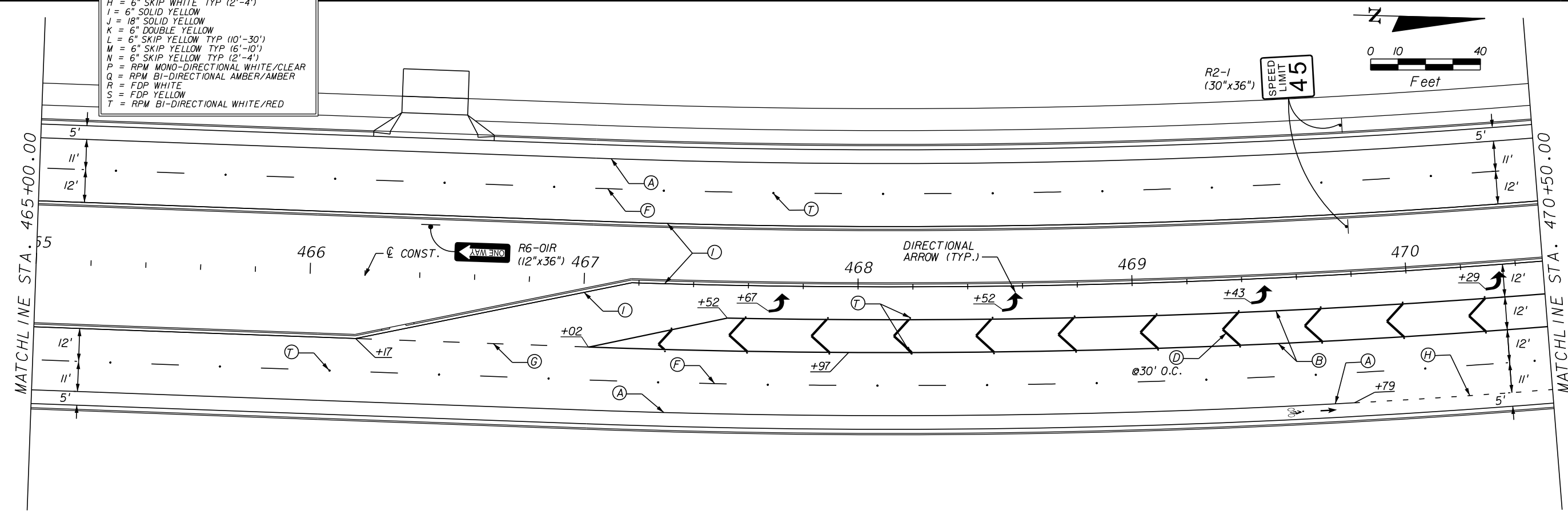
MATCHLINE STA. 459+50.00



MATCHLINE STA. 465+00.00

STRIPING KEY	
A	= 6" SOLID WHITE
B	= 8" SOLID WHITE
C	= 12" SOLID WHITE
D	= 18" SOLID WHITE
E	= 24" SOLID WHITE
F	= 6" SKIP WHITE TYP (10'-30')
G	= 6" SKIP WHITE TYP (6'-10')
H	= 6" SKIP WHITE TYP (2'-4')
I	= 6" SOLID YELLOW
J	= 18" SOLID YELLOW
K	= 6" DOUBLE YELLOW
L	= 6" SKIP YELLOW TYP (10'-30')
M	= 6" SKIP YELLOW TYP (6'-10')
N	= 6" SKIP YELLOW TYP (2'-4')
P	= RPM MONO-DIRECTIONAL WHITE/CLEAR
Q	= RPM BI-DIRECTIONAL AMBER/AMBER
R	= FDP WHITE
S	= FDP YELLOW
T	= RPM BI-DIRECTIONAL WHITE/RED

MATCHLINE STA. 465+00.00



MATCHLINE STA. 470+50.00

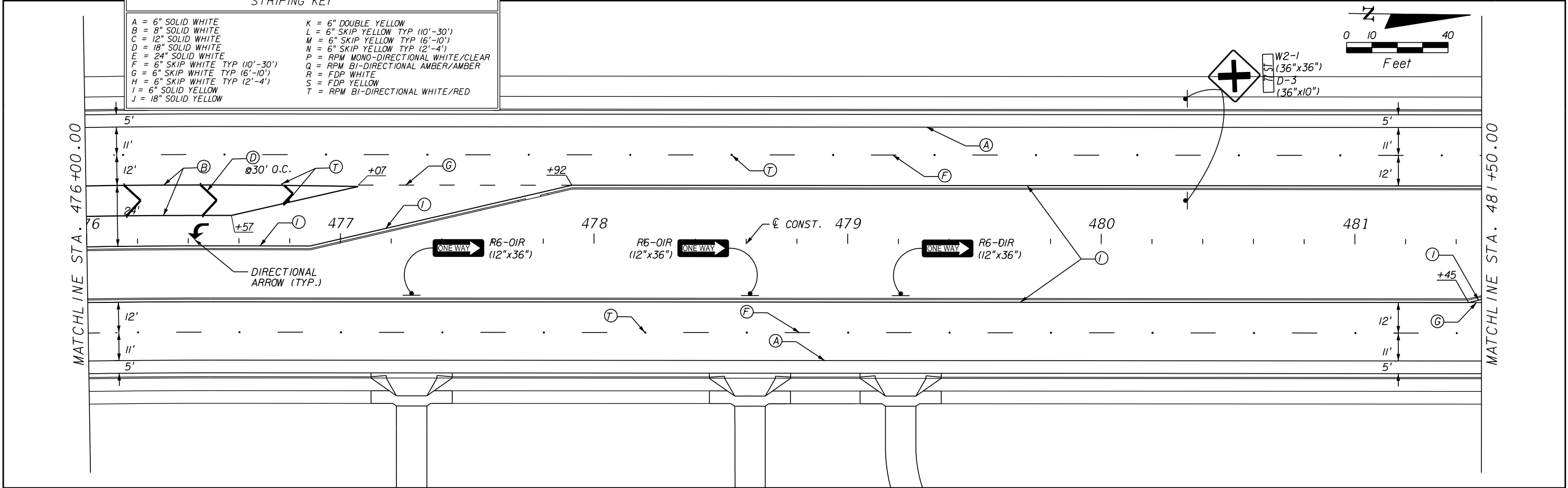
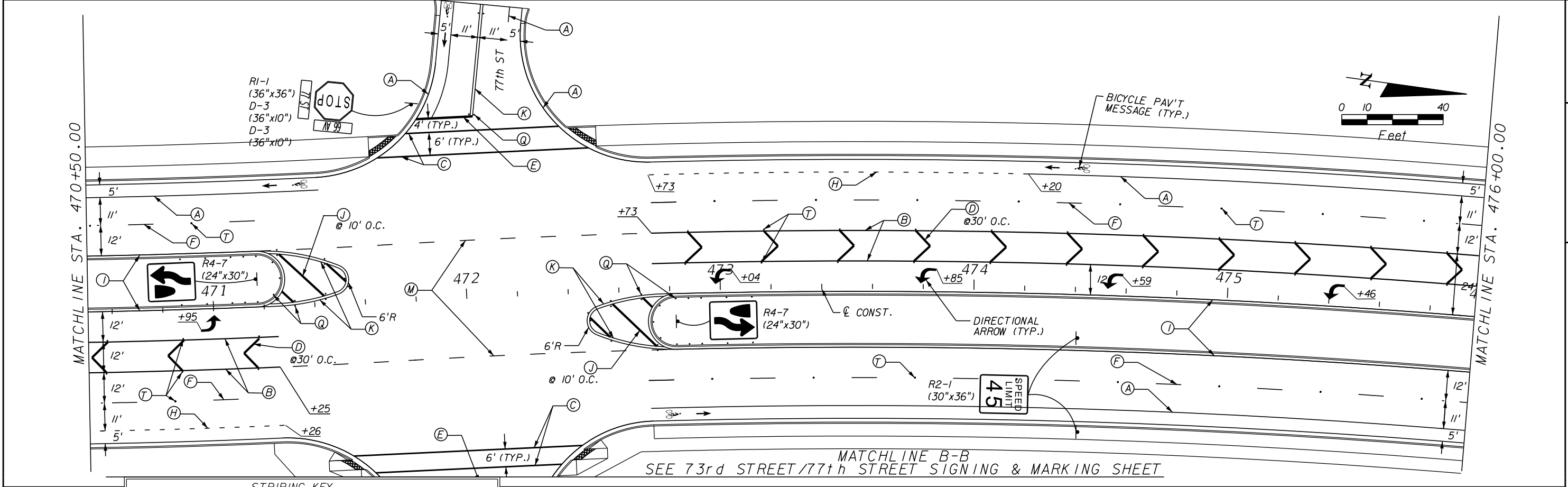
REVISIONS				
NO.	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 35106

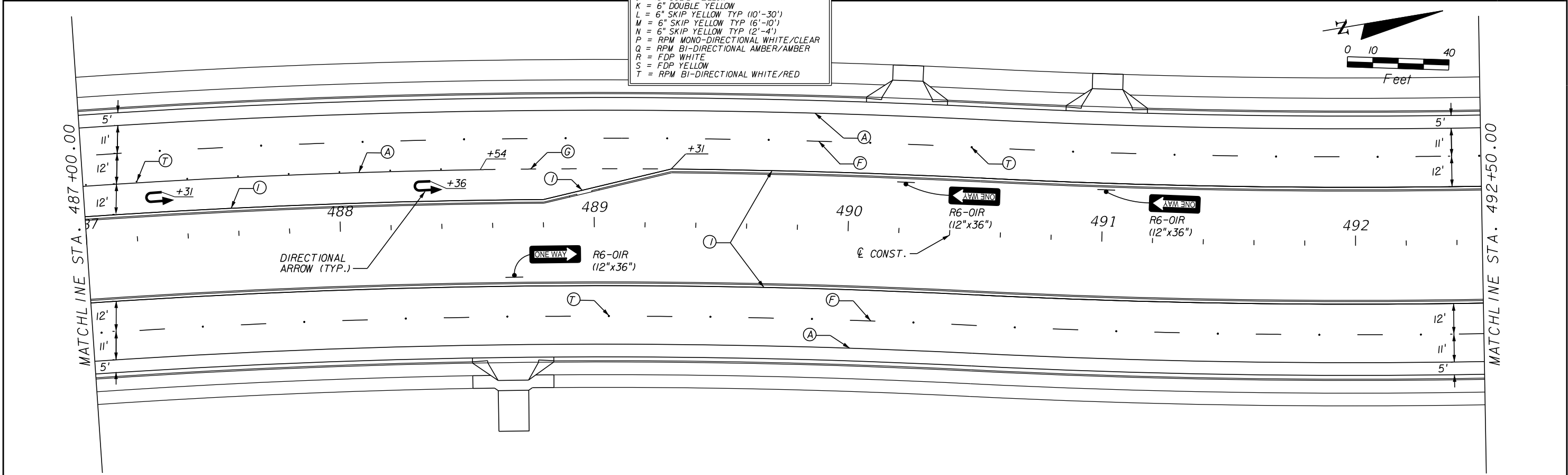
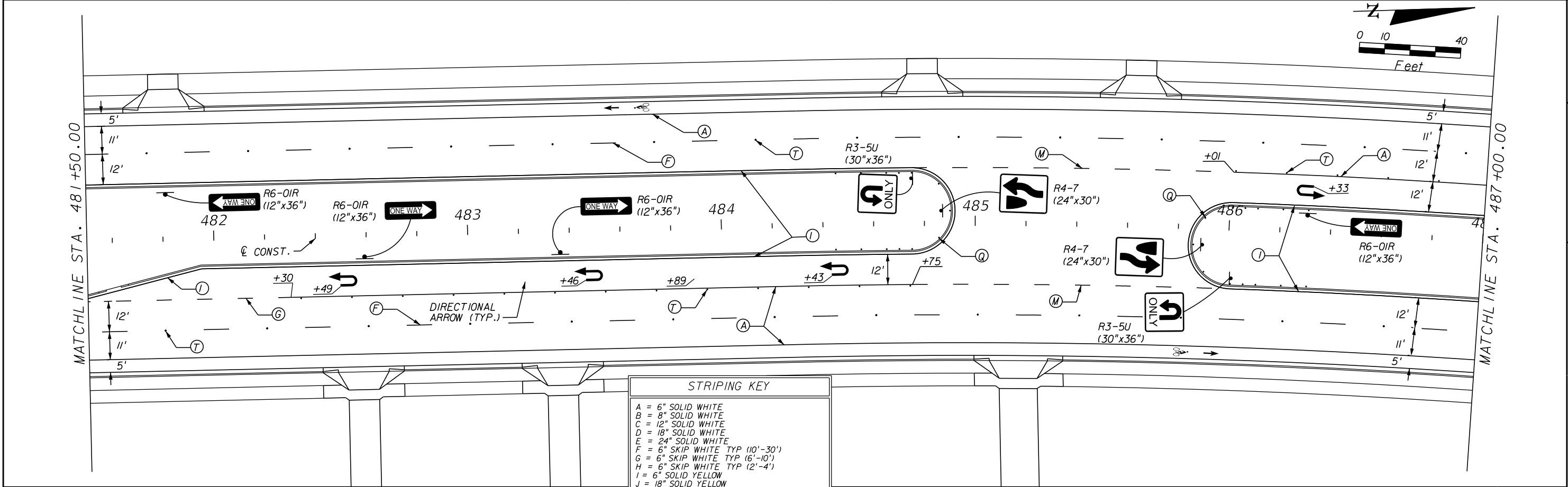
**INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS**
**66th AVENUE FROM 69th STREET
TO SR-510/85th STREET**

**66th AVENUE
SIGNING AND MARKING**

SHEET NO.
S-8

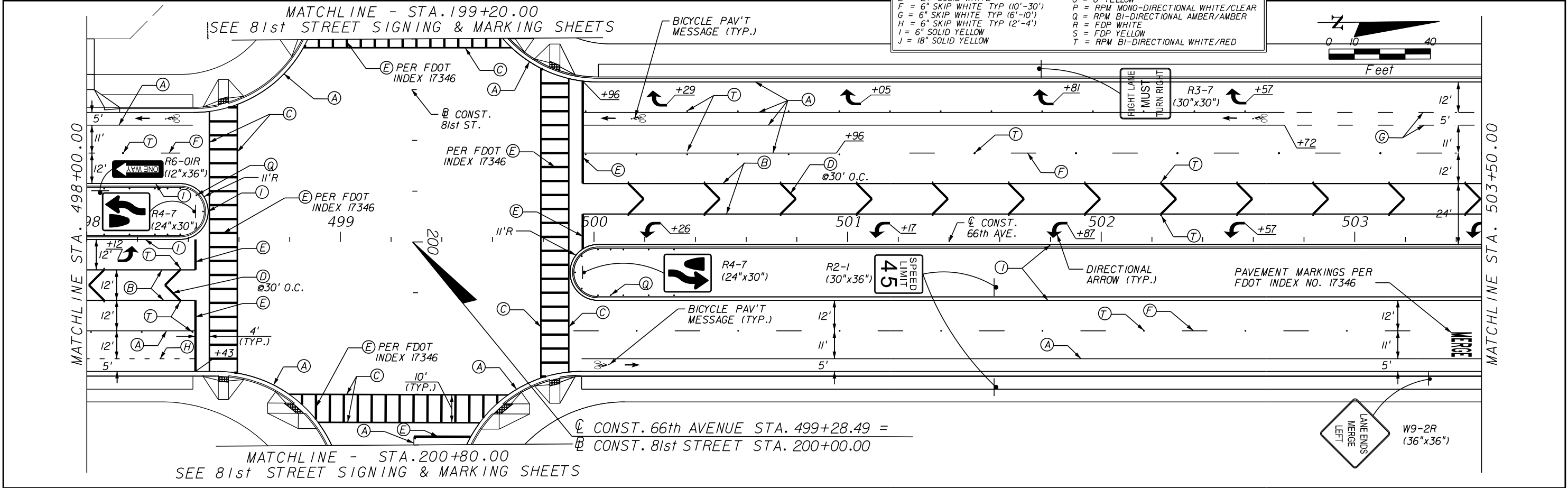
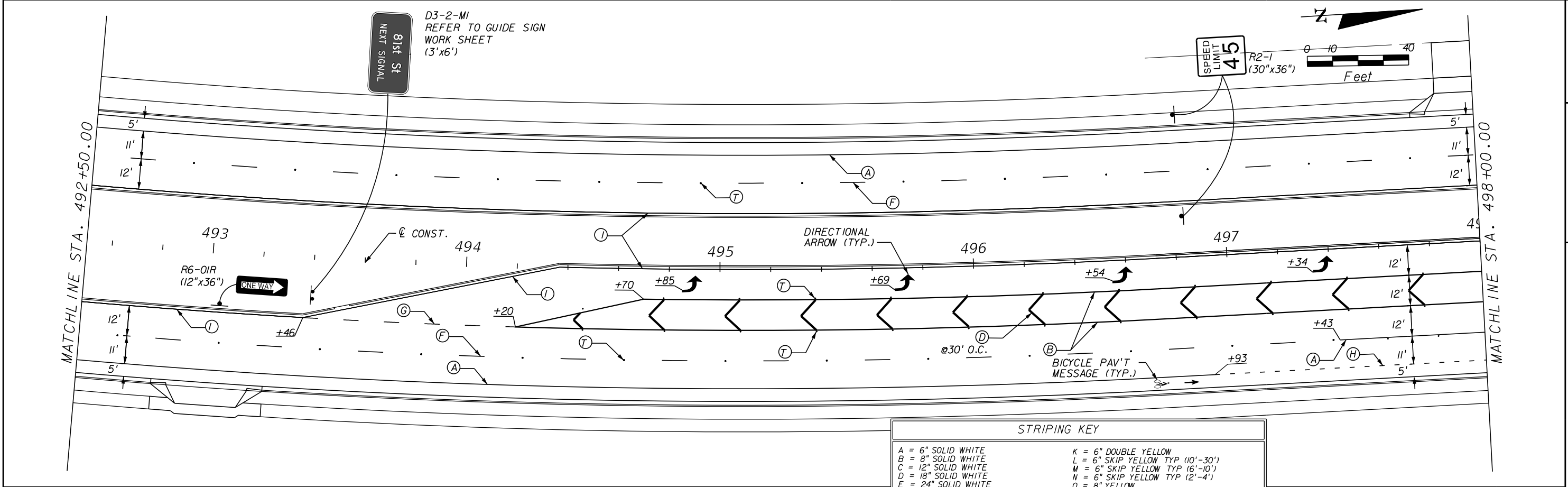


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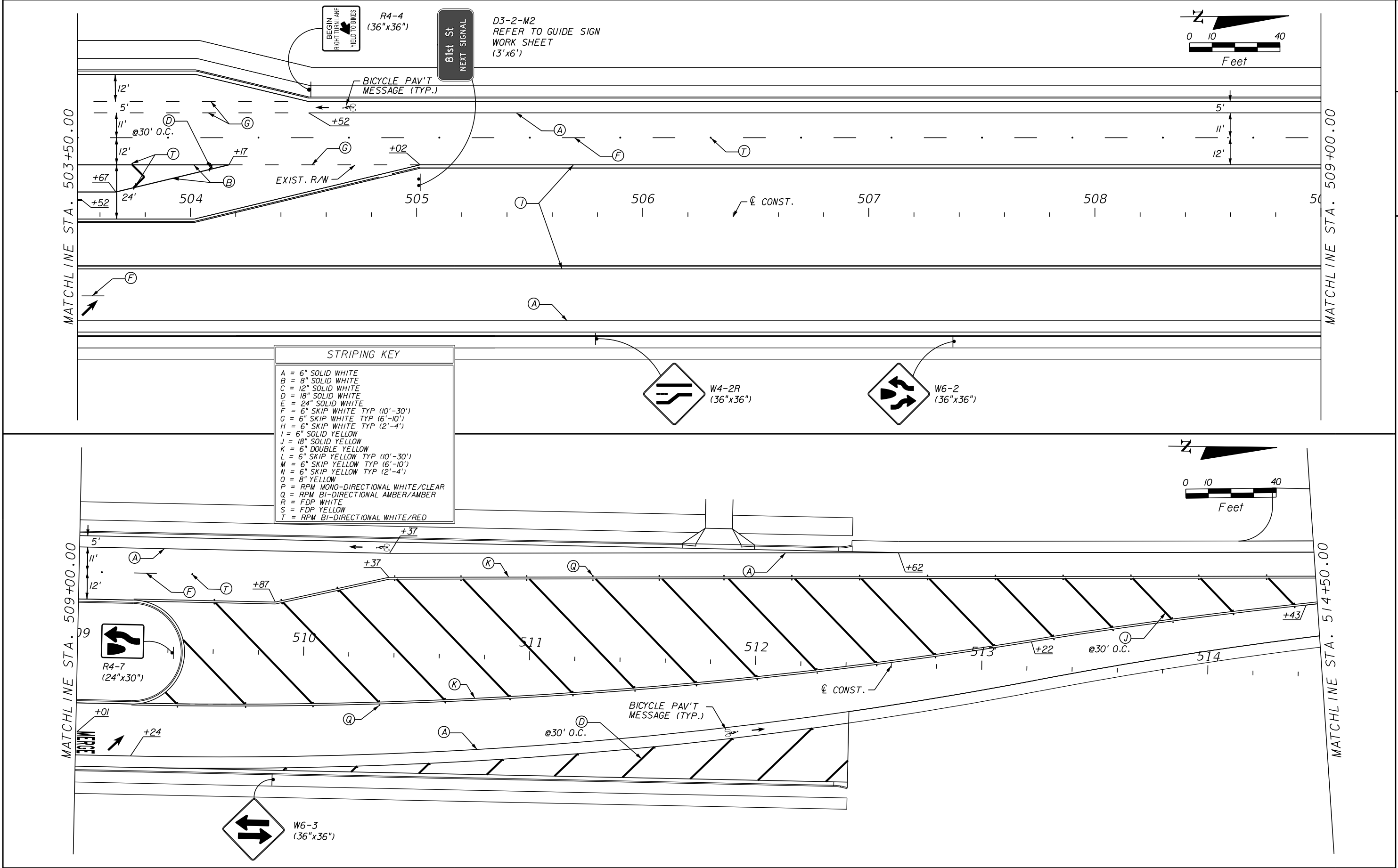
REVISIONS					Kimley»Horn	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS	66th AVENUE SIGNING AND MARKING	SHEET NO.
NO.	DESCRIPTION	DATE	BY	DESCRIPTION				
					BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106	66th AVENUE FROM 69th STREET TO SR-510/85th STREET		S-10

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DESCRIPTION	DATE	BY	DESCRIPTION					
					BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106			

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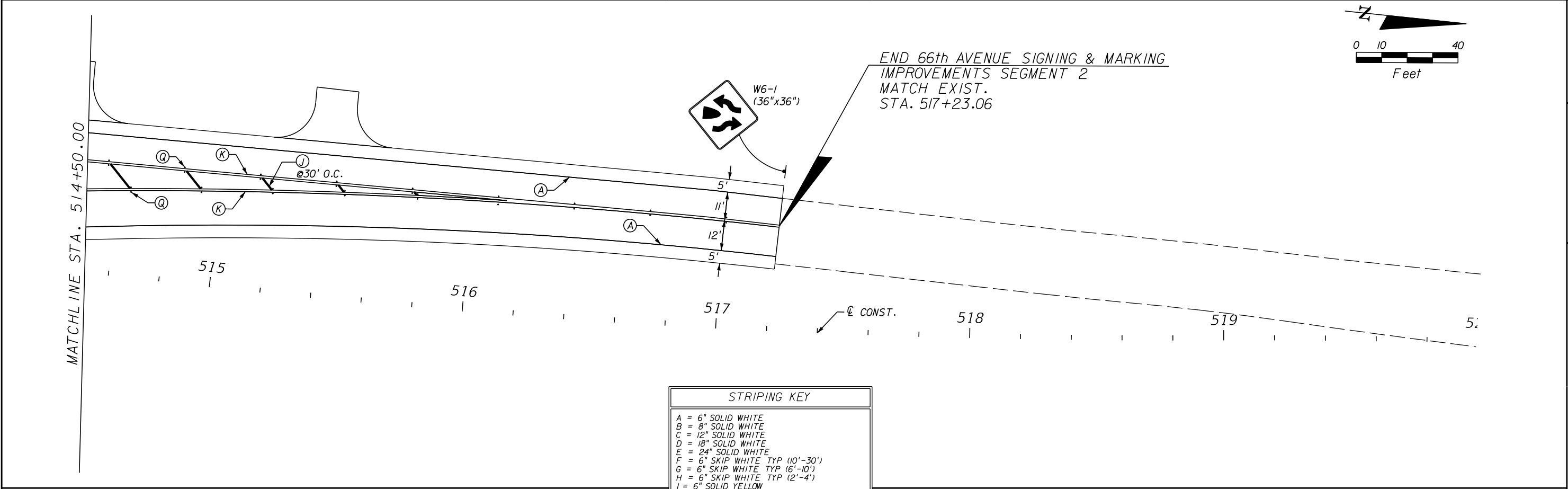


REVISIONS				Kimley»Horn <small>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106</small>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	66th AVENUE SIGNING AND MARKING	SHEET NO.
							S-12
DESCRIPTION	DATE	BY	DESCRIPTION				

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1505B

IR.CO. Proj. No.



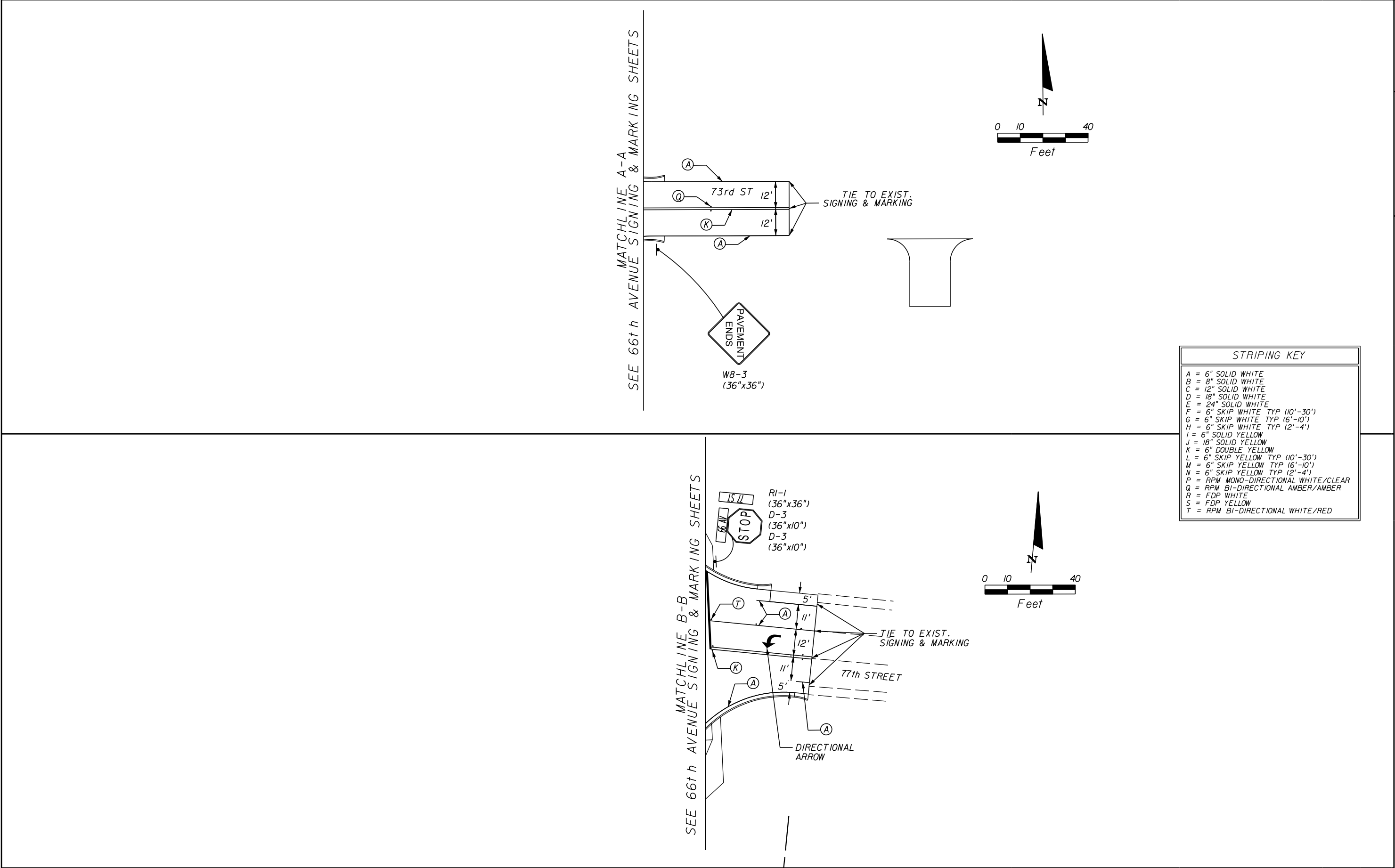
STRIPING KEY	
A	= 6" SOLID WHITE
B	= 8" SOLID WHITE
C	= 12" SOLID WHITE
D	= 18" SOLID WHITE
E	= 24" SOLID WHITE
F	= 6" SKIP WHITE TYP (10'-30')
G	= 6" SKIP WHITE TYP (6'-10')
H	= 6" SKIP WHITE TYP (2'-4')
I	= 6" SOLID YELLOW
J	= 18" SOLID YELLOW
K	= 6" DOUBLE YELLOW
L	= 6" SKIP YELLOW TYP (10'-30')
M	= 6" SKIP YELLOW TYP (6'-10')
N	= 6" SKIP YELLOW TYP (2'-4')
P	= RPM MONO-DIRECTIONAL WHITE/CLEAR
Q	= RPM BI-DIRECTIONAL AMBER/AMBER
R	= FDP WHITE
S	= FDP YELLOW
T	= RPM BI-DIRECTIONAL WHITE/RED

REVISIONS					<div>Kimley»Horn</div> <div>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106</div>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	66th AVENUE SIGNING AND MARKING	SHEET NO.
NO.	DATE	BY	DESCRIPTION	DESCRIPTION				S-13

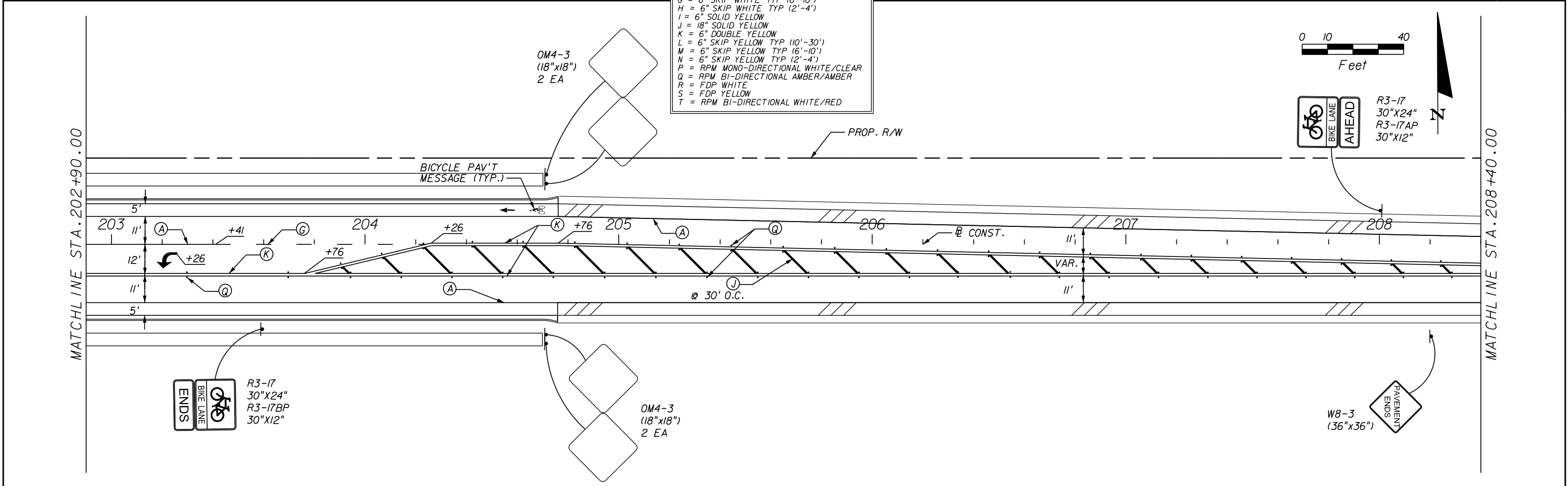
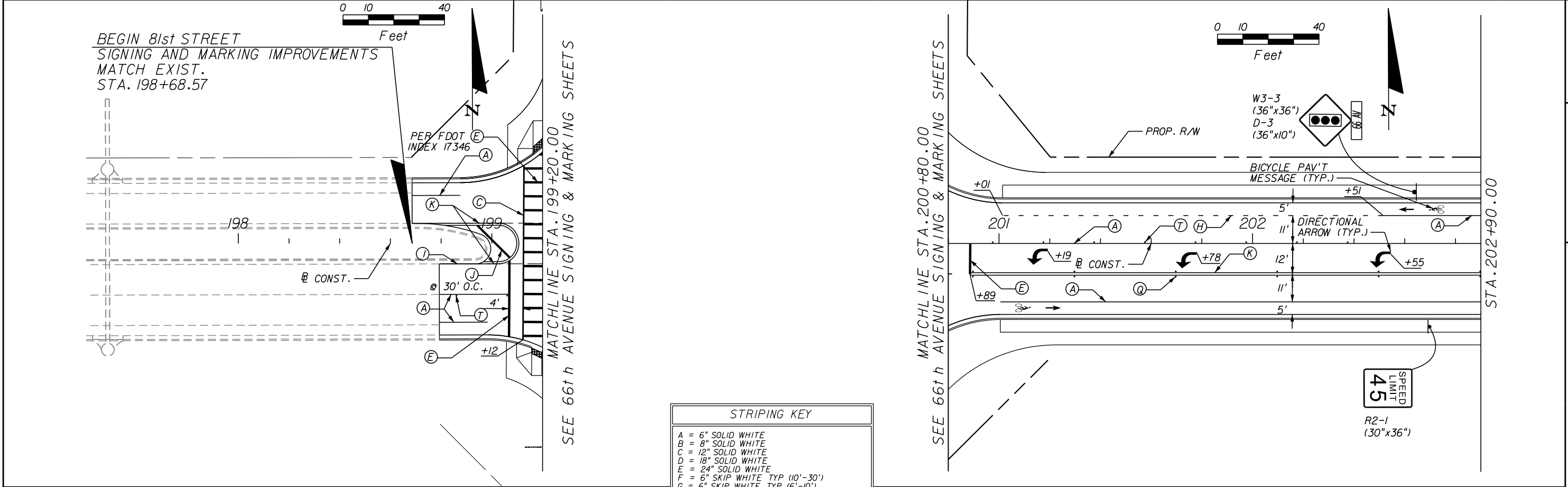
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1505B

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REVISIONS					Kimley»Horn	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS	73rd STREET/77th STREET SIGNING AND MARKING	SHEET NO.
		DESCRIPTION	DATE	BY				
					BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106	66th AVENUE FROM 69th STREET TO SR-510/85th STREET		S-14



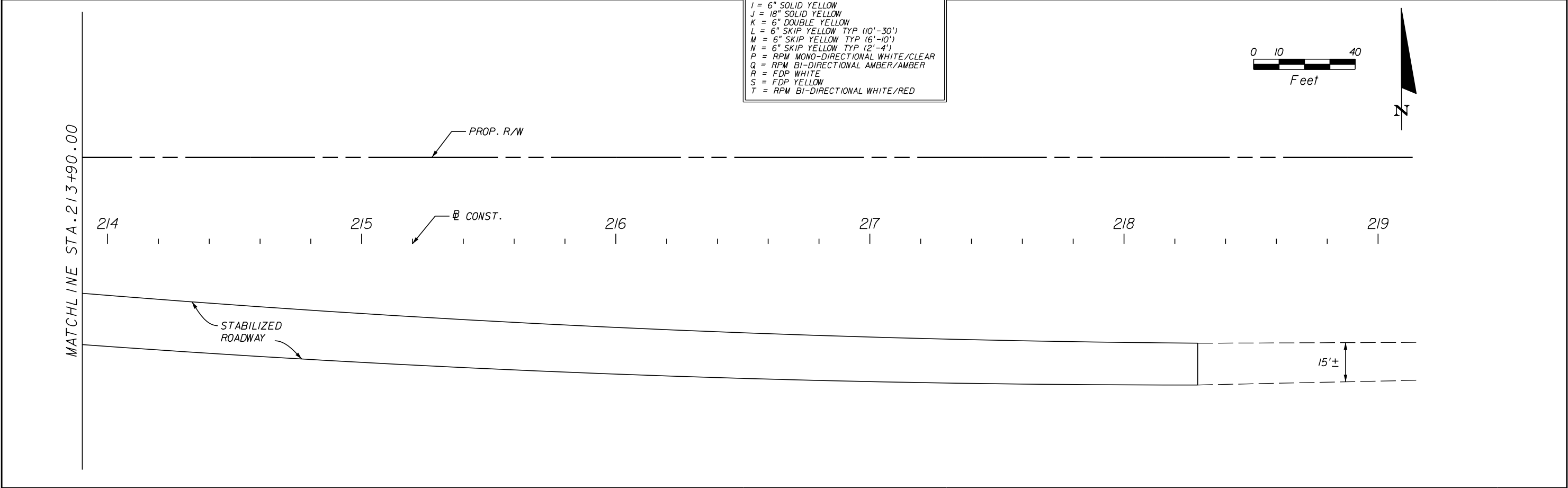
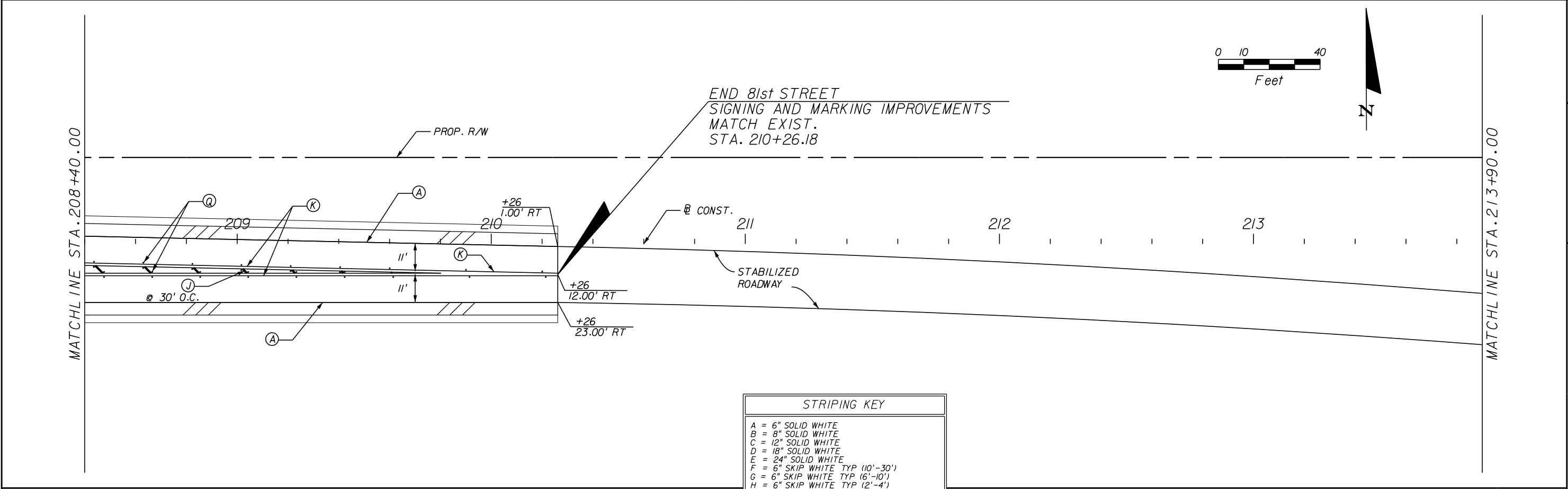
REVISIONS					Kimley»Horn	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS	81st STREET SIGNING AND MARKING	SHEET NO.
DESCRIPTION	DATE	BY	DESCRIPTION					
					BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106	66th AVENUE FROM 69th STREET TO SR-510/85th STREET		S-15

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1505B

IR.CO. Proj. No.

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REVISIONS					Kimley»Horn <small>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 35106</small>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 66th AVENUE FROM 69th STREET TO SR-510/85th STREET	81st STREET SIGNING AND MARKING	SHEET NO.
DESCRIPTION	DATE	BY	DESCRIPTION					S-16

SIGN NAME		BIST	QTY	2	SIGN NO.	STATION(S)	
PANEL		BORDER				none	
WIDTH		6'-0"	WIDTH		1"		
HEIGHT		3'-0"	RADII		6"		
LEGEND		White	COLOR		White		
COLOR		Green					
SYMBOL(S)		ANGLE	X		Y	WID	HT
SIGN NO.	NO. OF POSTS	EDGE OF LANE CLEARANCE	COLUMN SIZE		AVERAGE LENGTH		
NO. OF LIGHT FIXTURES							
FIXTURE SPACING							
PHOTOMETRIC CURVE							
WATT							
VOLTAGE							

6'-0"

3'-0"

7.75"

8"D

6.5"

6"D

7.75"

10.2"

51.6"

10.2"

BORDER
R=6"
TH=1"

81st St
NEXT SIGNAL

Panel Style: ADVANCE_SIGNAL.ssi
M.U.T.C.D.: 2009 Edition

COPY	8	1	s	t		S	t		L											
SPACE	18.6	25.7	29	33	36.2	44.2	50.2		34.7											
COPY	N	E	X	T		S	I	G	N	A	L		L							
SPACE	10.2	15.7	20	24.6	28.3	34.3	39.4	41.7	47.1	52.1	58.1		51.6							
COPY																				
SPACE																				
COPY																				
SPACE																				
COPY																				
SPACE																				
COPY																				
SPACE																				

SIGN NAME			QTY		SIGN NO.	STATION(S)	
PANEL		BORDER					
WIDTH		WIDTH					
HEIGHT		RADII					
LEGEND		COLOR					
COLOR							
SYMBOL(S)		ANGLE	X		Y	WID	HT
SIGN NO.	NO. OF POSTS	EDGE OF LANE CLEARANCE	COLUMN SIZE		AVERAGE LENGTH		
NO. OF LIGHT FIXTURES							
FIXTURE SPACING							
PHOTOMETRIC CURVE							
WATT							
VOLTAGE							

COPY																				
SPACE																				
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SPACE																				

REVISIONS				
		DESCRIPTION	DATE	BY

Kimley»Horn

BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 35106

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS

66th AVENUE FROM 69th STREET
TO SR-510/85th STREET

GUIDE SIGN WORK SHEET

SHEET NO.
S-17

CLEARANCE FROM EDGE OF TRAVELED WAY TO EDGE OF SIGN ("A"XFT) (MIN.)	STATION OR M.P.	SIGN NO.	SIGN SIZE (W x D) (FT)	SIDE SLOPE (RISE : RUN)	CLEAR HEIGHT (FT)	NO. OF POSTS	AVERAGE LENGTH OF POSTS (FT)	STEEL POSTS	ALUMINUM BEAMS	AVERAGE LENGTH OF POSTS AND FOOTING (FT)	U-CHANNEL POSTS	SQUARE STEEL TUBES
2' - 0"	493+40	D3-2-M1	6' - 0" X 3' - 0"	FLAT	7'	2	9.66'	W 6X12	-	-	-	-
2' - 0"	505+00	D3-2-M2	6' - 0" X 3' - 0"	FLAT	7'	2	9.66'	W 6X12	-	-	-	-

* FOUNDATION DEPTH SHALL BE 6'-6"

NOTES:

1. FOR ADDITIONAL DETAILS AND NOTES SEE STANDARD INDEX NO. I1200 AND I7302.

2. CLEAR HEIGHT IS THE DISTANCE BETWEEN THE BOTTOM OF THE MAIN SIGN PANEL AND THE GROUND AT THE CENTER OF THE MAIN SIGN PANEL.

3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THE LENGTH OF THE SIGN SUPPORTS IN THE FIELD PRIOR TO FABRICATION.

4. AVERAGE LENGTH OF POSTS COLUMN IS APPLICABLE TO STEEL POST AND ALUMINUM BEAMS.

5. AT LOCATIONS WHERE MULTI-POST SIGNS ARE BEING INSTALLED OVER PROPOSED DRAINAGE PIPES THE CONTRACTOR SHALL PLACE THE ASSEMBLY POST EITHER SIDE OF THE PIPE SO THAT THE SIGN STRADDLES THE PIPE. THE CONTRACTOR SHALL EXERCISE CAUTION IN THE THESE SITUATIONS IN ORDER TO AVOID DAMAGING THE PROPOSED PIPE.

TYPICAL SECTIONS FOR
PLACEMENT OF MULTI-COLUMN SIGNS
N.T.S.

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