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CIVIL WEST CONSTRUCTION

VOLUME 8

DRAINAGE

[illegible]

THE PROPOSED SOUTHWEST LRT PROJECT IS NOT FINAL BUT IS STILL UNDER ENVIRONMENTAL REVIEW AND THE PROJECT IS SUBJECT TO CHANGE. THESE PLANS ARE NOT FINAL.

THE COUNCIL, THROUGH THE DEVELOPMENT OF THESE PLANS, DOES NOT INTEND THAT THEY WILL PREJUDICE OR COMPROMISE ANY STATE OR FEDERAL ENVIRONMENTAL REVIEW OR OTHER LEGAL REQUIREMENTS. THESE PLANS DO NOT LIMIT THE PROJECT DESIGN ALTERNATIVES OR MITIGATIVE MEASURES THAT THE COUNCIL MAY UNDERTAKE IF THE PROPOSED SWLRT PROJECT PROCEEDS TO CONSTRUCTION.

THE COUNCIL WILL NOT TAKE FINAL ACTION ON THIS MATTER UNLESS THE COUNCIL PROCEEDS WITH THE PROJECT AFTER THE FTA'S RECORD OF DECISION AND THE COUNCIL'S DETERMINATION OF ADEQUACY.

WARNING: THIS RECORD MAY CONTAIN SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PARTS 15 AND 1520. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A "NEED TO KNOW", AS DEFINED IN 49 CFR PARTS 15 AND 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATOR OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR U.S. GOVERNMENT AGENCIES, PUBLIC DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1520.

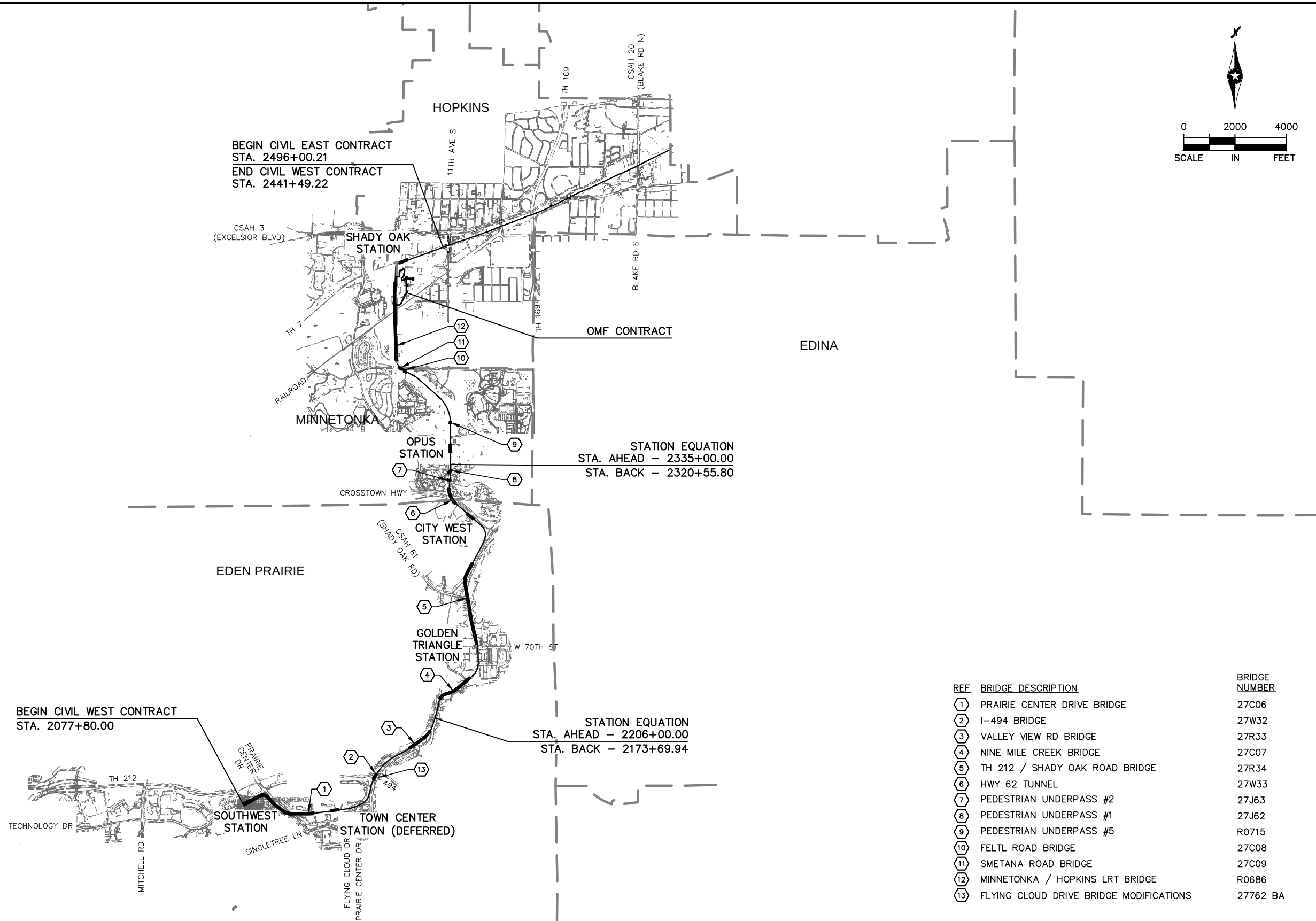
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CIVIL WEST						CIVIL WEST						CIVIL WEST																					
SHT #	SHEET NAME		SHEET DESCRIPTION		STATION	STATION	REV	SHT #	SHEET NAME		SHEET DESCRIPTION		STATION	STATION	REV	SHT #	SHEET NAME		SHEET DESCRIPTION		STATION	STATION	REV										
VOLUME 8 - DRAINAGE																																	
1	W0-DRN-CVR-001		COVER SHEET																							73	W2-STM-PRF-013		DRAINAGE PLAN AND PROFILE RED CIRCLE DR		201+00	208+00	
2	W0-DRN-IDX-001		VOLUME INDEX OF PLAN SHEETS																							74	W2-STM-PRF-014		DRAINAGE PLAN AND PROFILE		2308+00	2315+00	
3	W0-GEN-KEY-001		GENERAL KEY MAP																							75	W2-STM-PRF-015		DRAINAGE PLAN AND PROFILE		2310+00	2317+00	
4	W0-GEN-NTS-001		GENERAL LEGEND AND ABBREVIATIONS SHEET 1																							76	W2-STM-PRF-016		DRAINAGE PLAN AND PROFILE		2311+00	2313+00	
5	W0-GEN-NTS-002		GENERAL LEGEND AND ABBREVIATIONS SHEET 2																							77	W2-STM-PRF-017		DRAINAGE PLAN AND PROFILE		2314+00	2319+00	
6	W0-STM-NTS-001		DRAINAGE NOTES, ABBREVIATIONS & SYMBOLS																							78	W2-STM-PRF-018		DRAINAGE PLAN AND PROFILE RED CIRCLE DR		221+00	225+00	
7	W1-STM-LAY-001		DRAINAGE PLAN SHEET LAYOUT SHEET 1																							79	W2-STM-PRF-019		DRAINAGE PLAN AND PROFILE RED CIRCLE DR		224+00	228+81	
8	W2-STM-LAY-002		DRAINAGE PLAN SHEET LAYOUT SHEET 2																							80	W3-STM-PRF-001		DRAINAGE PLAN AND PROFILE		2345+50	2349+50	
9	W3-STM-LAY-003		DRAINAGE PLAN SHEET LAYOUT SHEET 3																							81	W3-STM-PRF-002		DRAINAGE PLAN AND PROFILE		2338+50	2344+50	
10	W1-STM-LAY-004		DRAINAGE PROFILE SHEET LAYOUT SHEET 4																							82	W3-STM-PRF-003		DRAINAGE PLAN AND PROFILE		2344+50	2354+00	
11	W2-STM-LAY-005		DRAINAGE PROFILE SHEET LAYOUT SHEET 5																							83	W3-STM-PRF-004		DRAINAGE PLAN AND PROFILE		2360+50	2366+50	
12	W3-STM-LAY-006		DRAINAGE PROFILE SHEET LAYOUT SHEET 6																							84	W3-STM-PRF-005		DRAINAGE PLAN AND PROFILE		2368+00	2380+00	
13	W1-STM-PLN-001		DRAINAGE PLAN		2077+80																			2085+32		85	W3-STM-PRF-006		DRAINAGE PLAN AND PROFILE SMETANA RD		58+00	66+00	
14	W1-STM-PLN-002		DRAINAGE PLAN		2085+32																			2094+65		86	W3-STM-PRF-007		DRAINAGE PLAN AND PROFILE		2382+00	2387+50	
15	W1-STM-PLN-003		DRAINAGE PLAN		2094+65																			2104+26		87	W3-STM-PRF-008		DRAINAGE PLAN AND PROFILE		2410+00	2420+00	
16	W1-STM-PLN-004		DRAINAGE PLAN		2104+26																			2113+50		88	W3-STM-PRF-009		DRAINAGE PLAN AND PROFILE 5TH ST S		9+00	14+50	
17	W1-STM-PLN-005		DRAINAGE PLAN		2113+50																			2123+32		89	W3-STM-PRF-010		DRAINAGE PLAN AND PROFILE 17TH AVE S		13+00	18+00	
18	W1-STM-PLN-006		DRAINAGE PLAN		2123+32																			2133+00		90	W3-STM-PRF-011		DRAINAGE PLAN AND PROFILE 17TH AVE S		8+00	13+00	
19	W1-STM-PLN-007		DRAINAGE PLAN		2133+00																			2142+50		91	W3-STM-PRF-012		DRAINAGE PLAN AND PROFILE 17TH AVE S		8+00	11+00	
20	W1-STM-PLN-008		DRAINAGE PLAN TECHNOLOGY DRIVE		120+00																			129+00		92	W3-STM-PRF-013		SHADY OAK PARK & RIDE - NORTH				
21	W1-STM-PLN-009		DRAINAGE PLAN		2142+50																			2151+85		93	W3-STM-PRF-014		SHADY OAK PARK & RIDE - SOUTH				
22	W1-STM-PLN-010		DRAINAGE PLAN		2151+85																			2161+47		94	W3-STM-PRF-015		DRAINAGE PLAN AND PROFILE		2422+00	2430+00	
23	W1-STM-PLN-011		DRAINAGE PLAN		2161+47																			2171+05		95	W3-STM-PRF-016		DRAINAGE PLAN AND PROFILE		2430+00	2437+50	
24	W1-STM-PLN-012		DRAINAGE PLAN		2171+05																			2173+70		96	W0-STM-DET-001		DRAINAGE DETAILS SHEET 1				
25	W2-STM-PLN-001		DRAINAGE PLAN		2206+00																			2213+50									
26	W2-STM-PLN-002		DRAINAGE PLAN		2213+50																			2222+95									
27	W2-STM-PLN-003		DRAINAGE PLAN		2222+95																			2232+47									
28	W2-STM-PLN-004		DRAINAGE PLAN		2232+47																			2242+25									
29	W2-STM-PLN-005		DRAINAGE PLAN		2242+25																			2251+75									
30	W2-STM-PLN-006		DRAINAGE PLAN GOLDEN TRIANGLE STATION LOT																														
31	W2-STM-PLN-007		DRAINAGE PLAN		2251+75																			2261+25									
32	W2-STM-PLN-008		DRAINAGE PLAN		2261+25																			2270+75									
33	W2-STM-PLN-009		DRAINAGE PLAN		2270+75																			2280+15									
34	W2-STM-PLN-010		DRAINAGE PLAN		2280+15																			2289+75									
35	W2-STM-PLN-011		DRAINAGE PLAN		2289+75																			2299+50									
36	W2-STM-PLN-012		DRAINAGE PLAN		2299+50																			2308+95									
37	W2-STM-PLN-013		DRAINAGE PLAN		2308+95																			2318+25									
38	W2-STM-PLN-014		DRAINAGE PLAN		2318+25																			2320+56									
39	W3-STM-PLN-001		DRAINAGE PLAN		2336+50																			2342+50									
40	W3-STM-PLN-002		DRAINAGE PLAN		2342+50																			2352+00									
41	W3-STM-PLN-003		DRAINAGE PLAN		2352+00																			2361+55									
42	W3-STM-PLN-004		DRAINAGE PLAN		2361+55																			2371+20									
43	W3-STM-PLN-005		DRAINAGE PLAN		2371+20																			2380+75									
44	W3-STM-PLN-006		DRAINAGE PLAN		2380+75																			2390+12									
45	W3-STM-PLN-007		DRAINAGE PLAN		2390+12																			2399+64									
46	W3-STM-PLN-008		DRAINAGE PLAN		2399+64																			2409+16									
47	W3-STM-PLN-009		DRAINAGE PLAN		2409+16																			2418+00									
48	W3-STM-PLN-010		DRAINAGE PLAN		2418+00																			2427+88									
49	W3-STM-PLN-011		DRAINAGE PLAN 17TH AVE S		8+00																			13+25									
50	W3-STM-PLN-012		DRAINAGE PLAN 17TH AVE S		13+25																			18+50									
51	W3-STM-PLN-013		DRAINAGE PLAN		2427+88																			2437+40									
52	W3-STM-PLN-014		DRAINAGE PLAN		2435+00																			2441+49									
53	W1-STM-PRF-001		DRAINAGE PLAN AND PROFILE		2103+00																			2109+50									
54	W1-STM-PRF-002		DRAINAGE PLAN AND PROFILE		2109+50																			2115+50									
55	W1-STM-PRF-003		DRAINAGE PLAN AND PROFILE		2121+00																			2130+50									
56	W1-STM-PRF-004		DRAINAGE PLAN AND PROFILE		2130+50																			2135+50									
57	W1-STM-PRF-005		DRAINAGE PLAN AND PROFILE		2135+50																			2140+00									
58	W1-STM-PRF-006		DRAINAGE PLAN AND PROFILE TECHNOLOGY DR		120+00																			130+00									
59	W1-STM-PRF-007		DRAINAGE PLAN AND PROFILE		2140+55																			2147+50									
60	W1-STM-PRF-008		DRAINAGE PLAN AND PROFILE		2168+00																			2172+50									
61	W2-STM-PRF-001		DRAINAGE PLAN AND PROFILE		2240+75																			2243+50									
62	W2-STM-PRF-002		DRAINAGE PLAN AND PROFILE 70TH ST		303+00																			305+50									
63	W2-STM-PRF-003		DRAINAGE PLAN AND PROFILE		2243+50																			2248+50									
64	W2-STM-PRF-004		DRAINAGE PLAN AND PROFILE		2249+50																			2255+00									
65	W2-STM-PRF-005		DRAINAGE PLAN AND PROFILE		2258+00																			2264+50									
66	W2-STM-PRF-006		DRAINAGE PLAN AND PROFILE		2273+00																			2278+50									
67	W2-STM-PRF-007		DRAINAGE PLAN AND PROFILE		2278+50																			2283+00									
68	W2-STM-PRF-008		DRAINAGE PLAN AND PROFILE		2289+50																			2295+00									
69	W2-STM-PRF-009		DRAINAGE PLAN AND PROFILE W 62ND ST		122+42																			127+20									
70	W2-STM-PRF-010		DRAINAGE PLAN AND PROFILE W 62ND ST		117+00																			122+42									
71	W2-STM-PRF-011		DRAINAGE PLAN AND PROFILE		2304+75																			2306+25									
72	W2-STM-PRF-012		DRAINAGE PLAN AND PROFILE		2299+00																			2303+00									
NO.			DATE			BY			CHECK			DESIGN			REVISION / SUBMITTAL			AECOM METROPOLITAN C O U N C I L SOUTHWEST Green Line LRT Extension			SHEET 2 OF 96												

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CIVIL WEST - VOLUME 8 GENERAL KEY MAP		SHEET 3 OF 96
DISCIPLINE: GENERAL	SHEET NAME: W0-GEN-KEY - 001	

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TRACK LINETYPES

- ROADWAY
- TRACK (LRT)
- TRACK (FRT)
- RETAINING WALL
- BALLAST CURB
- TUNNEL WALL
- FENCE
- EX ROW
- PROP ROW
- PROP TCE
- PROP PE
- FENCE / RAILING
- ID ID INTRUSION DETECTION

CIVIL LINETYPES

- ROADWAY
- TRACK (LRT)
- TRACK (FRT)
- RETAINING WALL
- BALLAST CURB
- TUNNEL WALL
- CONCRETE CURB AND GUTTER
- TRAIL
- SIDEWALK
- DRIVEWAY
- BRIDGE
- SAWCUT
- FENCE
- DELINEATED WETLAND
- WATER EDGE
- EX ROW
- PROP ROW
- PROP TCE
- PROP PE
- CROSSWALK
- STOP BAR
- MEDIAN NOSE

TRACK SYMBOLS

- PROPOSED DIRECTIONAL LANE USE
- EXISTING DIRECTIONAL LANE USE
- PEDESTRIAN FLASHER
- AUTOMATIC GATE
- RAIL TURNOUT
- RAIL CROSSOVER (DOUBLE)
- RAIL CROSSOVER (SINGLE)
- POINT OF SWITCH (PS)
- OCS POLE FOUNDATION
- RAIL LUBRICATOR
- POINT OF INTERSECTION (PI) OF TURNOUT (TO)
- RAILROAD CURVE NUMBER

NOTE:
ALL TURNOUTS AND CROSSOVERS TO BE EQUIPPED WITH POWER
SWITCH MACHINES AND SWITCH HEATERS

CIVIL SYMBOLS

- ACCESSIBLE PEDESTRIAN CURB RAMP (DESIGN VARIES)
- PROPOSED DIRECTIONAL LANE USE
- EXISTING DIRECTIONAL LANE USE
- AUTOMATIC GATE
- HANDICAP PARKING STALL
- TACTILE WARNING STRIP
- TPSS BUILDING (TPSS-SW###)
- SIGNAL OR INTERMEDIATE OR PLATFORM OR XING OR TUNNEL HOUSE OR ANY COMBINATION OF THESE

SURVEY NOTES

- THE HORIZONTAL DATUM OF THIS MAP IS BASED ON THE HENNEPIN COUNTY COORDINATE SYSTEM WHICH IS RELATED TO THE MINNESOTA STATE PLANE COORDINATE SYSTEM NAD 83 (2007) ADJUSTMENT SOUTH ZONE.
- THE PLANIMETRIC FEATURES SHOWN ON THIS MAP ARE AS PREPARED BY AERO-METRIC, INC. FROM AERIAL DATA AND IMAGERY COLLECTED IN APRIL 2012, AS SUPPLEMENTED BY FIELD SURVEYS COMPLETED BY RANI ENGINEERING.
- HORIZONTAL POSITIONAL ACCURACY: USING THE NATIONAL STANDARD FOR SPATIAL DATA ACCURACY, THE DATA SET TESTED 0.14 FEET HORIZONTAL ACCURACY AT A 95% CONFIDENCE LEVEL.
- VERTICAL POSITIONAL ACCURACY: USING THE NATIONAL STANDARD FOR SPATIAL DATA ACCURACY, THE DATA SET TESTED 0.10 FEET VERTICAL ACCURACY AT 95% CONFIDENCE LEVEL.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



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CIVIL WEST - VOLUME 8
GENERAL
LEGEND AND ABBREVIATIONS
SHEET 1

DISCIPLINE: GENERAL

SHEET NAME: W0-GEN-NTS - 001

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ABBREVIATIONS

AD	ALGEBRAIC DIFFERENCE
AVE	AVENUE
BGN	BEGIN
BP	BEGINNING POINT
BVCE	BEGINNING VERTICAL CURVE ELEVATION
BVCS	BEGINNING VERTICAL CURVE STATION
BLVD	BOULEVARD
BNSF	BURLINGTON NORTHERN SANTA FE RAILWAY
C&G	CURB AND GUTTER
☉	CENTERLINE
CIR	CIRCLE
CP	CANADIAN PACIFIC
CPRAIL	CANADIAN PACIFIC RAILWAY
CS	CURVE TO SPIRAL
CSAH	COUNTY STATE AID HIGHWAY
D&U	DRAINAGE AND UTILITY
DF	DIRECT FIXATION
DR	DRIVE
DTL	DETAIL
DWY	DRIVEWAY
E	EAST
Ea	ACTUAL SUPERELEVATION (INCHES)
EB	EAST BOUND
EL or ELEV	ELEVATION
EP	END POINT
ESMT	EASEMENT
Eu	UNBALANCED SUPERELEVATION (INCHES)
EVCE	ENDING VERTICAL CURVE ELEVATION
EVCS	ENDING VERTICAL CURVE STATION
EX	EXISTING
HCRRRA	HENNEPIN COUNTY REGIONAL RAILROAD AUTHORITY
LH	LEFT HAND
LN	LANE
LRT	LIGHT RAIL TRANSIT
Lc	CURVE LENGTH (FEET)
Ls	SPIRAL LENGTH (FEET)
MIN	MINIMUM
MPH	MILES PER HOUR
MPLS	CITY OF MINNEAPOLIS
MPRB	MINNEAPOLIS PARK AND RECREATION BOARD
N	NORTH
NB	NORTH BOUND
NIC	NOT IN CONTRACT
NO	NUMBER
OMF	OPERATIONS AND MAINTENANCE FACILITY
OCS	OVERHEAD CONTACT SYSTEM
OH	OVERHEAD
PC	POINT OF CURVE
PE	PERMANENT EASEMENT
PITO	POINT OF INTERSECTION OF TURNOUT
PKWY	PARKWAY
POT	POINT ON TANGENT
PROP	PROPOSED
PS	POINT OF SWITCH
PT	POINT OF TANGENT
PVI	POINT OF VERTICAL INTERSECTION
R	RADIUS (FEET)
RD	ROAD
RL	RAIL LUBRICATOR
r	RATE OF CHANGE VERTICAL CURVE
RH	RIGHT HAND
ROW	RIGHT OF WAY
S	SOUTH
SB	SOUTH BOUND
SC	SPIRAL TO CURVE
SIG-COMM	SIGNAL COMMUNICATION
ST	STREET
ST	SPIRAL TO TANGENT
STA	STATION
TCE	TEMPORARY CONSTRUCTION EASEMENT
TH	TRUNK HIGHWAY
THRU	THROUGH
TOR	TOP OF RAIL
TPSS	TRACTION POWER SUBSTATION
TRK	TRACK
TS	TANGENT TO SPIRAL
TYP	TYPICAL
UG	UNDERGROUND
V	DESIGN VELOCITY (MPH)
VC	VERTICAL CURVE
W	WEST
WB	WEST BOUND

TRAIL INDEX

ABBREVIATED NAME	FULL NAME / LOCATION
TRAIL 1	UNDER RED CIRCLE DR, LRT, AND YELLOW CIRCLE DR
TRAIL 2	FROM TRAIL 1 TO GREEN CIRCLE DR
TRAIL 3	OPUS STATION ACCESS FROM BREN RD E
TRAIL 4	FROM BREN RD W TO TRAIL 5
TRAIL 5	FROM OPUS STATION TO GREEN CIRCLE DR
TRAIL 6	FROM TRAIL 5 TO SMETANA RD
CEDAR LAKE TRAIL	CEDAR LAKE LRT REGIONAL TRAIL/FROM SHADY OAK STATION TO 11TH AVE
CEDAR LAKE TRAIL	CEDAR LAKE LRT REGIONAL TRAIL/WEST OF EXCELSIOR
CEDAR LAKE TRAIL	CEDAR LAKE LRT REGIONAL LRT TRAIL/BETWEEN EXCELSIOR AND KENILWORTH TRAIL CONNECTION
MIDTOWN GREENWAY	MIDTOWN GREENWAY/EAST OF KENILWORTH TRAIL CONNECTION
TRAIL A	KENILWORTH TRAIL (SECONDARY)/BETWEEN CEDAR-ISLES CHANNEL AND 21ST STREET STATION
TRAIL B	KENILWORTH TRAIL (SECONDARY)/BETWEEN 21ST STREET STATION AND PENN STATION
TRAIL B	CEDAR LAKE TRAIL (SECONDARY)/EAST OF PENN STATION
TRAIL C	10' CONNECTOR TRAIL FROM CEDAR LAKE LRT REGIONAL TRAIL TO TYLER AVE.
TRAIL D	10' CONNECTOR TRAIL/BELTLINE STATION TO CEDAR LAKE LRT REGIONAL TRAIL
KENILWORTH TRAIL	KENILWORTH TRAIL (MAIN)/W LAKE ST TO PENN STATION
CEDAR LAKE TRAIL	CEDAR LAKE TRAIL (MAIN)/PENN STATION TO TH 394
TRAIL E	KENILWORTH TRAIL (SECONDARY)/EAST OF W LAKE ST
TRAIL F	KENILWORTH TRAIL (SECONDARY)/WEST OF CEDAR LAKE PKWY
TRAIL G	KENILWORTH TRAIL (SECONDARY)/WEST OF PENN STATION
TRAIL G	CEDAR LAKE TRAIL (SECONDARY)/EAST OF PENN STATION
TRAIL H	10' CONNECTOR TRAIL/EAST OF PENN STATION TO KENWOOD PKWY
TRAIL I	NOT USED
CEDAR LAKE TRAIL	CEDAR LAKE TRAIL (MAIN)/AT-GRADE CROSSING AT PENN STATION
TRAIL J	CEDAR LAKE TRAIL (SECONDARY)/NORTHWEST OF PENN STATION
TRAIL K	CEDAR LAKE TRAIL (SECONDARY)/NORTHWEST OF PENN STATION
TRAIL L	CEDAR LAKE TRAIL (SECONDARY)/EAST OF PENN STATION
TRAIL M	NOT USED
TRAIL N	8' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO EDGEBROOK DRIVE
TRAIL O	8' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO W LAKE STREET
TRAIL P	8' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO LOUISIANA AVE
TRAIL Q	10' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO TH 7 SERVICE ROAD
TRAIL R	20' CONNECTOR TRAIL FROM VAN WHITE STATION TO CEDAR LAKE TRAIL
TRAIL S	NOT USED
TRAIL T	8' CONNECTOR TRAIL FROM VAN WHITE STATION TO VAN WHITE MEMORIAL BLVD
TRAIL U	10' TRAIL PARALLEL TO CEDAR LAKE PKWY
LUCE LINE TRAIL	LUCE LINE REGIONAL TRAIL/ON BRIDGE OVER LIGHT RAIL
TRAIL V	CONNECTOR TRAIL TO LUCE LINE REGIONAL TRAIL WEST OF LIGHT RAIL
TRAIL W	CONNECTOR TRAIL TO LUCE LINE REGIONAL TRAIL WEST OF LIGHT RAIL

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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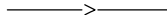
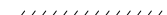
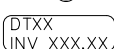
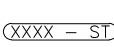


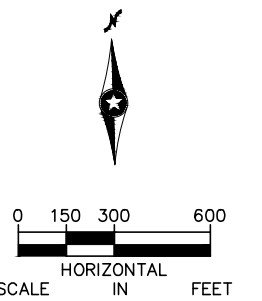
CIVIL WEST - VOLUME 8
GENERAL
LEGEND AND ABBREVIATIONS
SHEET 2

DISCIPLINE: GENERAL

SHEET NAME: W0-GEN-NTS - 002

Sep. 21 2015 09:07 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\STORM SEWER\W0-STM-NTS.dwg By: V-LucasBJ

LEGEND						DRAINAGE PLAN CONSTRUCTION & GENERAL NOTES		
DRAINAGE LINE TYPES			PROPOSED DRAINAGE SYMBOLS			① CONNECT INTO EXISTING DRAINAGE STRUCTURE, FIELD VERIFY. ② ADJUST RIM ELEVATION. ③ CONNECT TRACK SUBDRAIN. ④ CONSTRUCT STRUCTURE OVER EXISTING STORM PIPE. FIELD VERIFY PIPE ALIGNMENT AND INVERT ELEVATIONS. ⑤ REMOVE EXISTING CATCH BASIN. REMOVE EXISTING PIPE TO EXPOSE GROOVE END. CONNECT NEW PIPE BELL TO EXISTING GROOVE END, FIELD VERIFY. ⑥ CONNECT EXISTING STORM SEWER SERVICE LEADS TO MANHOLE, FIELD VERIFY. ⑦ REPLACE CASTING, FIELD VERIFY. ⑧ CONNECTION OF RETAINING WALL DRAIN TO DRAINAGE STRUCTURE. ⑨ CONNECT TO EXISTING STORM SEWER, FIELD VERIFY. ⑩ CONNECT PVC SDR 26 TO EXISTING STORM SEWER SERVICE. ⑪ STATION PLATFORM DRAINAGE OUTLET. ⑫ TRACK DRAIN FOR TRACK CROSSING AND SWITCH BOXES. ⑬ SPECIAL SUBDRAIN PROFILE AT THIS LOCATION. ⑭ BYPASS OF TRACK SUBDRAIN AT OCS POLE LOCATION. ⑮ SUBDRAIN CLEANOUT. NOTE: SEE UTILITIES PLANS FOR UTILITY LEGEND.		
	STORM SEWER			STORM SEWER MANHOLE				
	CASING PIPE			STORM SEWER CATCH BASIN				
	DELINEATED WETLAND			STORM SEWER FLARED END SECTION				
	PIPE REMOVAL			STORM SEWER CLEAN-OUT				
	STRUCTURE REMOVAL			STORM SEWER PUMP STATION				
	PROPOSED BMP			DRAINTILE ID				
	PROPOSED FLOODPLAIN MITIGATION AREA			STORM SEWER STRUCTURE ID				
EP-EP-18	WETLAND ID							
						1. REFER TO THE ROADWAY PLAN FOR GEOMETRICS, DIMENSIONS, PAVEMENT SPECIFICATIONS, DETAILS, STRIPING, AND OTHER SITE FEATURES. 2. PERFORM ALL UTILITY WORK IN ACCORDANCE WITH STATE AND CITY REQUIREMENTS. 3. TESTING AND INSPECTIONS: ALL PLUMBING INSTALLATIONS, INCLUDING SEWER SERVICES, MUST BE TESTED AND INSPECTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MINNESOTA PLUMBING CODE (MINNESOTA RULES CHAPTER 4715). COORDINATE TESTING AND INSPECTION WITH THE DEPARTMENT OF LABOR AND INDUSTRY AND THE CITY PUBLIC WORKS DEPARTMENT. NO DRAINAGE OR PLUMBING WORK MAY BE COVERED PRIOR TO COMPLETING THE REQUIRED TESTS AND INSPECTIONS. THE CONTRACTOR SHALL ASSIST THE ENGINEER TO INSPECT FOR ACCEPTANCE AND RECORD LOCATIONS OF ALL STORM SEWER SERVICE LEADS BEFORE BACKFILLING. 4. PERFORM TRENCH EXCAVATIONS FOR ALL UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS OF O.S.H.A. 29 CFR, PART 1926. SUBPART P, EXCAVATIONS (WWW.OSHA.GOV). 5. COORDINATE BUILDING UTILITY CONNECTION WITH THE PROPERTY OWNER PRIOR TO CONSTRUCTION. VERIFY SEWER SERVICE LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION. 6. SUPPORT ALL IN-PLACE UTILITIES DURING EXCAVATION AND CONSTRUCTION OF THE PROPOSED UTILITY. 7. ADJUST ALL MAINTENANCE MANHOLE CASTINGS, CATCH BASIN CASTINGS, CLEANOUT COVERS, AND SIMILAR ITEMS TO ELEVATION 1/4" BELOW FINISHED GRADE. 8. INSTALL ALL PIPE WITH THE ASTM IDENTIFICATION NUMBERS ON THE TOP FOR INSPECTION. COMMENCE PIPE LAYING AT THE LOWEST POINT IN THE PROPOSED SEWER LINE. LAY THE PIPE WITH THE BELL END OR RECEIVING GROOVE END OF THE PIPE POINTING UPGRADE. WHEN CONNECTING TO AN EXISTING PIPE, UNCOVER THE EXISTING PIPE IN ORDER TO ALLOW ANY ADJUSTMENTS IN THE PROPOSED LINE AND GRADE BEFORE LAYING ANY PIPE. 9. ABANDONING EXISTING SEWER SERVICE OR MAKING NEW CONNECTIONS TO CITY SEWER MUST BE DONE TO CITY STANDARDS BY A LICENSED CONTRACTOR UNDER A PERMIT FROM PUBLIC WORKS SEWER SECTION. 10. CONTACT PRIVATE PROPERTY OWNERS TO OBTAIN APPROVAL OF THE PROPOSED PRIVATE STORM SERVICE LEAD RELOCATION OR RECONNECTION. 11. CONNECT TO EXISTING STORM SEWER MANHOLES BY EITHER SAWCUTTING OR CORE DRILLING. USE SAWS OR DRILLS THAT PROVIDE WATER TO THE BLADE. MEET ALL CITY STANDARDS AND SPECIFICATIONS FOR THE CONNECTION. RECONSTRUCT INVERTS AFTER INSTALLATION. USE WATER STOP GASKETS IN ORDER TO PROVIDE WATERTIGHT SEALS WHEN PENETRATING A STRUCTURE WALL WITH A PIPE. TAKE MEASUREMENTS BEFORE BEGINNING CONSTRUCTION TO ENSURE THAT SERVICE CONNECTIONS DO NOT CUT INTO MAINTENANCE ACCESS STRUCTURE JOINTS OR PIPE BARREL JOINTS. 12. PROVIDE AND MAINTAIN TEMPORARY DRAINAGE THROUGHOUT CONSTRUCTION UNTIL THE PERMANENT DRAINAGE SYSTEM AND STRUCTURES ARE IN PLACE AND OPERATIONAL. INSTALL TEMPORARY DITCHES, PIPING, PUMPS, OR OTHER MEANS AS NECESSARY IN ORDER TO INSURE PROPER DRAINAGE AT ALL TIMES. PROVIDE LOW POINTS IN ROADWAYS WITH POSITIVE OUTFALLS. 13. UPON COMPLETION OF STORM SEWER INSTALLATION, STORM SEWER INLETS SHALL BE PROTECTED FROM SEDIMENT BY SILT FENCE, HAY BALES, OR EQUIVALENT MEASURES. PROTECTION SHALL REMAIN IN PLACE UNTIL BITUMINOUS AREAS HAVE BEEN PAVED AND LAWN AREAS HAVE BEEN ESTABLISHED. 14. USE CLASS V FOR ALL RCP UNLESS OTHERWISE NOTED. 15. REFER TO SYSTEM PLANS FOR RAIL ACCESS BOX INSTALLATION DETAILS. 16. COORDINATE SUBDRAIN CONSTRUCTION WITH SYSTEMS GROUND RODS/WIRE, SIGNAL SYSTEMS, TRACK DEVICES, AND OTHER SYSTEMS UTILITIES TO AVOID CONFLICT. 17. SEE UTILITY PLANS AND TABS FOR UTILITY CROSSINGS.		
						CIVIL WEST - VOLUME 8 DRAINAGE NOTES, ABBREVIATIONS & SYMBOLS DISCIPLINE: DRAINAGE SHEET NAME: W0-STM-NTS-001		
						60% SUBMISSION - 09/28/15		
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[illegible]

METROPOLITAN
COUNCIL

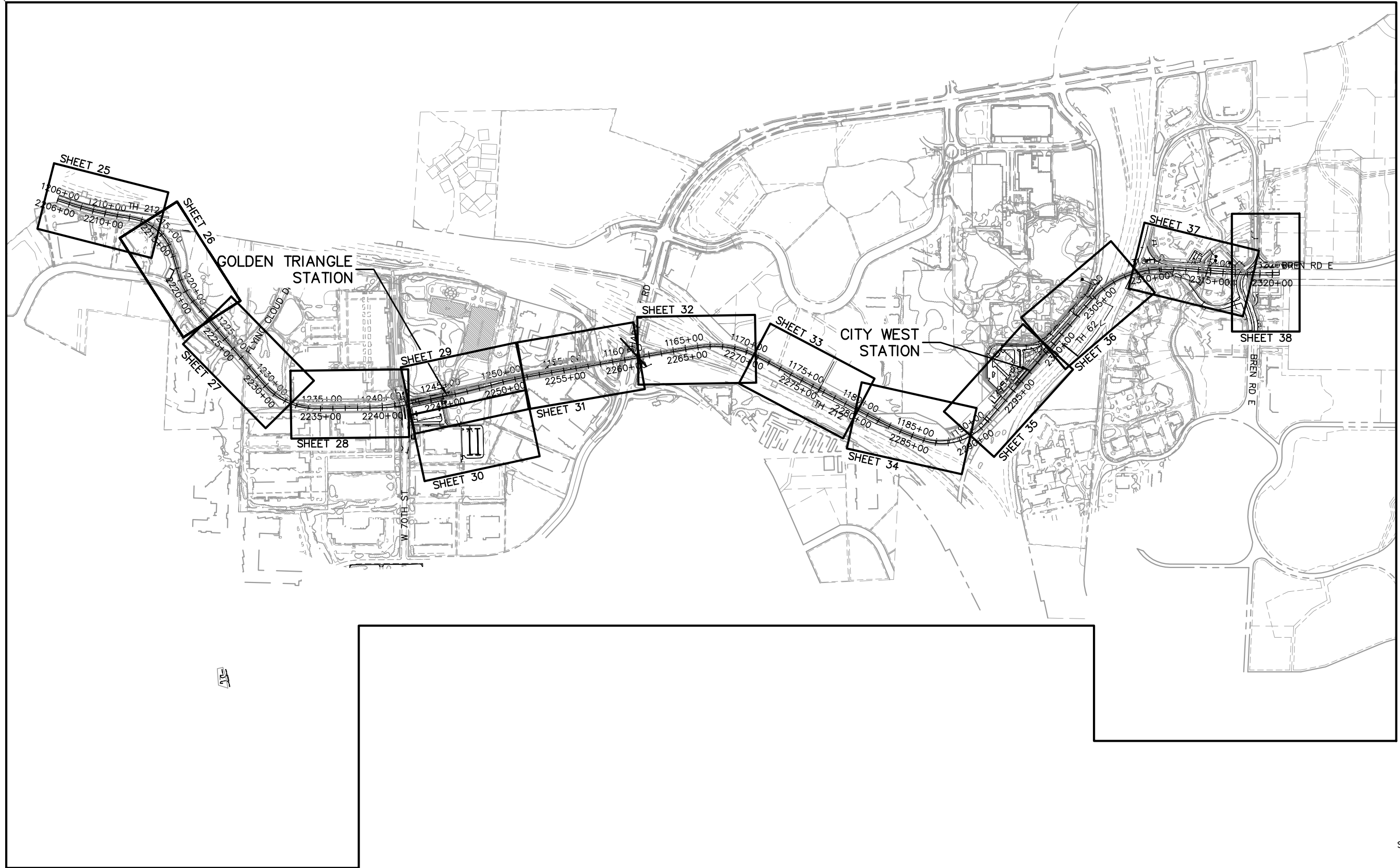


**CIVIL WEST - VOLUME 8
DRAINAGE
PLAN SHEET LAYOUT
SHEET 1**

DISCIPLINE: **DRAINAGE**

SHEET NAME:	W1-STM-LAY-001
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Sep. 21 2015 09:17 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\STORM SEWER\W2-STM-IDX.dwg By: V-LucasBJ



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

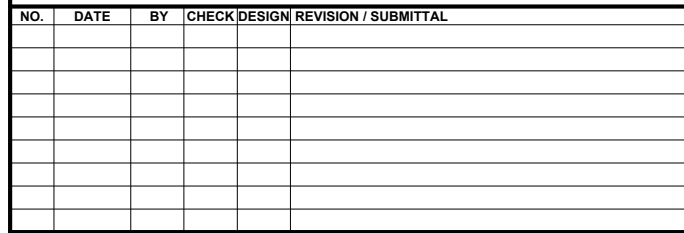




60% SUBMISSION - 09/28/15

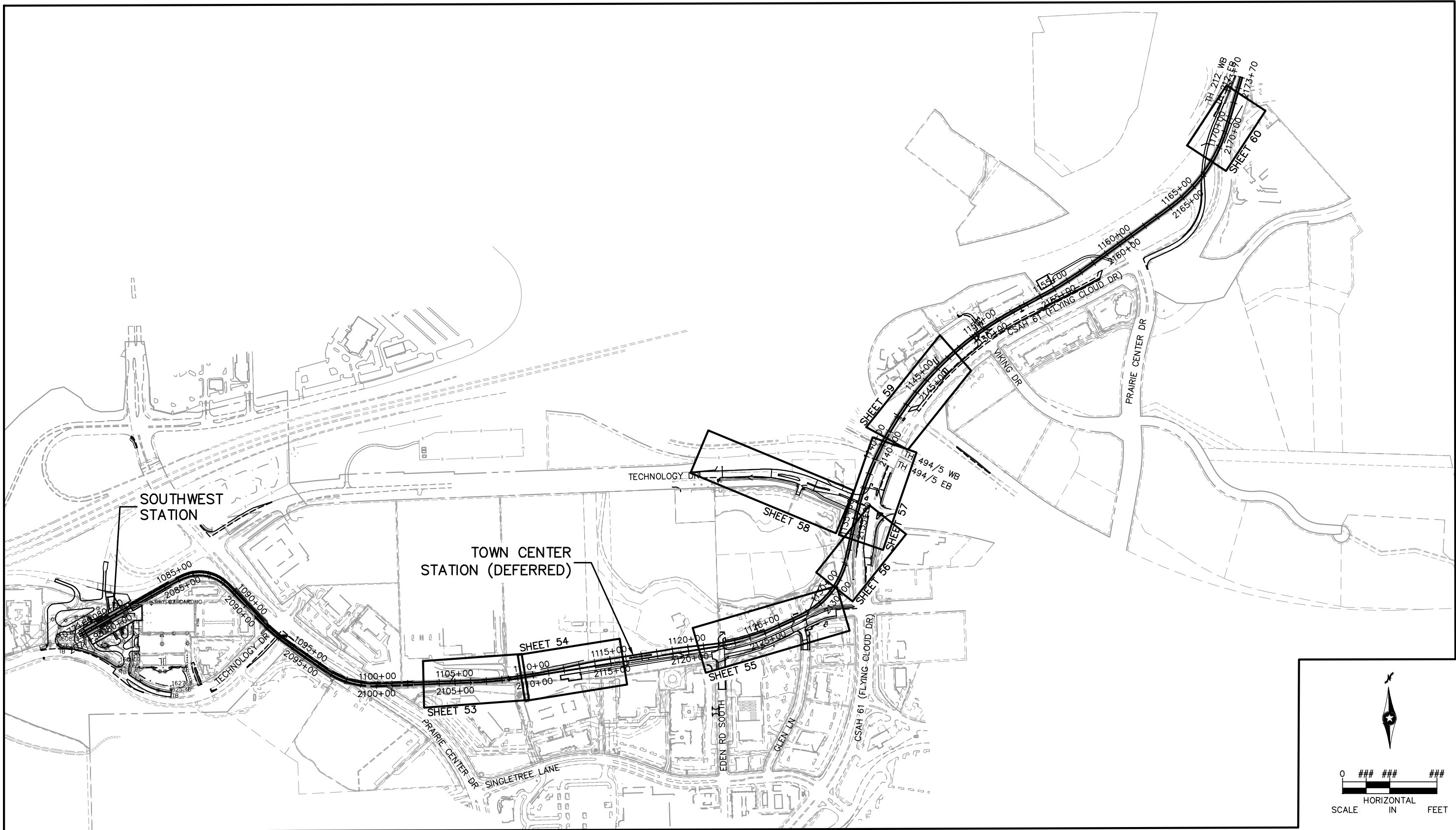
CIVIL WEST - VOLUME 8
DRAINAGE
PLAN SHEET LAYOUT
SHEET 2

DISCIPLINE: DRAINAGE
SHEET NAME: W2-STM-LAY-002



SHEET NAME:	W3-STM-LAY-003
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Sep. 21 2015 09:22 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM SEWER\W1-STM-IDX.dwg By: V-LucasBJ



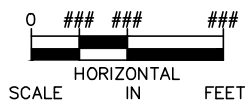
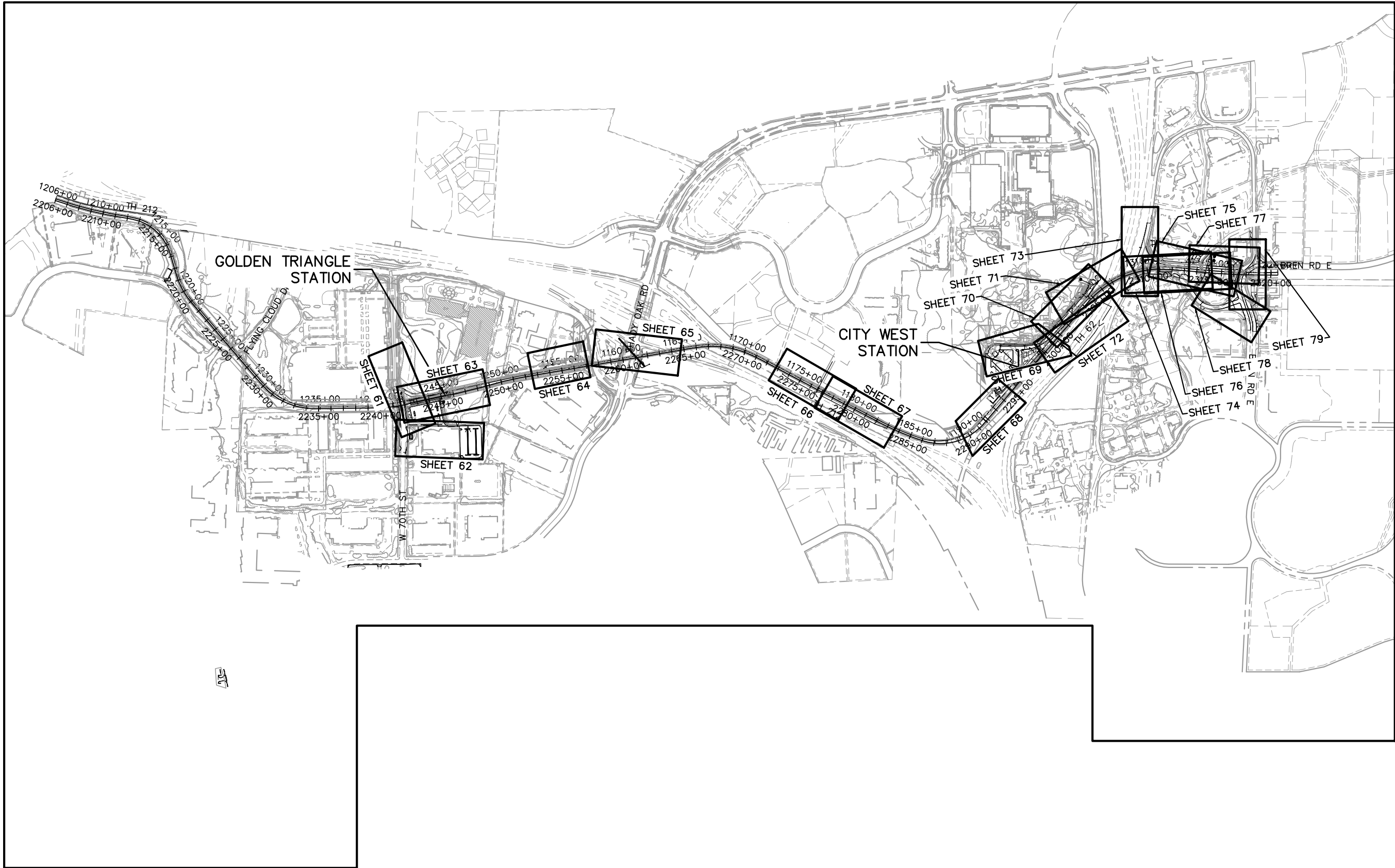
NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

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CIVIL WEST - VOLUME 8 DRAINAGE PROFILE SHEET LAYOUT SHEET 4	
DISCIPLINE: DRAINAGE	SHEET NAME: W1-STM-LAY-004

SHEET
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96

Sep. 21 2015 09:25 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM SEWER\W2-STM-IDX.dwg By: V-LucasBJ



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



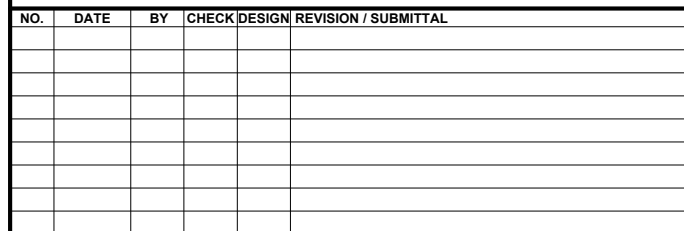


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CIVIL WEST - VOLUME 8
DRAINAGE
PROFILE SHEET LAYOUT
SHEET 5

DISCIPLINE: DRAINAGE
SHEET NAME: W2-STM-LAY-005

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SHEET NAME:	W3-STM-LAY-006
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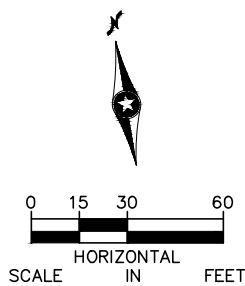
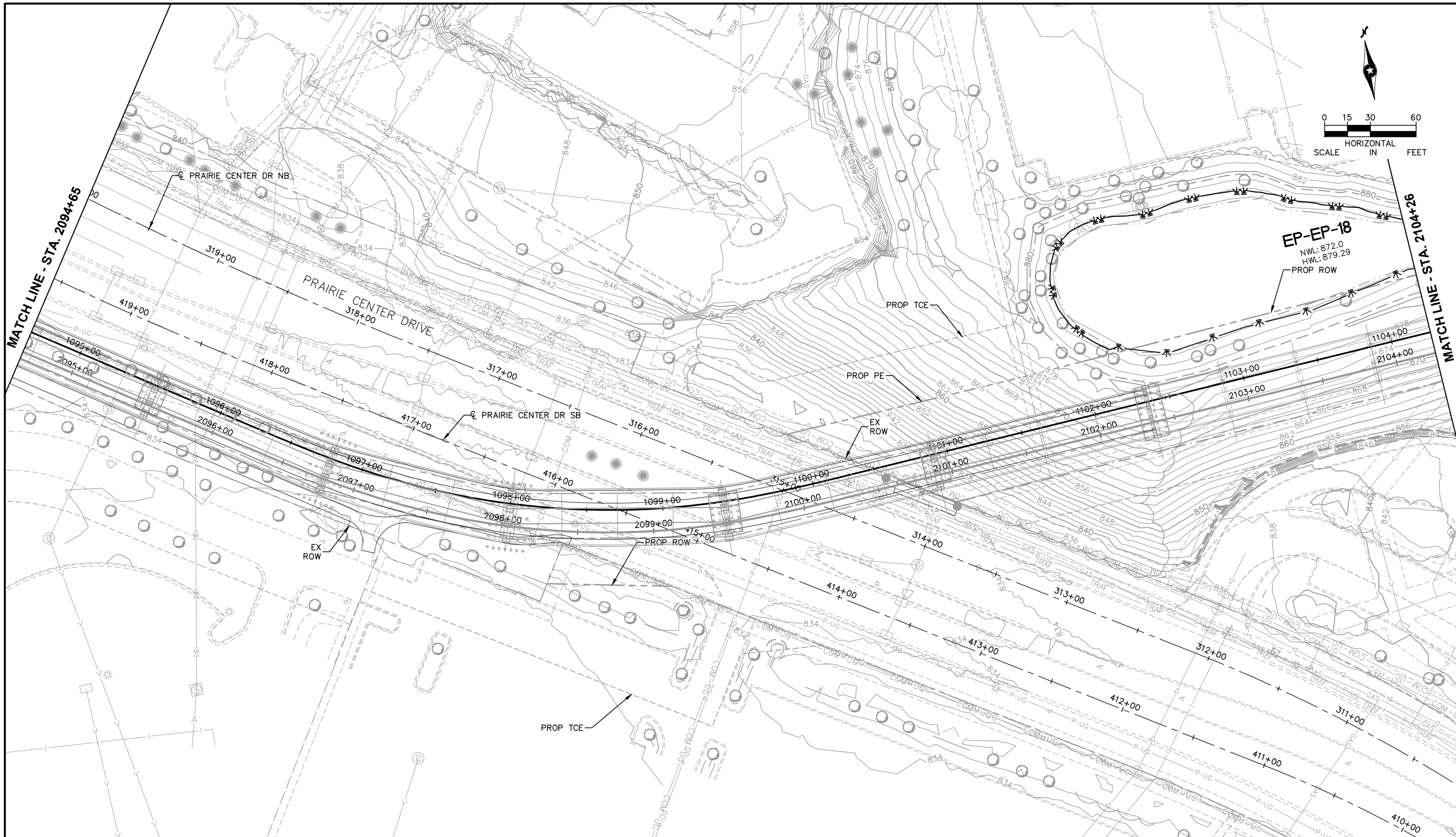


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN
TRACK STA. 2085+32 TO STA. 2094+65

DISCIPLINE: DRAINAGE SHEET NAME: W1-STM-PLN-002

SHEET
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OF
96

Sep. 21 2015 09:38 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM_SEWER\W1-STM-PLN.dwg By: V-LucasBJ



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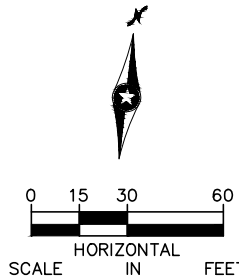
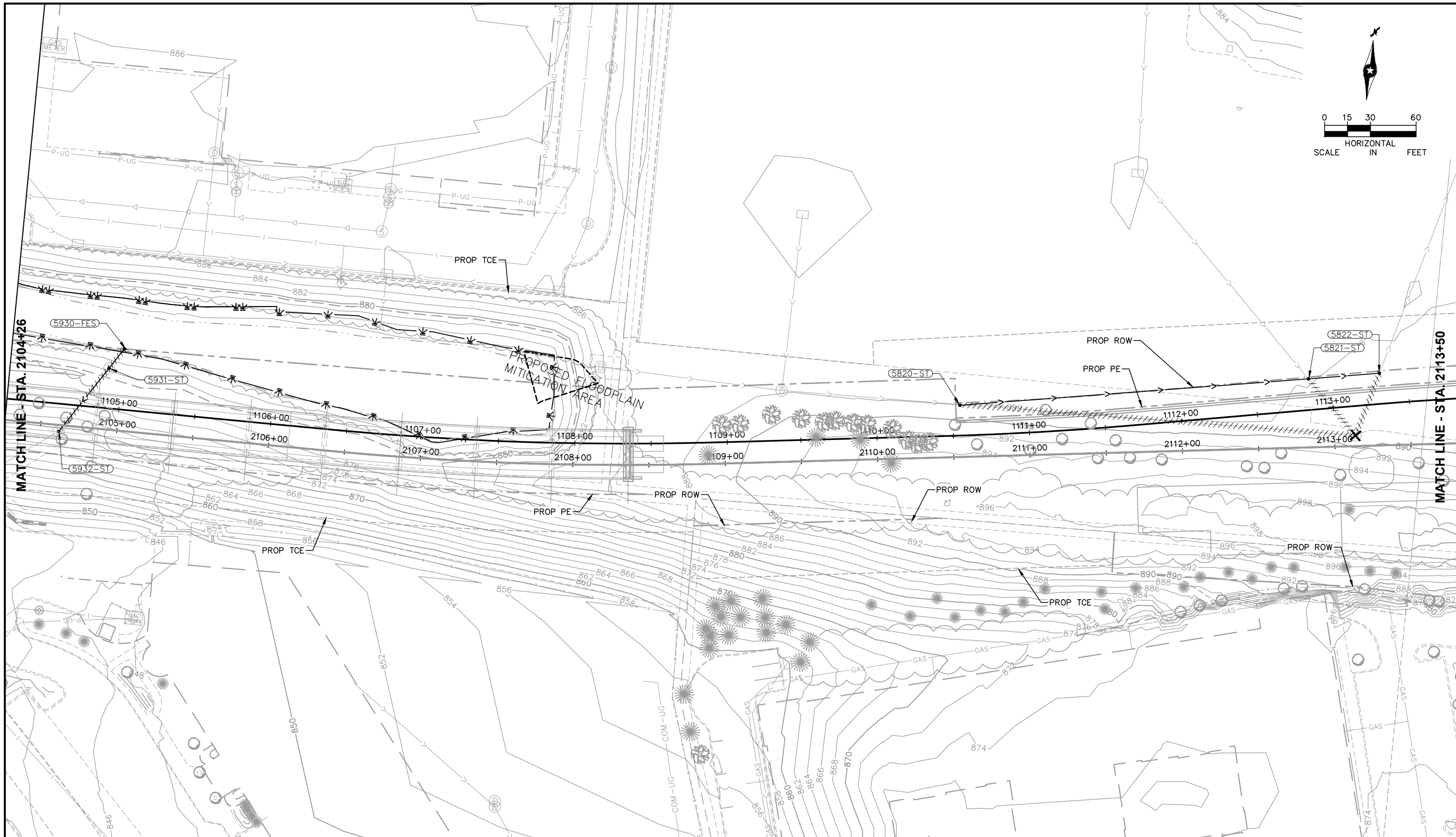


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN
TRACK STA. 2094+65 TO STA. 2104+26

DISCIPLINE: DRAINAGE
SHEET NAME: W1-STM-PLN-003

SHEET 15 OF 96

Sep. 21 2015 09:39 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM SEWER\W1-STM-PLN.dwg By: V-LucasBJ



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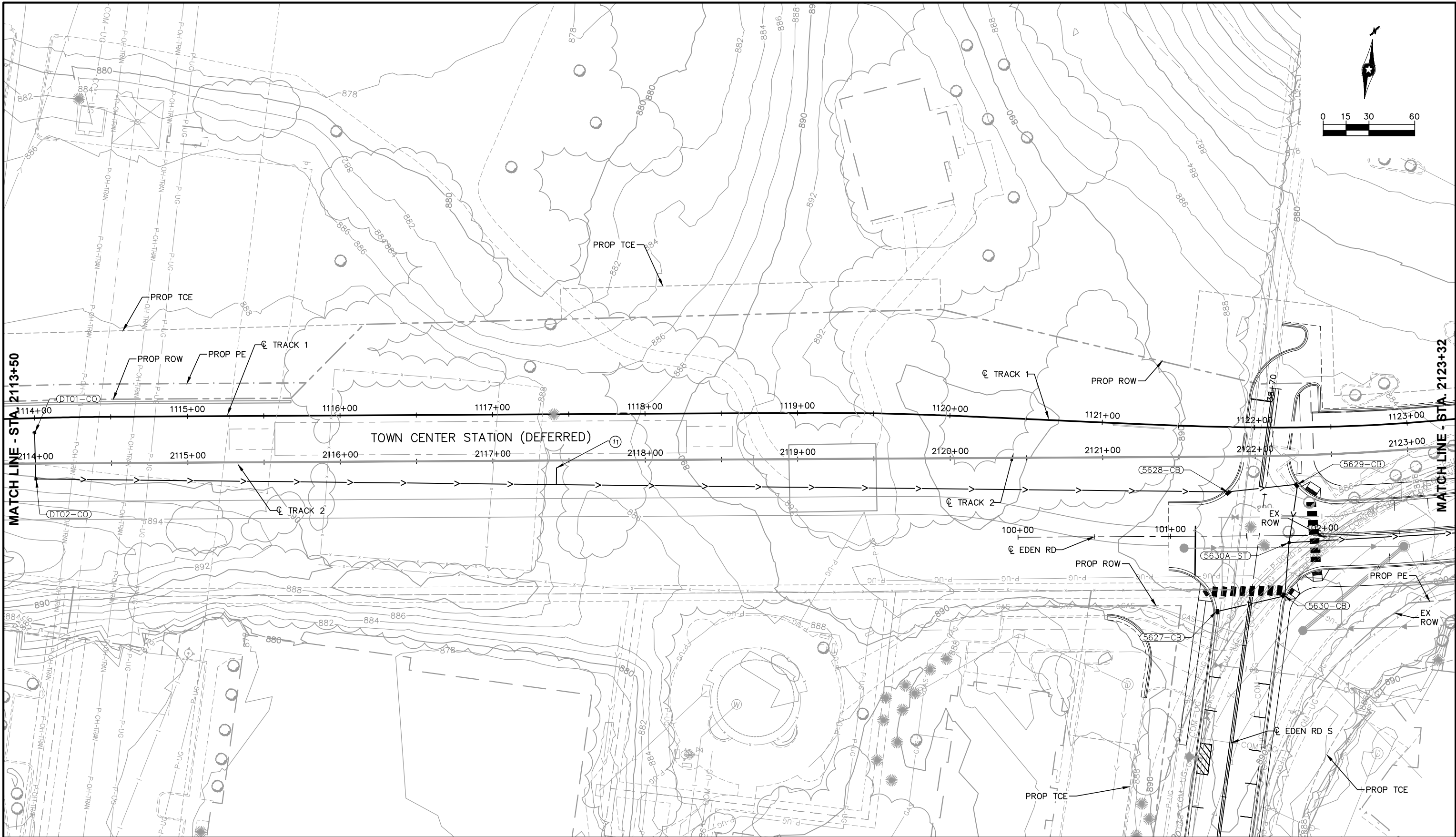


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN
TRACK STA. 2104+26 TO STA. 2113+50

DISCIPLINE: DRAINAGE
SHEET NAME: W1-STM-PLN-004

SHEET 16 OF 96

Sep. 21 2015 09:40 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM SEWER W1--STM--PLN.dwg By: V-LucasBJ



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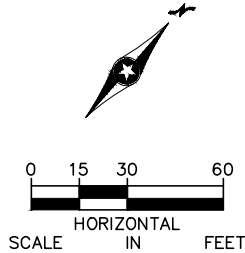
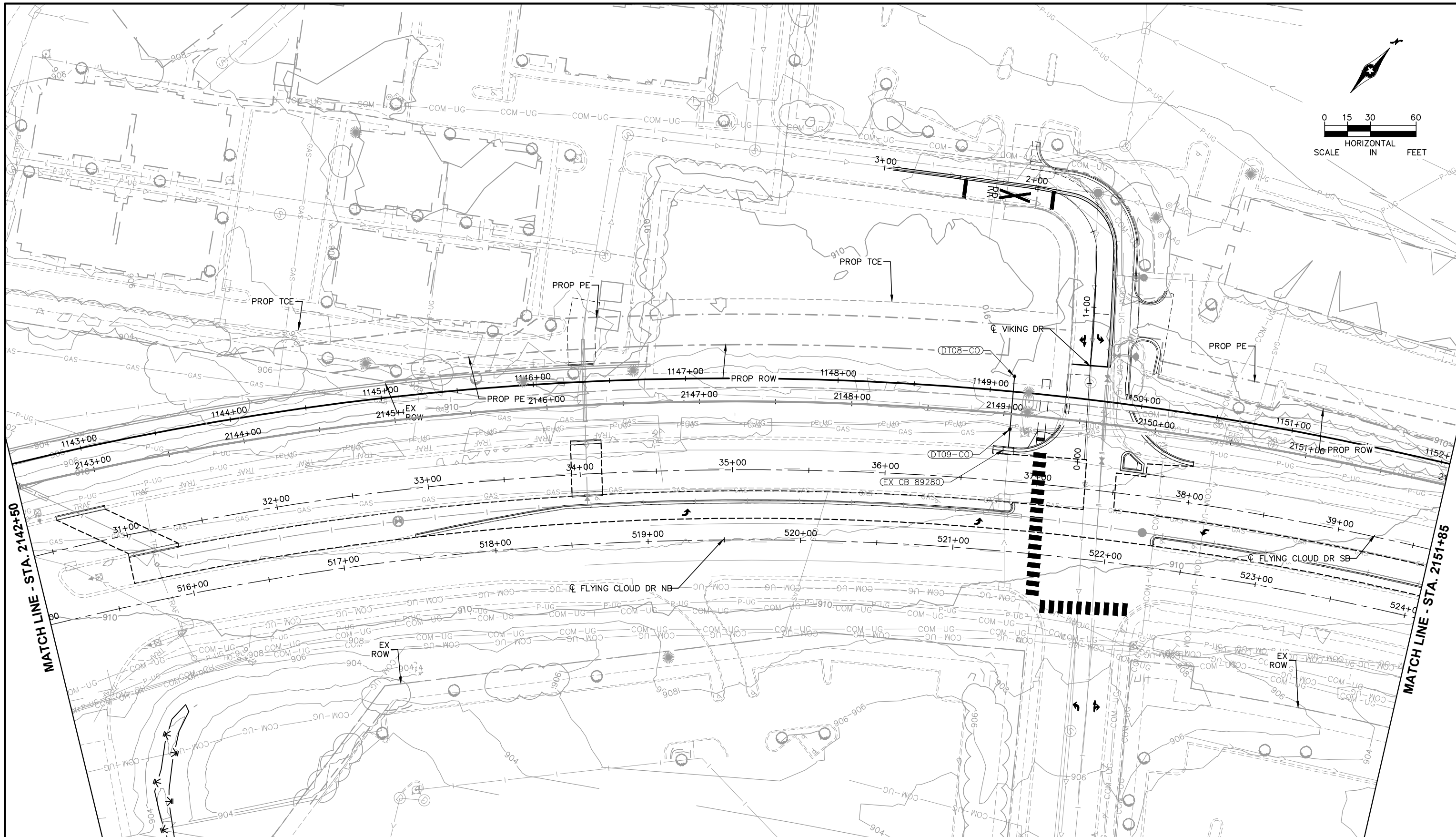


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN
TRACK STA. 2113+50 TO STA. 2123+32

DISCIPLINE: DRAINAGE
SHEET NAME: W1-STM-PLN-005

SHEET 17 OF 96

Sep. 21 2015 09:43 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM SEWER\W1-STM-PLN.dwg By: V-LucasBJ



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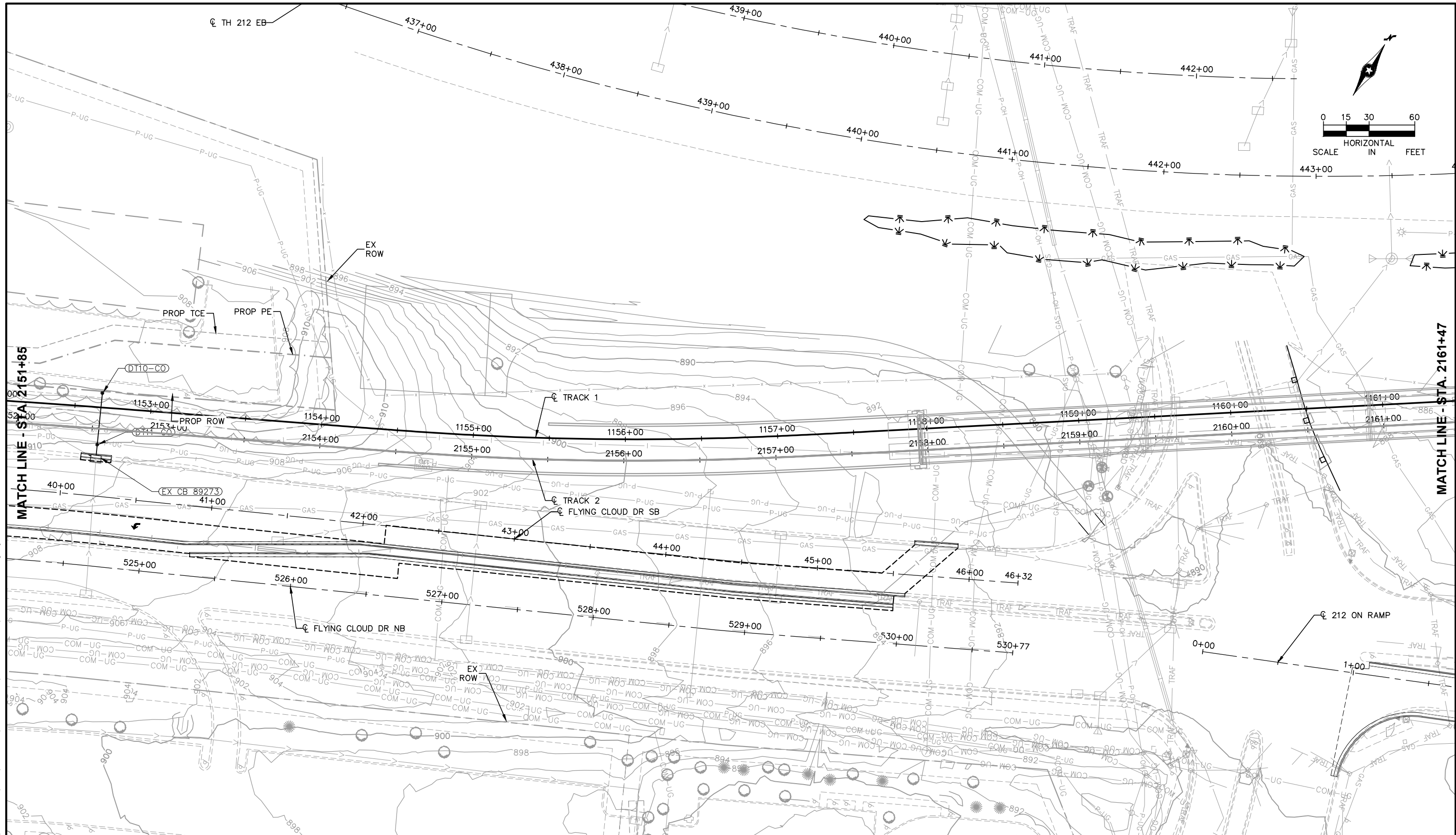


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN
TRACK STA. 2142+50 TO STA. 2151+85

DISCIPLINE: DRAINAGE
SHEET NAME: W1-STM-PLN-009

SHEET 21 OF 96

Sep. 21 2015 09:44 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM SEMER W1-STM-PLN.dwg By: V-LucasBJ



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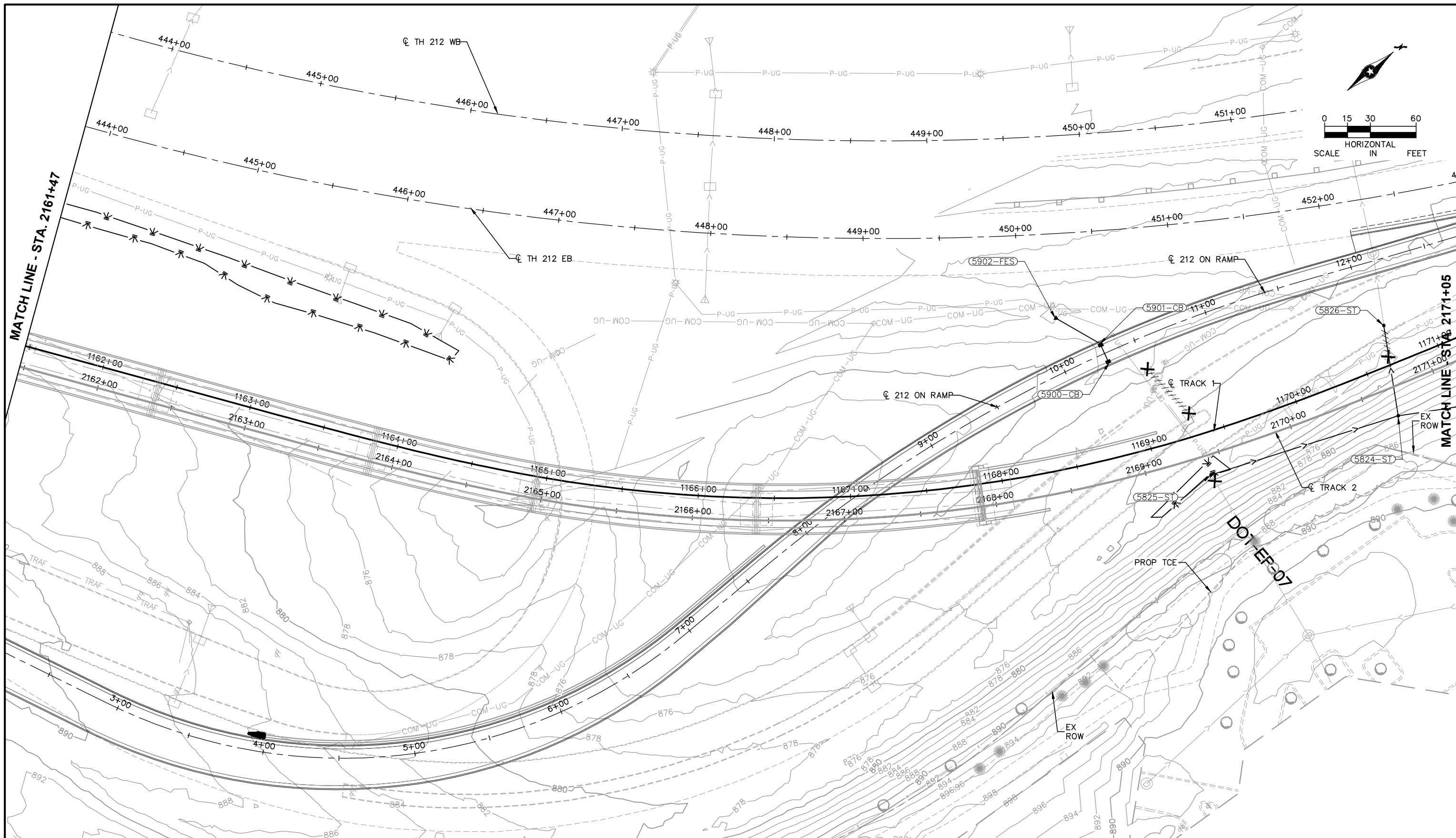


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN
TRACK STA. 2151+85 TO STA. 2161+47

DISCIPLINE: DRAINAGE
SHEET NAME: W1-STM-PLN-010

SHEET 22 OF 96

Sep. 21 2015 09:44 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM_SEWER\W1-STM-PLN.dwg By: V-LucasBJ



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

CIVIL WEST - VOLUME 8
DRAINAGE
PLAN
TRACK STA. 2161+47 TO STA. 2171+05

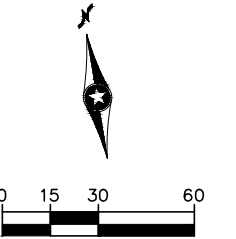
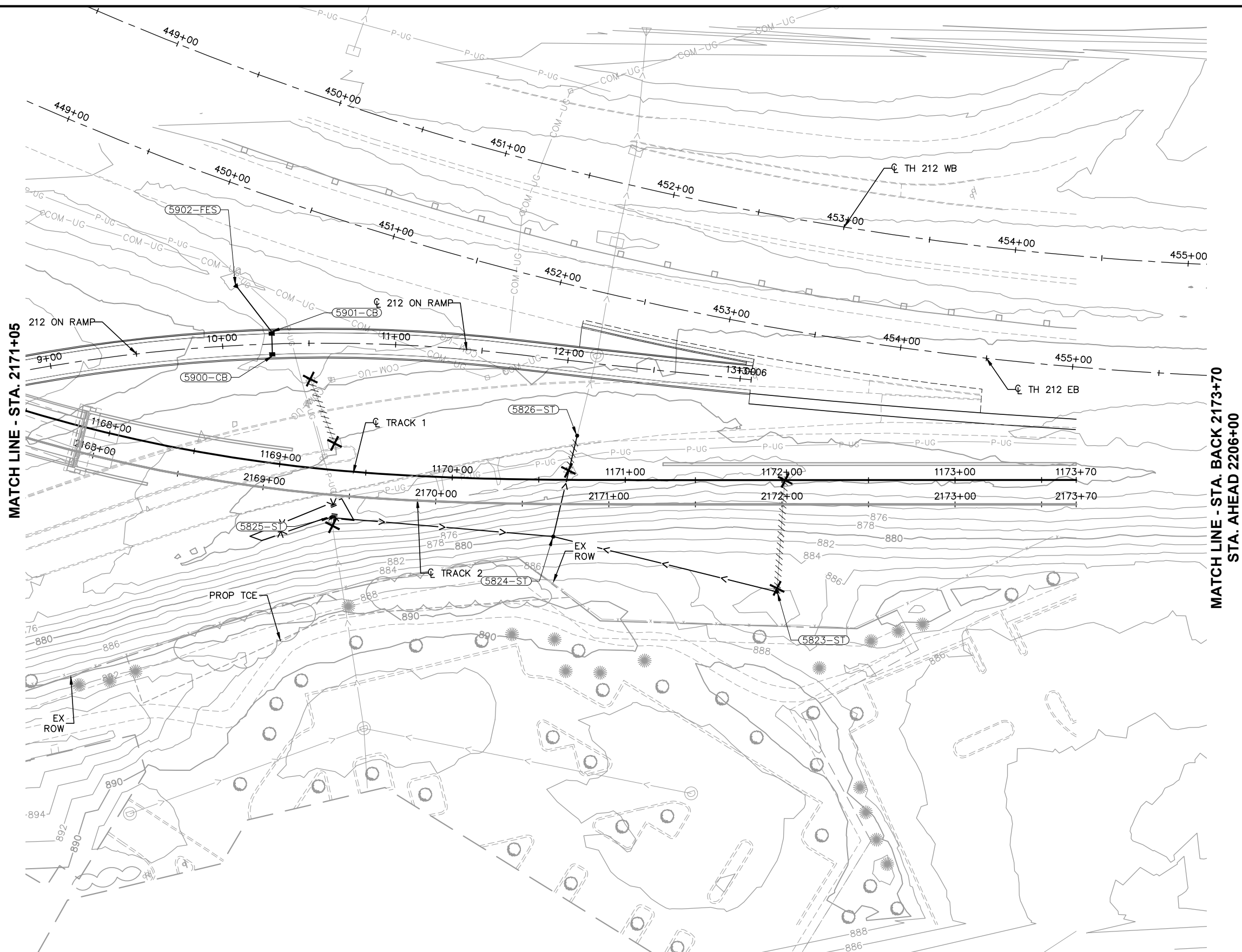
DISCIPLINE: DRAINAGE

SHEET NAME: W1-STM-PLN-011

SHEET 23
OF 96

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Sep. 21 2015 09:45 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM SEWER\W1-STM-PLN.dwg By: V-LucasBJ

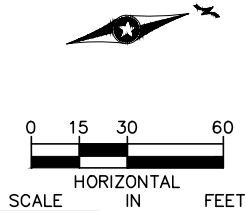
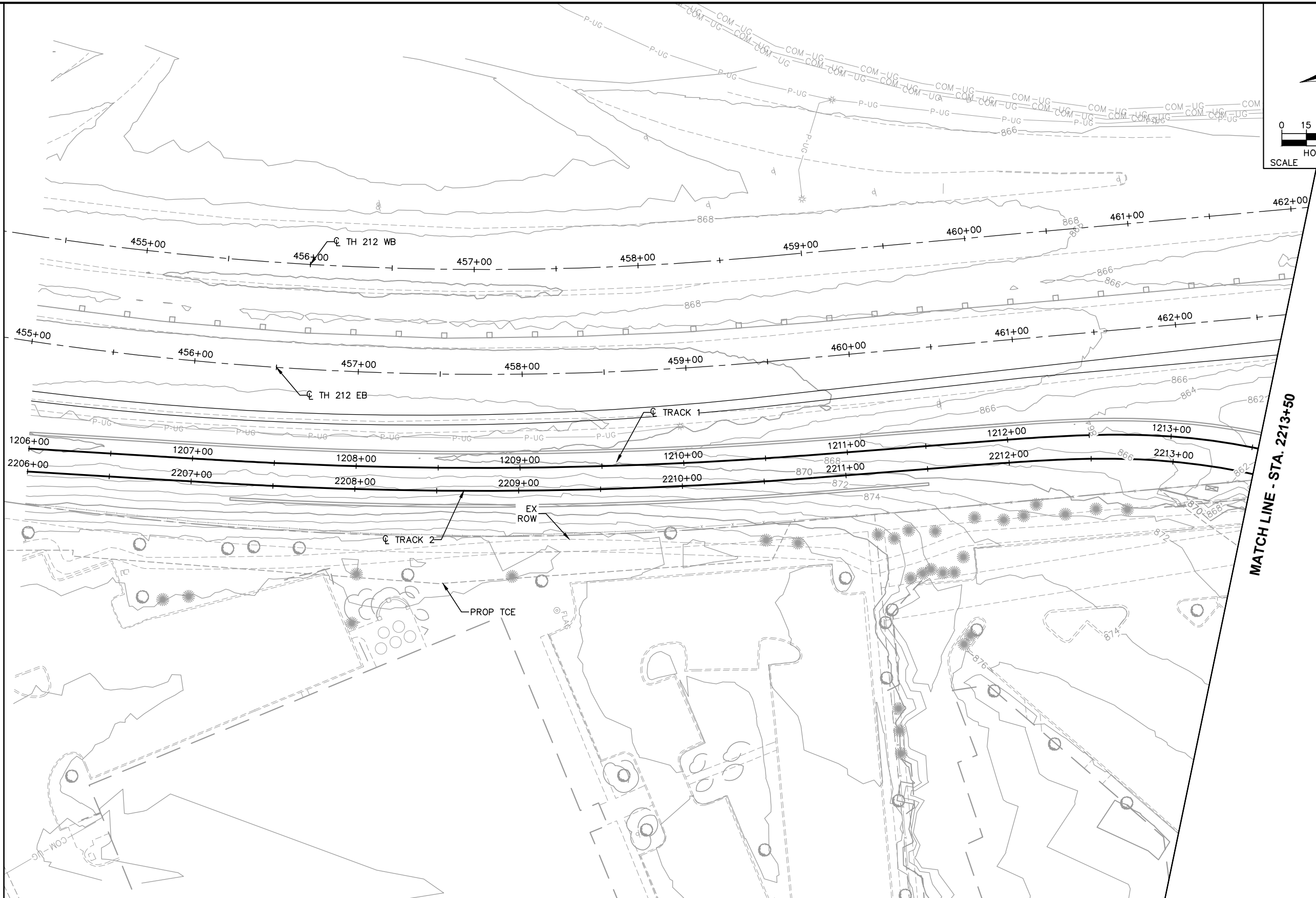


NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

				CIVIL WEST - VOLUME 8 DRAINAGE PLAN TRACK STA. 2171+05 TO STA. 2173+70		SHEET 24 OF 96
60% SUBMISSION - 09/28/15		DISCIPLINE: DRAINAGE		SHEET NAME: W1-STM-PLN-012		

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MATCH LINE - STA. BACK 2173+70
STA. AHEAD 2206+00



MATCH LINE - STA. 2213+50

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





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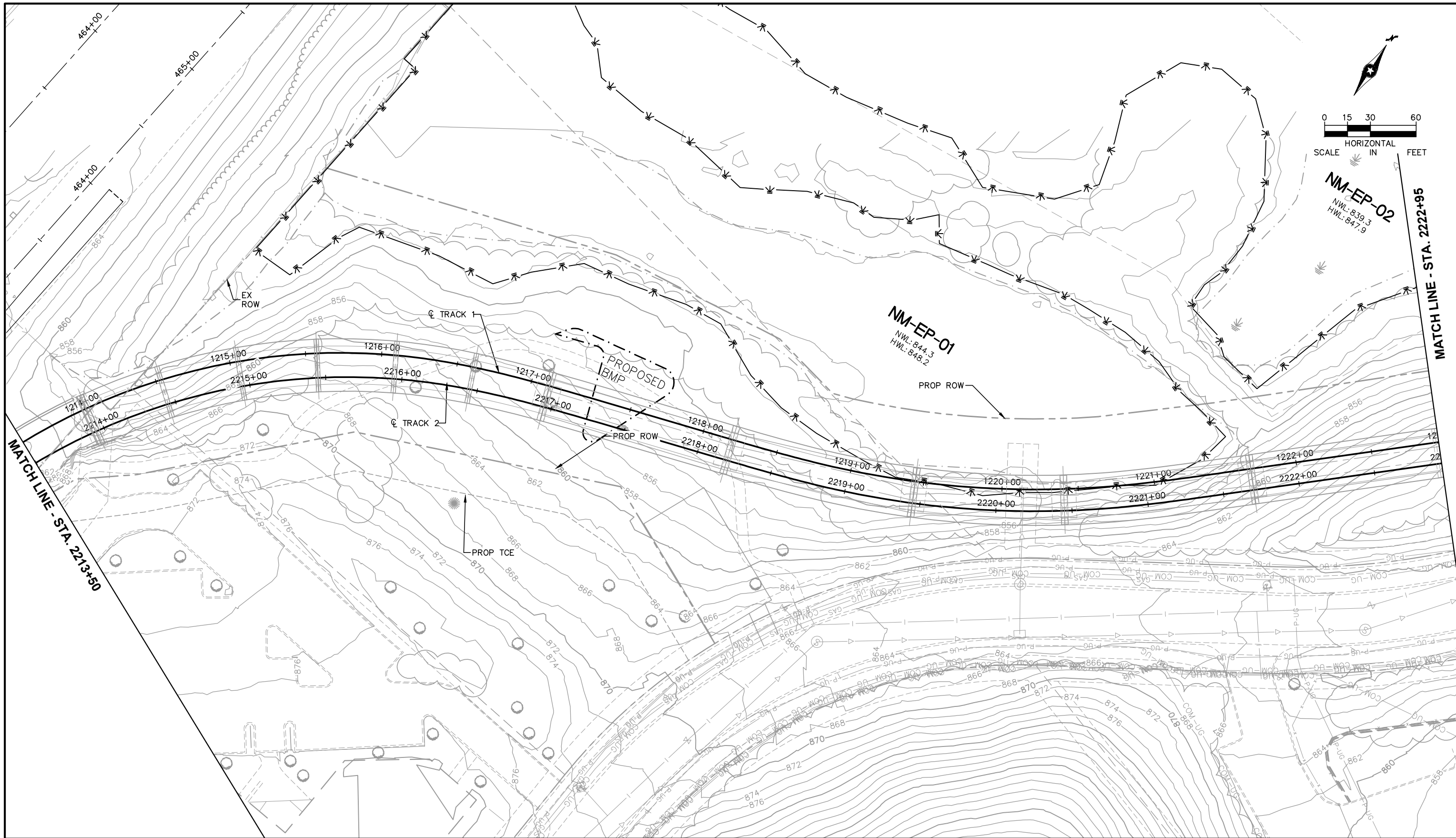


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN
TRACK STA. 2206+00 TO STA. 2213+50

DISCIPLINE: DRAINAGE
SHEET NAME: W2-STM-PLN-001

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Sep. 21 2015 09:52 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM_SEWER\W2-STM-PLN.dwg By: V-LucasBJ



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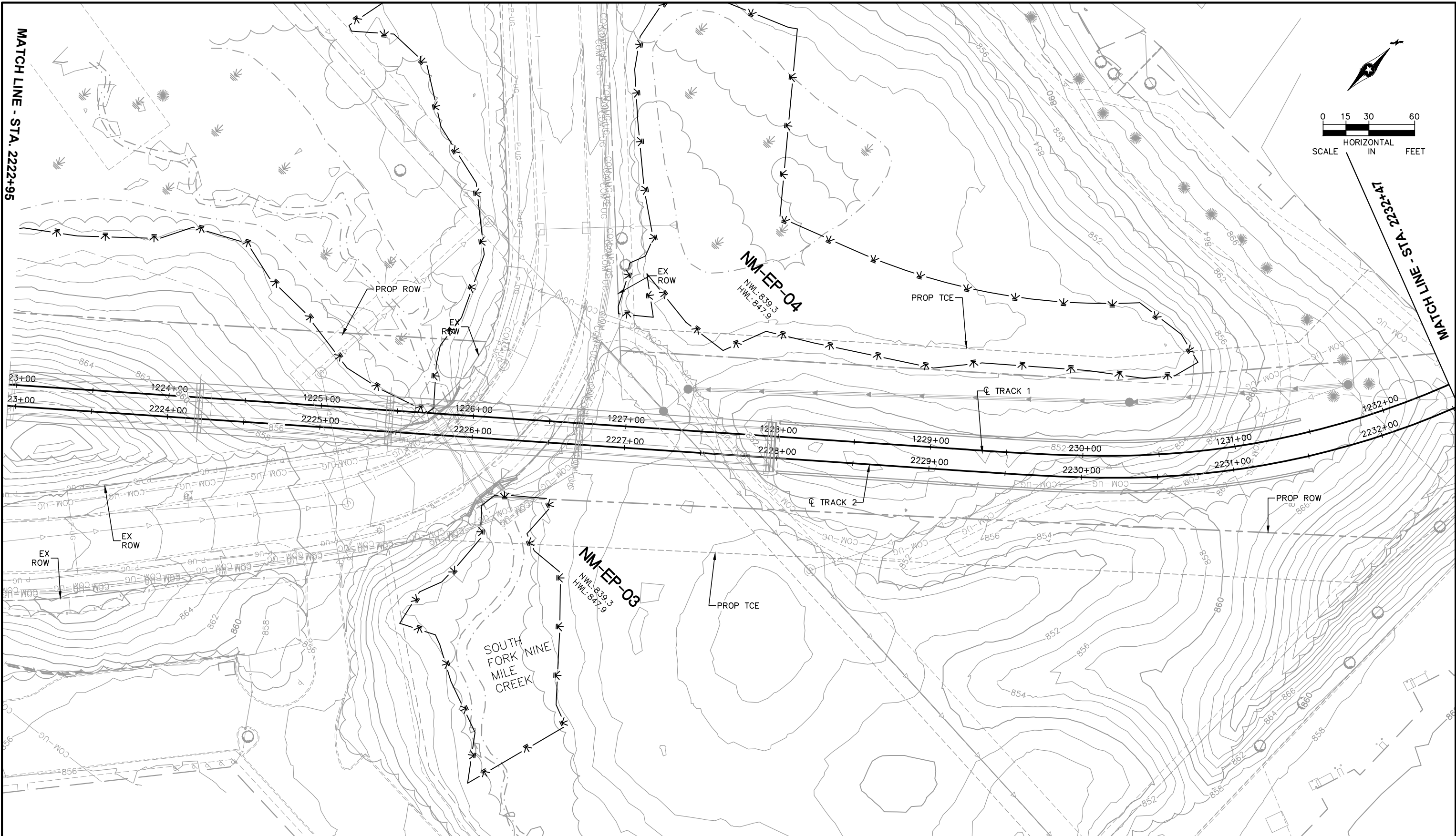


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN
TRACK STA. 2213+50 TO STA. 2222+95

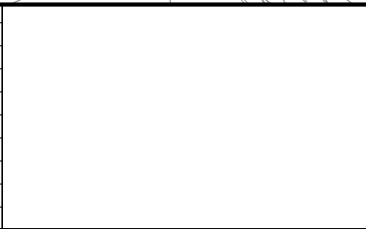
DISCIPLINE: DRAINAGE
SHEET NAME: W2-STM-PLN-002

SHEET 26
OF 96

Sep. 21 2015 09:52 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM SEWER\W2-STM-PLN.dwg By: V-LucasBJ



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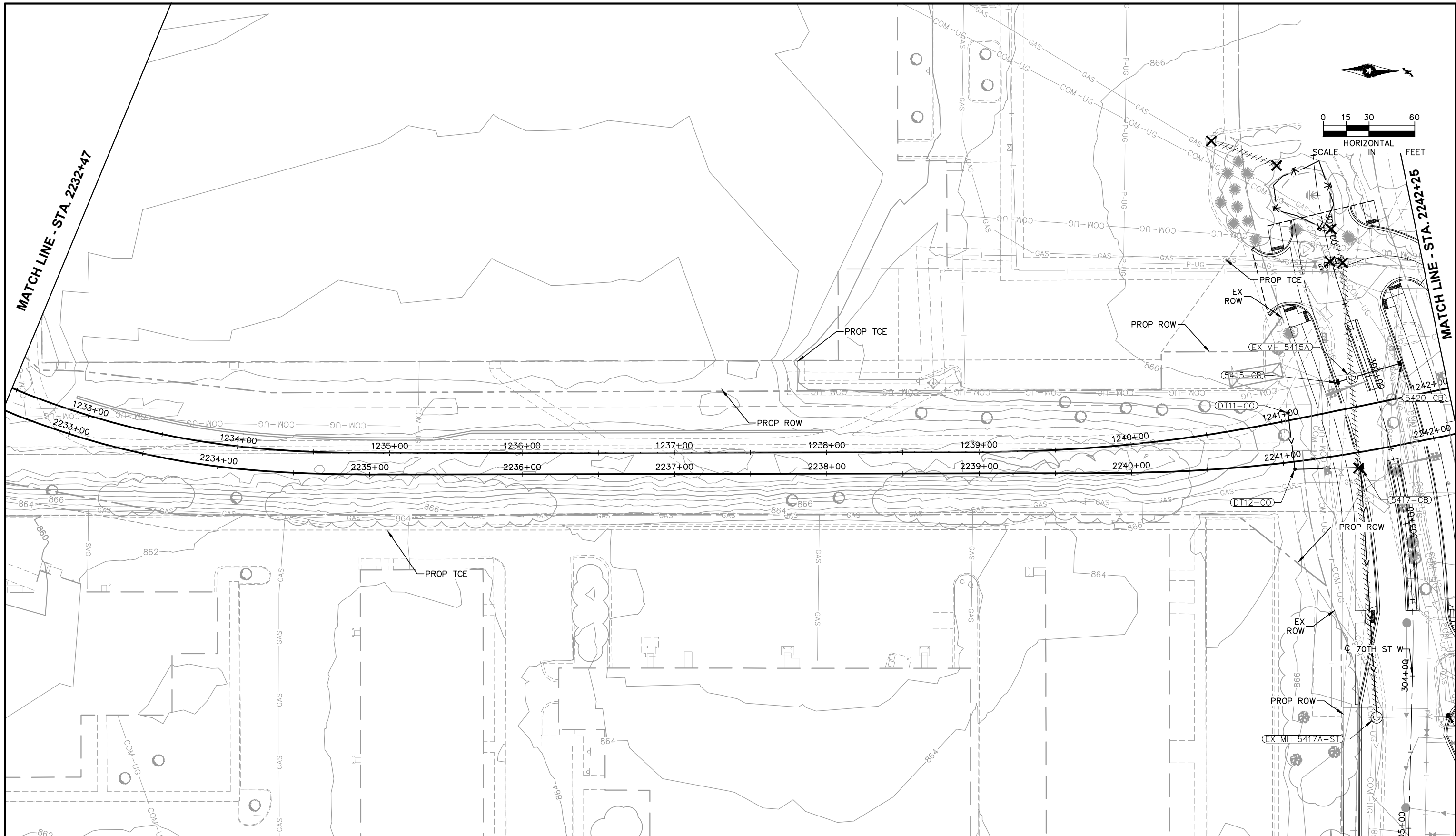


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN
TRACK STA. 2222+95 TO STA. 2232+47

DISCIPLINE: DRAINAGE
SHEET NAME: W2-STM-PLN-003

SHEET 27 OF 96

Sep. 21 2015 09:53 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM SEWER\W2-STM-PLN.dwg By: V-LucasBJ



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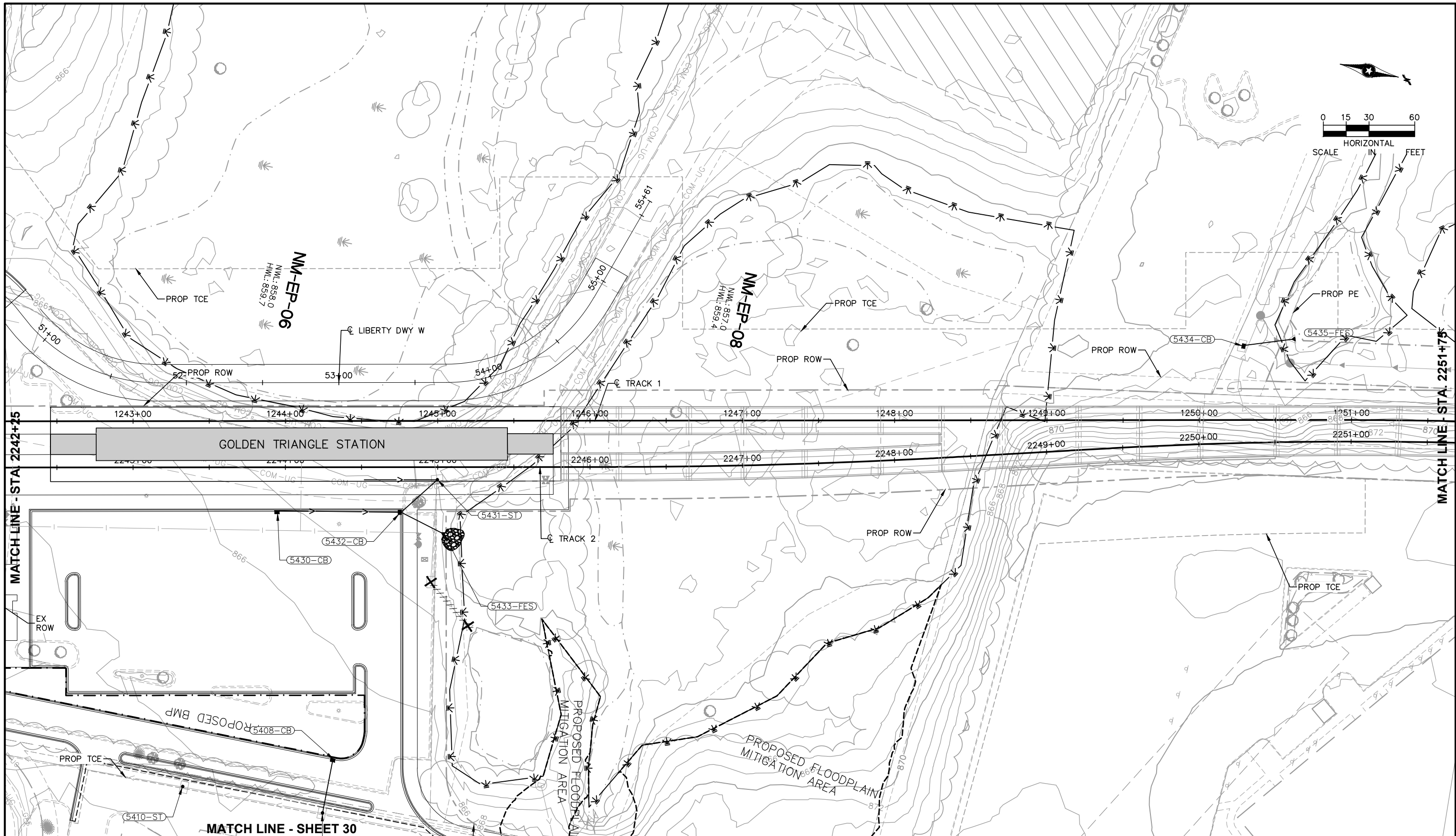


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN
TRACK STA. 2232+47 TO STA. 2242+25

DISCIPLINE: DRAINAGE
SHEET NAME: W2-STM-PLN-004

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Sep. 21 2015 09:54 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM_SEWER\W2-STM-PLN.dwg By: V-LucasBJ



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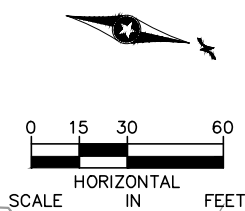
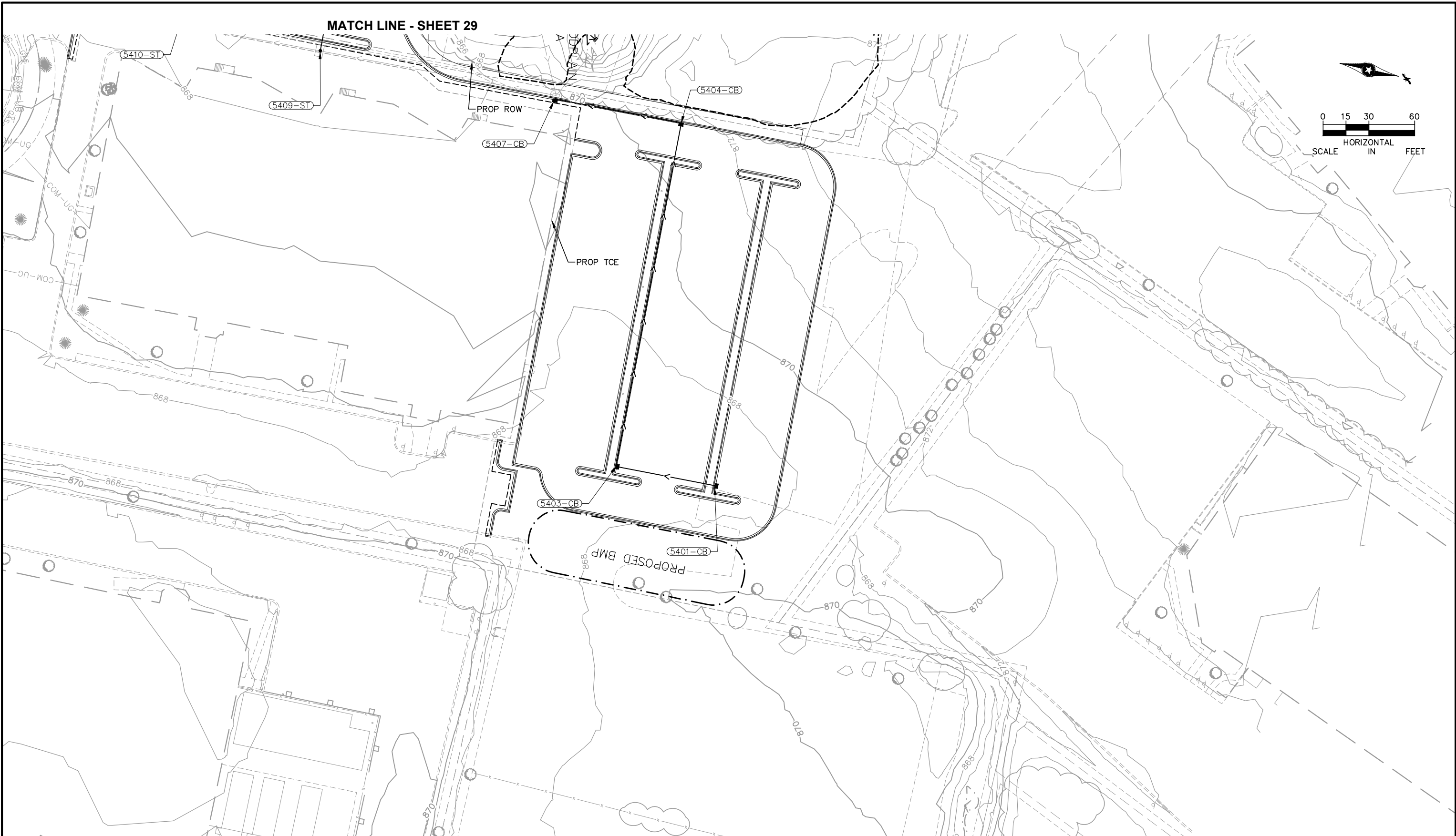


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN
TRACK STA. 2242+25 TO STA. 2251+75

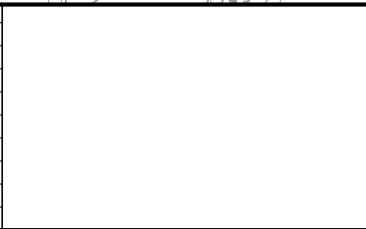
DISCIPLINE: DRAINAGE
SHEET NAME: W2-STM-PLN-005

SHEET 29 OF 96

Sep. 21 2015 09:54 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM SEWER\W2-STM-PLN.dwg By: V-LucasBJ



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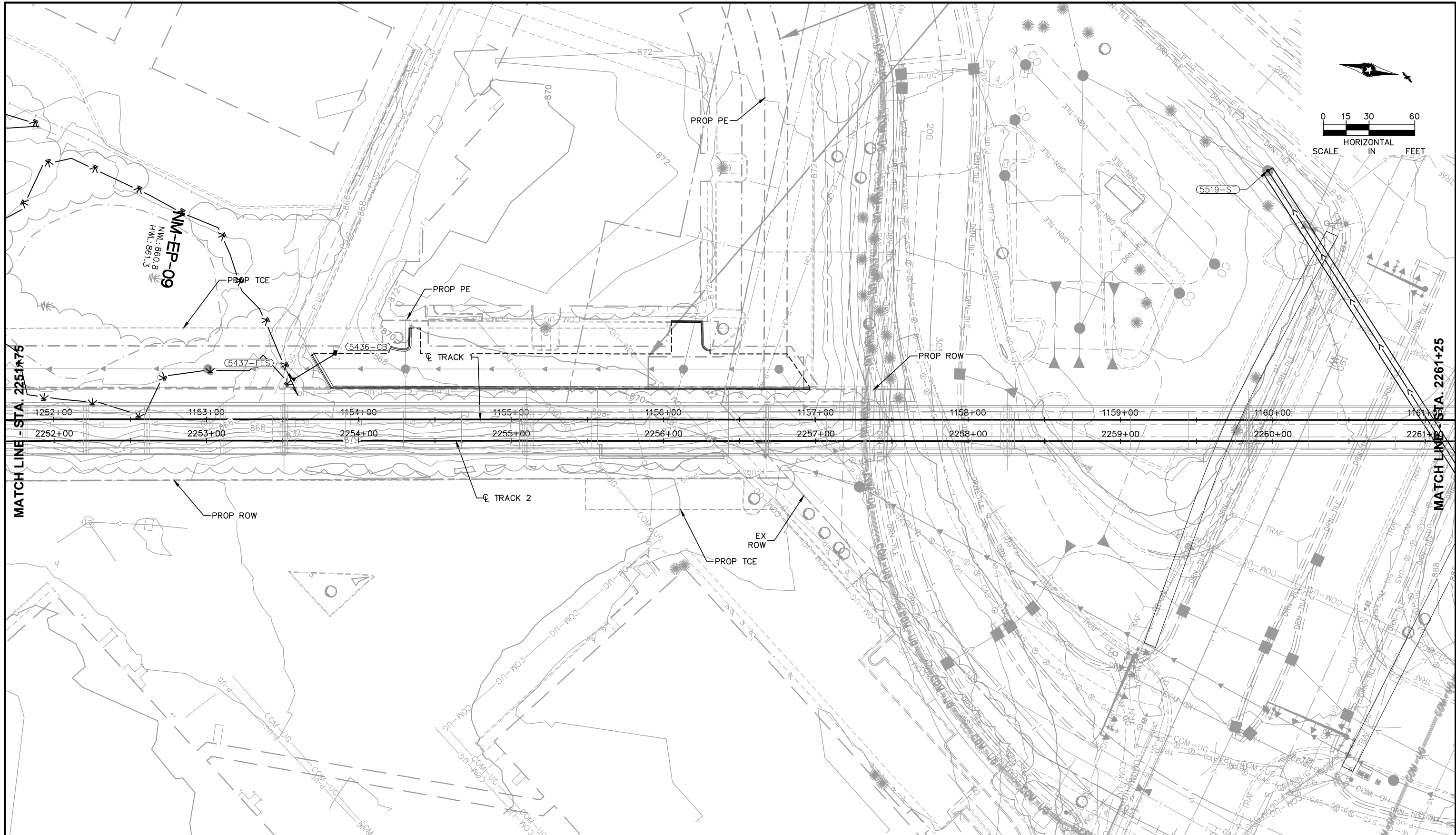
CIVIL WEST - VOLUME 8
DRAINAGE
PLAN
GOLDEN TRIANGLE STATION LOT

DISCIPLINE: DRAINAGE

SHEET NAME: W2-STM-PLN-006

SHEET
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96

Sep. 21 2015 09:55 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM SEWER\W2-STM-PLN.dwg By: V-LucasBJ



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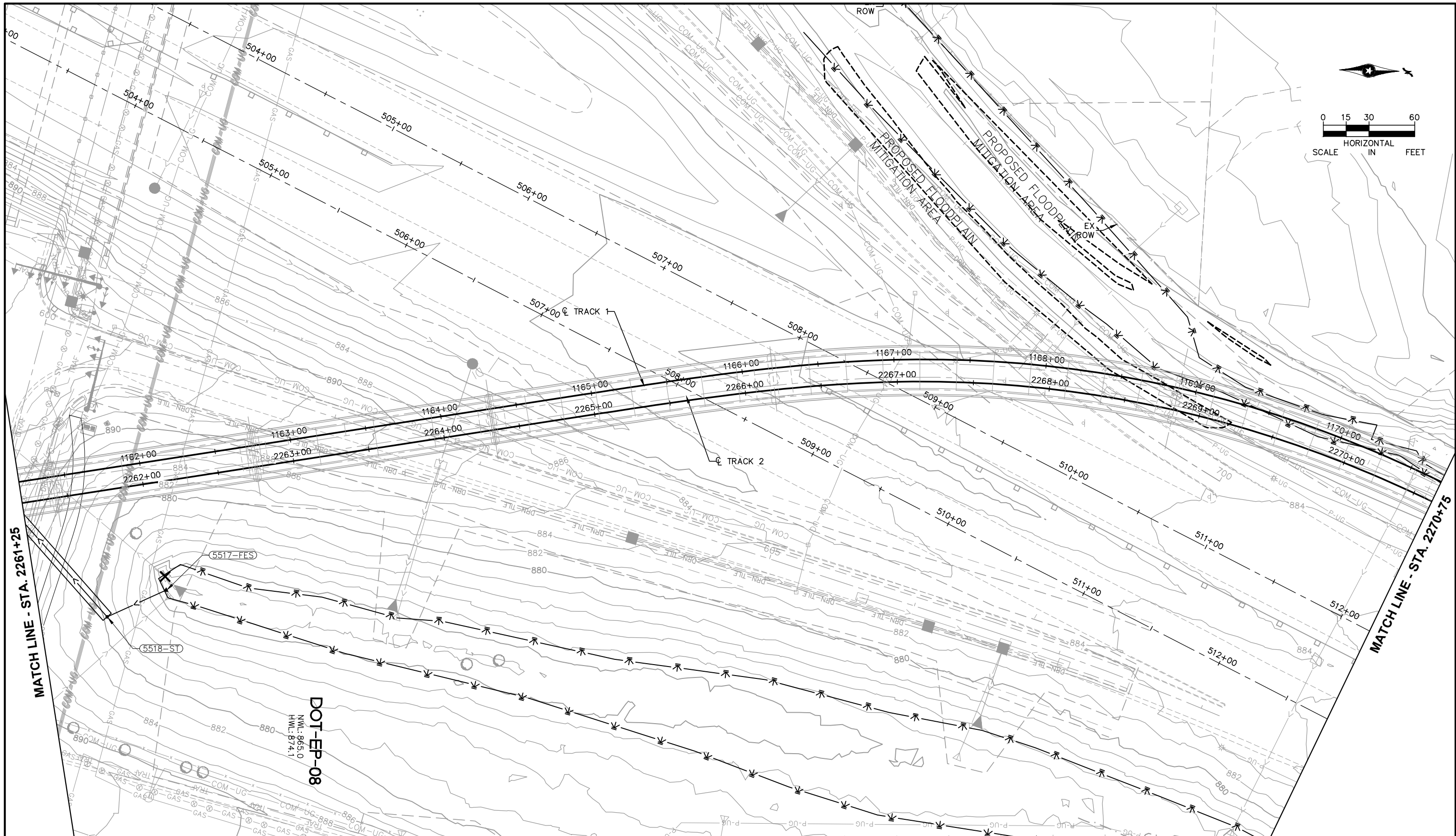


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN
TRACK STA. 2251+75 TO STA. 2261+25

DISCIPLINE: DRAINAGE
SHEET NAME: W2-STM-PLN-007

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DOT-EP-08
NWL: 865.0
HWL: 874.1



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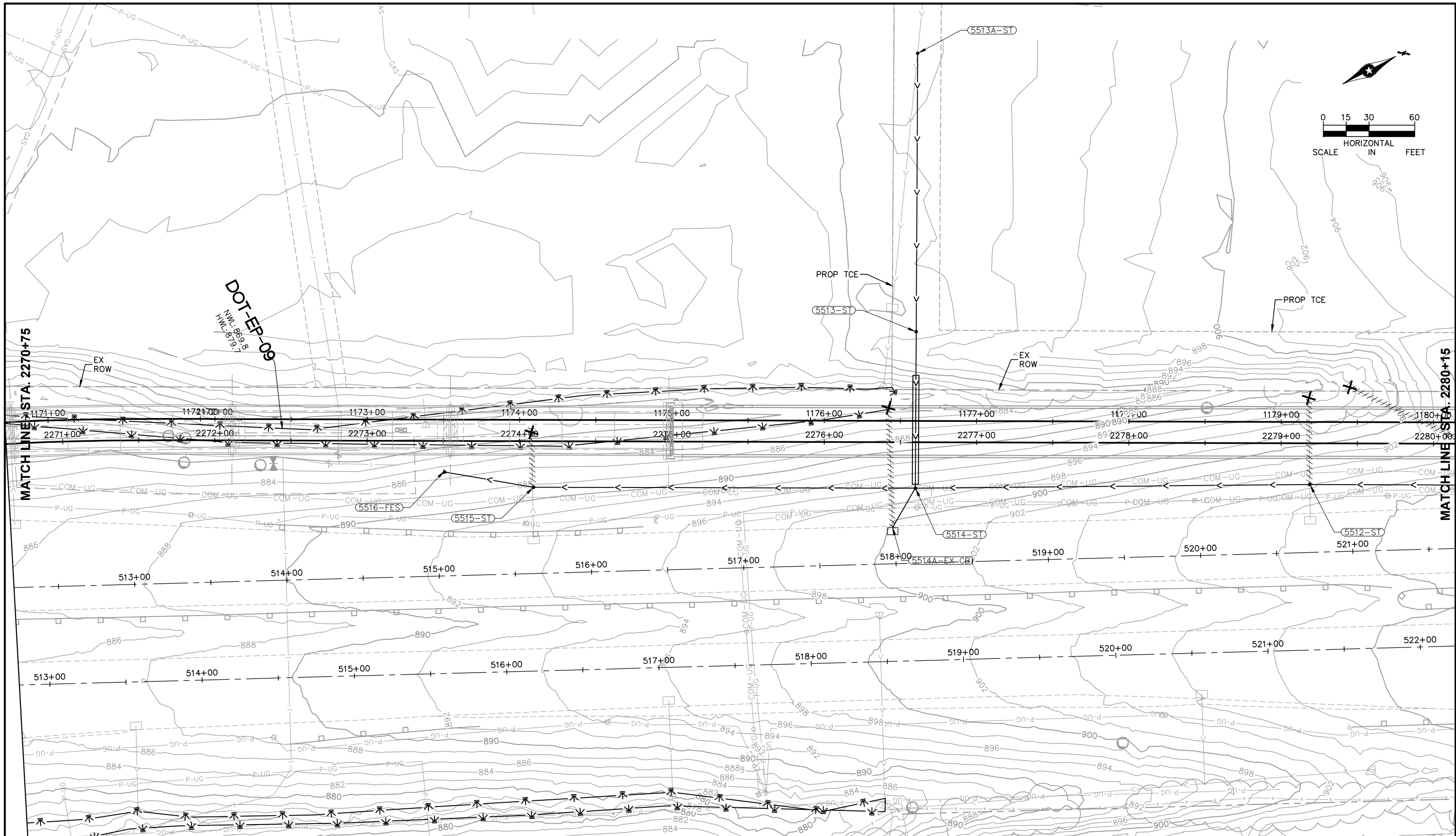


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN
TRACK STA. 2261+25 TO STA. 2270+75

DISCIPLINE: DRAINAGE
SHEET NAME: W2-STM-PLN-008

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Sep. 21 2015 09:56 am V:\3400_ADC\CAD\CAD_00_WEST\PLANSHEETS\STORM SEWER\W2-STM-PLN.dwg By: V-LucasBJ



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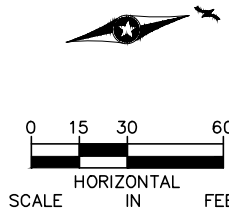
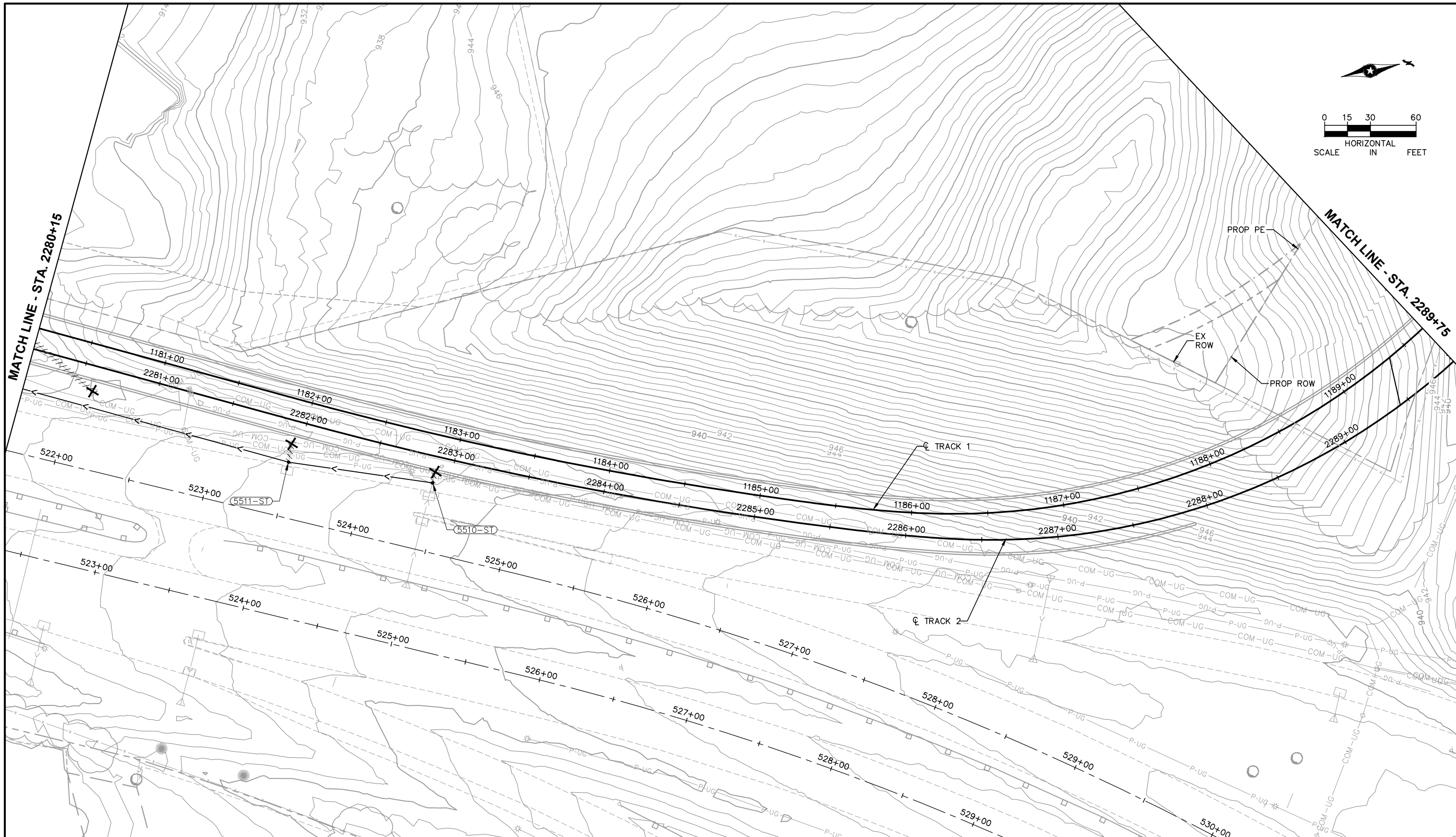
CIVIL WEST - VOLUME 8
DRAINAGE
PLAN
TRACK STA. 2270+75 TO STA. 2280+15

DISCIPLINE: DRAINAGE

SHEET NAME: W2-STM-PLN-009

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Sep. 21 2015 09:57 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM SEWER\W2-STM-PLN.dwg By: V-LucasBJ



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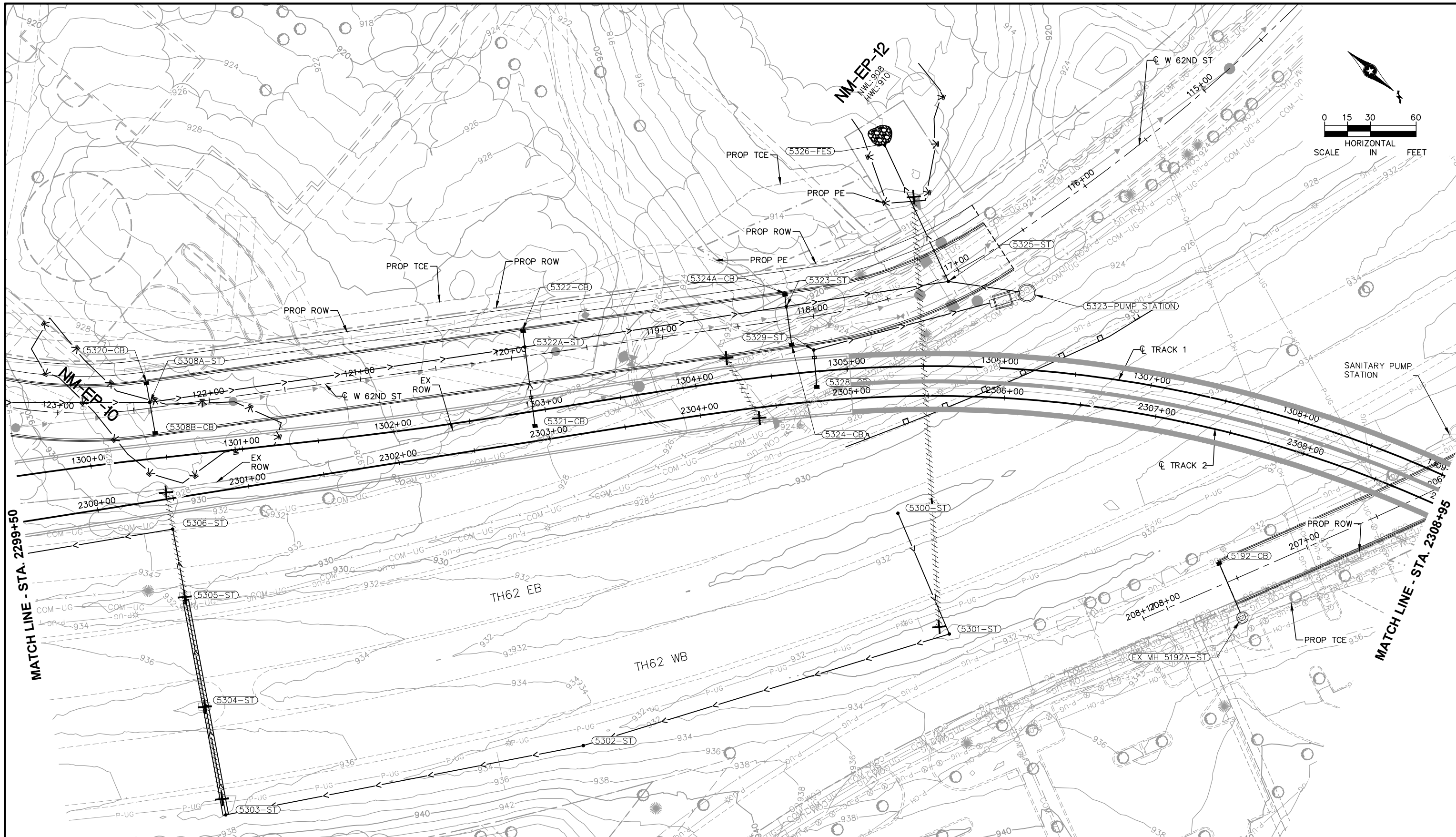
CIVIL WEST - VOLUME 8
DRAINAGE
PLAN
TRACK STA. 2280+15 TO STA. 2289+75

DISCIPLINE: DRAINAGE

SHEET NAME: W2-STM-PLN-010

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Sep. 21 2015 09:58 am v:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM SEWER W2-STM-PLN.dwg By: V-LucasBJ



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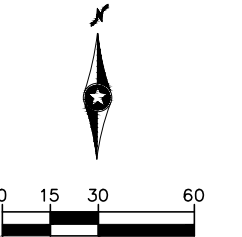


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN
TRACK STA. 2299+50 TO STA. 2308+95

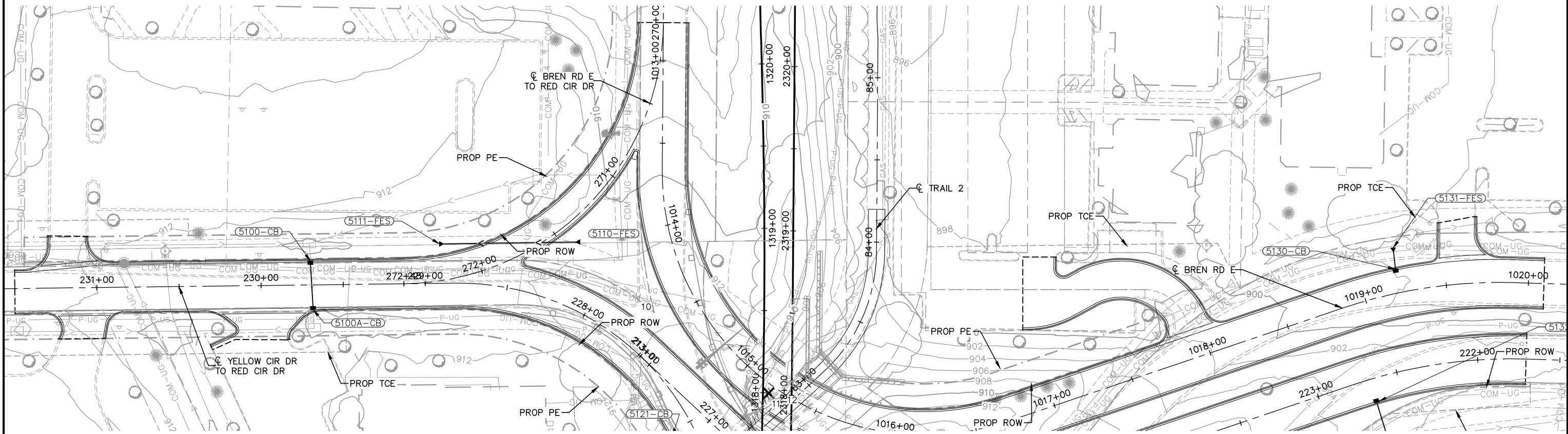
DISCIPLINE: DRAINAGE
SHEET NAME: W2-STM-PLN-012

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MATCH LINE - STA. BACK 2320+56
STA. AHEAD 2335+00



MATCH LINE - STA. 2318+25

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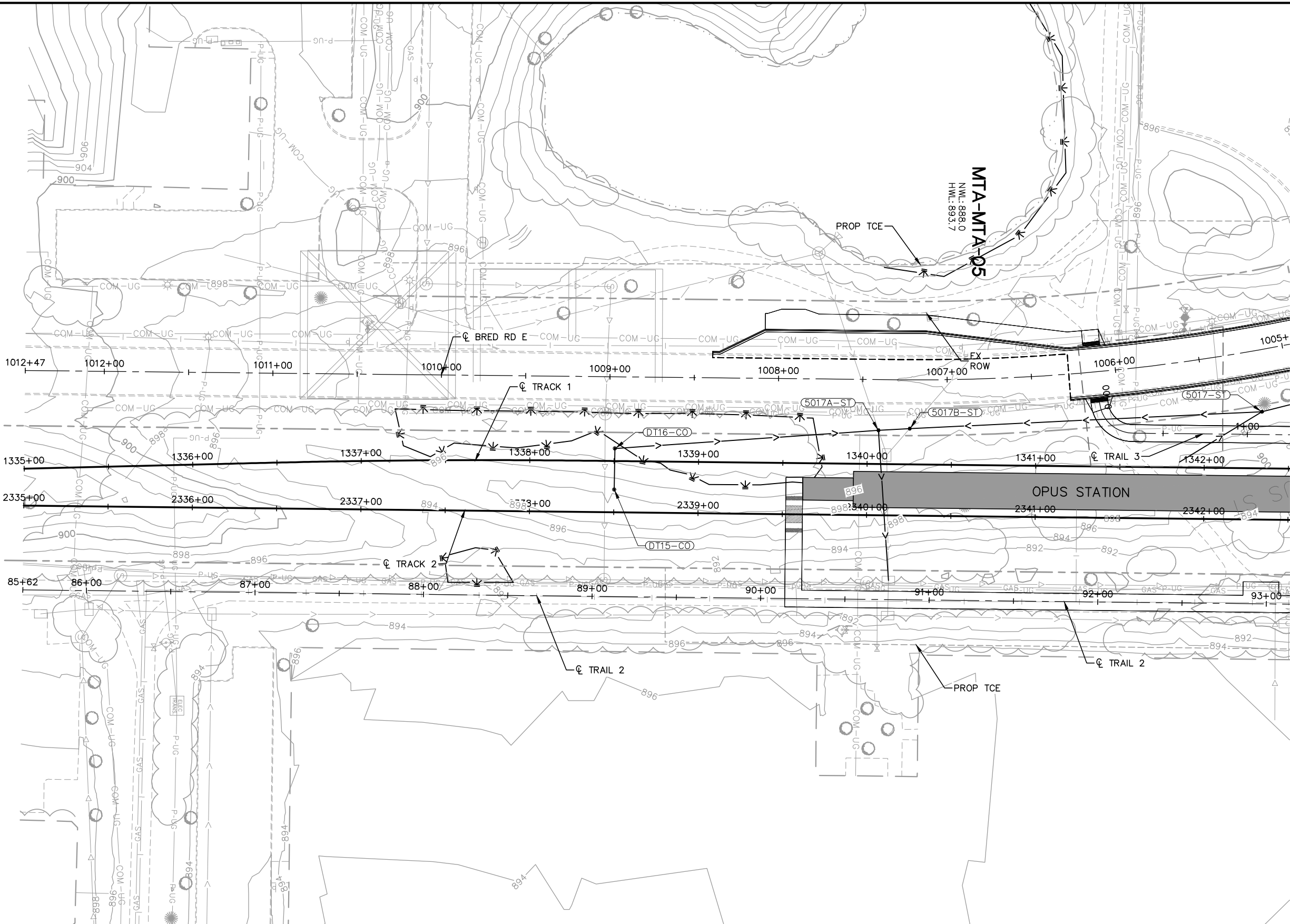
CIVIL WEST - VOLUME 8
DRAINAGE
PLAN
TRACK STA. 2318+25 TO STA. 2320+56

DISCIPLINE: DRAINAGE
SHEET NAME: W2-STM-PLN-014

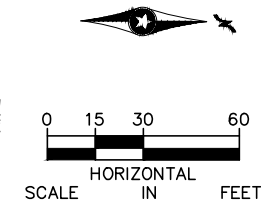
SHEET
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Sep. 21 2015 10:06 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\STORM SEWER\W3-STM-PLN.dwg By: V-LucasBJ

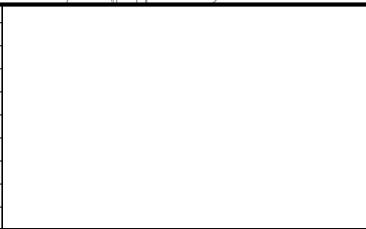
MATCH LINE - STA. BACK 2320+56
STA. AHEAD 2336+50



MATCH LINE - STA. 2342+50



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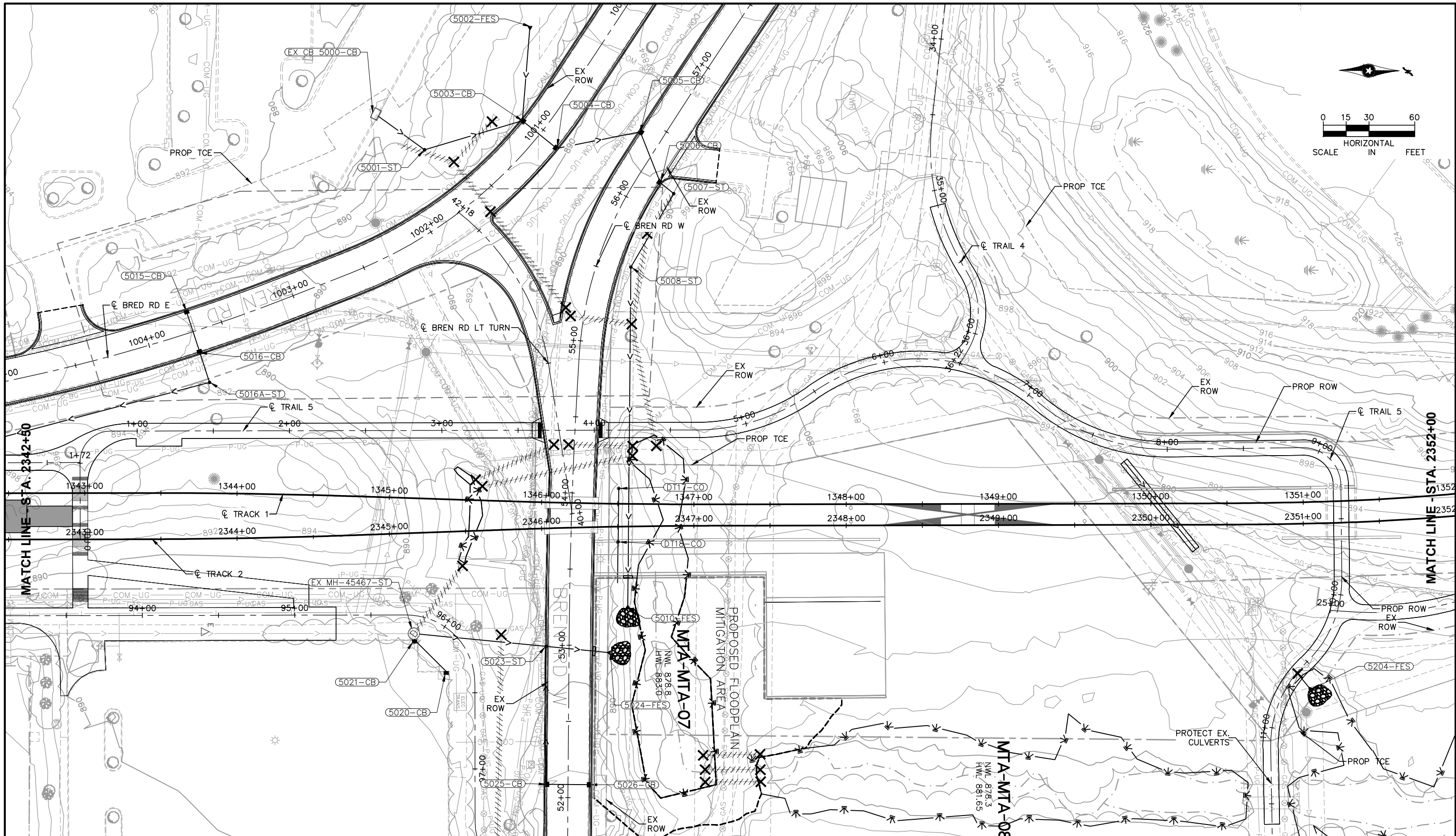


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN
TRACK STA. 2336+50 TO STA. 2342+50

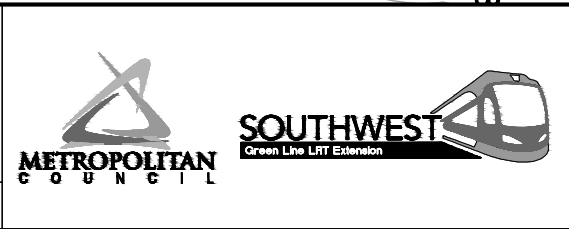
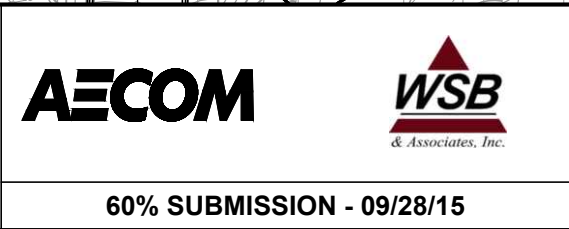
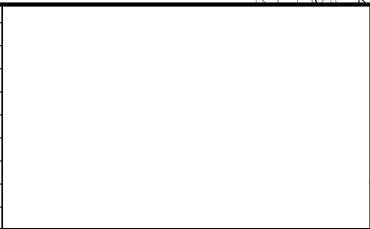
DISCIPLINE: DRAINAGE
SHEET NAME: W3-STM-PLN-001

SHEET
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96

Sep. 21 2015 10:07 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM SEWER\W3-STM-PLN.dwg By: V-LucasBJ

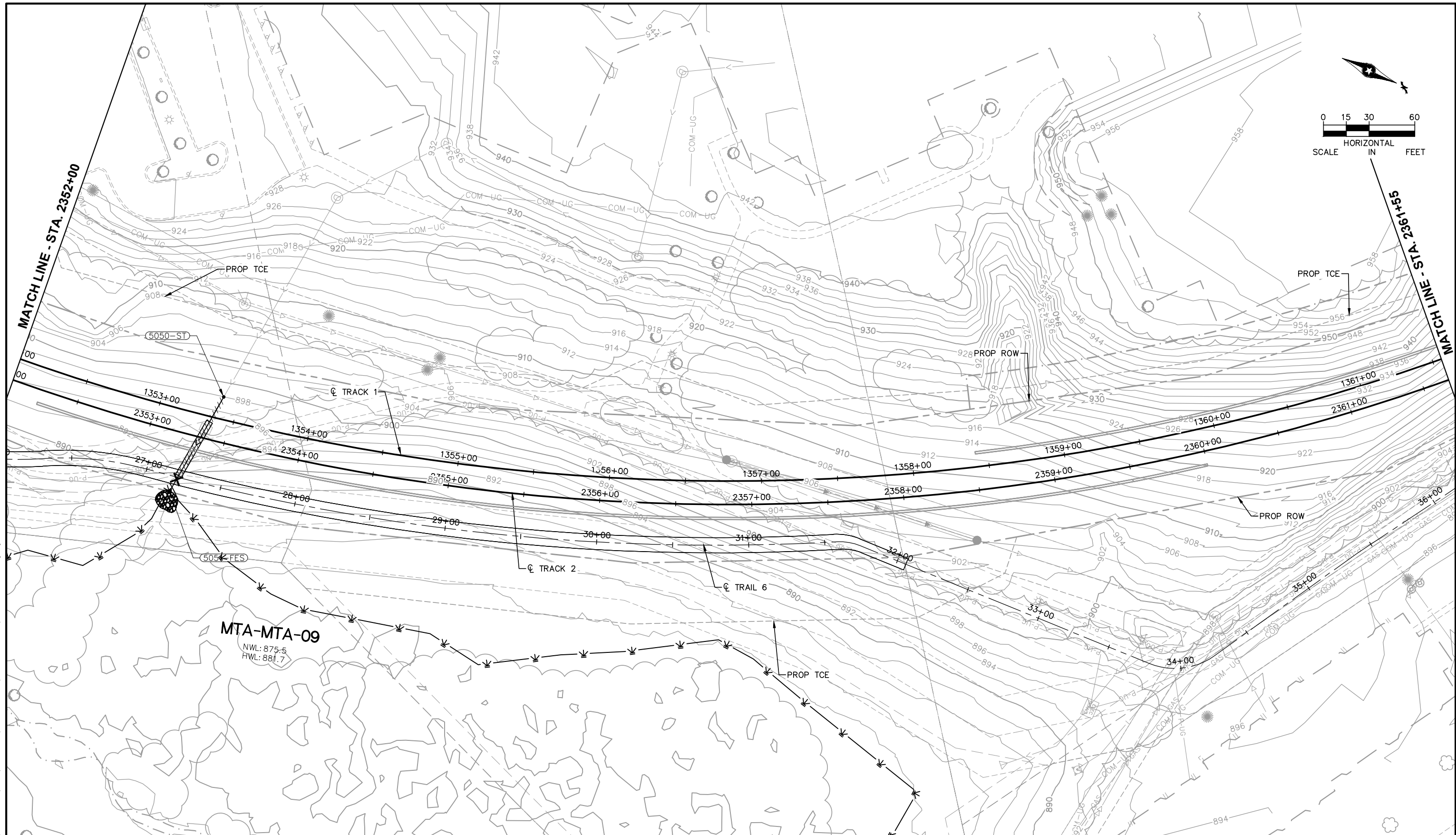


NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



CIVIL WEST - VOLUME 8		SHEET 40 OF 96	
DRAINAGE PLAN			
TRACK STA. 2342+50 TO STA. 2352+00			
DISCIPLINE:	DRAINAGE	SHEET NAME:	W3-STM-PLN-002

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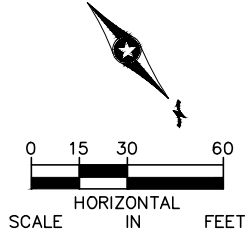
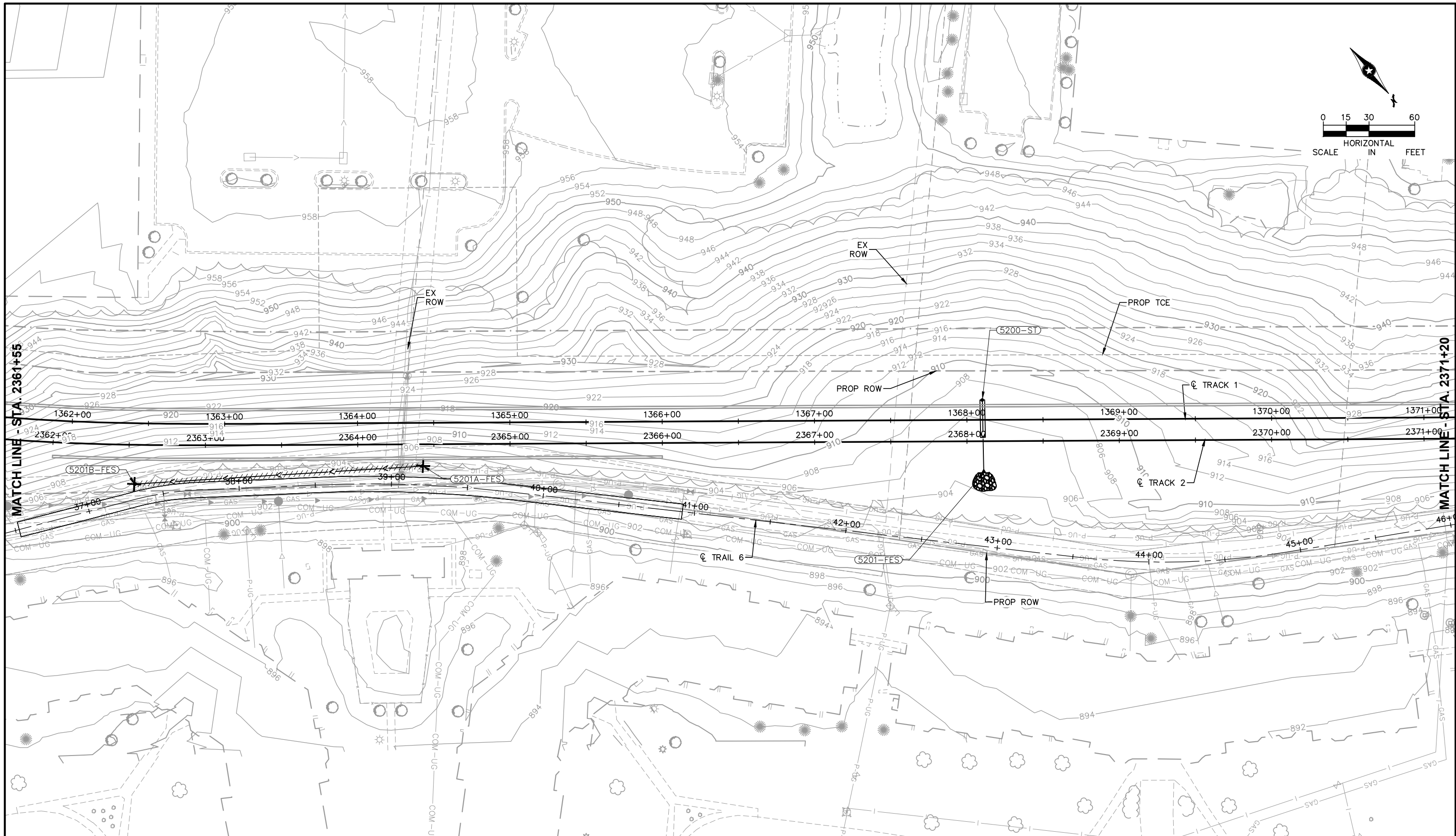


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN
TRACK STA. 2352+00 TO STA. 2361+55

DISCIPLINE: DRAINAGE
SHEET NAME: W3-STM-PLN-003

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Sep. 21 2015 10:09 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM SEWER\W3-STM-PLN.dwg By: V-LucasBJ



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





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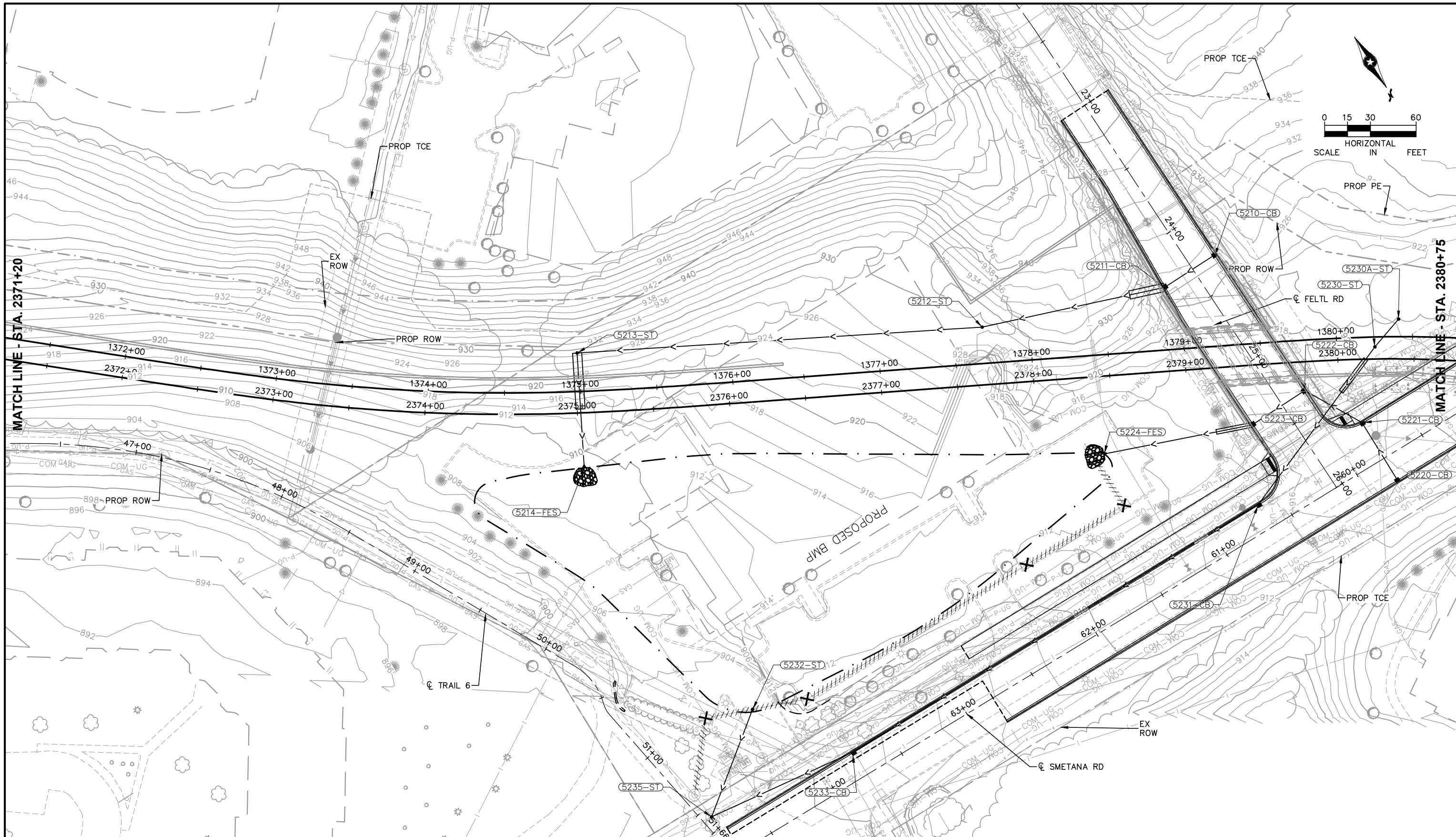
CIVIL WEST - VOLUME 8
DRAINAGE
PLAN
TRACK STA. 2361+55 TO STA. 2371+20

DISCIPLINE: DRAINAGE

SHEET NAME: W3-STM-PLN-004

SHEET
42
OF
96

Sep. 21 2015 10:10 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM SEWER\W3-STM-PLN.dwg By: V-LucasBJ



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AECOM

WSB
& Associates, Inc.

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METROPOLITAN
COUNCIL

SOUTHWEST
Green Line LRT Extension

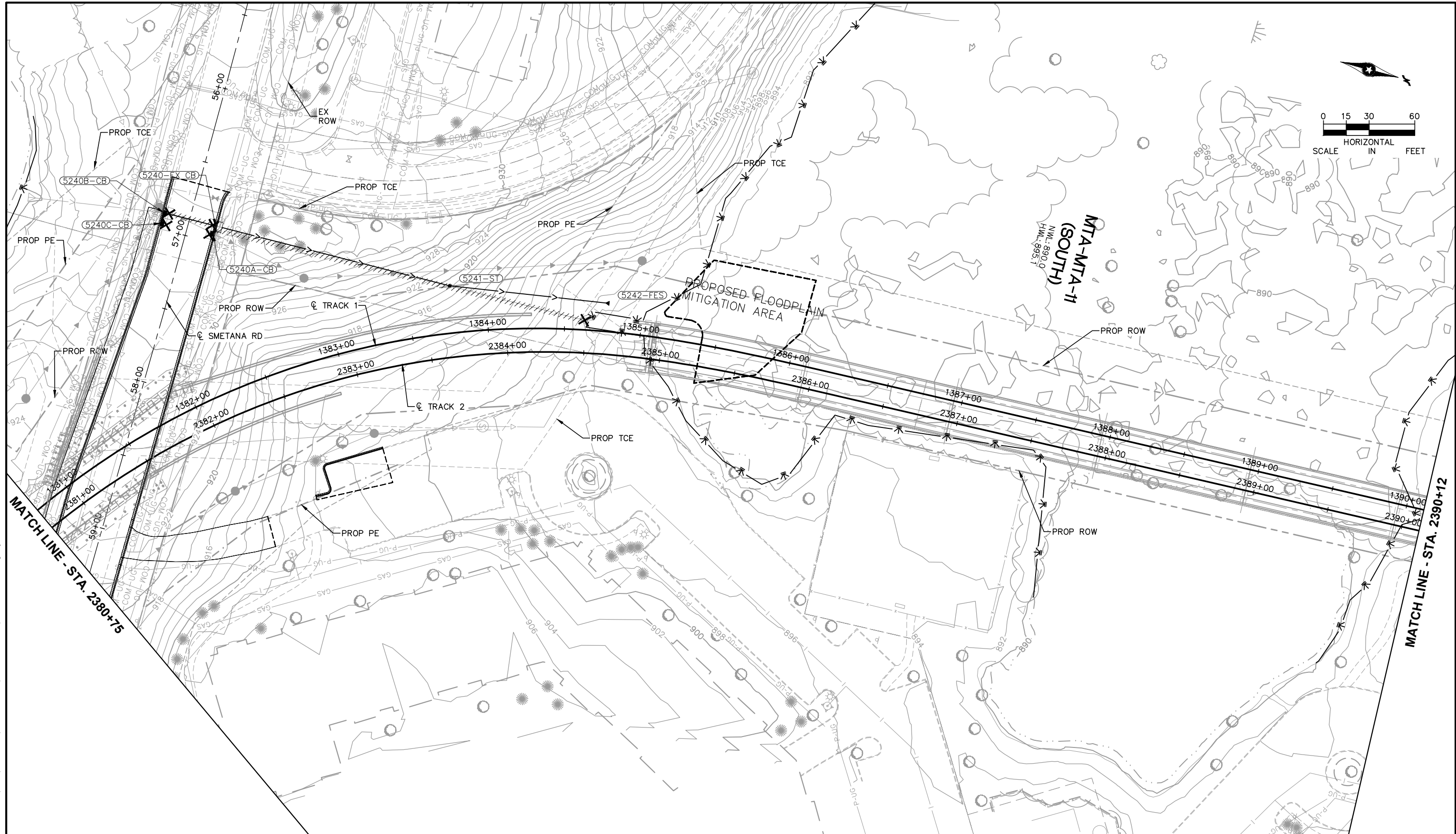
CIVIL WEST - VOLUME 8
DRAINAGE
PLAN
TRACK STA. 2371+20 TO STA. 2380+75

DISCIPLINE: **DRAINAGE**

SHEET NAME: **W3-STM-PLN-005**

SHEET
43
OF
96

Sep. 21 2015 10:11 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM SEWER\W3-STM-PLN.dwg By: V-LucasBJ



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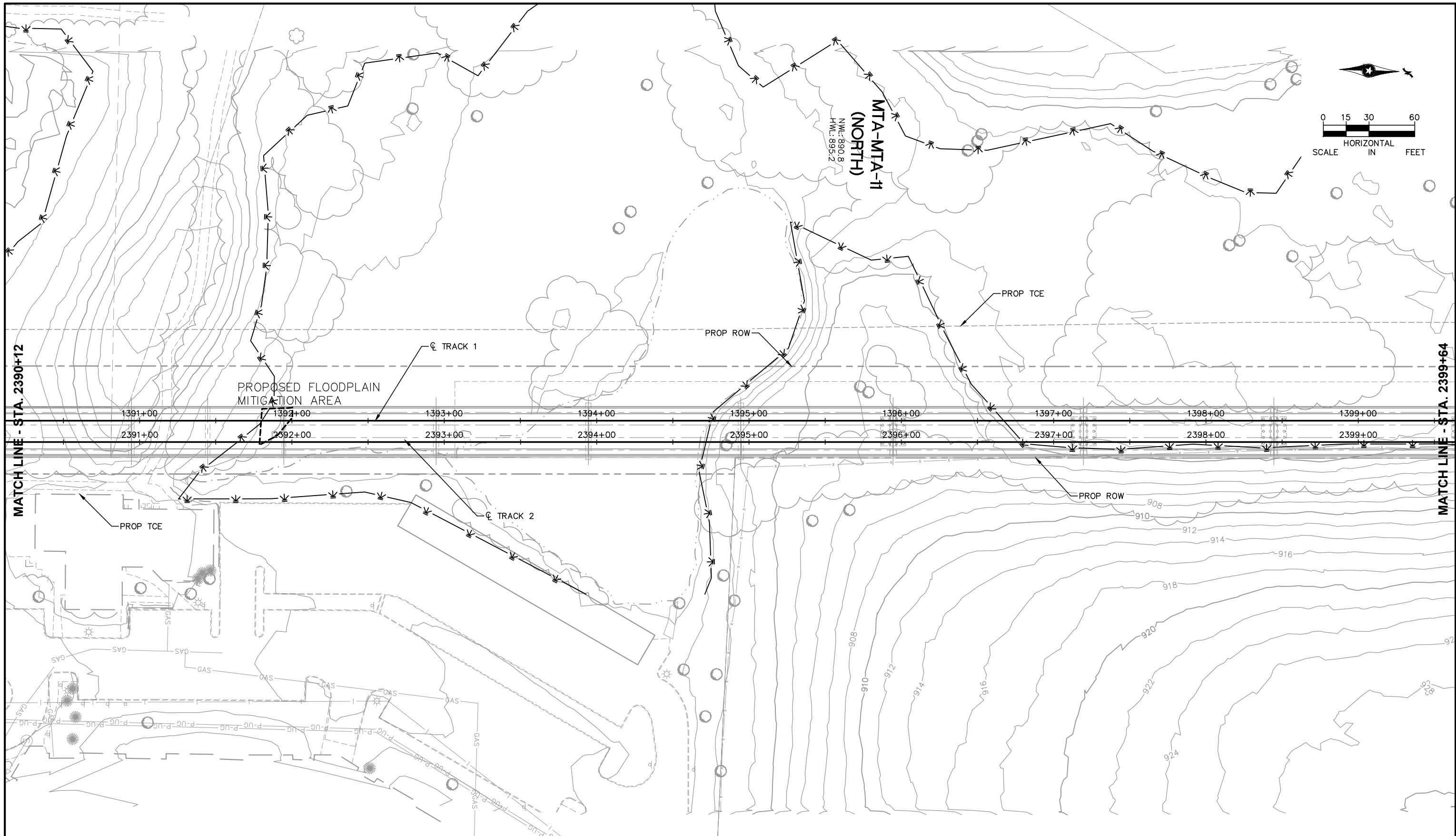


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN
TRACK STA. 2380+75 TO STA. 2390+12

DISCIPLINE: DRAINAGE SHEET NAME: W3-STM-PLN-006

SHEET
44
OF
96

Sep. 21 2015 10:12 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\STORM SEWER\W3--STM--PLN.dwg By: V-LucasBJ



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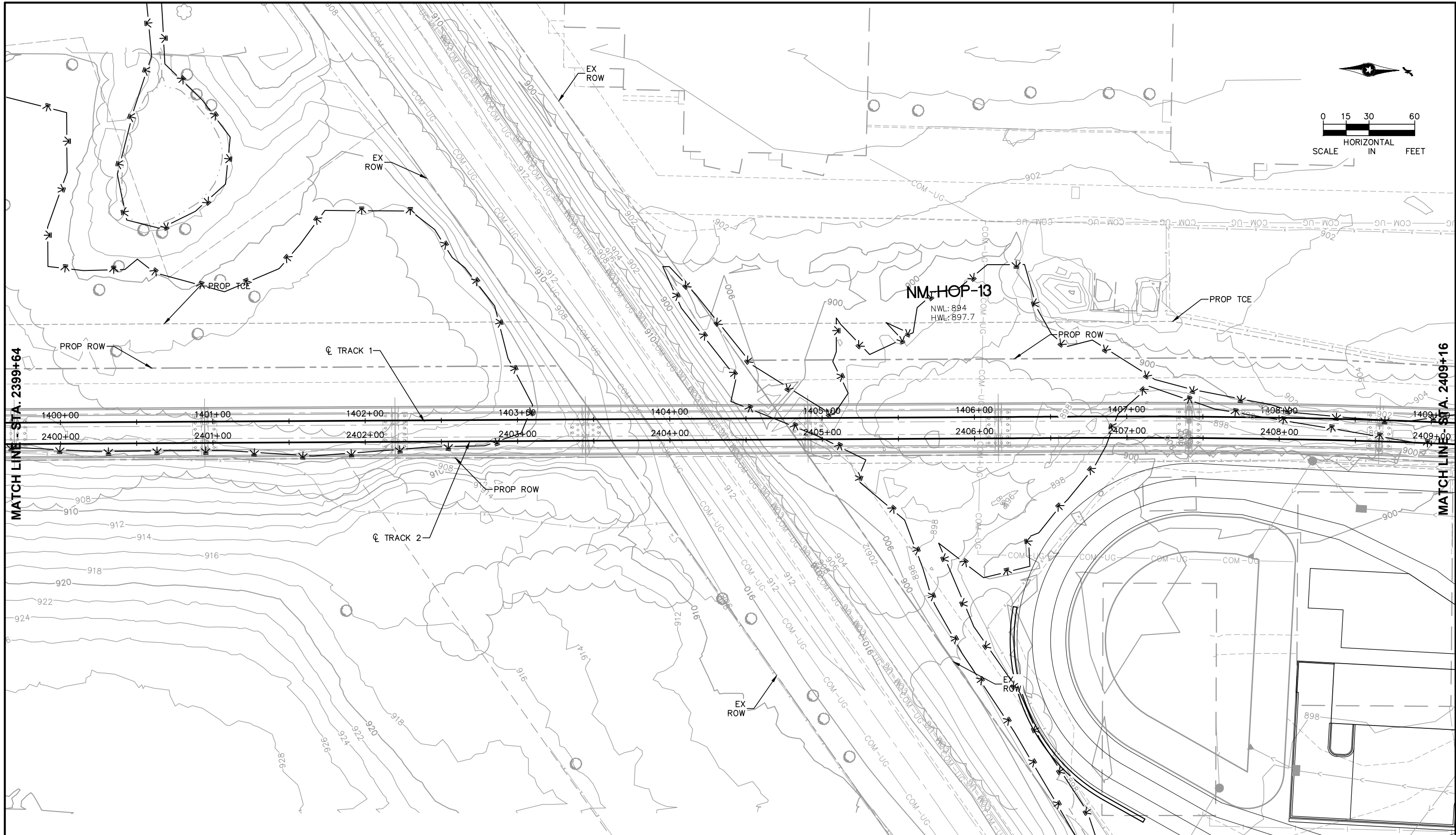


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN
TRACK STA. 2390+12 TO STA. 2399+64

DISCIPLINE: DRAINAGE
SHEET NAME: W3-STM-PLN-007

SHEET
45
OF
96

Sep. 21 2015 10:13 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\STORM SEWER\W3-STM-PLN.dwg By: V-LucasBJ



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





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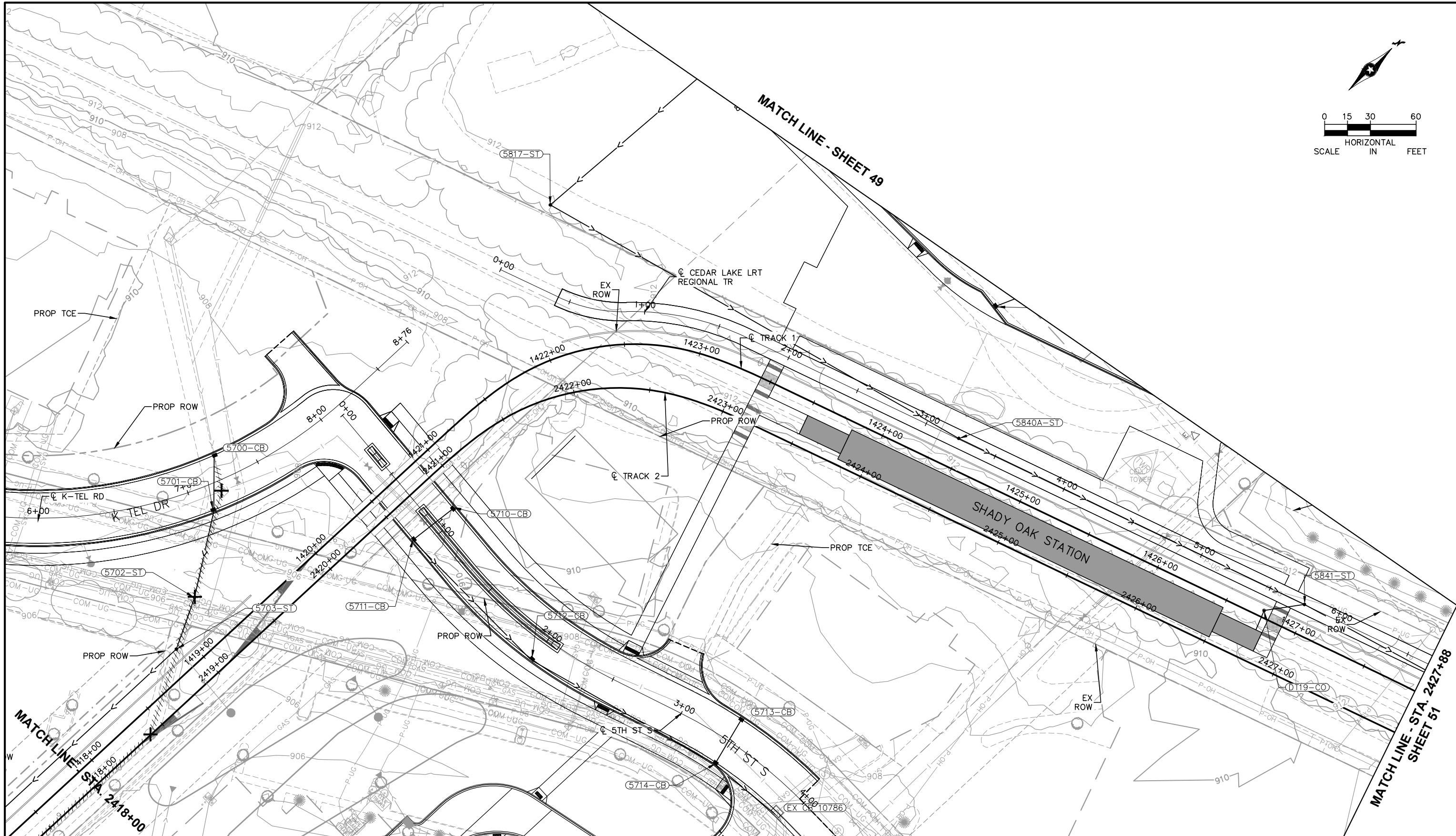


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN
TRACK STA. 2399+64 TO STA. 2409+16

DISCIPLINE: DRAINAGE
SHEET NAME: W3-STM-PLN-008

SHEET
46
OF
96

Sep. 21 2015 10:15 am V:\3400_ADC\CAD\00.WEST\PLANSHEETS\STORM SEWER\W3-STM-PLN.dwg By: V-LucasBJ



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CIVIL WEST - VOLUME 8
DRAINAGE
PLAN
TRACK STA. 2418+00 TO STA. 2427+88

DISCIPLINE: DRAINAGE
SHEET NAME: W3-STM-PLN-010

SHEET 48 OF 96

[illegible]

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& Associates, Inc.



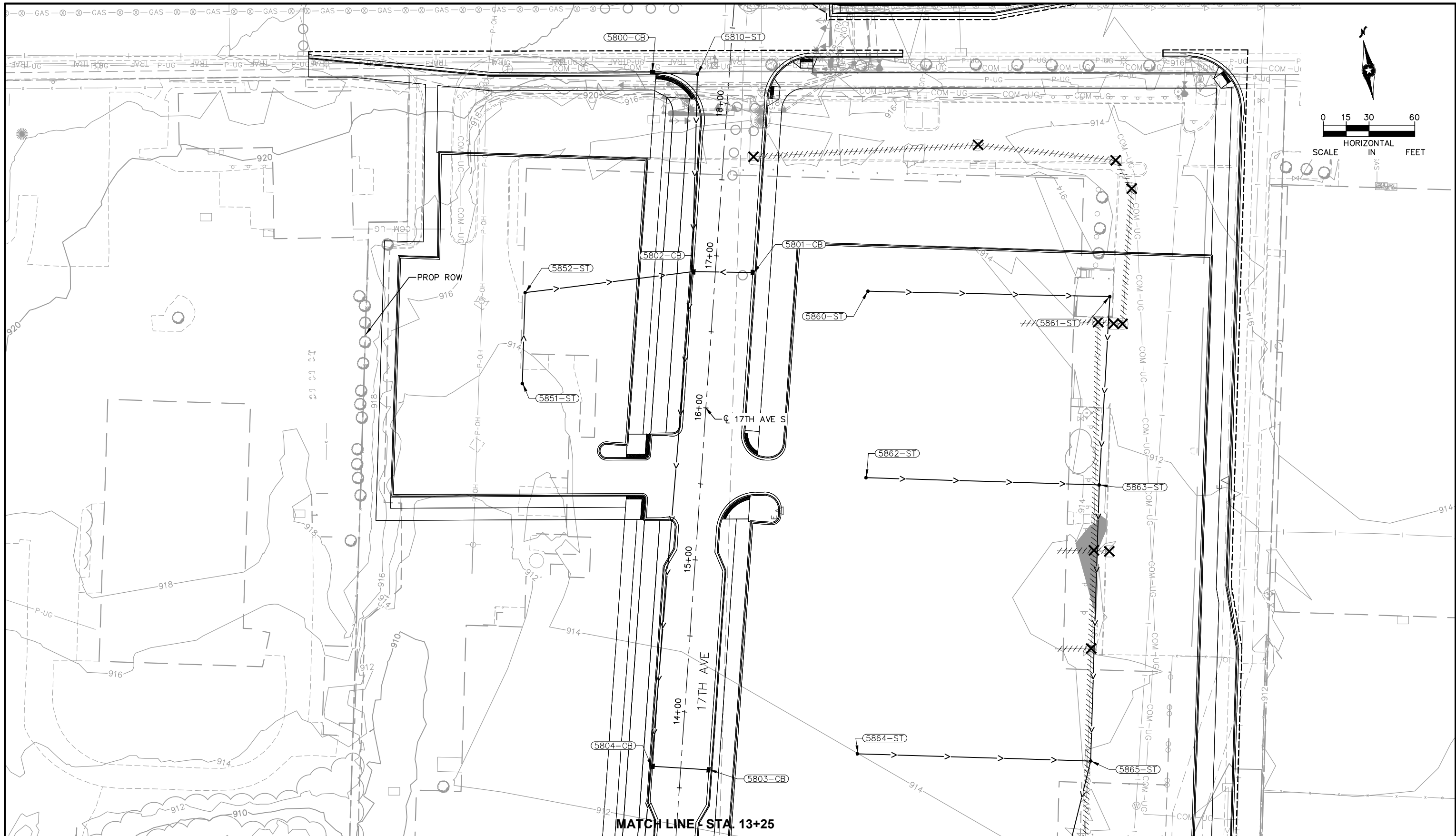
METROPOLITAN
COUNCIL

**CIVIL WEST - VOLUME 8
DRAINAGE
PLAN
17TH AVE S STA. 8+00 TO STA. 13+25**

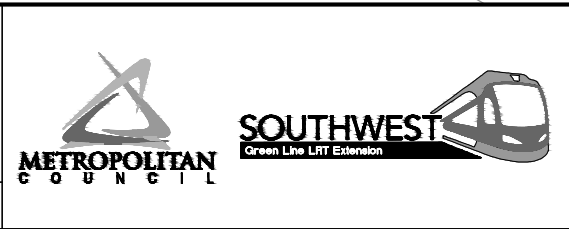
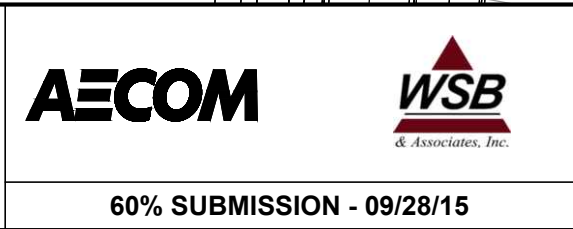
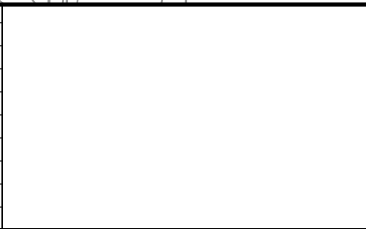
SHEET NAME:	W3-STM-PLN-011
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SHEET
49
OF
96

Sep. 21 2015 10:16 am V:\3400_ADC\CAD\CAD_00_WEST\PLANSHEETS\STORM SEWER\W3-STM-PLN.dwg By: V-LucasBJ

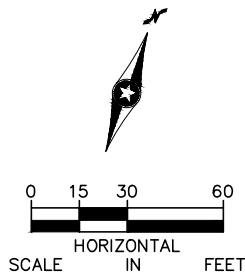
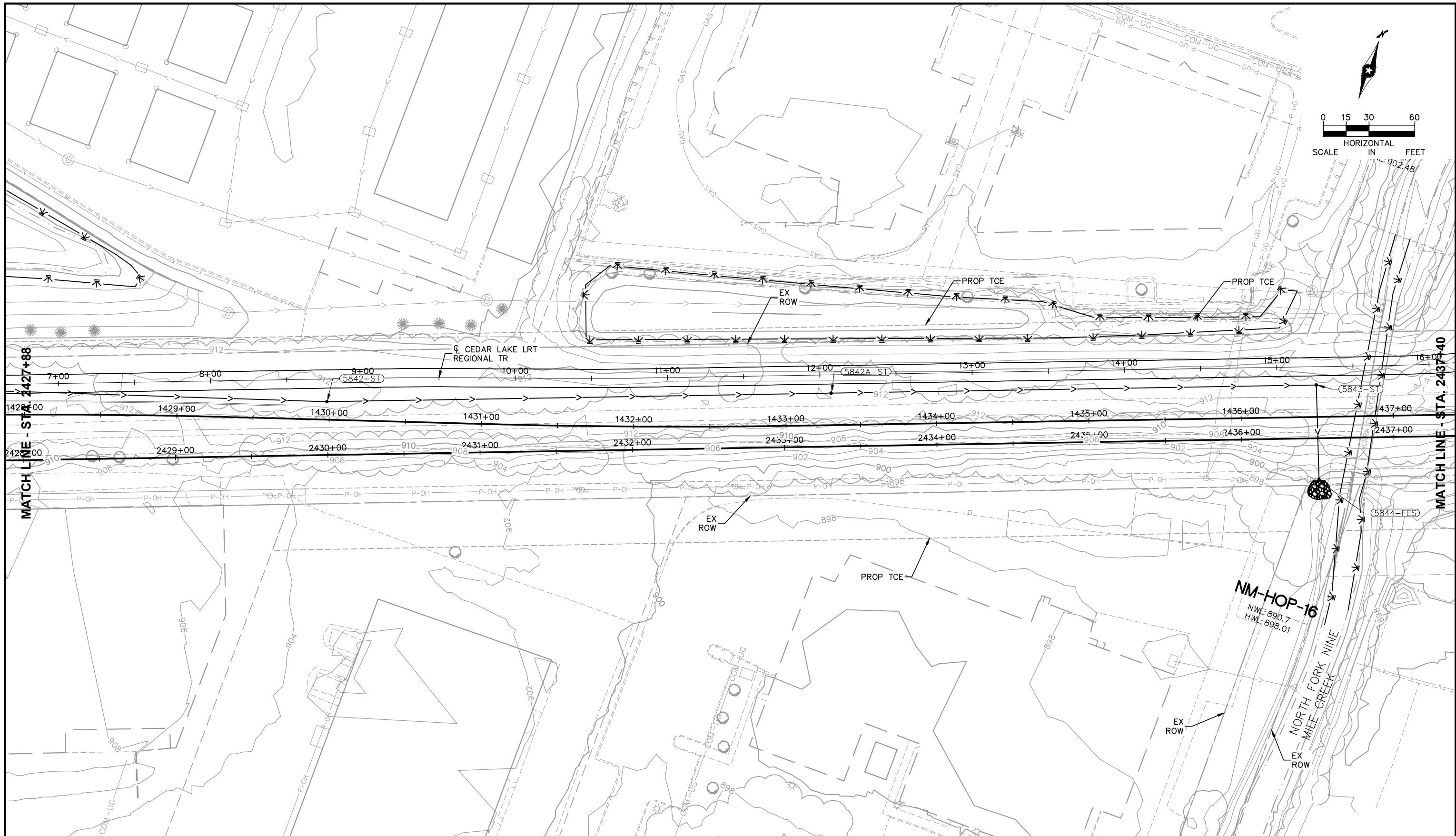


NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



CIVIL WEST - VOLUME 8 DRAINAGE PLAN 17TH AVE S STA. 13+25 TO STA. 18+50		SHEET 50 OF 96
DISCIPLINE: DRAINAGE	SHEET NAME: W3-STM-PLN-012	

Sep. 21 2015 10:17 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\STORM SEWER\W3-STM-PLN.dwg By: V-LucasBJ



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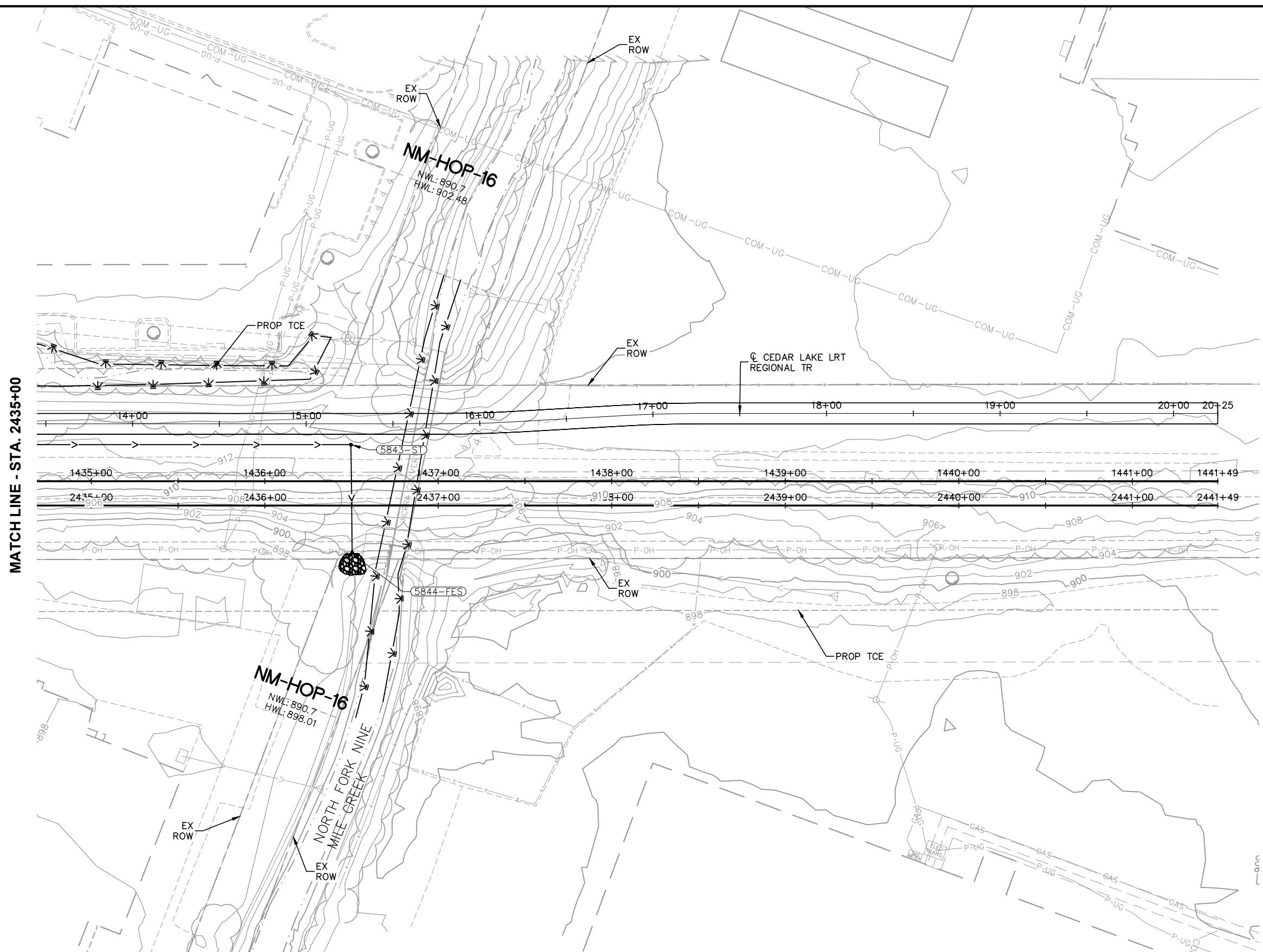
60% SUBMISSION - 09/28/15



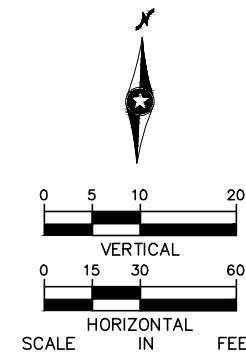
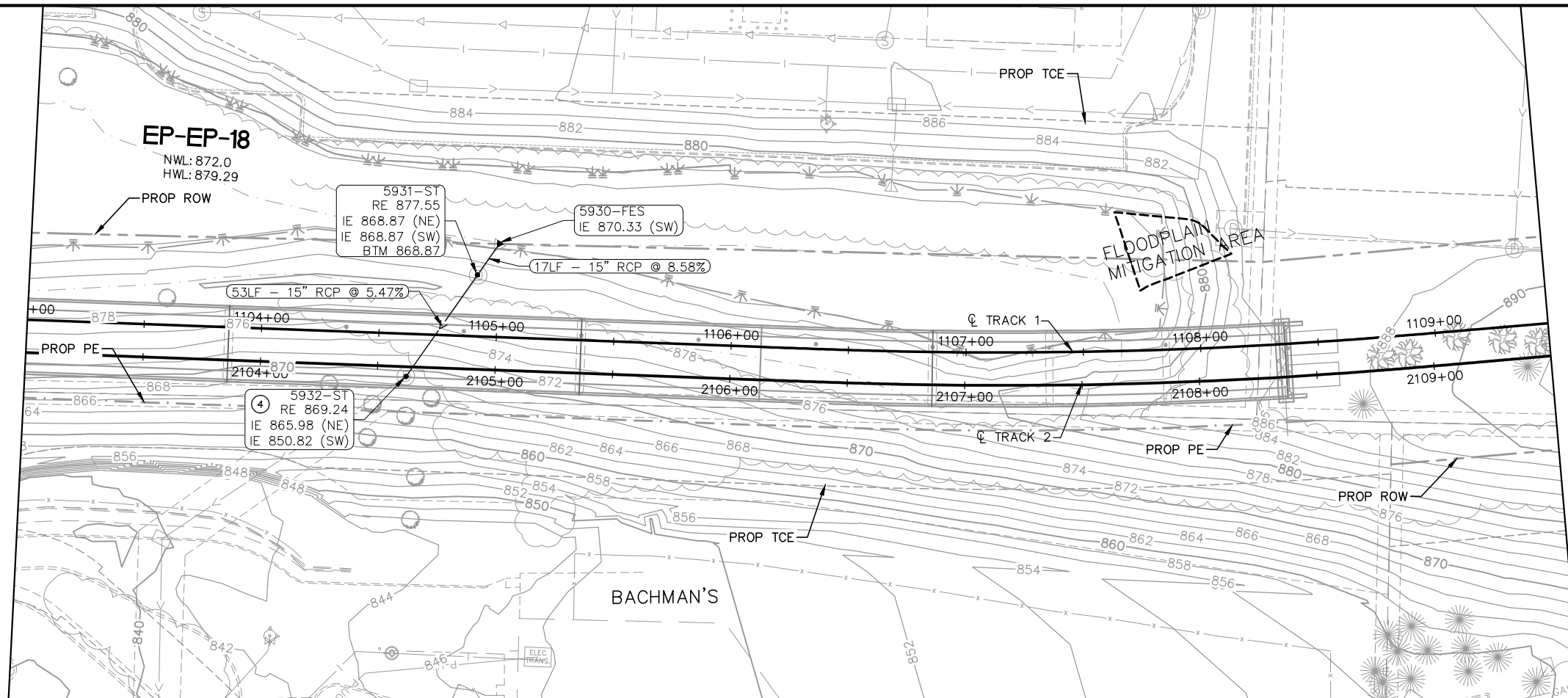
CIVIL WEST - VOLUME 8
DRAINAGE
PLAN
TRACK STA. 2427+88 TO STA. 2437+40

DISCIPLINE: DRAINAGE
SHEET NAME: W3-STM-PLN-013

SHEET 51 OF 96



Sep. 21 2015 10:39 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\STORM SEWER\W1-STM-PRF.dwg By: V-LucasBJ



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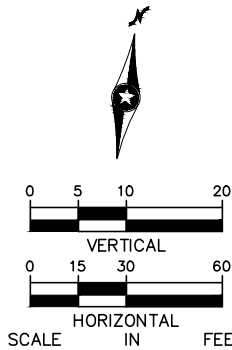
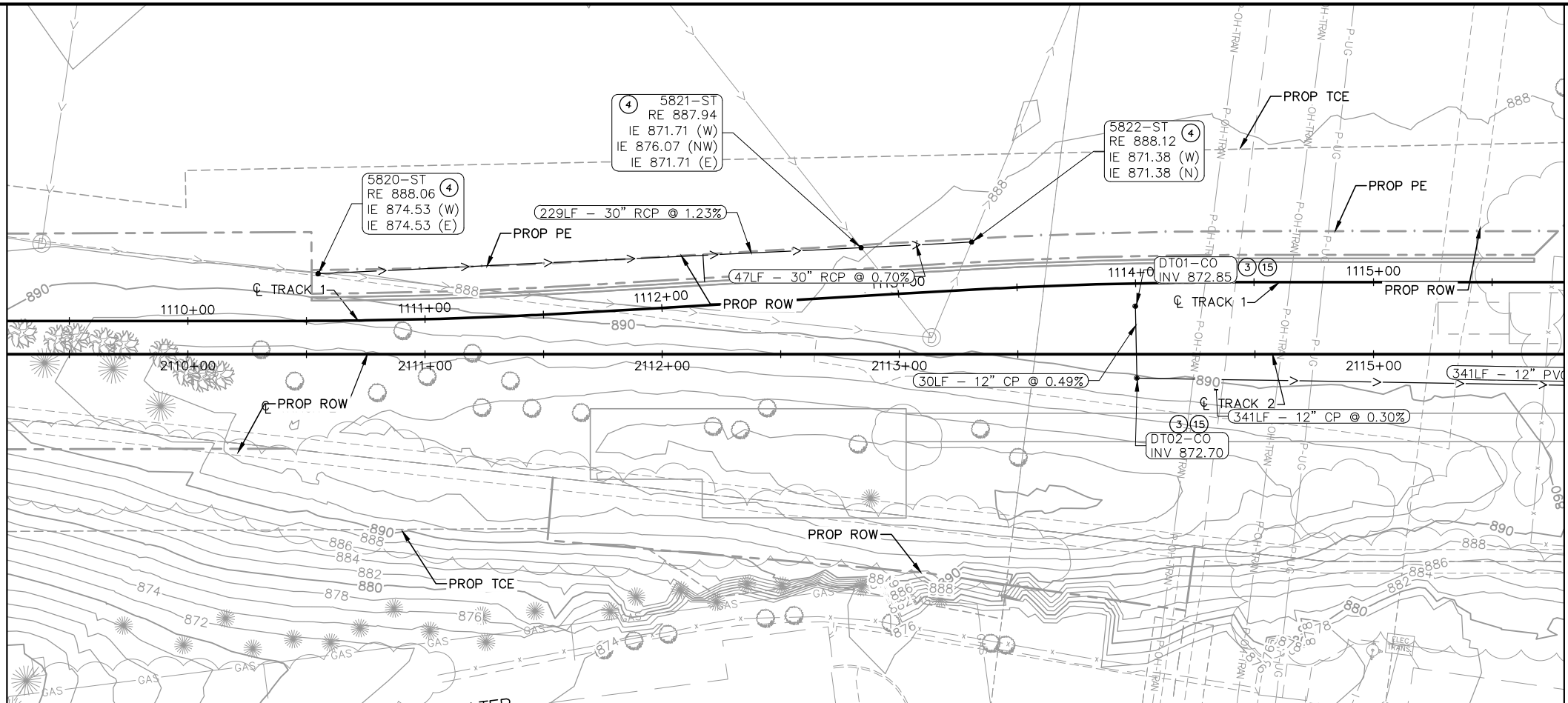


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN AND PROFILE
TRACK STA. 2103+00 TO STA. 2109+50

DISCIPLINE: DRAINAGE SHEET NAME: W1-STM-PRF-001

SHEET
53
OF
96

Sep. 21 2015 10:40 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\STORM SEWER\W1-STM-PRF.dwg By: V-LucasBJ



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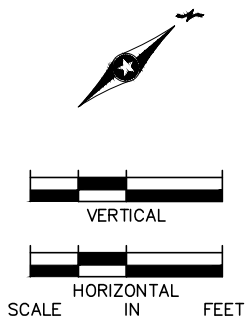
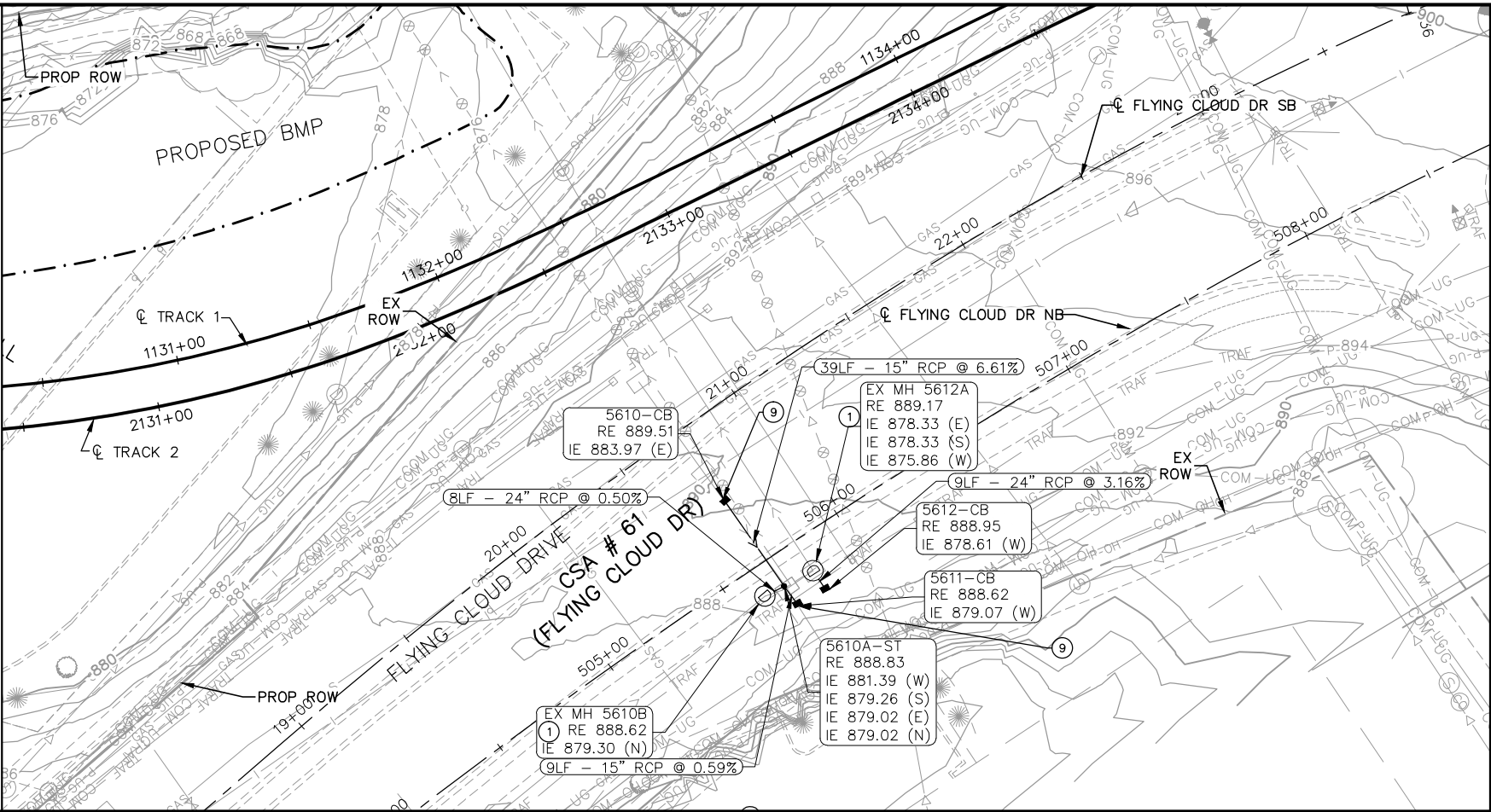


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN AND PROFILE
TRACK STA. 2109+50 TO STA. 2115+50

DISCIPLINE: DRAINAGE
SHEET NAME: W1-STM-PRF-002

SHEET
54
OF
96

Sep. 21 2015 10:41 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\STORM SEWER\W1-STM-PRF.dwg By: V-LucasBJ



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





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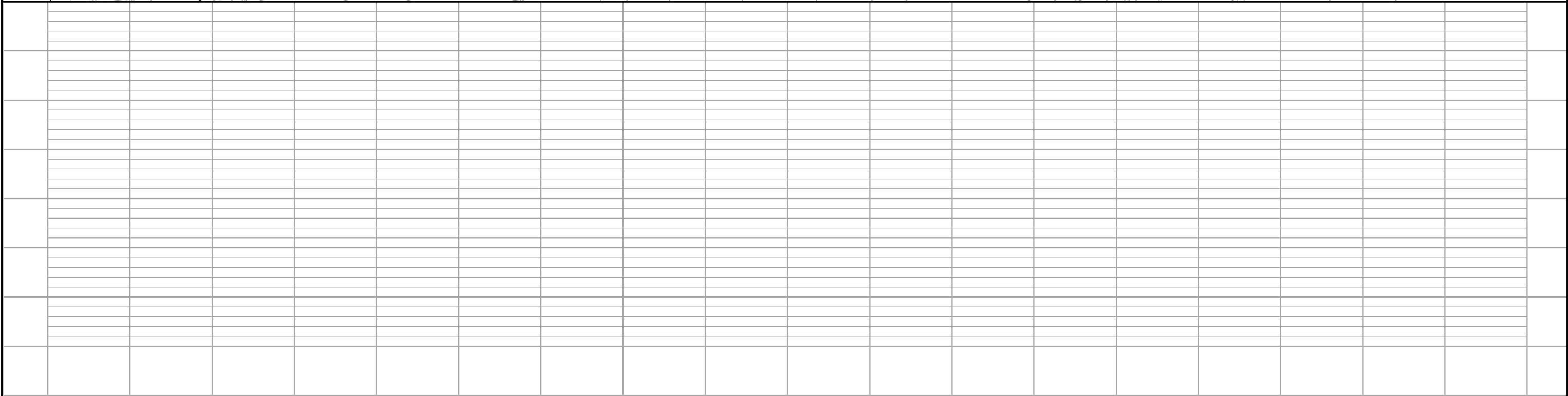
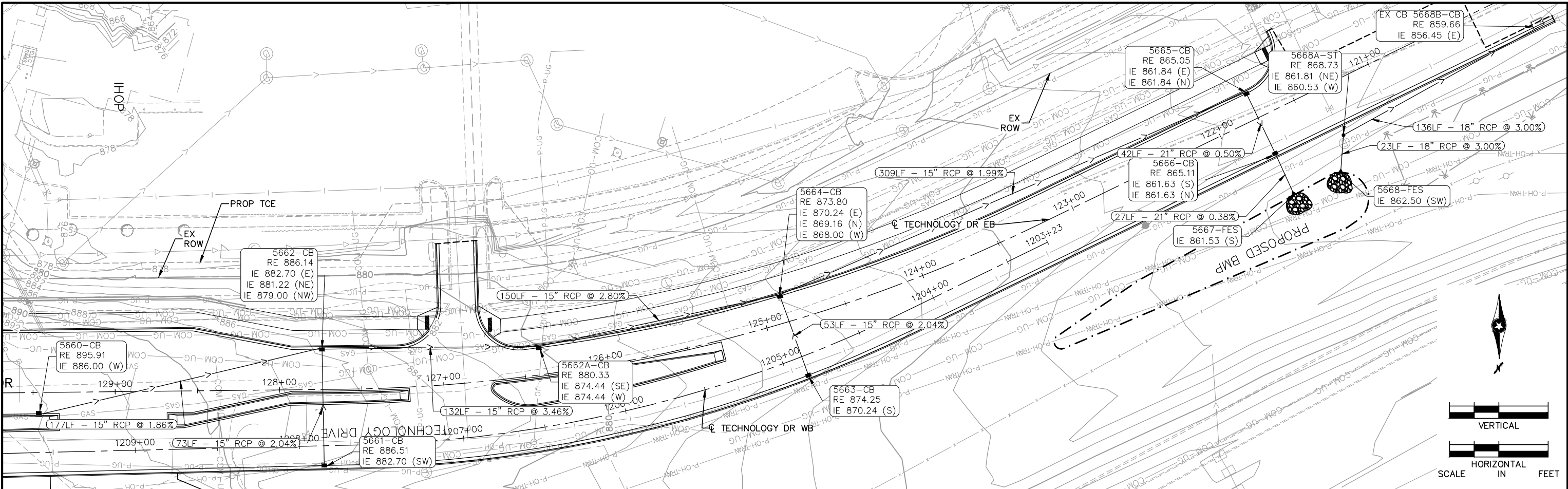


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN AND PROFILE
TRACK STA. 2130+50 TO STA. 2135+50

DISCIPLINE: DRAINAGE
SHEET NAME: W1-STM-PRF-004

SHEET
56
OF
96

Sep. 21 2015 10:43 am V:\3400_ADC\CAD\CAD_00_WEST\PLANSHEETS\STORM SEWER\W1-STM-PRF.dwg By: V-LucasBJ



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CIVIL WEST - VOLUME 8

DRAINAGE

PLAN AND PROFILE

TECHNOLOGY DR STA. 120+00 TO STA. 130+00

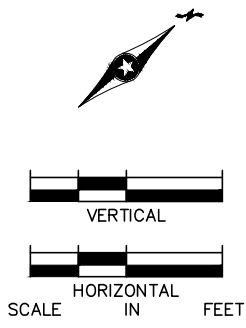
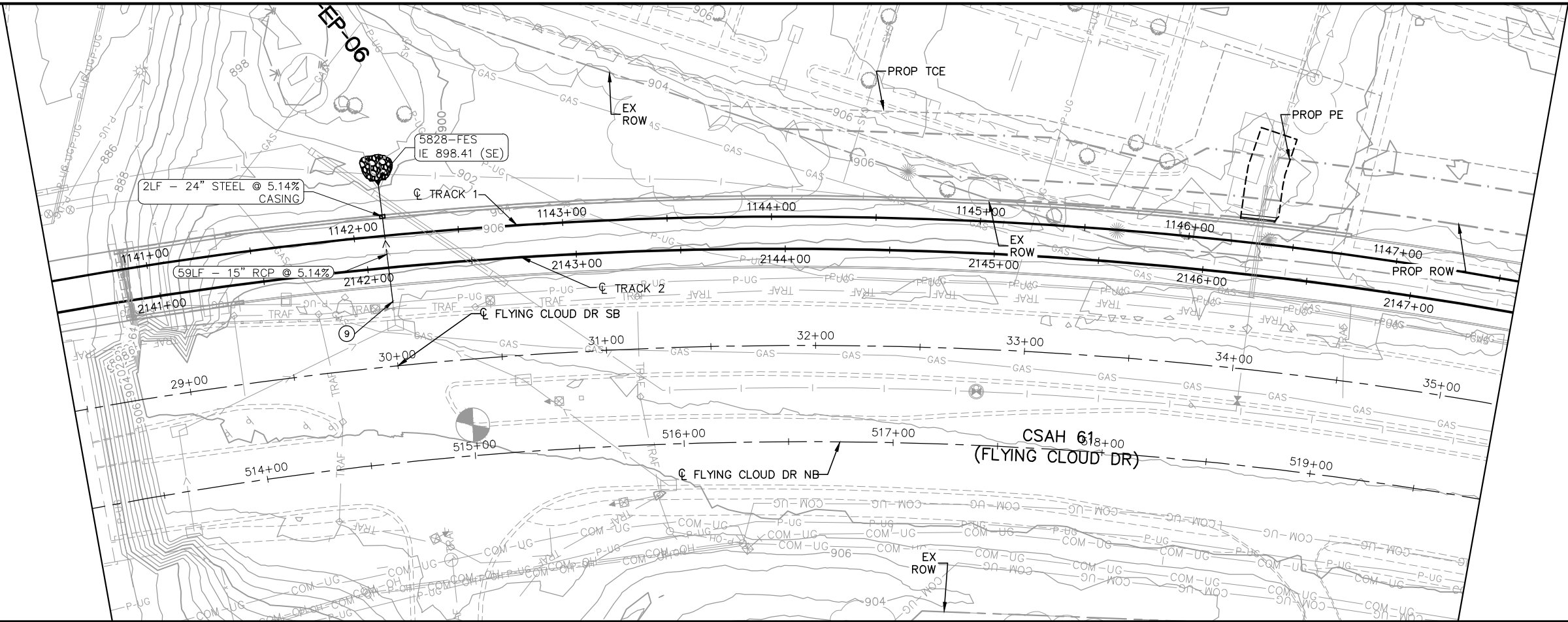
DISCIPLINE:

DRAINAGE

SHEET NAME:

W1-STM-PRF-006

Sep. 21 2015 10:44 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\STORM SEWER\W1-STM-PRF.dwg By: V-LucasBJ



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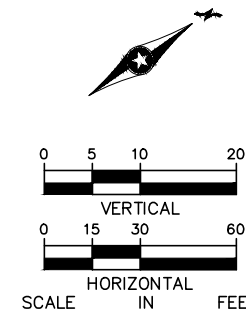
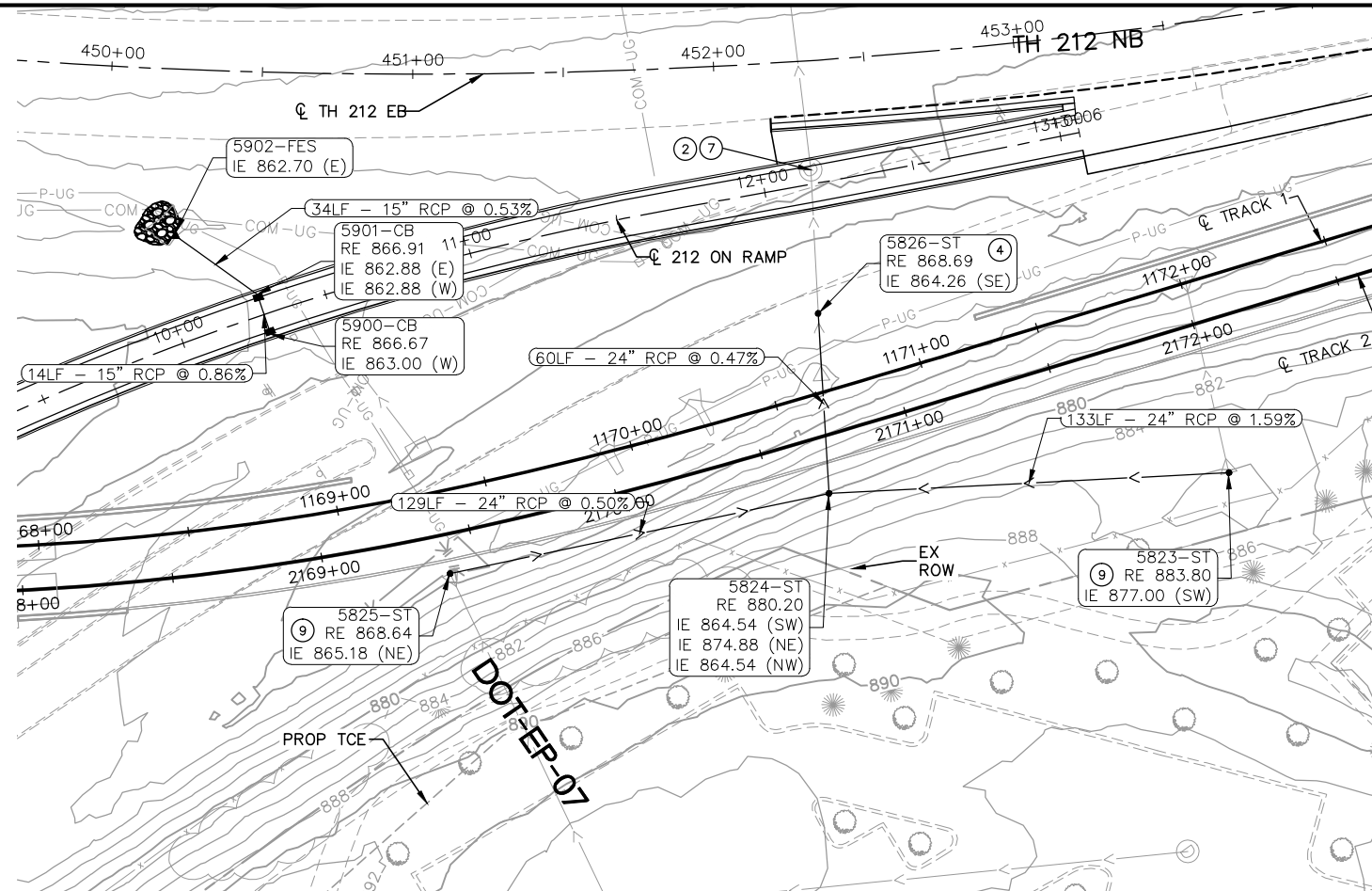


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN AND PROFILE
TRACK STA. 2140+55 TO STA. 2147+50

DISCIPLINE: DRAINAGE
SHEET NAME: W1-STM-PRF-007

SHEET
59
OF
96

Sep. 21 2015 10:45 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\STORM SEWER\W1-STM-PRF.dwg By: V-LucasBJ



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





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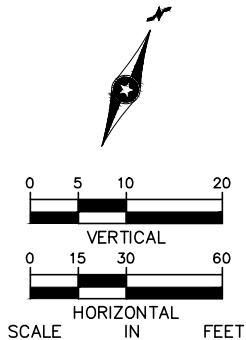
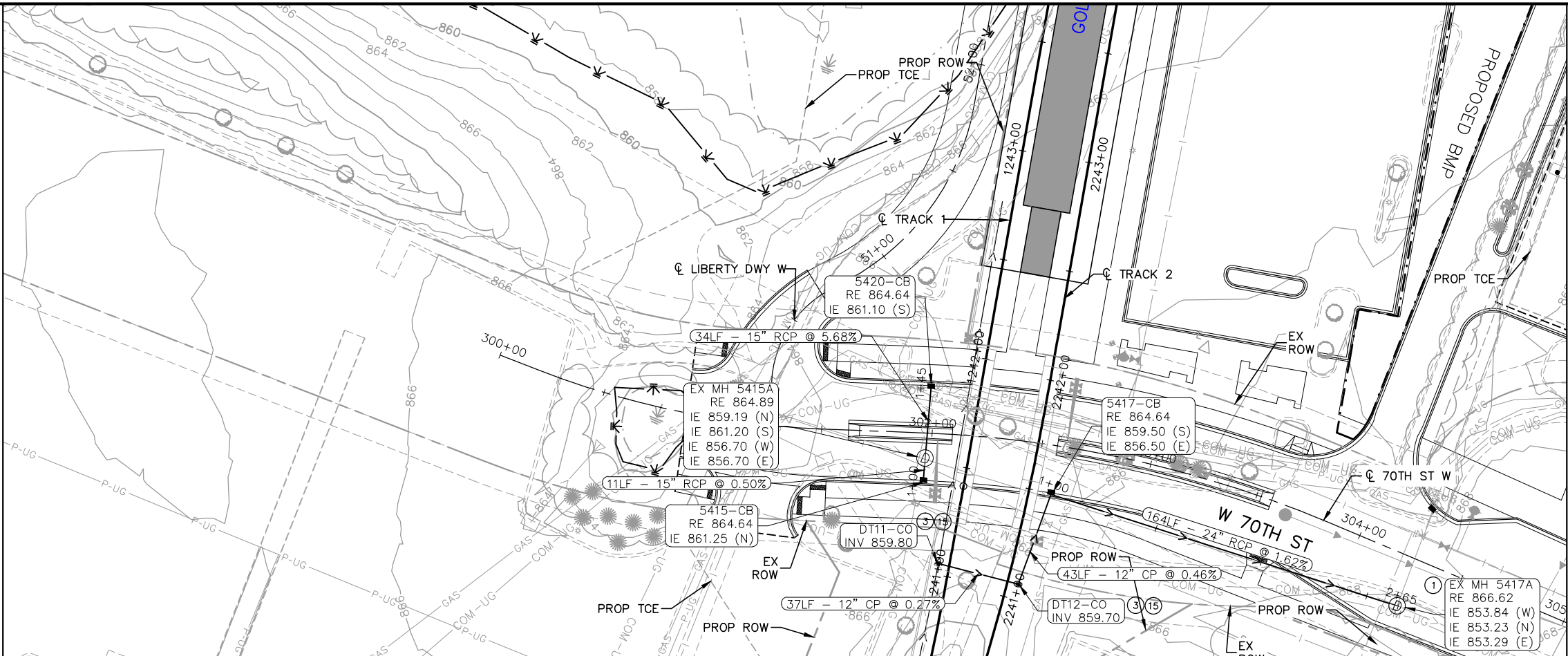


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN AND PROFILE
TRACK STA. 2168+00 TO STA. 2172+50

DISCIPLINE: DRAINAGE SHEET NAME: W1-STM-PRF-008

SHEET
60
OF
96

Sep. 25 2015 09:00 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM SEWER\W2-STM-PRF.dwg By: V-LucasBJ



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



CIVIL WEST - VOLUME 8
DRAINAGE
PLAN AND PROFILE
TRACK STA. 2240+75 TO STA. 2243+50

DISCIPLINE:

DRAINAGE

SHEET NAME:

W2-STM-PRF-001

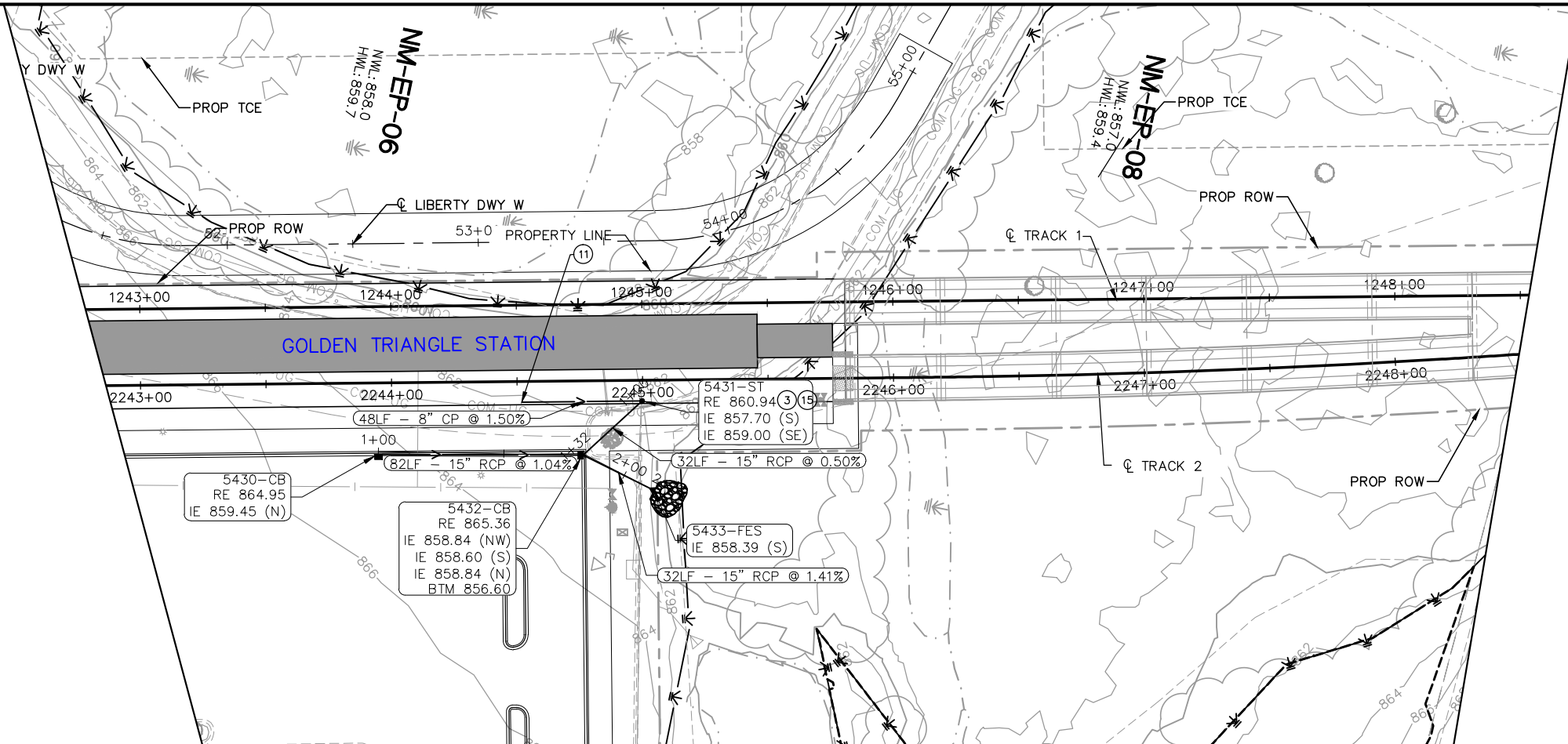
SHEET

61

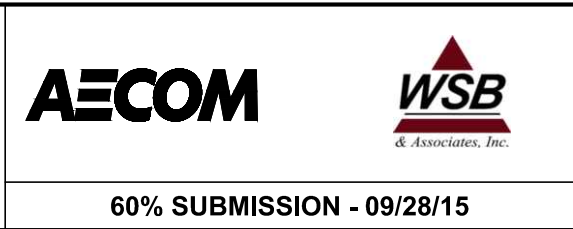
OF

96

Sep. 25 2015 09:01 am V: \\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM SEWER\W2-STM-PRF.dwg By: V-LucasBJ



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

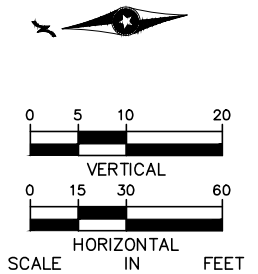
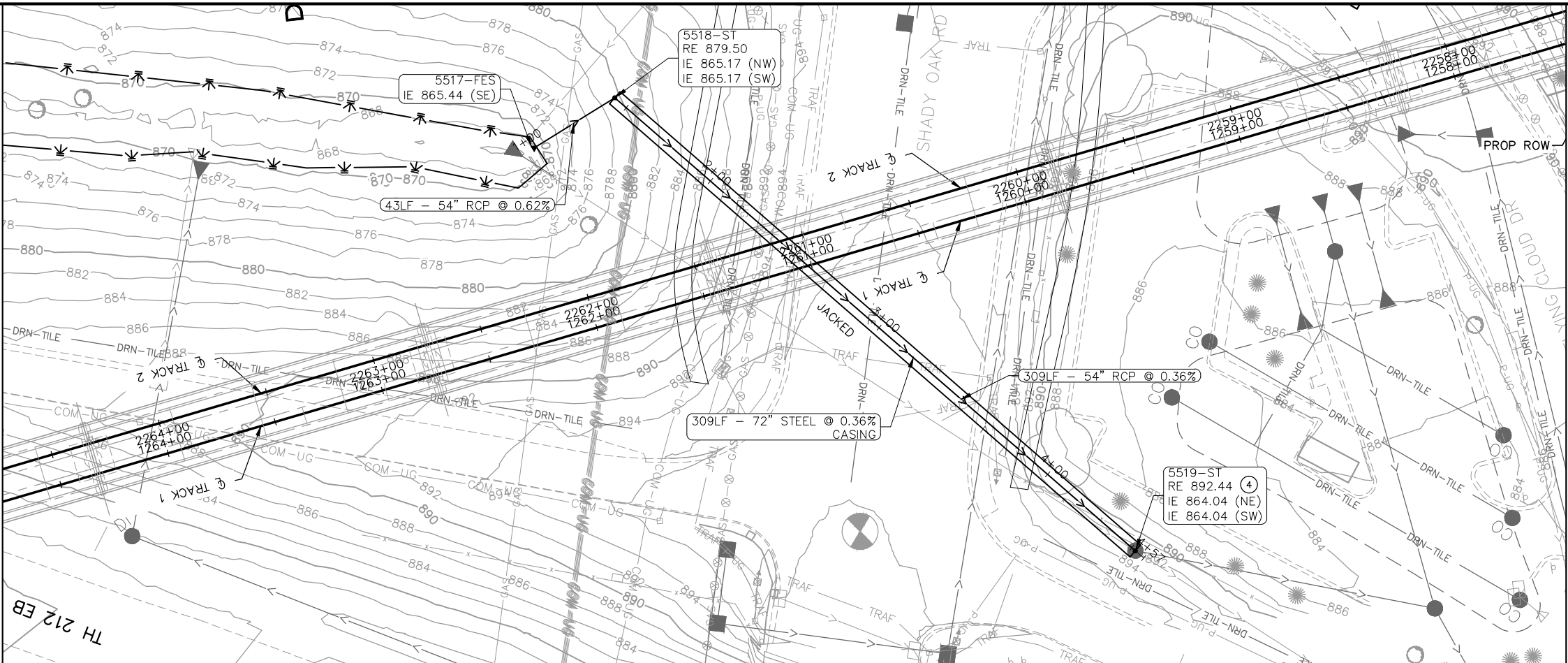


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN AND PROFILE
TRACK STA. 2243+50 TO STA. 2248+50

DISCIPLINE: DRAINAGE

SHEET NAME: W2-STM-PRF-003

Sep. 25 2015 09:03 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM SEWER\W2-STM-PRF.dwg By: V-LucasBJ



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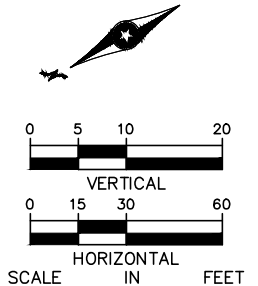
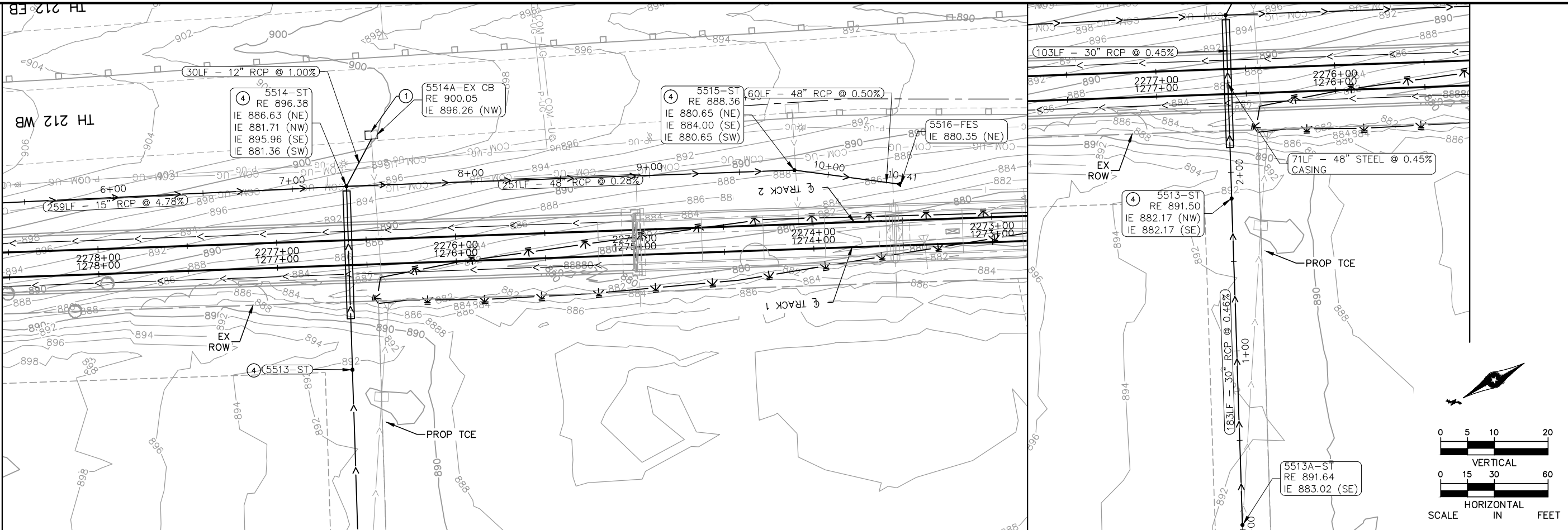
CIVIL WEST - VOLUME 8
DRAINAGE
PLAN AND PROFILE
TRACK STA. 2258+00 TO STA. 2264+50

DISCIPLINE: DRAINAGE
SHEET NAME: W2-STM-PRF-005

SHEET
65
OF
96

Sep. 25 2015 09:04 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM SEWER\W2-STM-PRF.dwg By: V-LucasBJ

MATCH LINE - SHEET 67



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





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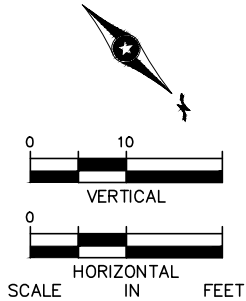
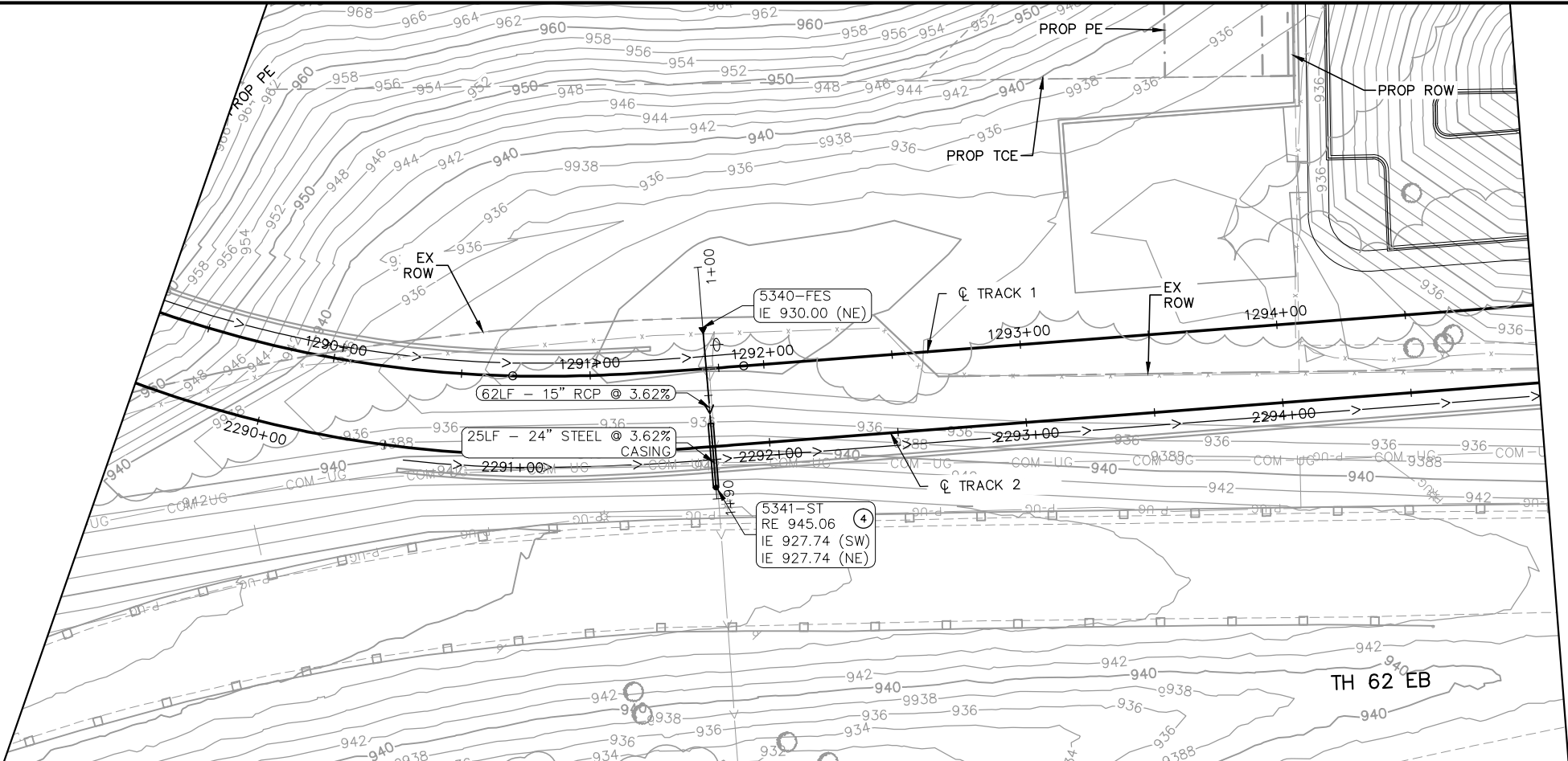


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN AND PROFILE
TRACK STA. 2273+00 TO STA. 2278+50

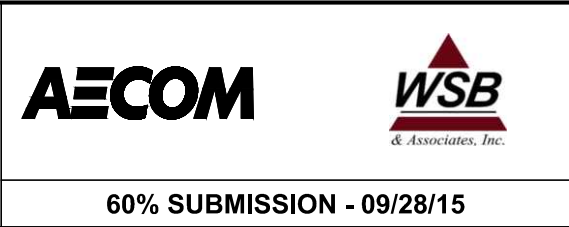
DISCIPLINE: DRAINAGE
SHEET NAME: W2-STM-PRF-006

SHEET 66
OF 96

Sep. 25 2015 09:06 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM SEWER\W2-STM-PRF.dwg By: V-LucasBJ



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

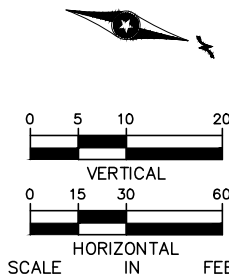
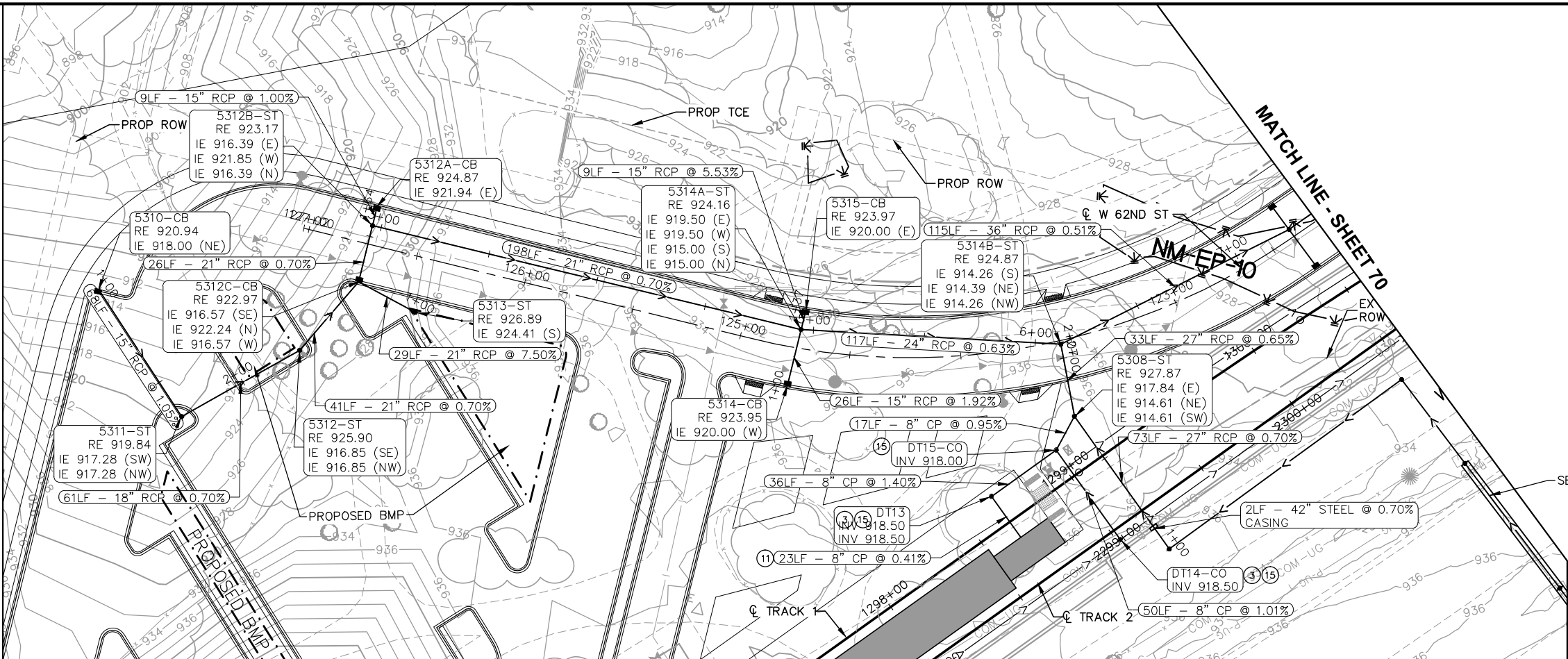


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN AND PROFILE
TRACK STA. 2289+50 TO STA. 2295+00

DISCIPLINE: DRAINAGE

SHEET NAME: W2-STM-PRF-008

Sep. 25 2015 09:06 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM SEWER\W2-STM-PRF.dwg By: V-LucasBJ



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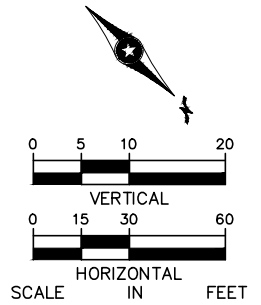
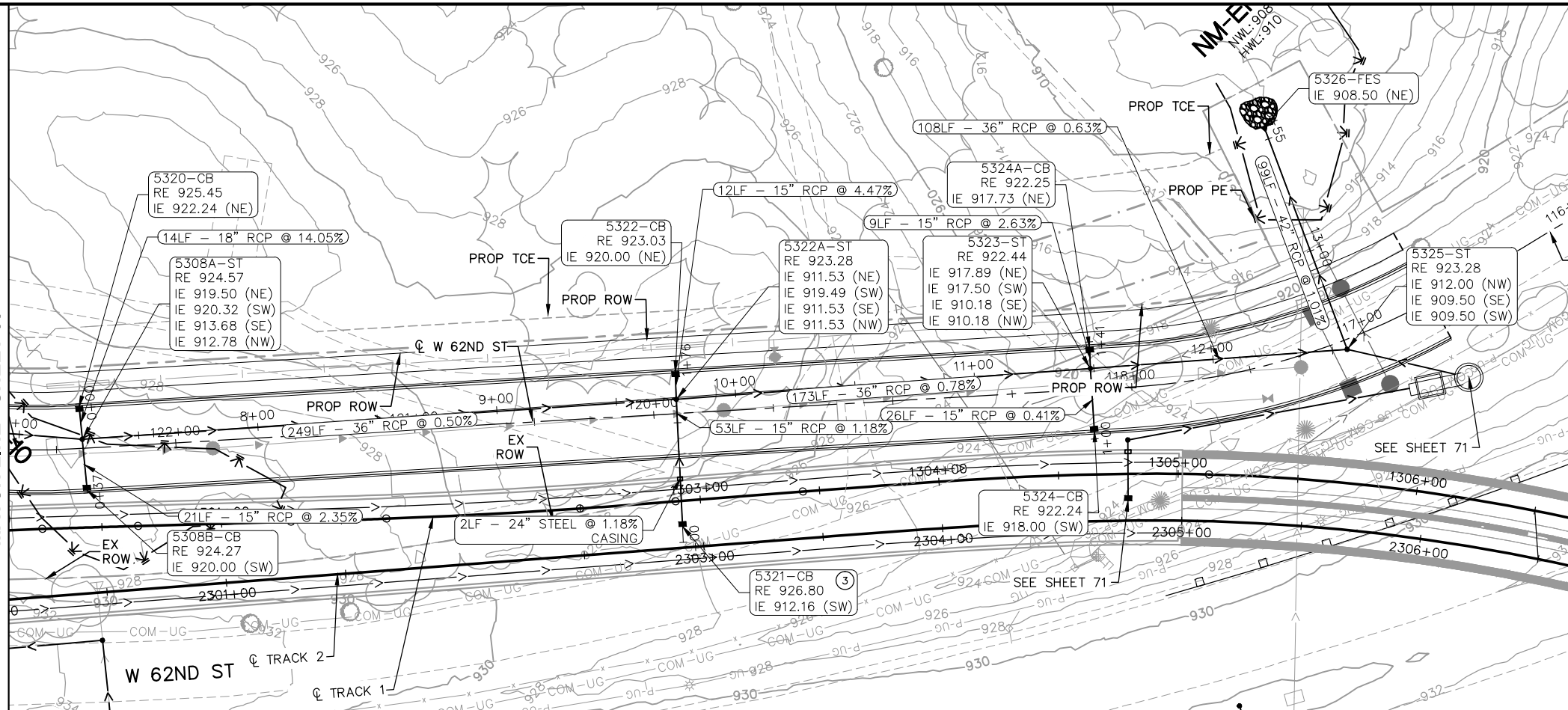
CIVIL WEST - VOLUME 8
DRAINAGE
PLAN AND PROFILE
W 62ND ST STA. 122+42 TO STA. 127+20

DISCIPLINE: DRAINAGE
SHEET NAME: W2-STM-PRF-009

SHEET
69
OF
96

Sep. 25 2015 09:07 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM SEWER\W2-STM-PRF.dwg By: V-LucasBJ

MATCH LINE - SHEET 69



NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL





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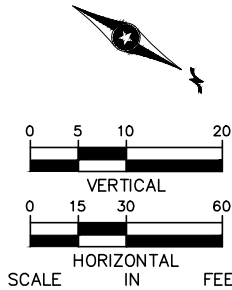
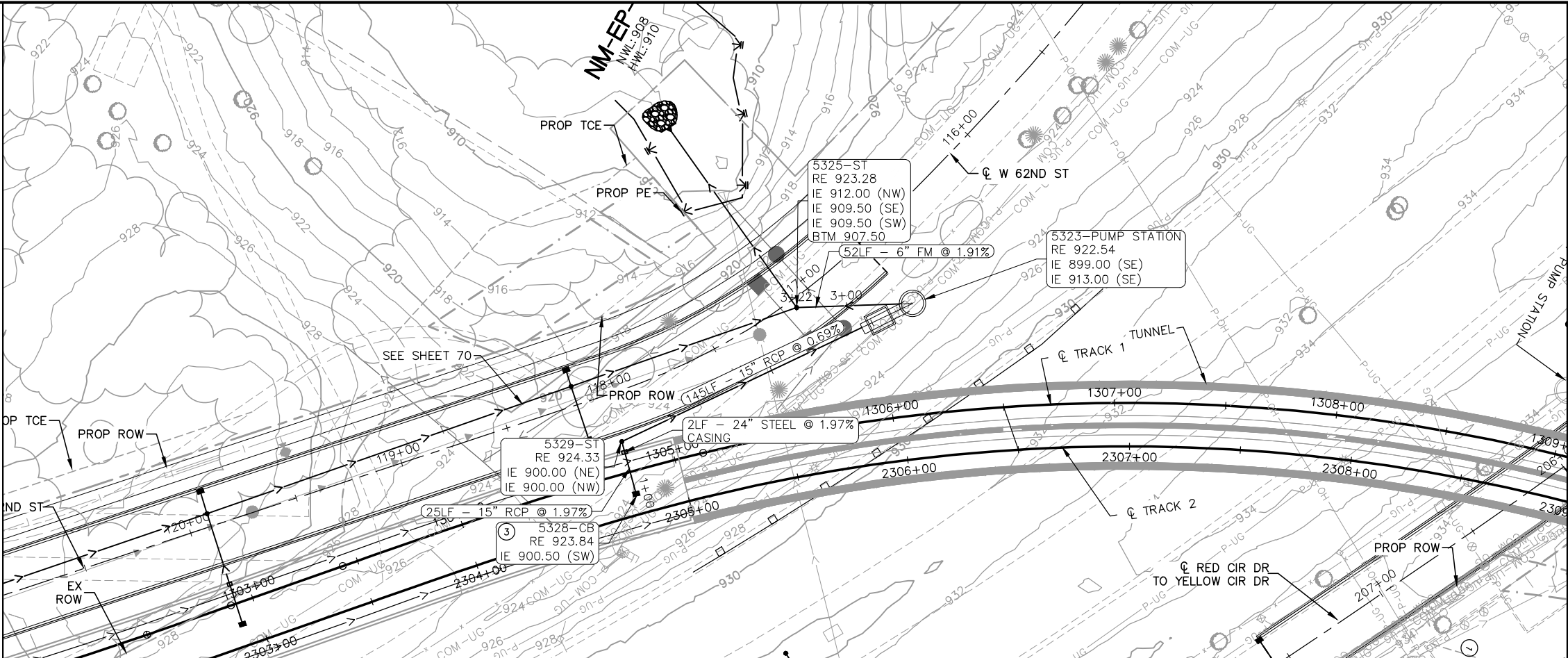


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN AND PROFILE
W 62ND ST STA. 117+00 TO STA. 122+42

DISCIPLINE: DRAINAGE
SHEET NAME: W2-STM-PRF-010

SHEET
70
OF
96

Sep. 25 2015 09:08 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM SEWER\W2-STM-PRF.dwg By: V-LucasBJ



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60% SUBMISSION - 09/28/15

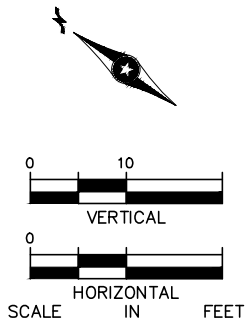
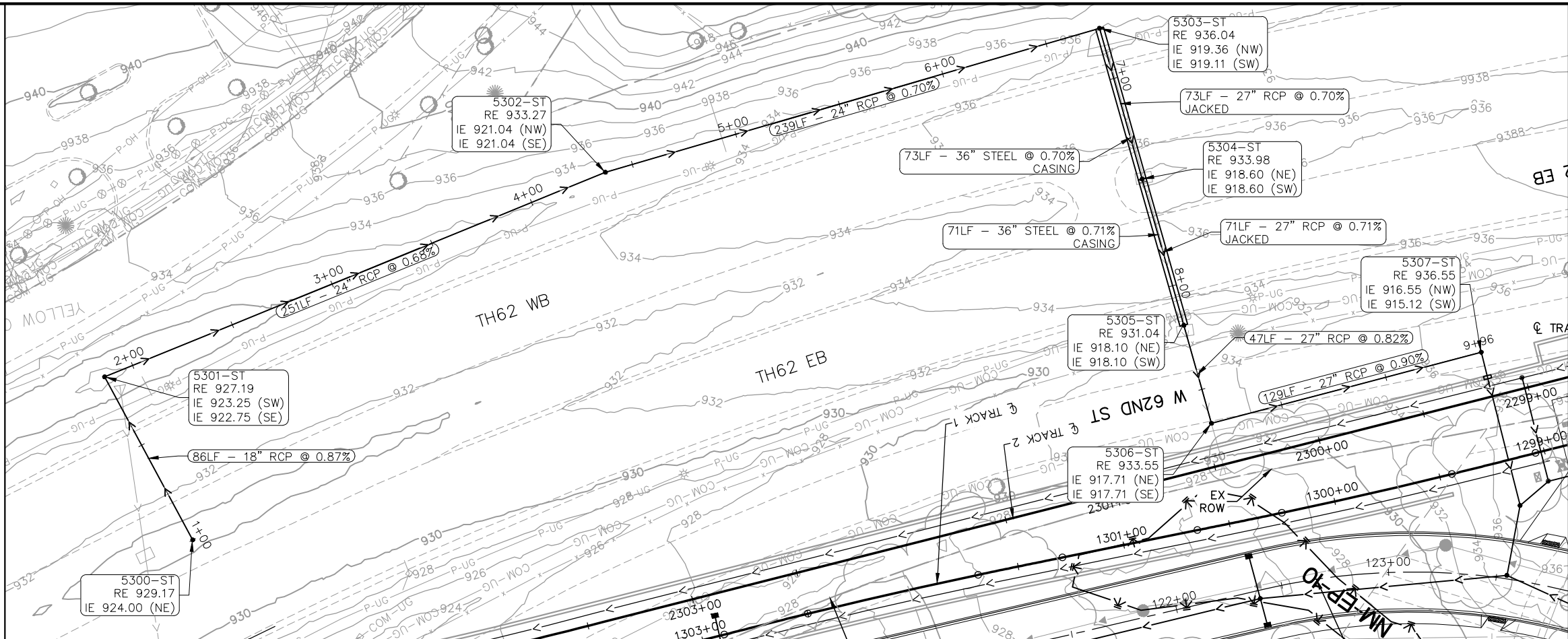


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN AND PROFILE
TRACK STA. 2304+75 TO STA. 2306+25

DISCIPLINE: DRAINAGE
SHEET NAME: W2-STM-PRF-011

SHEET
71
OF
96

Sep. 25 2015 09:09 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM SEWER\W2-STM-PRF.dwg By: V-LucasBJ



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





60% SUBMISSION - 09/28/15

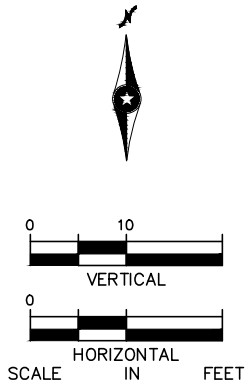
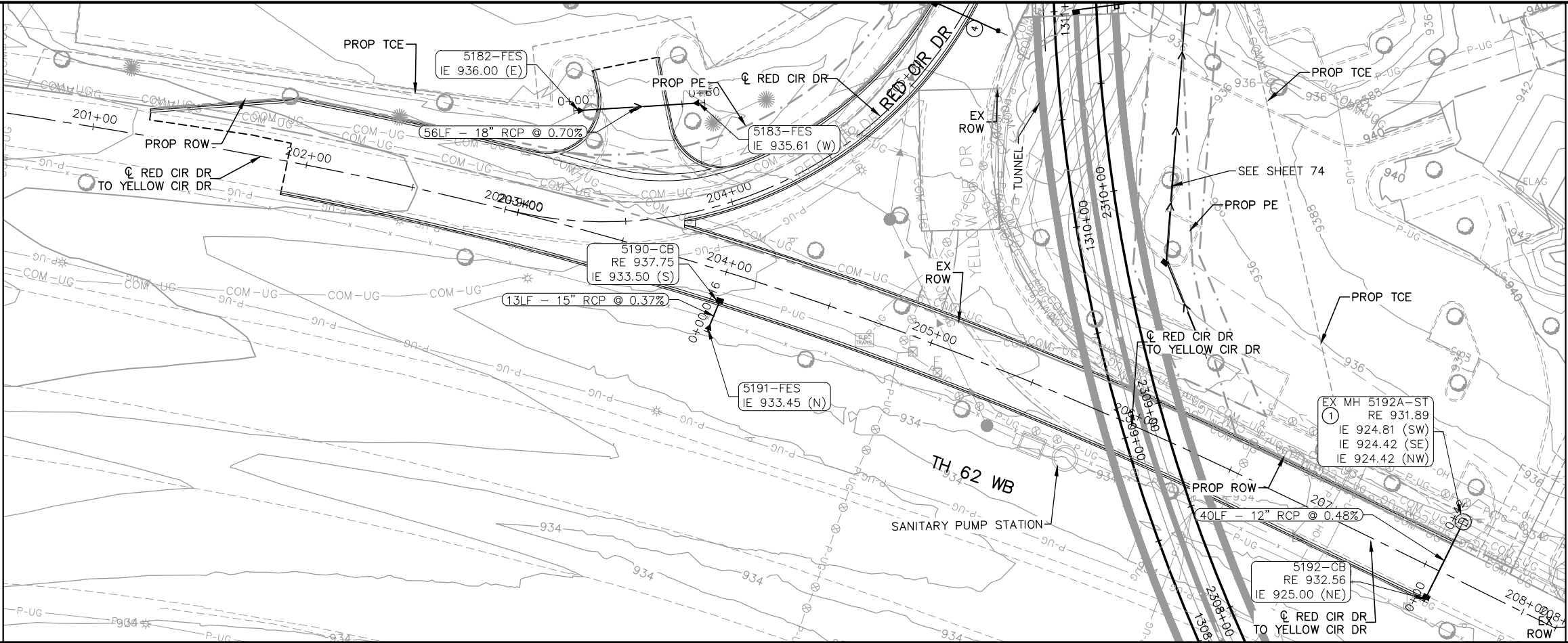


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN AND PROFILE
TRACK STA. 2299+00 TO STA. 2303+00

DISCIPLINE: DRAINAGE
SHEET NAME: W2-STM-PRF-012

SHEET
72
OF
96

Sep. 25 2015 09:10 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM SEWER\W2-STM-PRF.dwg By: V-LucasBJ



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





60% SUBMISSION - 09/28/15

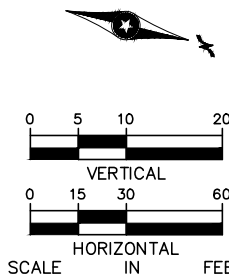
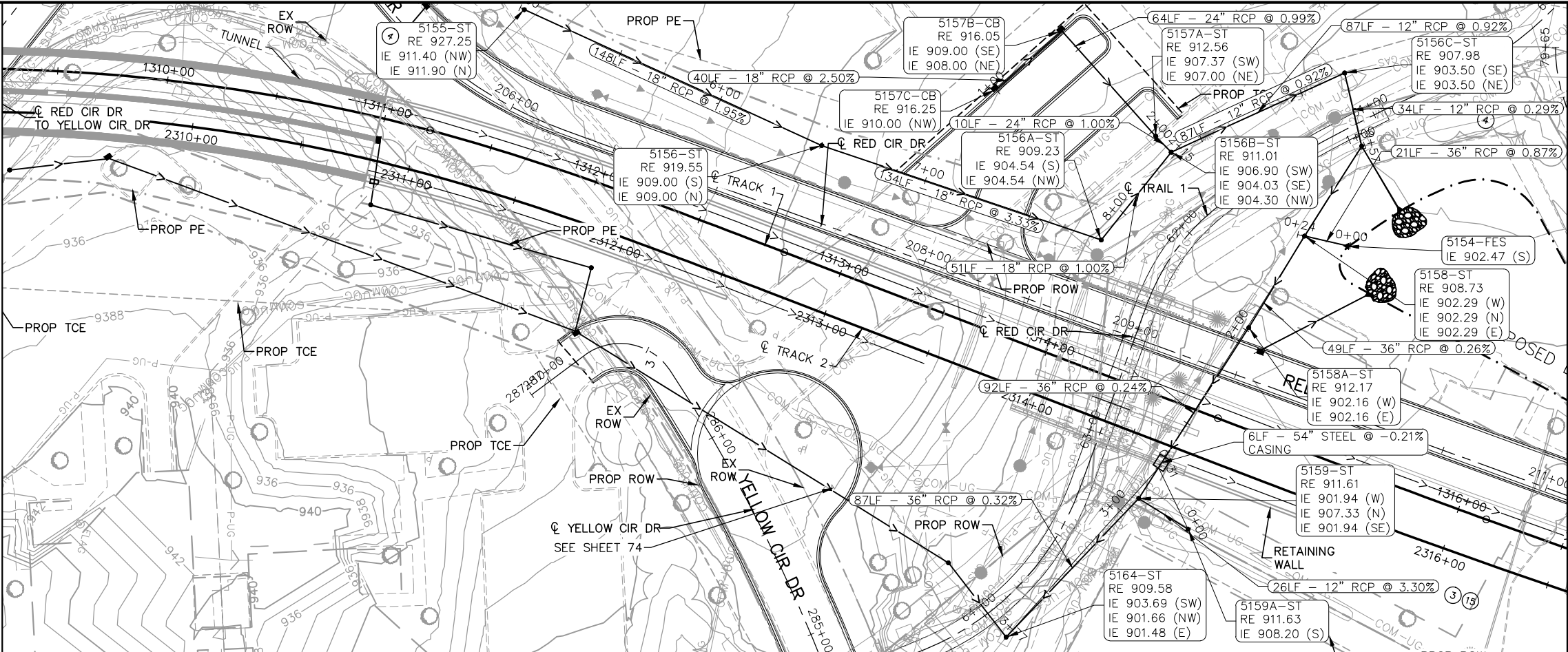


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN AND PROFILE
RED CIRCLE DR STA. 201+00 TO STA. 208+00

DISCIPLINE: DRAINAGE
SHEET NAME: W2-STM-PRF-013

SHEET
73
OF
96

Sep. 25 2015 09:12 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM SEWER\W2-STM-PRF.dwg By: V-LucasBJ



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





60% SUBMISSION - 09/28/15

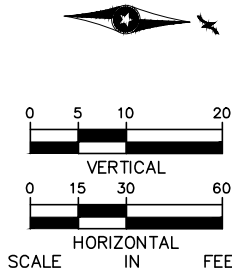
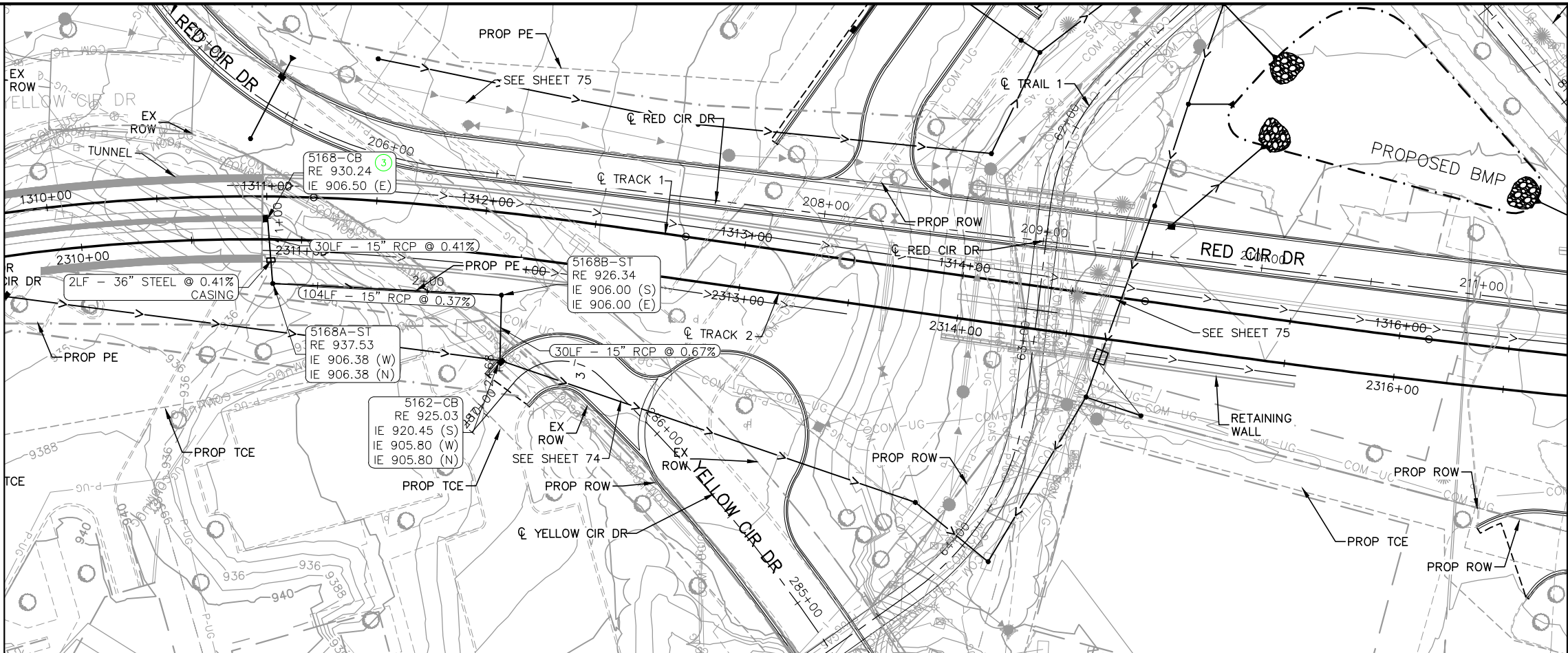


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN AND PROFILE
TRACK STA. 2310+00 TO STA. 2317+00

DISCIPLINE: DRAINAGE SHEET NAME: W2-STM-PRF-015

SHEET
75
OF
96

Sep. 25 2015 09:12 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\STORM SEWER\W2-STM-PRF.dwg By: V-LucasBJ



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



CIVIL WEST - VOLUME 8
DRAINAGE
PLAN AND PROFILE
TRACK STA. 2311+00 TO STA. 2313+00

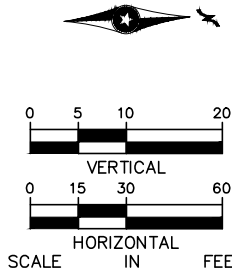
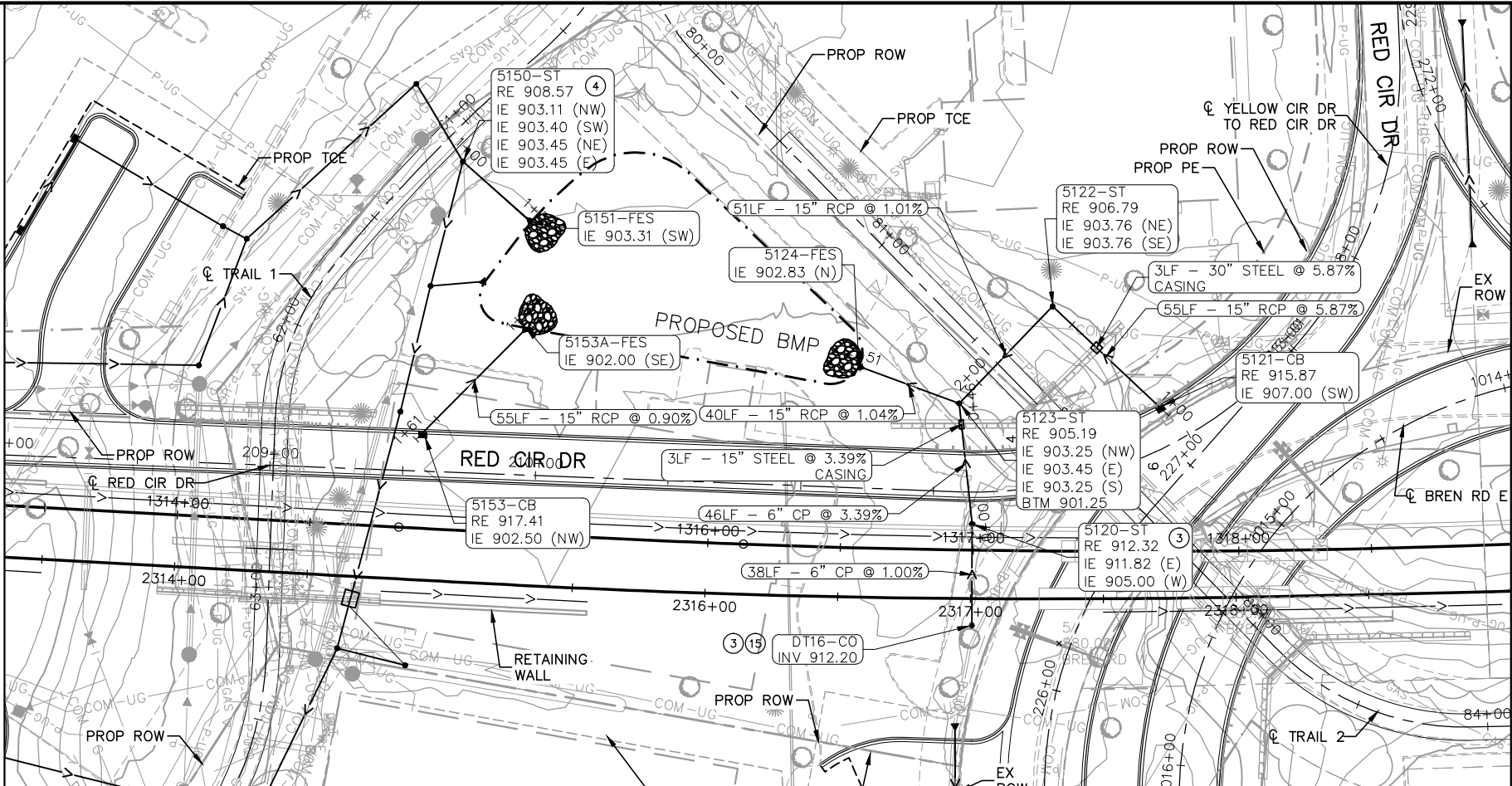
DISCIPLINE: DRAINAGE

SHEET NAME: W2-STM-PRF-016

SHEET
76
OF
96

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Sep. 25 2015 09:13 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\STORM_SEWER\W2-STM-PRF.dwg By: V-LucasBJ



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





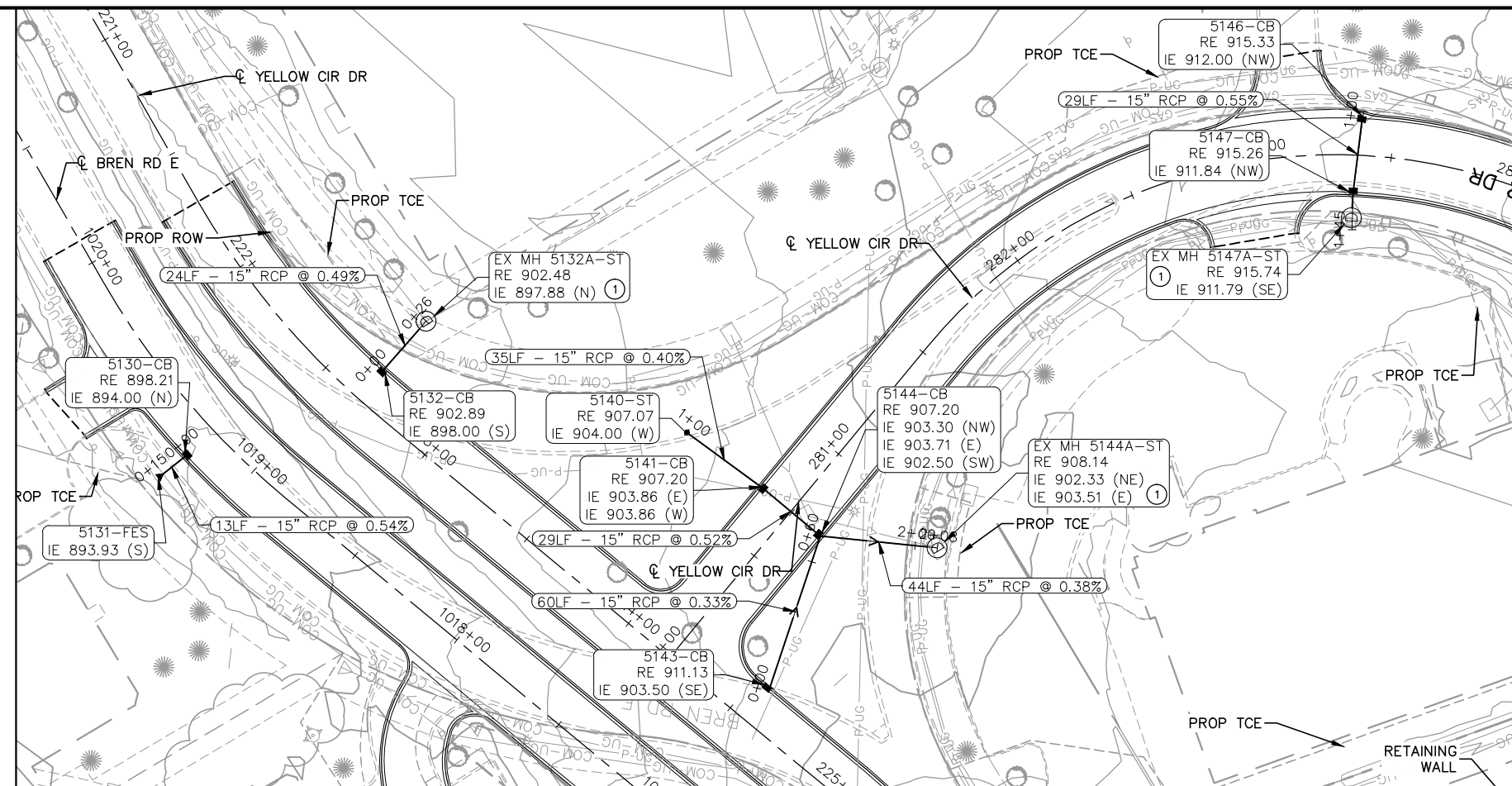
60% SUBMISSION - 09/28/15



CIVIL WEST - VOLUME 8
DRAINAGE
PLAN AND PROFILE
TRACK STA. 2314+00 TO STA. 2319+00

DISCIPLINE: DRAINAGE
SHEET NAME: W2-STM-PRF-017

SHEET
77
OF
96

[illegible]**AECOM**

WSB
& Associates, Inc.



METROPOLITAN
COUNCIL

SOUTHWEST

Green Line LRT Extension

CIVIL WEST - VOLUME 8
DRAINAGE
PLAN AND PROFILE
RED CIRCLE DR STA. 221+00 TO STA. 225+00

DISCIPLINE:

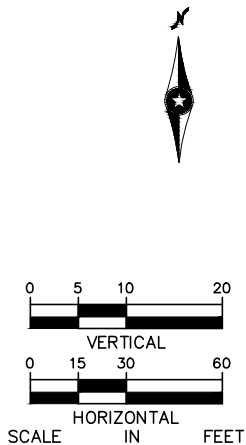
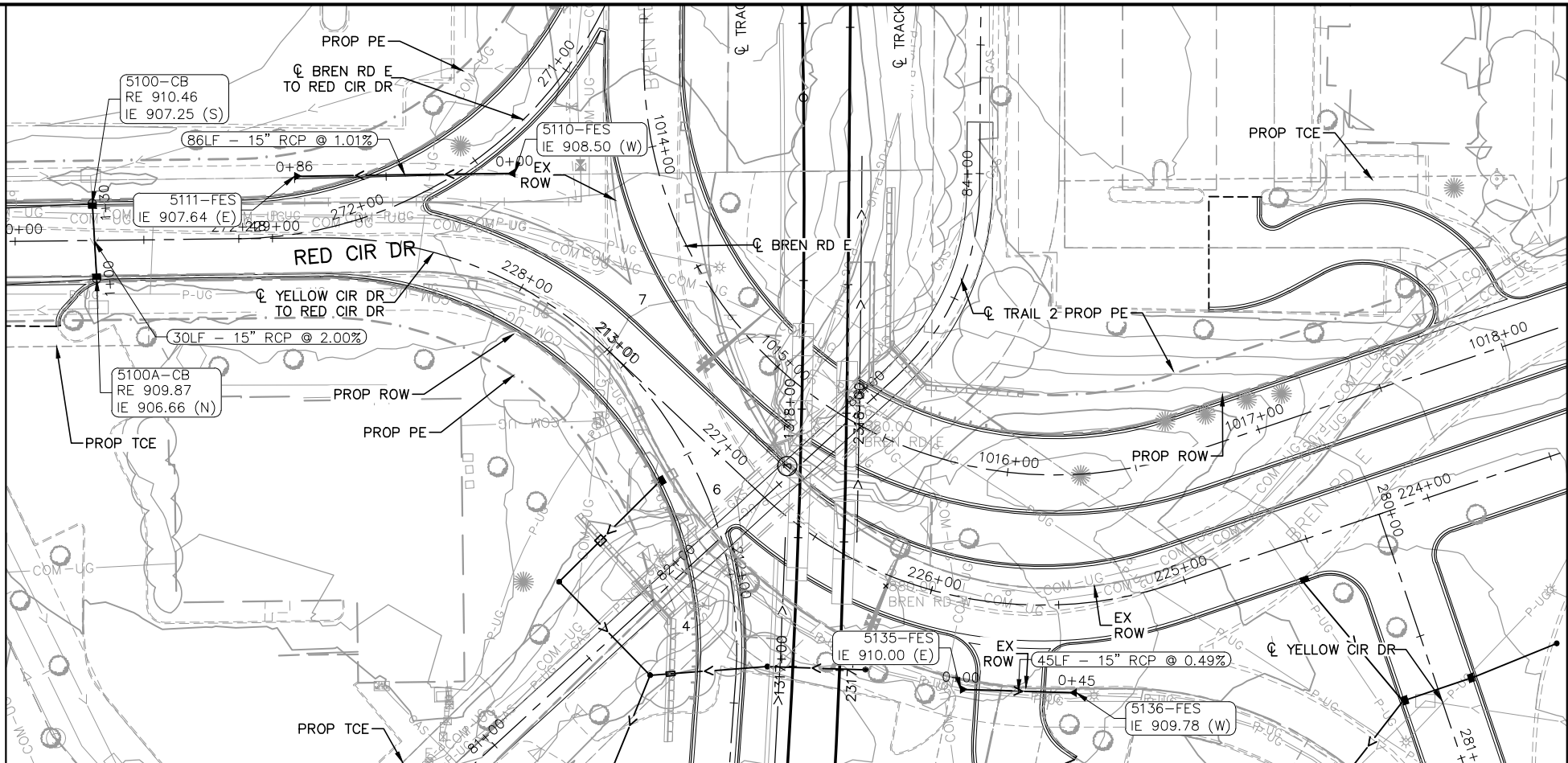
DRAINAGE

SHEET NAME:	
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W2-STM-PRF-018

HEET
78
OF
96

Sep. 25 2015 09:15 am V:\3400_ADC\CAD\00_WEST\PLANSHEETS\STORM SEWER\W2-STM-PRF.dwg By: V-LucasBJ



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





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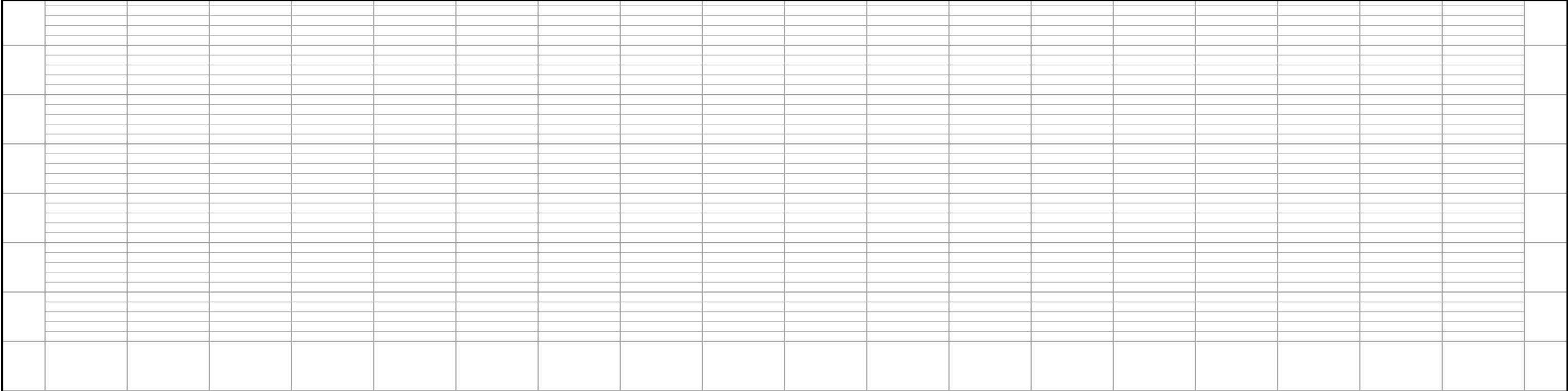
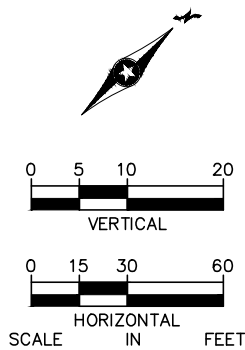
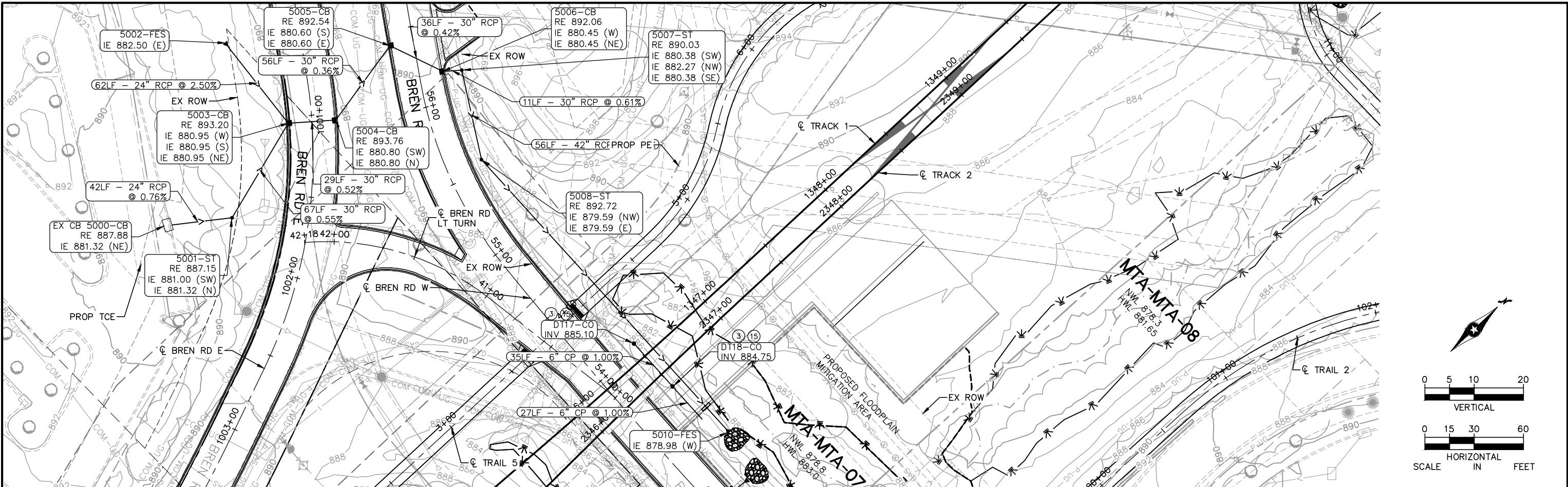


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN AND PROFILE
RED CIRCLE DR STA. 224+00 TO STA. 228+81

DISCIPLINE: DRAINAGE
SHEET NAME: W2-STM-PRF-019

SHEET
79
OF
96

Sep. 21 2015 11:18 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\STORM SEWER\W3-STM-PRF.dwg By: V-LucasBJ



NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL





60% SUBMISSION - 09/28/15

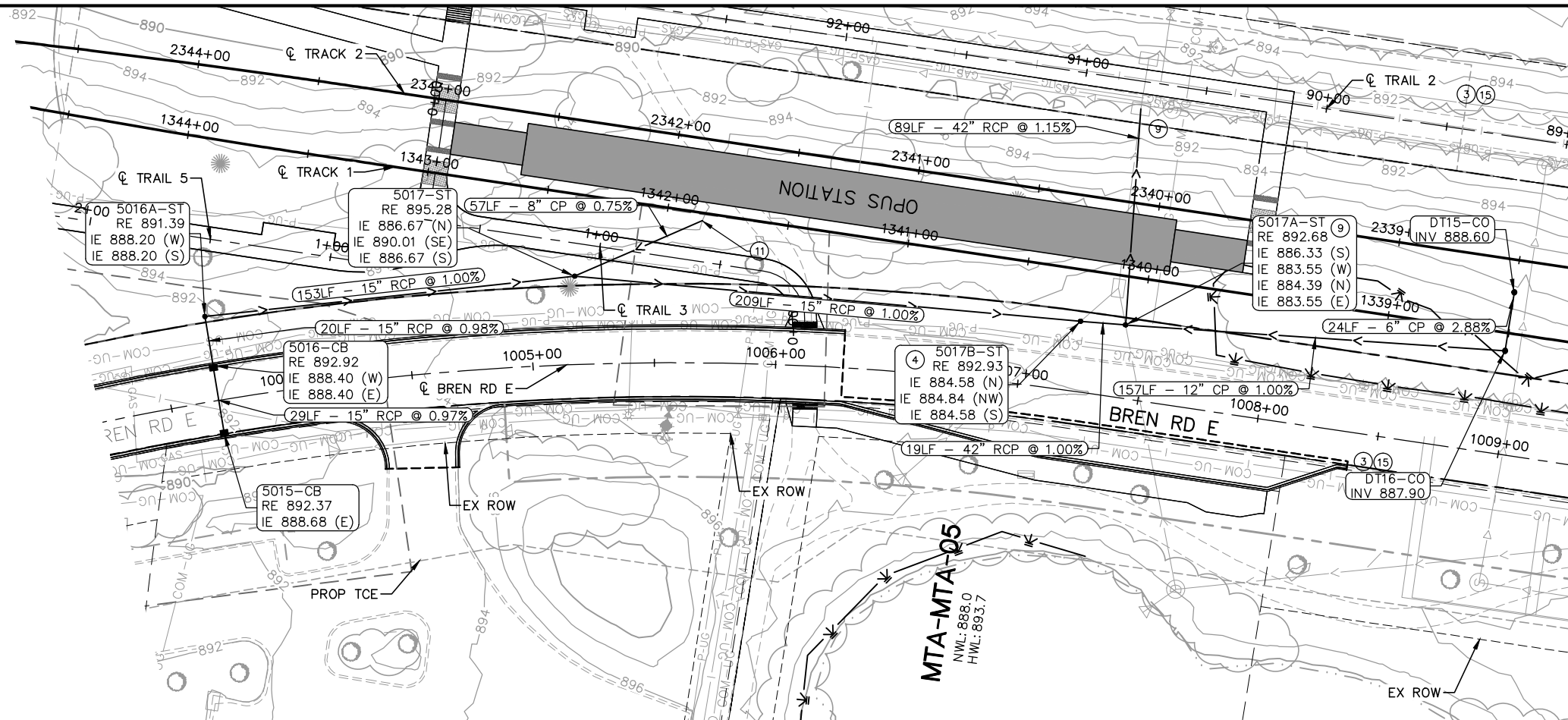


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN AND PROFILE
TRACK STA. 2335+00 TO STA. 2342+50

DISCIPLINE: DRAINAGE
SHEET NAME: W3-STM-PRF-001

SHEET 80 OF 96

Sep. 21 2015 11:19 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\STORM SEWER\W3-STM-PRF.dwg By: V-LucasBJ



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





60% SUBMISSION - 09/28/15

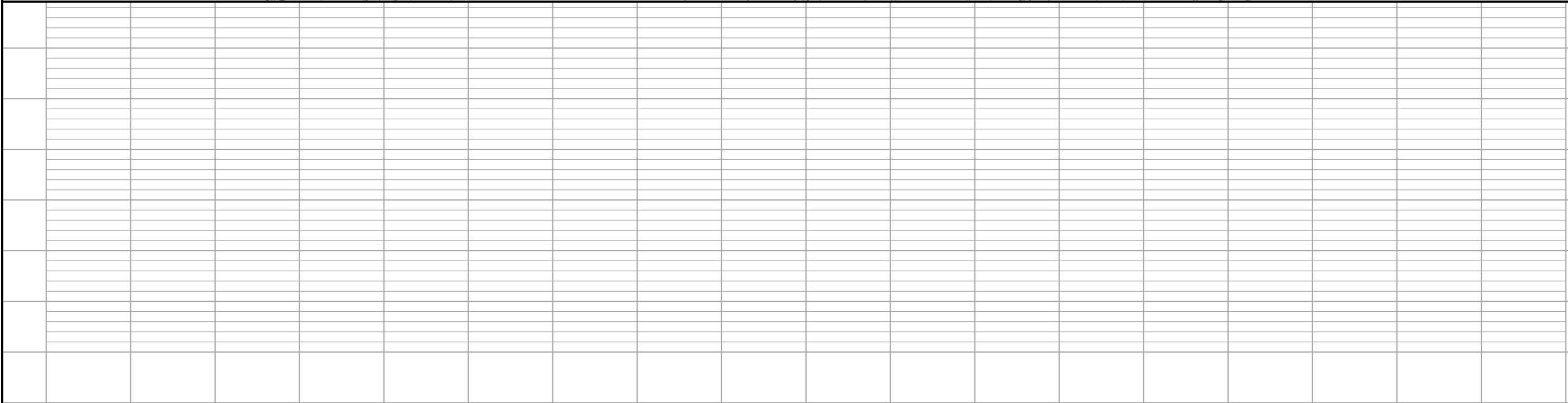
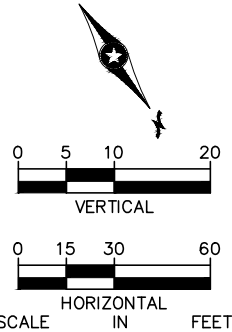
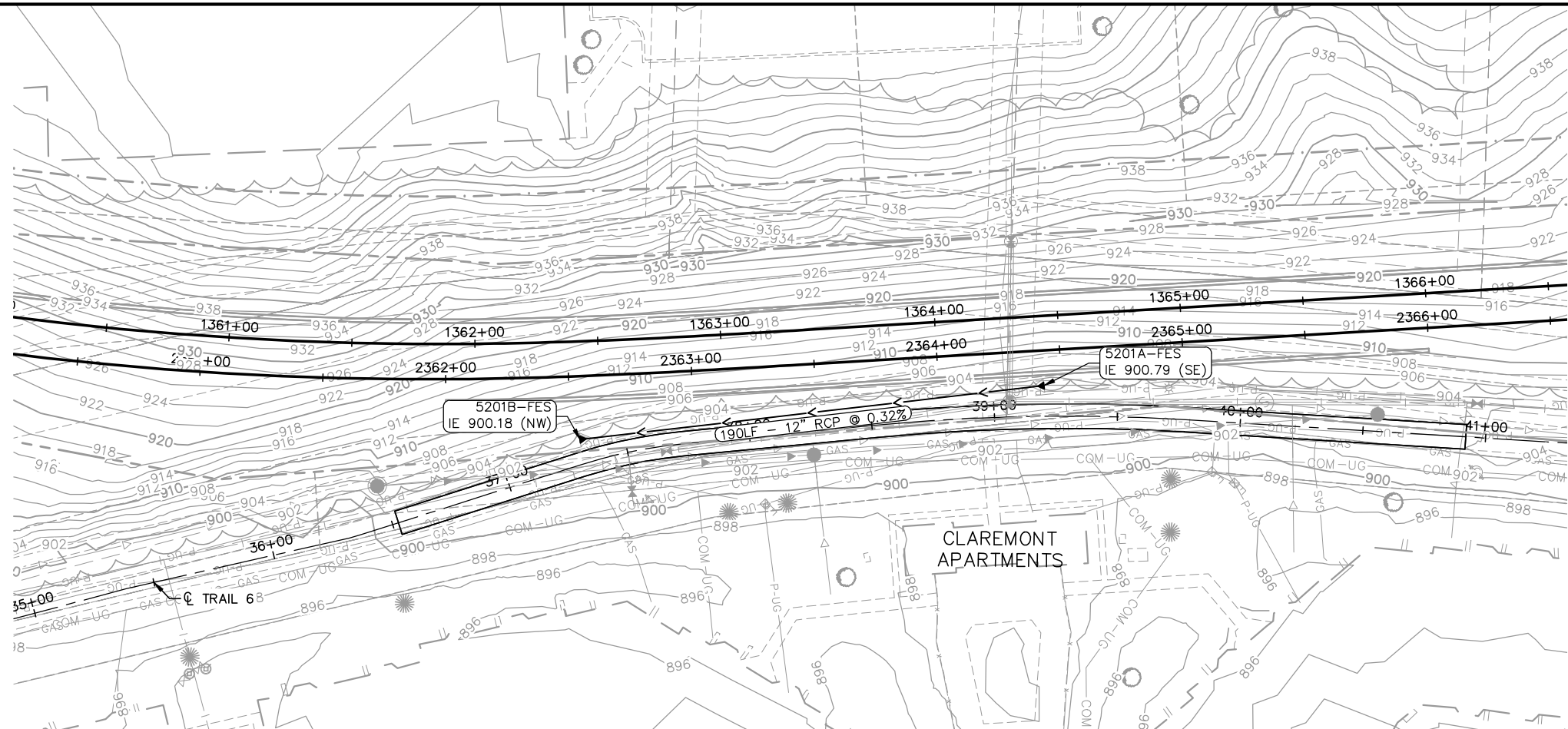


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN AND PROFILE
TRACK STA. 2338+50 TO STA. 2344+50

DISCIPLINE: DRAINAGE
SHEET NAME: W3-STM-PRF-002

SHEET
81
OF
96

Sep. 21 2015 11:21 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\STORM SEWER\W3-STM-PRF.dwg By: V-LucasBJ



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





60% SUBMISSION - 09/28/15

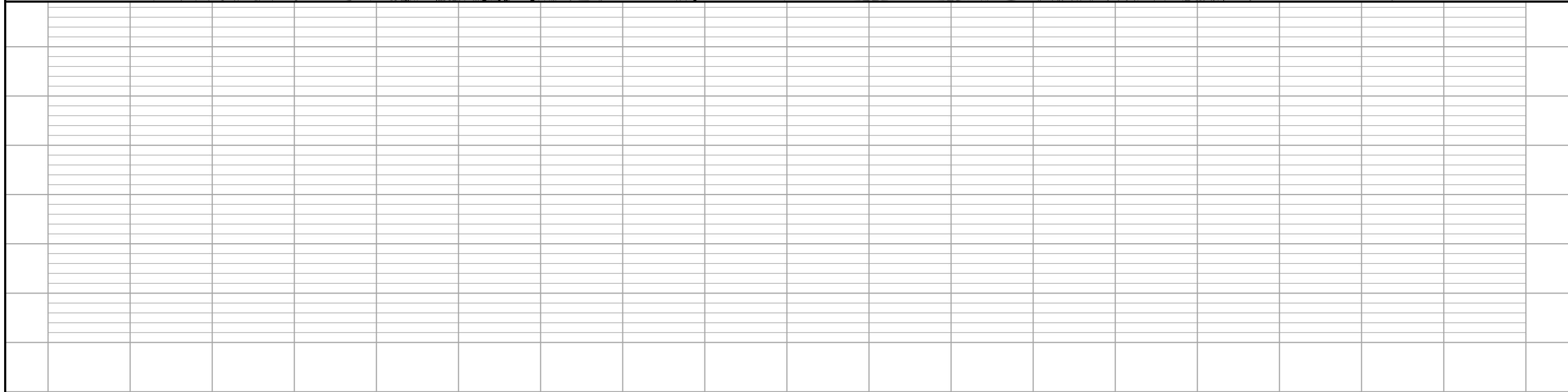
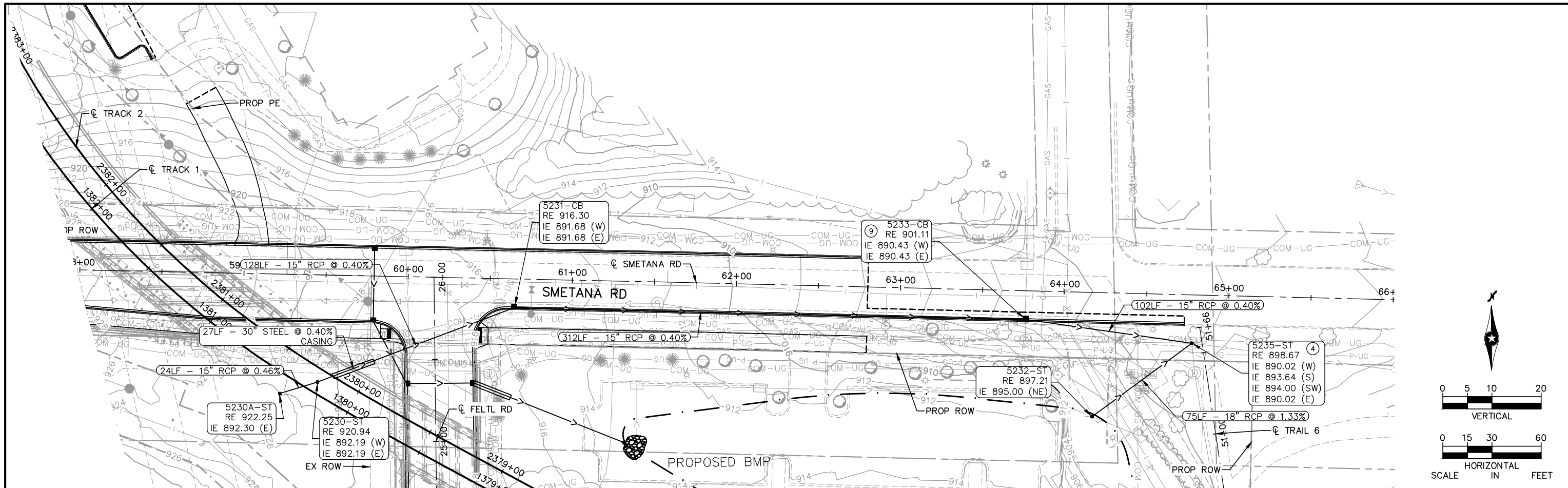


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN AND PROFILE
TRACK STA. 2360+50 TO STA. 2366+50

DISCIPLINE: DRAINAGE
SHEET NAME: W3-STM-PRF-004

SHEET
83
OF
96

Sep. 21 2015 11:25 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\STORM SEWER\W3-STM-PRF.dwg By: V-LucasBJ



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





60% SUBMISSION - 09/28/15

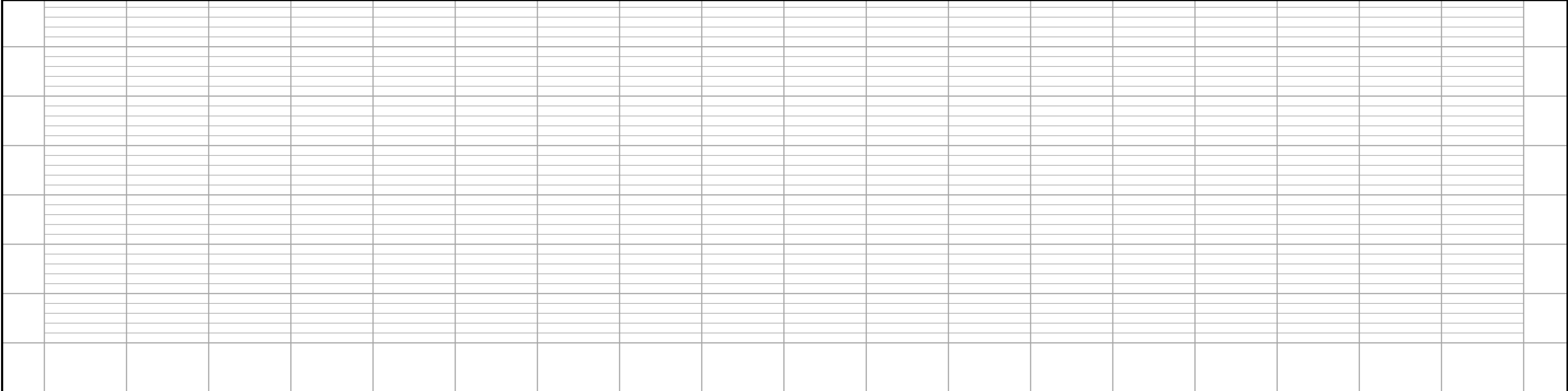
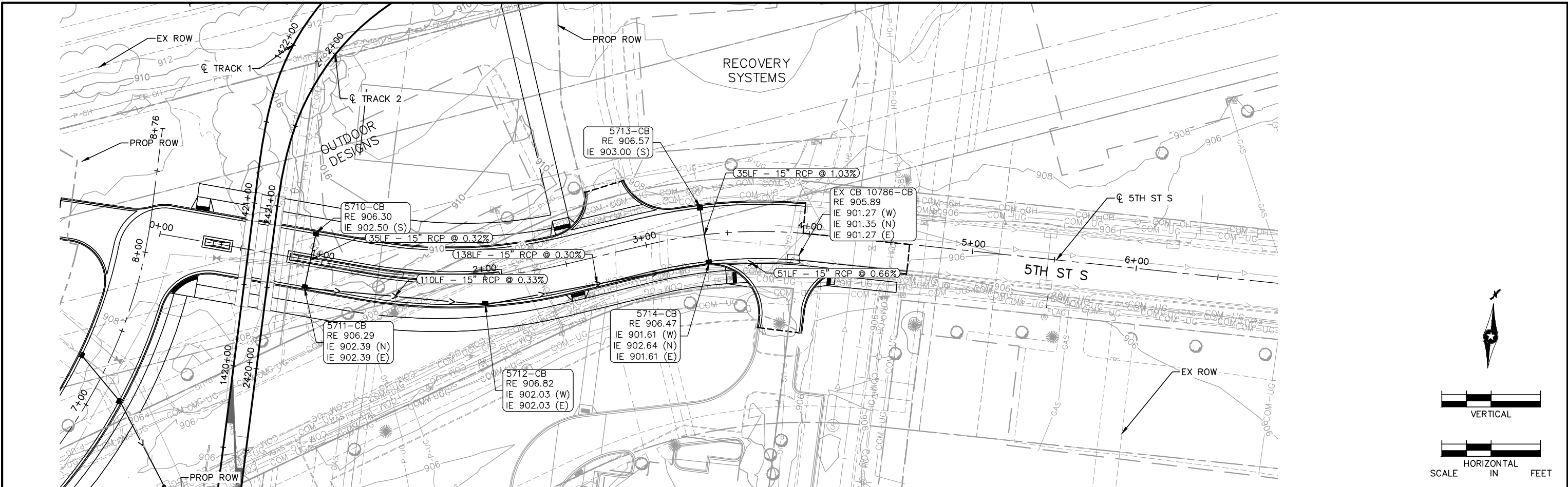


CIVIL WEST - VOLUME 8
DRAINAGE
PLAN AND PROFILE
SMETANA RD STA. 58+00 TO STA. 66+00

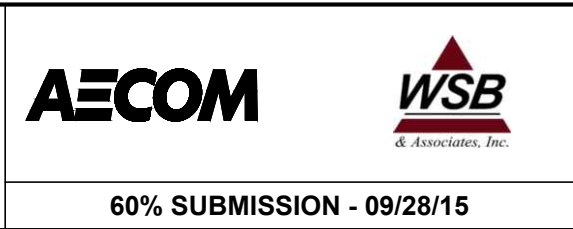
DISCIPLINE: DRAINAGE
SHEET NAME: W3-STM-PRF-006

SHEET 85 OF 96

Sep. 21 2015 11:28 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\STORM SEWER\W3-STM-PRF.dwg By: V-LucasBJ



NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



CIVIL WEST - VOLUME 8

DRAINAGE

PLAN AND PROFILE

5TH ST S STA. 9+00 TO STA. 14+50

DISCIPLINE:

DRAINAGE

SHEET NAME:

W3-STM-PRF-009

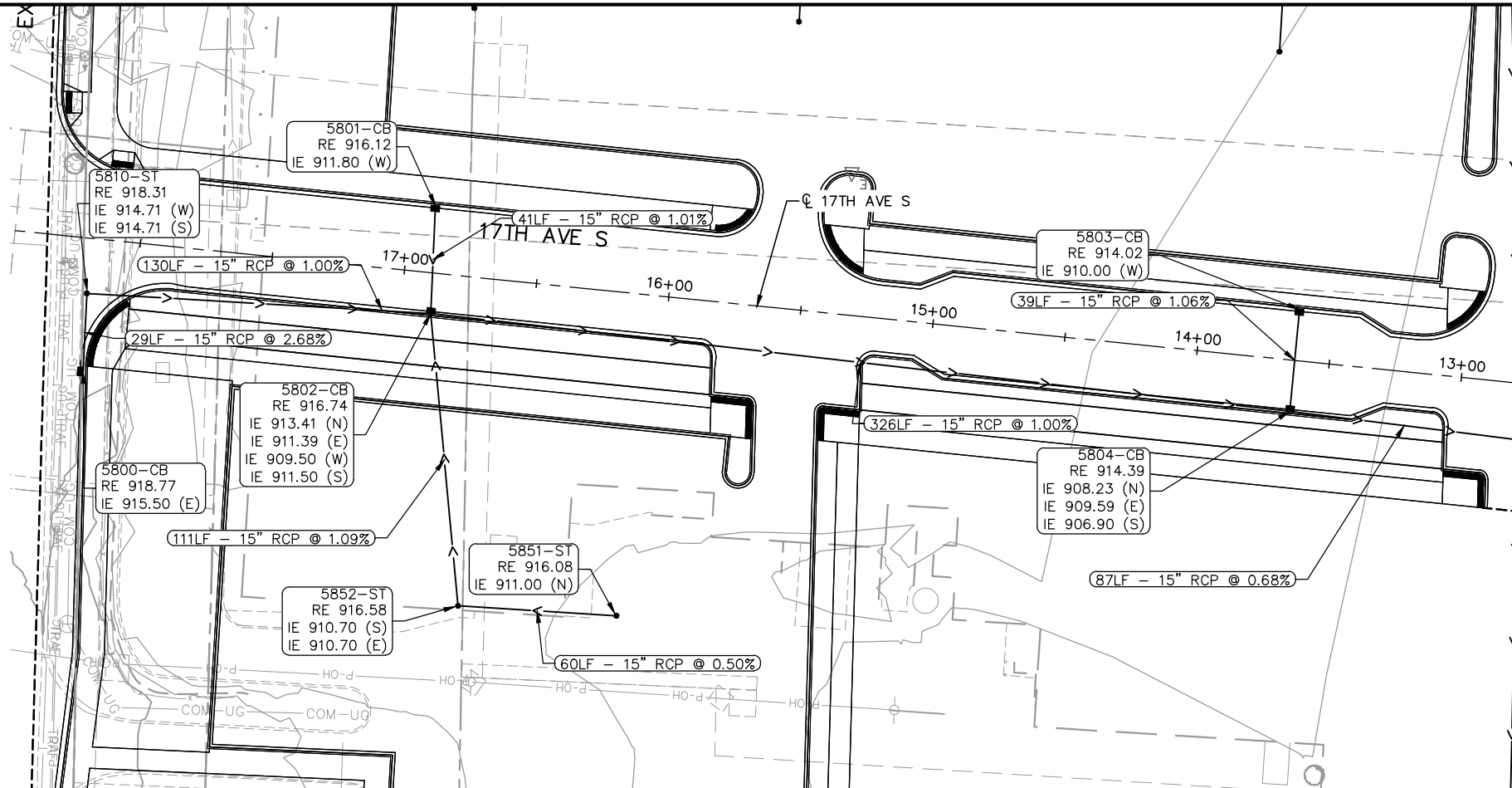
SHEET

88

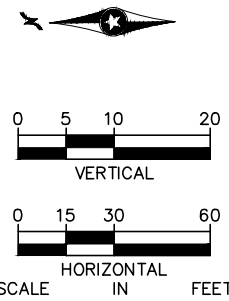
OF

96

Sep. 21 2015 11:29 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\STORM SEWER\W3--STM--PRF.dwg By: V-LucasBJ

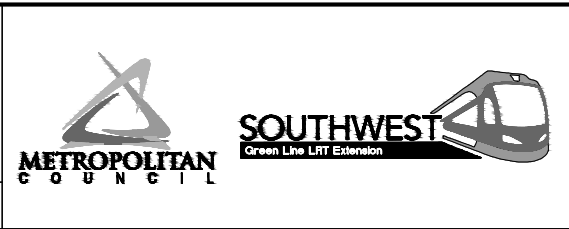
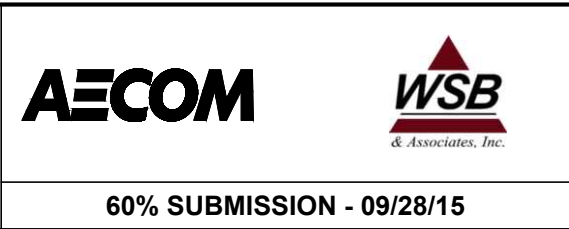


MATCH LINE - SHEET 90



MATCH LINE - STA. 15+02.62

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



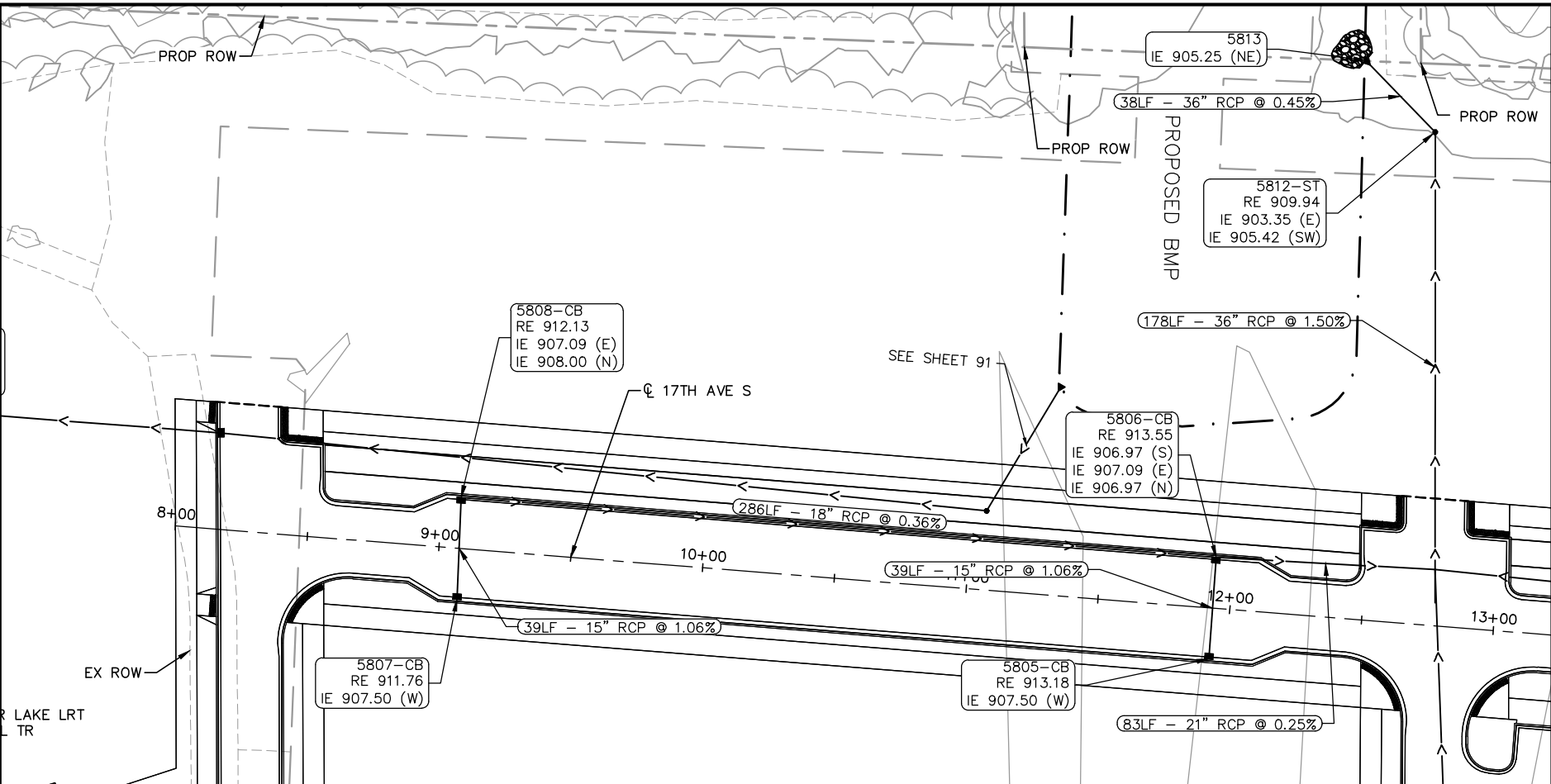
CIVIL WEST - VOLUME 8
DRAINAGE
PLAN AND PROFILE
17TH AVE S STA. 13+00 TO STA. 18+00

DISCIPLINE: DRAINAGE

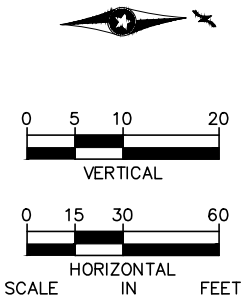
SHEET NAME: W3-STM-PRF-010

SHEET
89
OF
96

Sep. 21 2015 11:30 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\STORM SEWER\W3-STM-PRF.dwg By: V-LucasBJ



MATCH LINE - SHEET 89



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

WSB
& Associates, Inc.

METROPOLITAN
COUNCIL

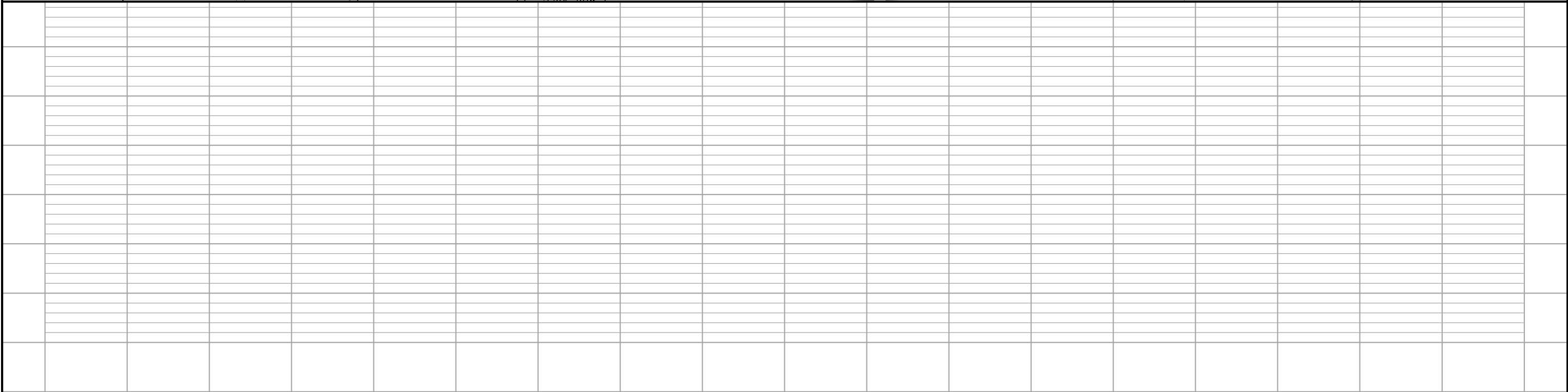
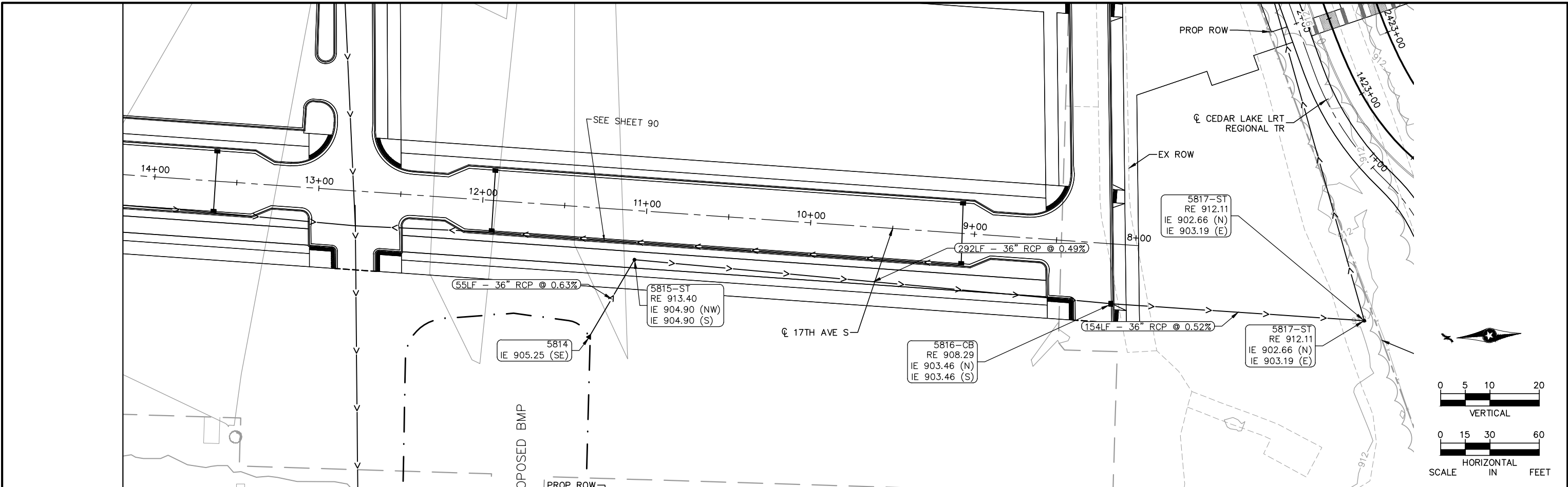
SOUTHWEST
Green Line LRT Extension

60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 8 DRAINAGE PLAN AND PROFILE 17TH AVE S STA. 8+00 TO STA. 13+00	
DISCIPLINE:	SHEET NAME:
DRAINAGE	W3-STM-PRF-011

SHEET
90
OF
96

Sep. 21 2015 11:31 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\STORM SEWER\W3-STM-PRF.dwg By: V-LucasBJ



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





60% SUBMISSION - 09/28/15



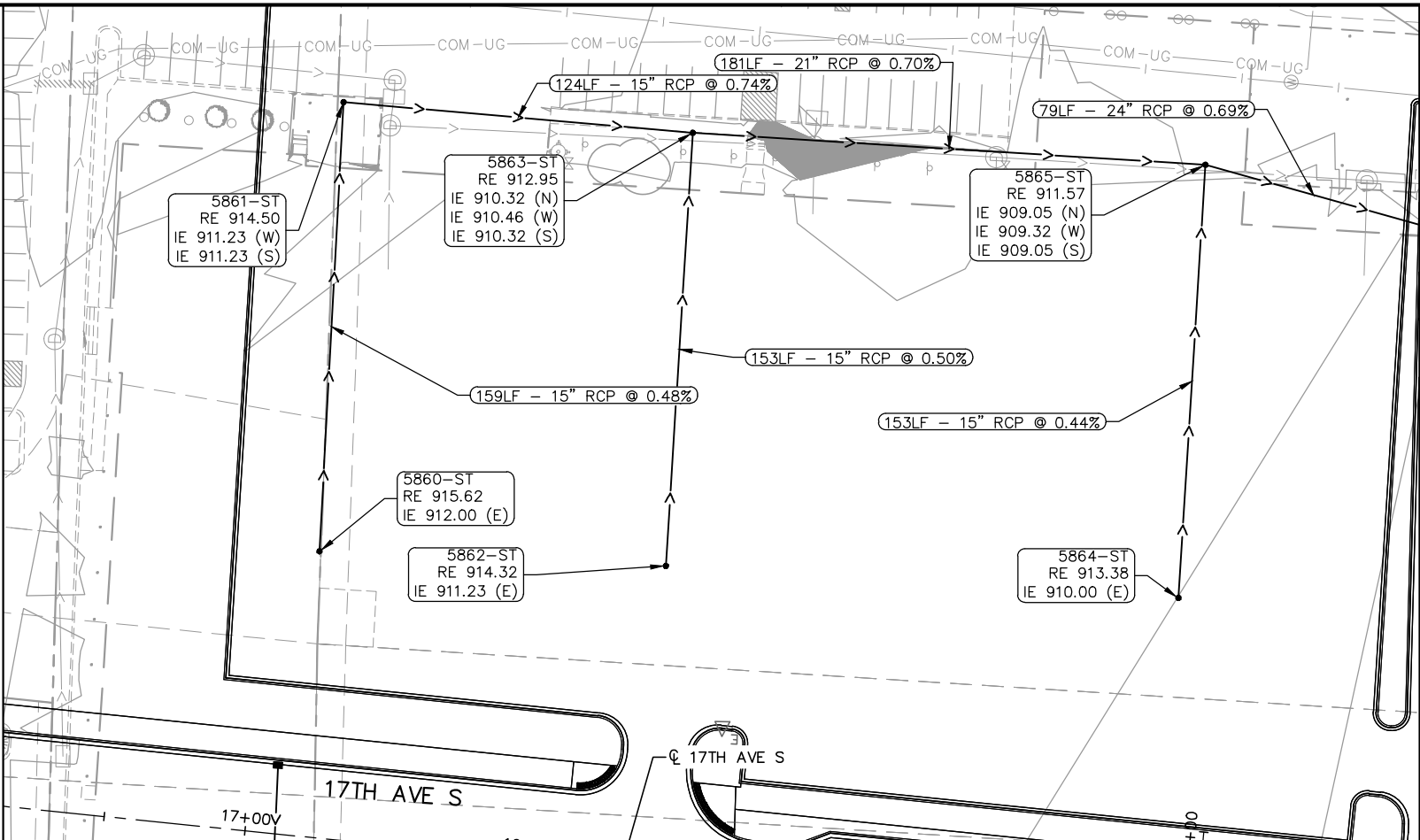
CIVIL WEST - VOLUME 8
DRAINAGE
PLAN AND PROFILE
17TH AVE S STA. 8+00 TO STA. 11+00

DISCIPLINE: DRAINAGE

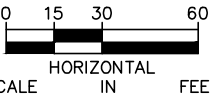
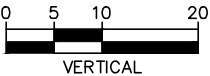
SHEET NAME: W3-STM-PRF-012

SHEET 91 OF 96

Sep. 21 2015 11:32 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\STORM SEWER\W3-STM-PRF.dwg By: V-LucasBJ



MATCH LINE - SHEET 93



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15



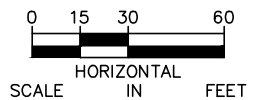
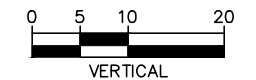
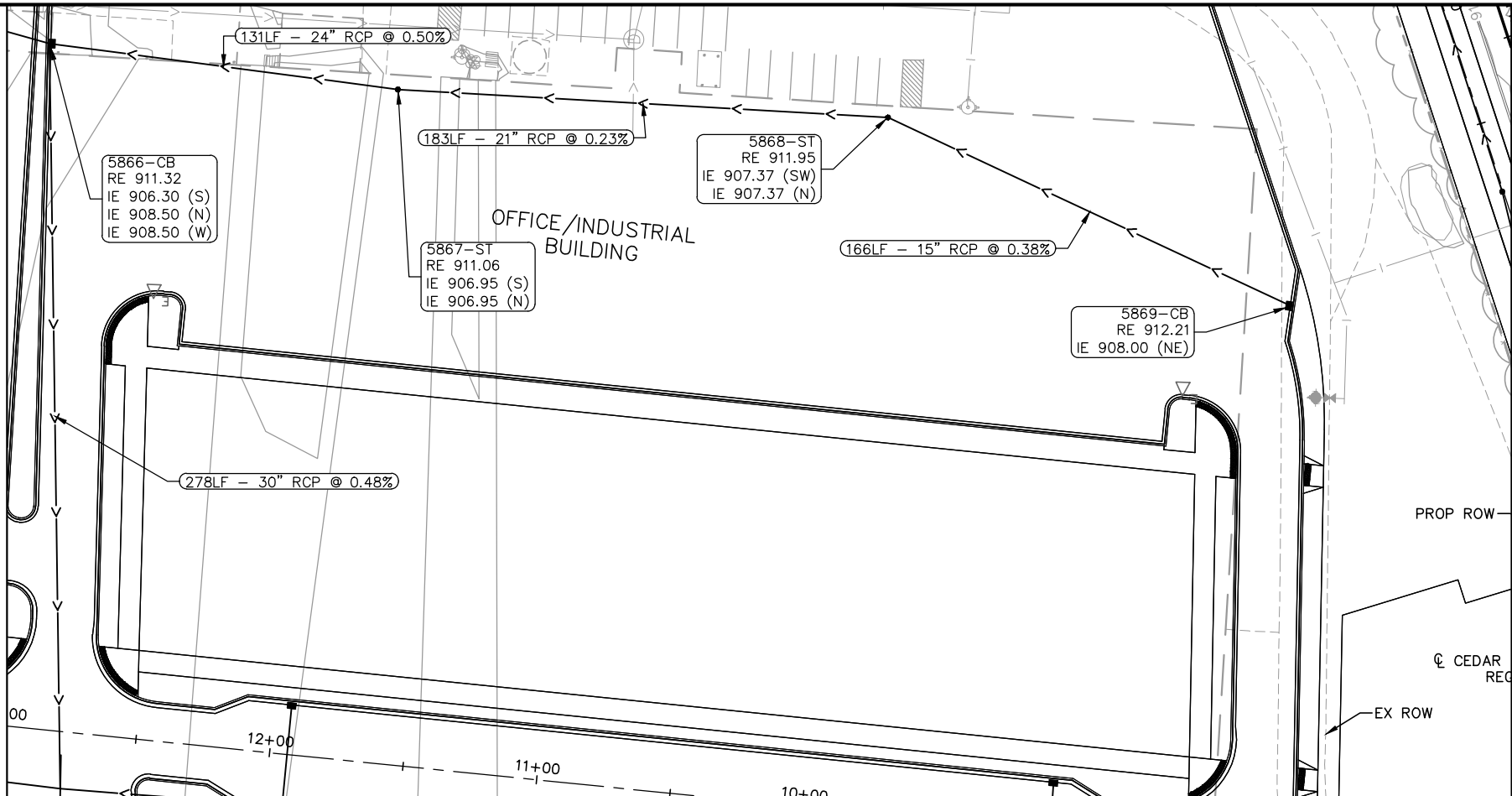
CIVIL WEST - VOLUME 8
DRAINAGE
PLAN AND PROFILE
SHADY OAK PARK & RIDE - NORTH

DISCIPLINE: DRAINAGE
SHEET NAME: W3-STM-PRF-013

SHEET
92
OF
96

Sep. 21 2015 11:33 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\STORM SEWER\W3--STM--PRF.dwg By: V-LucasBJ

MATCH LINE - SHEET 92



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15



CIVIL WEST - VOLUME 8
DRAINAGE
PLAN AND PROFILE
SHADY OAK PARK & RIDE - SOUTH

DISCIPLINE:

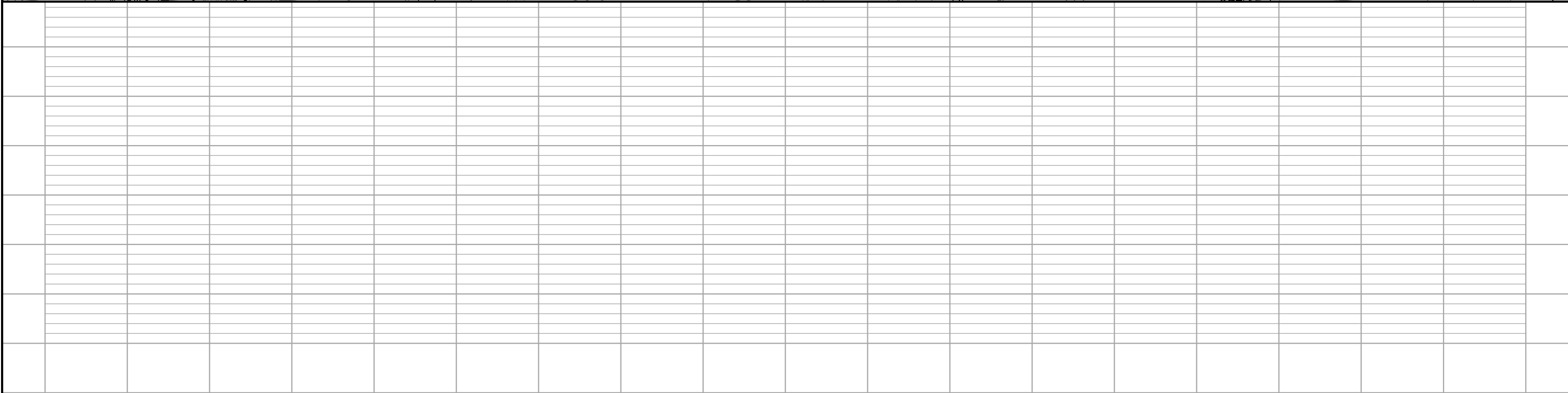
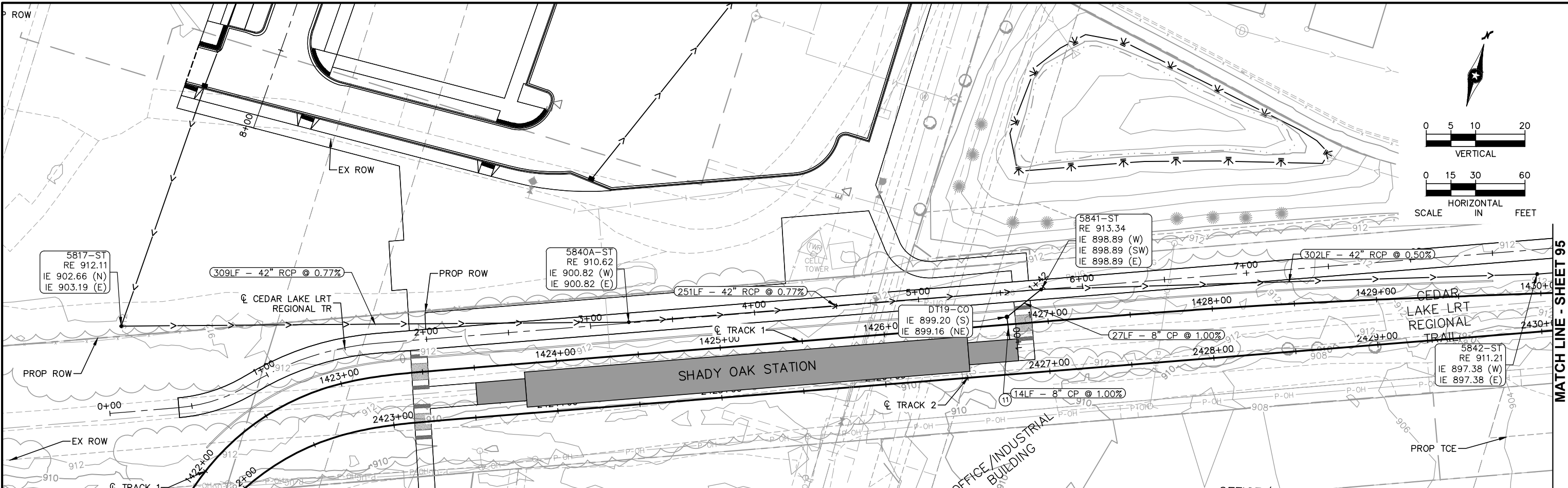
DRAINAGE

SHEET NAME:

W3-STM-PRF-014

SHEET
93
OF
96

Sep. 21 2015 11:34 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\STORM SEWER\W3-STM-PRF.dwg By: V-LucasBJ



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





60% SUBMISSION - 09/28/15



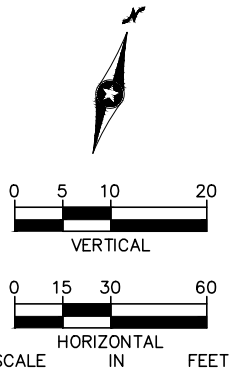
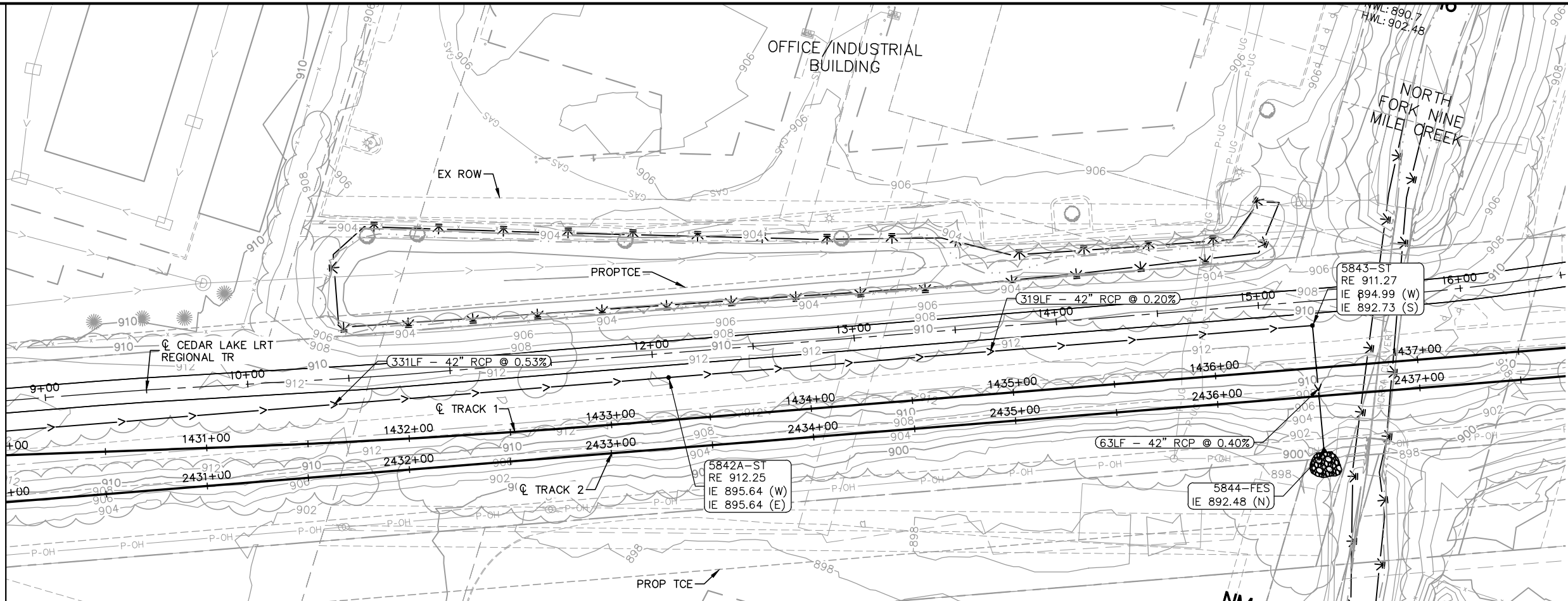
CIVIL WEST - VOLUME 8
DRAINAGE
PLAN AND PROFILE
TRACK STA. 2422+00 TO STA. 2430+00

DISCIPLINE: DRAINAGE
SHEET NAME: W3-STM-PRF-015

SHEET 94 OF 96

Sep. 21 2015 11:35 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\STORM SEWER\W3--STM--PRF.dwg By: V-LucasBJ

MATCH LINE - SHEET 94



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 8

DRAINAGE

PLAN AND PROFILE

TRACK STA. 2430+00 TO STA. 2437+50

DISCIPLINE: DRAINAGE

SHEET NAME: W3-STM-PRF-016

SHEET
95
OF
96

Sep. 21 2015 11:36 am V:\3400_ADC\CAD\CAD\00_WEST\PLANSHEETS\STORM SEWER\W0-STM-DET.dwg By: V-LucasBJ

MNDOT AND CITY STANDARD PLATES LIST

SOURCE	PLATE NO.	DESCRIPTION
MINNESOTA DEPARTMENT OF TRANSPORTATION*	3000L	REINFORCED CONCRETE PIPE (5 SHEETS)
	3006G	GASKET JOINT FOR R.C. PIPE (2 SHEETS)
	3007E	SHEAR REINFORCEMENT FOR PRECAST DRAINAGE STRUCTURES
	3100G	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
	3133D	RIPRAP AT RCP OUTLETS
	4007C	PRECAST MECHANICAL JOINT SEWER MANHOLE
	4010H	CONCRETE SHORT CONE & ADJUSTING RING (SECTIONAL CONCRETE)
	4011E	PRECAST CONCRETE BASE
	4020J	MANHOLE OR CATCH BASIN (FOR USE WITH OR WITHOUT TRAFFIC LOADS) (2 SHEETS)
	4022A	MANHOLE OR CATCH BASIN COVER (3 ft. X 2 ft. OPENING)
	4026A	CONCRETE ENCASED CONCRETE ADJUSTING RINGS
	4101D	RING CASTING FOR MANHOLE OR CATCH BASIN
	4110F	COVER CASTING FOR MANHOLE (FOR USE IN ALL TRAFFIC AREAS) – CASTING NO. 715 AND 716
	4129G	CATCH BASIN FRAME CASTING (FOR SQUARE GRATE) - CASTING NO. 802A
	4132F	CATCH BASIN FRAME CASTING (FOR SQUARE GRATE) - CASTING NO. 805
	4140D	SPECIAL GRATE CASTINGS FOR CATCH BASIN (CONVEX AND CONCAVE) - CASTING NO. 720 AND 721
	4143E	STOOL GRATE & CONCRETE FRAME (MEDIAN DRAINS) - CASTING NO. 731
	4152C	CATCH BASIN GRATE CASTING - CASTING NO. 814A
	4154B	CATCH BASIN GRATE CASTING - CASTING NO. 816
	4160D	CURB BOX CASTING FOR CATCH BASIN - CASTING NO. 823A AND 833A
	8150C	INSTALLATION OF CULVERT MARKERS
CITY OF EDEN PRAIRIE	S-1	STANDARD MANHOLE DETAIL
	S-5	STANDARD CATCH BASIN
	S-6	27" DEAD END CATCH BASIN
	S-7	SUMP MANHOLE OR CATCH BASIN
	S-11	TRASH GUARD FOR CONC. APRONS
	S-12	BEDDING FOR ALL PVC, HDPE, SIZES AND 15" AND LARGER RCP AND DIP
CITY OF HOPKINS	DGN-5	SILT FENCE DETAIL
	SS-3	STANDARD SANITARY SEWER MANHOLE
	SS-6	WATERTIGHT CASTING - MANHOLE
	SS-7	WATERTIGHT CASTING - FLAT SLAB MANHOLE
	ST-1	STORM SEWER MANHOLE WITH CONE SECTION
	ST-2	CATCH BASIN (MAX. DEPTH 4.5')
	ST-3	FLARED END SECTION WITH TRASH GUARD
	ST-3A	RIPRAP DETAIL FOR FLARED END SECTIONS
	ST-4	CATCH BASIN DETAIL
	ST-5	PRECAST STORM SEWER CATCH BASIN MANHOLE WITH REINFORCED CONCRETE TOP SLAB
	ST-6	STORM SEWER BEDDING
	ST-9	SUMP CATCH BASIN MANHOLE
	ST-10	TYPICAL TREATMENT POND
	ST-10A	WETLAND MITIGATION DETAIL
	ST-11	TYPICAL TREATMENT POND
	ST-12	SKIMMER STRUCTURE
	ST-13	ALTERNATE SKIMMER STRUCTURE
	ST-14	ALTERNATE SKIMMER STRUCTURE
	ST-16	SKIMMER STRUCTURE - WEIR MANHOLE
CITY OF MINNETONKA	DCB-01	TYPE X (27" DIA.) CATCH BASIN
	DCB-02	CATCHBASIN INSTALLATION (FOR B612 C & G)
	DCM-07	STANDARD CATCHBASIN/MANHOLE (TYPE B THRU G)
	SMH-01	SANITARY SEWER MANHOLE
	DRR-01	RIPRAP AT RCP OUTLETS
	DCM-02	SUMP CATCH BASIN/MANHOLE (TYPE B THRU G)
	GER-01	CATCH BASIN EROSION CONTROL DETAILS
	GFE-01	EROSION CONTROL SILT FENCE
	SSI-01	SEWER INSULATION
	*TYPE B-5, B-9, M-11, AND A-7 CASTING ASSEMBLIES ASSUMED	

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15



CIVIL WEST - VOLUME 8
DRAINAGE DETAILS
SHEET 1

DISCIPLINE: DRAINAGE

SHEET NAME: W0-STM-DET-001

SHEET

96

OF

96