

This document is made available electronically by the Minnesota Legislative Reference Library as part of an ongoing digital archiving project. <http://www.leg.state.mn.us/lrl/lrl.asp>



# CIVIL EAST 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.

60% SUBMISSION  
DATE : 09/28/15

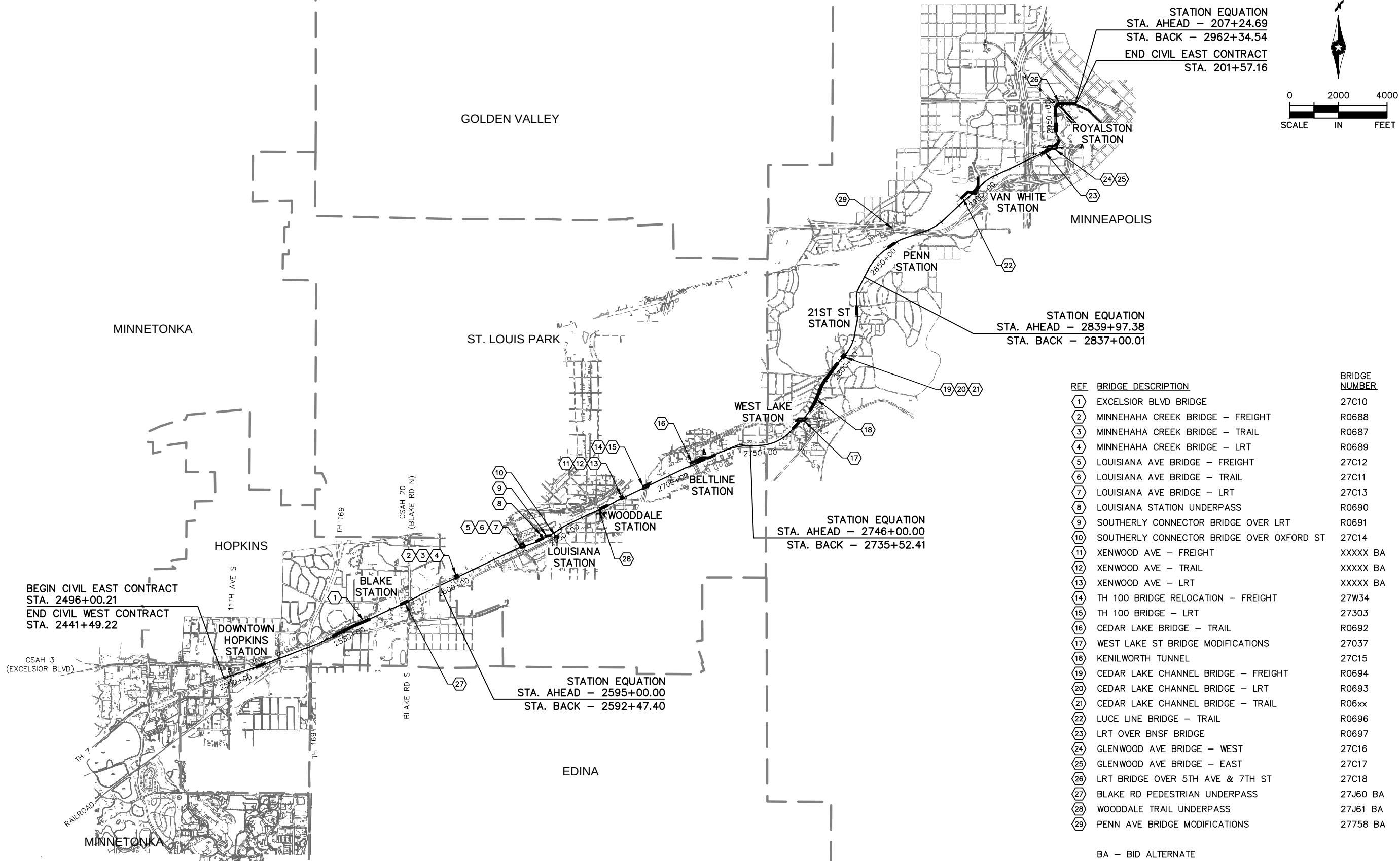
# AECOM

Sep. 25 2015 09:07 am V:\3400\_ADC\CAD\CAD MANAGEMENT\DRAWING\_LIST\E1\_GEN-idx.dwg By: V-KriewaldMR

| CIVIL EAST          |                  |  |                                          |  |         | CIVIL EAST |     |       |            |  |                   | CIVIL EAST |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     |         |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
|---------------------|------------------|--|------------------------------------------|--|---------|------------|-----|-------|------------|--|-------------------|------------|---------|---------|----------------------|-------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--|---------|---------|-----|---------|--|----|------------------|--|------------------------------------------|--|---------|---------|--|--|--|--|--|
| 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                   | E0-DRN-CVR-001   |  | COVER SHEET                              |  |         |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     |         |  | 73 | E4-STM-PLN - 005 |  | DRAINAGE PLAN PENN DROP-OFF              |  |         |         |  |  |  |  |  |
| 2                   | E0-DRN-IDX-001   |  | VOLUME INDEX OF PLAN SHEETS              |  |         |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     |         |  | 74 | E4-STM-PLN - 006 |  | DRAINAGE PLAN                            |  | 2865+50 | 2871+50 |  |  |  |  |  |
| 3                   | E0-GEN-KEY-001   |  | GENERAL KEY MAP                          |  |         |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     |         |  | 75 | E4-STM-PLN - 007 |  | DRAINAGE PLAN                            |  | 2871+50 | 2879+00 |  |  |  |  |  |
| 4                   | E0-GEN-NTS-001   |  | GENERAL LEGEND AND ABBREVIATIONS SHEET 1 |  |         |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     |         |  | 76 | E4-STM-PLN - 008 |  | DRAINAGE PLAN                            |  | 2879+00 | 2886+50 |  |  |  |  |  |
| 5                   | E0-GEN-NTS-002   |  | GENERAL LEGEND AND ABBREVIATIONS SHEET 2 |  |         |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     |         |  | 77 | E4-STM-PLN - 009 |  | DRAINAGE PLAN                            |  | 2886+50 | 2891+50 |  |  |  |  |  |
| 6                   | E0-STM-NTS-001   |  | GENERAL NOTES, ABBREVIATIONS & SYMBOLS   |  |         |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     |         |  | 78 | E4-STM-PLN - 010 |  | DRAINAGE PLAN                            |  | 2891+50 | 2897+00 |  |  |  |  |  |
| 7                   | E0-STM-NTS-002   |  | DRAINAGE NOTES, ABBREVIATIONS & SYMBOLS  |  |         |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     |         |  | 79 | E4-STM-PLN - 011 |  | DRAINAGE PLAN                            |  | 2897+00 | 2904+00 |  |  |  |  |  |
| 8                   | E1-STM-LAY-001   |  | DRAINAGE PLAN PLAN SHEET LAYOUT SHEET 1  |  |         |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     |         |  | 80 | E4-STM-PLN - 012 |  | DRAINAGE PLAN VAN WHITE DROP-OFF SHEET 1 |  |         |         |  |  |  |  |  |
| 9                   | E2-STM-LAY-002   |  | DRAINAGE PLAN PLAN SHEET LAYOUT SHEET 2  |  |         |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     |         |  | 81 | E4-STM-PLN - 013 |  | DRAINAGE PLAN VAN WHITE DROP-OFF SHEET 1 |  |         |         |  |  |  |  |  |
| 10                  | E2-STM-LAY-003   |  | DRAINAGE PLAN PLAN SHEET LAYOUT SHEET 3  |  |         |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     |         |  | 82 | E4-STM-PLN - 014 |  | DRAINAGE PLAN                            |  | 2904+00 | 2911+00 |  |  |  |  |  |
| 11                  | E3-STM-LAY-004   |  | DRAINAGE PLAN PLAN SHEET LAYOUT SHEET 4  |  |         |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     |         |  | 83 | E4-STM-PLN - 015 |  | DRAINAGE PLAN VAN WHITE BLVD             |  |         |         |  |  |  |  |  |
| 12                  | E4-STM-LAY-005   |  | DRAINAGE PLAN PLAN SHEET LAYOUT SHEET 5  |  |         |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     |         |  | 84 | E4-STM-PLN - 016 |  | DRAINAGE PLAN                            |  | 2911+00 | 2918+00 |  |  |  |  |  |
| 13                  | E4-STM-LAY-006   |  | DRAINAGE PLAN PLAN SHEET LAYOUT SHEET 6  |  |         |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     |         |  | 85 | E4-STM-PLN - 017 |  | DRAINAGE PLAN                            |  | 2918+00 | 2925+00 |  |  |  |  |  |
| 14                  | E1-STM-PLN - 001 |  | DRAINAGE PLAN                            |  | 2496+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2502+50 |  | 86 | E4-STM-PLN - 018 |  | DRAINAGE PLAN                            |  | 2925+00 | 2932+00 |  |  |  |  |  |
| 15                  | E1-STM-PLN - 002 |  | DRAINAGE PLAN                            |  | 2502+50 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2509+50 |  | 87 | E4-STM-PLN - 019 |  | DRAINAGE PLAN                            |  | 2932+00 | 2937+00 |  |  |  |  |  |
| 16                  | E1-STM-PLN - 003 |  | DRAINAGE PLAN                            |  | 2509+50 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2516+50 |  | 88 | E4-STM-PLN - 020 |  | DRAINAGE PLAN                            |  | 2937+00 | 2943+50 |  |  |  |  |  |
| 17                  | E1-STM-PLN - 004 |  | DRAINAGE PLAN                            |  | 2516+50 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2523+50 |  | 89 | E4-STM-PLN - 021 |  | DRAINAGE PLAN                            |  | 2943+50 | 2950+00 |  |  |  |  |  |
| 18                  | E1-STM-PLN - 005 |  | DRAINAGE PLAN                            |  | 2523+50 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2529+50 |  | 90 | E4-STM-PLN - 022 |  | DRAINAGE PLAN HOLDEN ST                  |  |         |         |  |  |  |  |  |
| 19                  | E1-STM-PLN - 006 |  | DRAINAGE PLAN                            |  | 2529+50 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2536+00 |  | 91 | E4-STM-PLN - 023 |  | DRAINAGE PLAN BORDER AVE                 |  |         |         |  |  |  |  |  |
| 20                  | E1-STM-PLN - 007 |  | DRAINAGE PLAN                            |  | 2536+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2542+00 |  | 92 | E4-STM-PLN - 024 |  | DRAINAGE PLAN ROYALSTON AVE              |  |         |         |  |  |  |  |  |
| 21                  | E1-STM-PLN - 008 |  | DRAINAGE PLAN                            |  | 2542+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2546+50 |  | 93 | E4-STM-PLN - 025 |  | DRAINAGE PLAN                            |  | 2950+00 | 2955+50 |  |  |  |  |  |
| 22                  | E1-STM-PLN - 009 |  | DRAINAGE PLAN                            |  | 2546+50 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2553+00 |  | 94 | E4-STM-PLN - 026 |  | DRAINAGE PLAN                            |  | 2955+50 | 2962+50 |  |  |  |  |  |
| 23                  | E1-STM-PLN - 010 |  | DRAINAGE PLAN                            |  | 2553+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2559+50 |  | 95 | E0-STM-NTS-003   |  | STANDARD PLATES LIST                     |  |         |         |  |  |  |  |  |
| 24                  | E1-STM-PLN - 011 |  | DRAINAGE PLAN                            |  | 2559+50 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2566+50 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 25                  | E1-STM-PLN - 012 |  | DRAINAGE PLAN                            |  | 2566+50 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2573+50 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 26                  | E1-STM-PLN - 013 |  | DRAINAGE PLAN PIERCE AVE                 |  |         |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     |         |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 27                  | E1-STM-PLN - 014 |  | DRAINAGE PLAN                            |  | 2573+50 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2580+50 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 28                  | E1-STM-PLN - 015 |  | DRAINAGE PLAN                            |  | 2580+50 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2587+50 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 29                  | E1-STM-PLN - 016 |  | DRAINAGE PLAN                            |  | 2587+50 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2596+50 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 30                  | E2-STM-PLN - 001 |  | DRAINAGE PLAN                            |  | 2596+50 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2602+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 31                  | E2-STM-PLN - 002 |  | DRAINAGE PLAN                            |  | 2602+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2609+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 32                  | E2-STM-PLN - 003 |  | DRAINAGE PLAN                            |  | 2609+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2616+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 33                  | E2-STM-PLN - 004 |  | DRAINAGE PLAN                            |  | 2616+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2623+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 34                  | E2-STM-PLN - 005 |  | DRAINAGE PLAN                            |  | 2623+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2630+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 35                  | E2-STM-PLN - 006 |  | DRAINAGE PLAN                            |  | 2630+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2637+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 36                  | E2-STM-PLN - 007 |  | DRAINAGE PLAN                            |  | 2637+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2644+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 37                  | E2-STM-PLN - 008 |  | DRAINAGE PLAN                            |  | 2644+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2650+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 38                  | E2-STM-PLN - 009 |  | DRAINAGE PLAN LOUISIANA PARK & RIDE      |  |         |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     |         |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 39                  | E2-STM-PLN - 010 |  | DRAINAGE PLAN                            |  | 2650+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2655+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 40                  | E2-STM-PLN - 011 |  | DRAINAGE PLAN                            |  | 2655+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2660+50 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 41                  | E2-STM-PLN - 012 |  | DRAINAGE PLAN                            |  | 2660+50 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2666+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 42                  | E2-STM-PLN - 013 |  | DRAINAGE PLAN                            |  | 2666+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2673+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 43                  | E2-STM-PLN - 014 |  | DRAINAGE PLAN                            |  | 2673+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2680+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 44                  | E2-STM-PLN - 015 |  | DRAINAGE PLAN                            |  | 2680+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2687+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 45                  | E2-STM-PLN - 016 |  | DRAINAGE PLAN                            |  | 2687+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2694+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 46                  | E2-STM-PLN - 017 |  | DRAINAGE PLAN                            |  | 2694+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2699+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 47                  | E2-STM-PLN - 018 |  | DRAINAGE PLAN                            |  | 2699+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2704+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 48                  | E2-STM-PLN - 019 |  | DRAINAGE PLAN                            |  | 2704+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2709+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 49                  | E2-STM-PLN - 020 |  | DRAINAGE PLAN                            |  | 2709+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2717+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 50                  | E2-STM-PLN - 021 |  | DRAINAGE PLAN BELTLINE PARK & RIDE       |  |         |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     |         |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 51                  | E2-STM-PLN - 022 |  | DRAINAGE PLAN                            |  | 2717+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2724+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 52                  | E2-STM-PLN - 023 |  | DRAINAGE PLAN                            |  | 2724+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2731+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 53                  | E2-STM-PLN - 024 |  | DRAINAGE PLAN                            |  | 2731+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2747+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 54                  | E3-STM-PLN - 001 |  | DRAINAGE PLAN                            |  | 2747+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2751+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 55                  | E3-STM-PLN - 002 |  | DRAINAGE PLAN                            |  | 2751+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2758+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 56                  | E3-STM-PLN - 003 |  | DRAINAGE PLAN                            |  | 2758+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2765+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 57                  | E3-STM-PLN - 004 |  | DRAINAGE PLAN ABBOTT AVE                 |  |         |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     |         |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 58                  | E3-STM-PLN - 005 |  | DRAINAGE PLAN                            |  | 2765+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2771+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 59                  | E3-STM-PLN - 006 |  | DRAINAGE PLAN                            |  | 2771+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2778+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 60                  | E3-STM-PLN - 007 |  | DRAINAGE PLAN                            |  | 2778+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2785+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 61                  | E3-STM-PLN - 008 |  | DRAINAGE PLAN                            |  | 2785+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2792+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 62                  | E3-STM-PLN - 009 |  | DRAINAGE PLAN                            |  | 2791+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2798+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 63                  | E3-STM-PLN - 010 |  | DRAINAGE PLAN                            |  | 2798+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2805+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 64                  | E3-STM-PLN - 011 |  | DRAINAGE PLAN                            |  | 2805+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2812+50 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 65                  | E3-STM-PLN - 012 |  | DRAINAGE PLAN                            |  | 2812+50 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2819+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 66                  | E3-STM-PLN - 013 |  | DRAINAGE PLAN                            |  | 2819+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2826+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 67                  | E3-STM-PLN - 014 |  | DRAINAGE PLAN                            |  | 2826+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2833+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 68                  | E3-STM-PLN - 015 |  | DRAINAGE PLAN                            |  | 2833+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2842+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 69                  | E4-STM-PLN - 001 |  | DRAINAGE PLAN                            |  | 2842+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2848+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 70                  | E4-STM-PLN - 002 |  | DRAINAGE PLAN                            |  | 2848+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2854+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 71                  | E4-STM-PLN - 003 |  | DRAINAGE PLAN                            |  | 2854+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2860+00 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| 72                  | E4-STM-PLN - 004 |  | DRAINAGE PLAN                            |  | 2860+00 |            |     |       |            |  |                   |            |         |         |                      |       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |  |         |         |     | 2865+50 |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |
| NO.                 |                  |  | DATE                                     |  |         | BY         |     |       | CHECK      |  |                   | DESIGN     |         |         | REVISION / SUBMITTAL |       |            | <div><div><div></div></div><div><div></div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div></div></div> <div><div>&lt;/</div></div> |                   |  |         |         |     |         |  |    |                  |  |                                          |  |         |         |  |  |  |  |  |



Sep. 21 2015 06:21 am V:\3400\_ADC\CAD\CAD MANAGEMENT\DRAWING LIST\E0-GEN-KEY.dwg By: V-Kriewald



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |



60% SUBMISSION - 09/28/15



CIVIL EAST - VOLUME 8  
GENERAL  
KEY MAP

DISCIPLINE: GENERAL  
SHEET NAME: E0-GEN-KEY - 001

SHEET  
3  
OF  
95

Sep. 21 2015 06:21 am V:\3400\_ADC\CAD\CAD MANAGEMENT\DRAWING LIST\E0-GEN-NTS.dwg By: V-KriewaMR

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 MFRA, INC.
- 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 |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |



60% SUBMISSION - 09/28/15

CIVIL EAST - VOLUME 8  
GENERAL  
LEGEND AND ABBREVIATIONS  
SHEET 1

DISCIPLINE: GENERAL

SHEET NAME: E0-GEN-NTS - 001

SHEET  
4  
OF  
95

Sep. 21 2015 06:21 am V:\3400\_ADC\CAD\CAD MANAGEMENT\DRAWING LIST\E0-GEN-NTS.dwg By: V-KriewaldR

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 |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |

|  |
|--|
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |



60% SUBMISSION - 09/28/15





CIVIL EAST - VOLUME 8  
GENERAL  
LEGEND AND ABBREVIATIONS  
SHEET 2

DISCIPLINE: GENERAL

SHEET NAME: E0-GEN-NTS - 002

Sep. 21 2015 03:04 pm v:\3400\_ADC\CAD\SEGMENT E1\PLAN SHEETS\STORM SEWER\E0-STM-NTS.dwg By: 498

GENERAL NOTES

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](http://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.

| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |



60% SUBMISSION - 09/28/15

CIVIL EAST - VOLUME 8  
DRAINAGE PLAN  
GENERAL NOTES,  
ABBREVIATIONS & SYMBOLS

|             |                |
|-------------|----------------|
| DISCIPLINE: | SHEET NAME:    |
| DRAINAGE    | E0-STM-NTS-001 |

SHEET  
6  
OF  
95

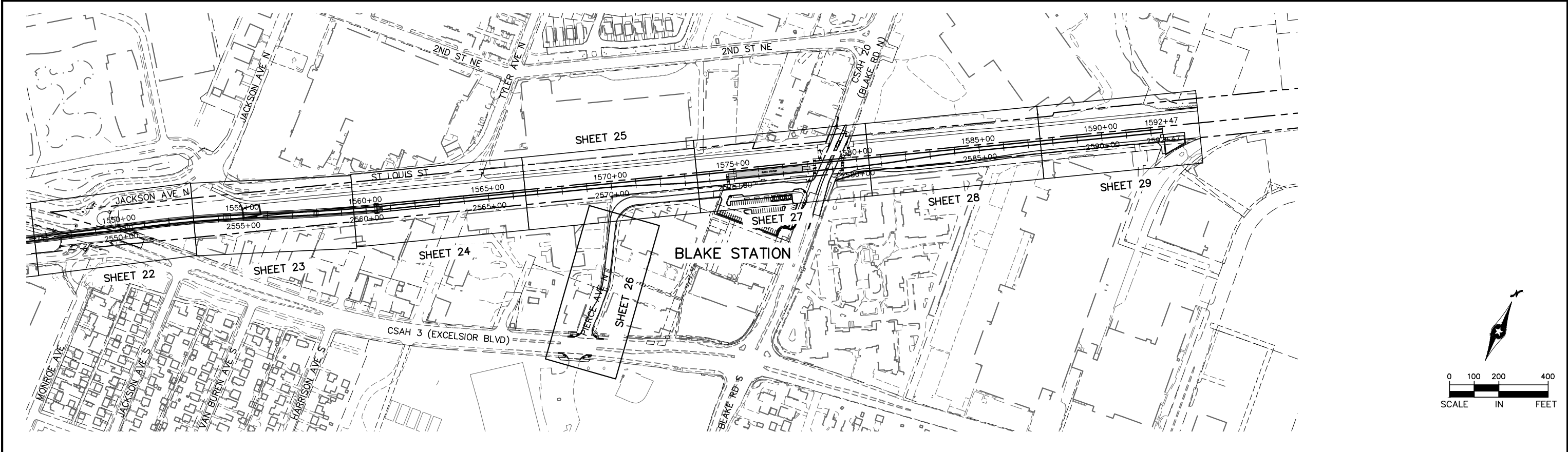
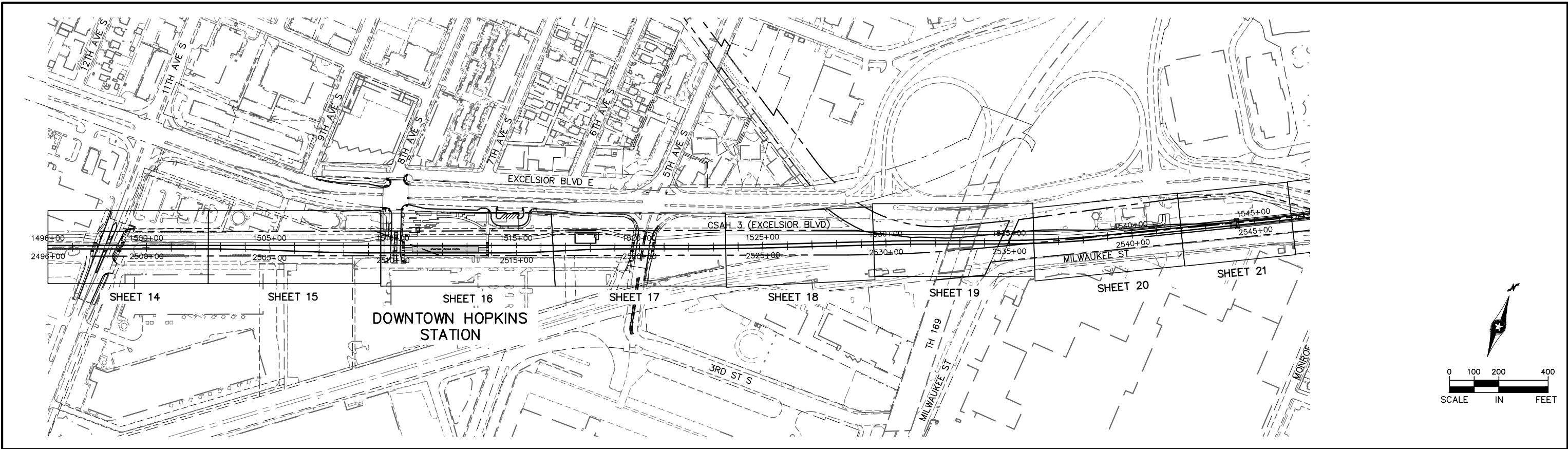
Sep. 21 2015 03:04 pm V:\3400\_ADC\CAD\SEGMENT E1\PLAN SHEETS\STORM SEWER\E0-STM-NTS.dwg By: 498

| LEGEND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                           |        |                      | DRAINAGE PLAN<br>CONSTRUCTION NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |    |       |        |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |                                                                                                                                                                                                |  |                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------|--------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|-------|--------|----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|
| DRAINAGE LINE TYPES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    | PROPOSED DRAINAGE SYMBOLS |        |                      | <div>① CONNECT INTO EXISTING DRAINAGE STRUCTURE. FIELD VERIFY INVERT ELEVATIONS.</div> <div>② ADJUST RIM ELEVATION.</div> <div>③ CONNECT TRACK SUBDRAIN.</div> <div>④ CONSTRUCT STRUCTURE OVER EXISTING STORM PIPE. FIELD VERIFY PIPE ALIGNMENT AND INVERT ELEVATIONS.</div> <div>⑤ REMOVE EXISTING CATCH BASIN. REMOVE EXISTING PIPE TO EXPOSE GROOVE END. CONNECT NEW PIPE BELL TO EXISTING GROOVE END. FIELD VERIFY INVERT ELEVATIONS.</div> <div>⑥ CONNECT EXISTING STORM SEWER SERVICE LEADS TO MANHOLE. FIELD VERIFY INVERT ELEVATIONS.</div> <div>⑦ REPLACE CASTING. FIELD VERIFY INVERT ELEVATIONS.</div> <div>⑧ CONNECTION OF RETAINING WALL DRAIN TO DRAINAGE STRUCTURE.</div> <div>⑨ CONNECT TO EXISTING STORM SEWER. FIELD VERIFY INVERT ELEVATIONS.</div> <div>⑩ CONNECT PVC SDR 26 TO EXISTING STORM SEWER SERVICE.</div> <div>⑪ STATION PLATFORM DRAINAGE OUTLET.</div> <div>⑫ TRACK DRAIN FOR TRACK CROSSING AND SWITCH BOXES.</div> <div>⑬ SPECIAL SUBDRAIN PROFILE AT THIS LOCATION.</div> <div>⑭ BYPASS OF TRACK SUBDRAIN AT OCS POLE LOCATION.</div> <div>⑮ SUBDRAIN CLEANOUT.</div> <div>NOTE:<br/>SEE UTILITIES PLANS FOR UTILITY LEGEND.</div> |      |    |       |        |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |                                                                                                                                                                                                |  |                        |
| <div><div><div>—————&gt;—————</div><div>STORM SEWER</div></div><div><div>=====&gt;=====</div><div>CASING PIPE</div></div><div><div>—————↓—————</div><div>DELINEATED WETLAND</div></div><div><div>· / / / / / / / / / / / /</div><div>PIPE REMOVAL</div></div><div><div><div>☒</div></div><div>STRUCTURE REMOVAL</div></div><div><div>— · — · — · — · —</div><div>PROPOSED BMP</div></div><div><div><b>EP-EP-18</b></div><div>WETLAND ID</div></div></div>                                                                                                                                                                 | <div><div><div>●</div><div>STORM SEWER MANHOLE</div></div><div><div>■</div><div>STORM SEWER CATCH BASIN</div></div><div><div>▲</div><div>STORM SEWER FLARED END SECTION</div></div><div><div>•</div><div>STORM SEWER CLEAN-OUT</div></div><div><div><div>○</div><div>□</div></div><div>STORM SEWER PUMP STATION</div></div><div><div><div>●●●●</div></div><div>RIP RAP</div></div><div><div><div>XXXX - ST</div></div><div>STORM SEWER STRUCTURE ID</div></div></div> |    |                           |        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |    |       |        |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |                                                                                                                                                                                                |  |                        |
| <table><tr><th>NO.</th><th>DATE</th><th>BY</th><th>CHECK</th><th>DESIGN</th><th>REVISION / SUBMITTAL</th></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                           |        |                      | NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <div><div><div><div><b>AECOM</b></div><div><div><div></div><div><div>www.sambatek.com</div></div></div><div>Engineering   Surveying   Planning   Environmental</div></div><div><div><div></div><div><div>METROPOLITAN<br/>COUNCIL</div></div></div><div><div><div></div><div><div>SOUTHWEST<br/>Green Line LRT Extension</div></div></div></div></div></div><div>60% SUBMISSION - 09/28/15</div></div></div> |  |  | <div>CIVIL EAST - VOLUME 8<br/>DRAINAGE PLAN<br/>DRAINAGE NOTES,<br/>ABBREVIATIONS &amp; SYMBOLS</div> <div><div>DISCIPLINE:<br/>DRAINAGE</div><div>SHEET NAME:<br/>E0-STM-NTS-002</div></div> |  | SHEET<br>7<br>OF<br>95 |
| NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | BY | CHECK                     | DESIGN | REVISION / SUBMITTAL |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |    |       |        |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |                                                                                                                                                                                                |  |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                           |        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |    |       |        |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |                                                                                                                                                                                                |  |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                           |        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |    |       |        |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |                                                                                                                                                                                                |  |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                           |        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |    |       |        |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |                                                                                                                                                                                                |  |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                           |        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |    |       |        |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |                                                                                                                                                                                                |  |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                           |        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |    |       |        |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |                                                                                                                                                                                                |  |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                           |        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |    |       |        |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |                                                                                                                                                                                                |  |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                           |        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |    |       |        |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |                                                                                                                                                                                                |  |                        |





Sep. 21 2015 03:05 pm V:\3400\_ADC\CAD\SEGMENT E1\PLAN SHEETS\STORM SEWER\E1--STM-LAY.dwg By: 498



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15

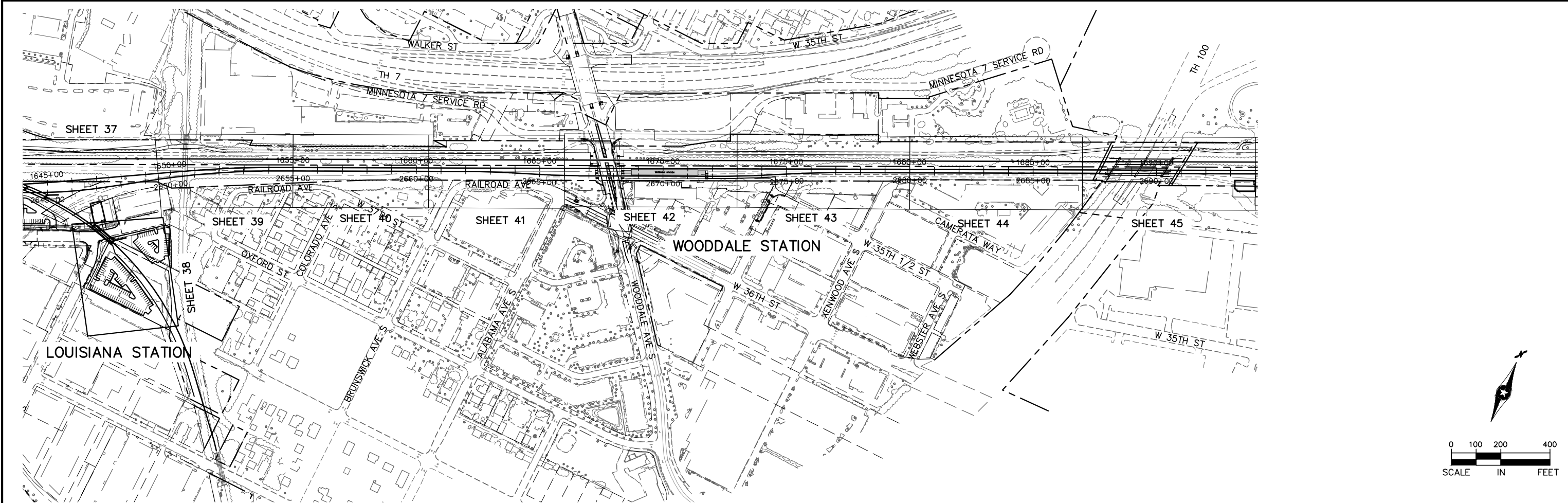
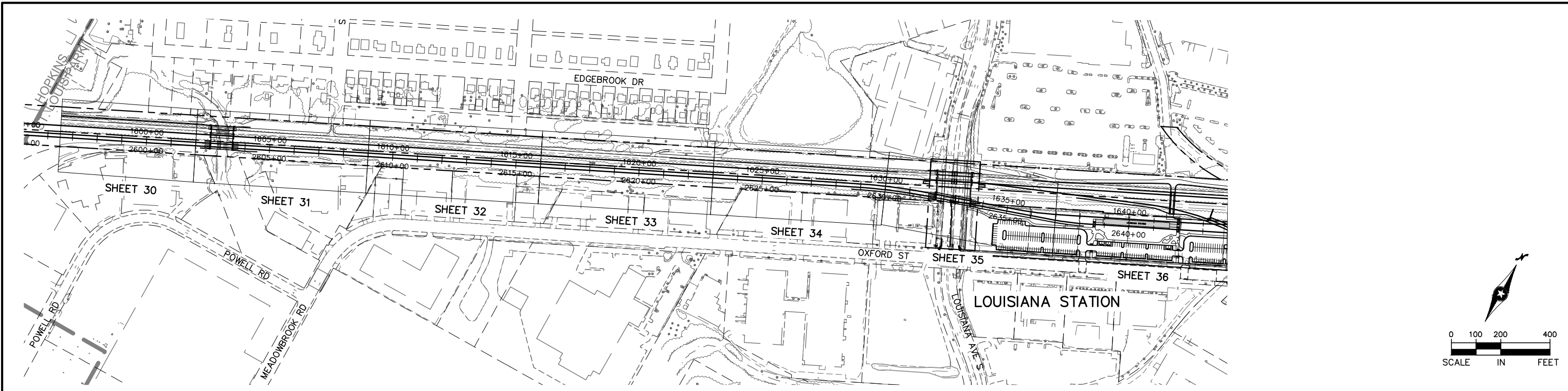
CIVIL EAST - VOLUME 8  
DRAINAGE PLAN  
PLAN SHEET LAYOUT  
SHEET 1

DISCIPLINE: DRAINAGE  
SHEET NAME: E1-STM-LAY-001

SHEET 8 OF 95



Sep. 21 2015 03:06 pm v:\3400\_ADC\CAD\SEGMENT E1\PLAN SHEETS\STORM SEWER\E2-STM-LAY.dwg By: 498



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15



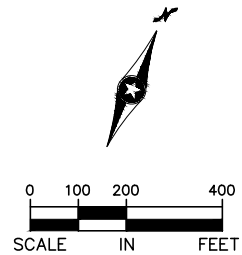
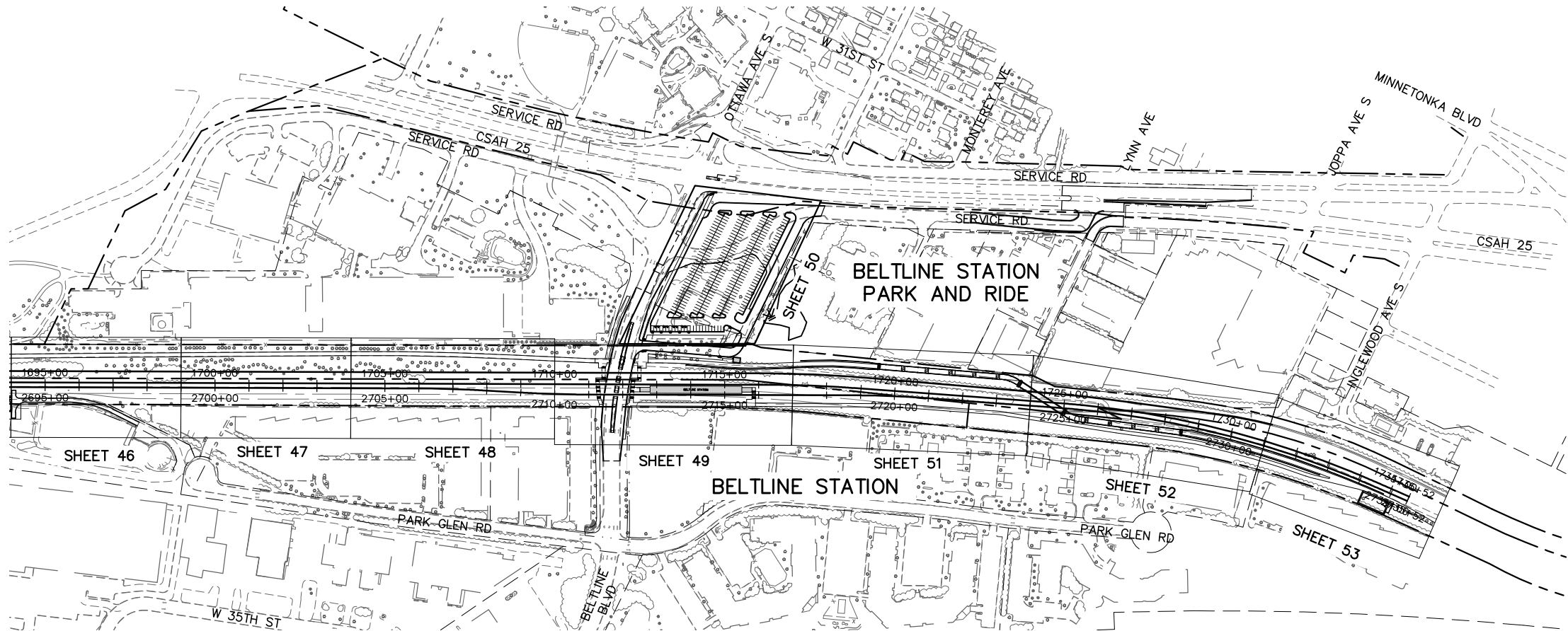
CIVIL EAST - VOLUME 8  
DRAINAGE PLAN  
PLAN SHEET LAYOUT  
SHEET 2

DISCIPLINE: DRAINAGE

SHEET NAME: E2-STM-LAY-002

SHEET 9 OF 95

Sep. 21 2015 03:06 pm v:\3400\_ADC\CAD\SEGMENT E1\PLAN SHEETS\STORM SEWER\E2-STM-LAY.dwg By: 498



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15



CIVIL EAST - VOLUME 8  
DRAINAGE PLAN  
PLAN SHEET LAYOUT  
SHEET 3

DISCIPLINE: DRAINAGE      SHEET NAME: E2-STM-LAY-003

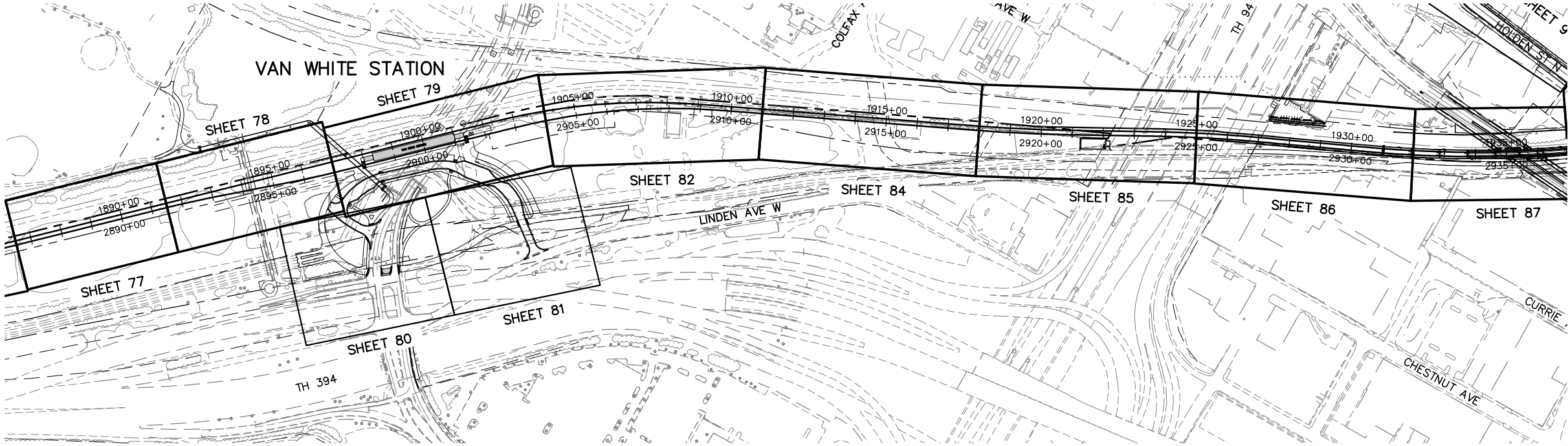
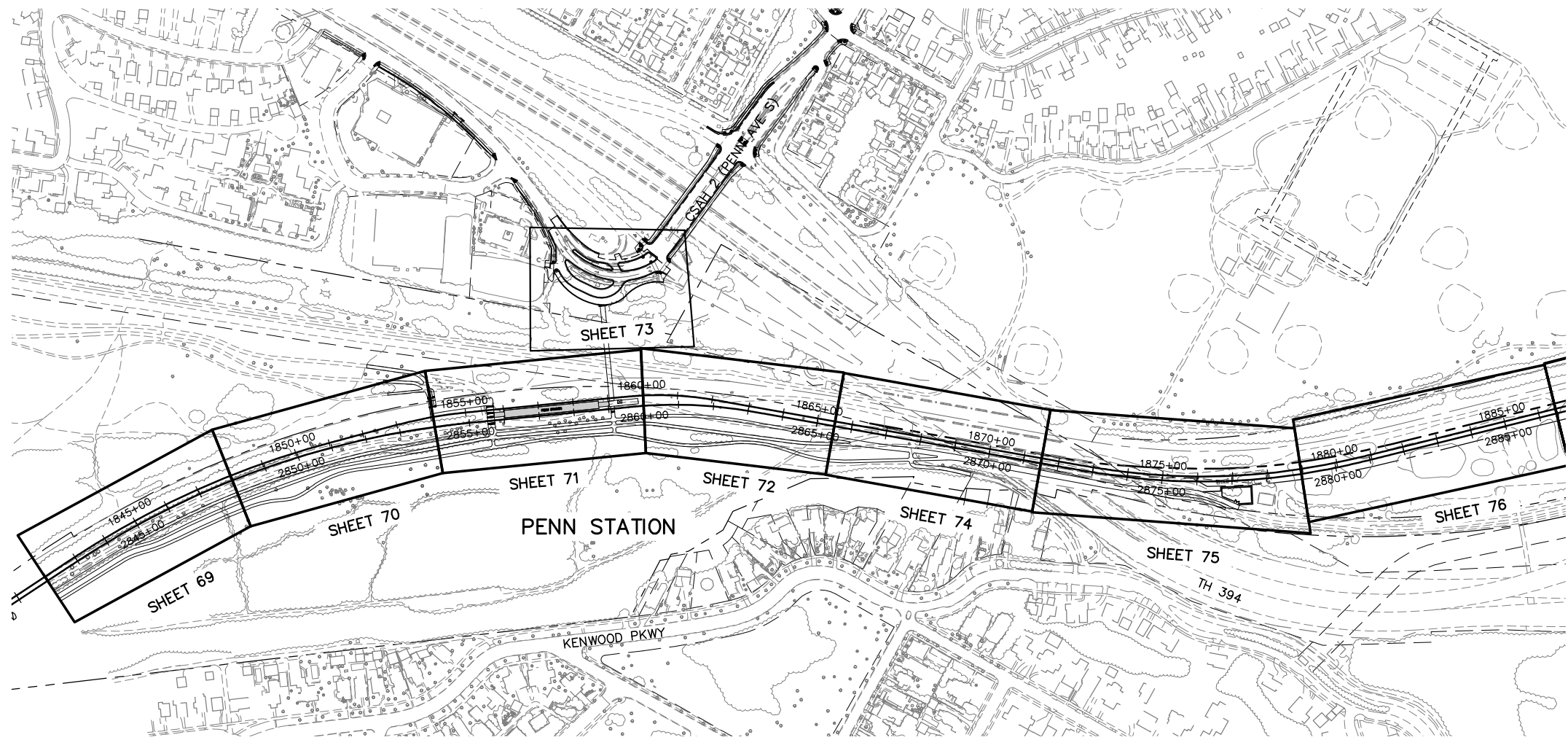
SHEET  
10  
OF  
95







Sep. 21 2015 03:08 pm v:\3400\_ADC\CAD\SEGMENT E1\PLAN SHEETS\STORM SEWER\E4--STM--LAY.dwg By: 498



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15



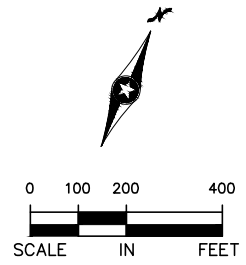
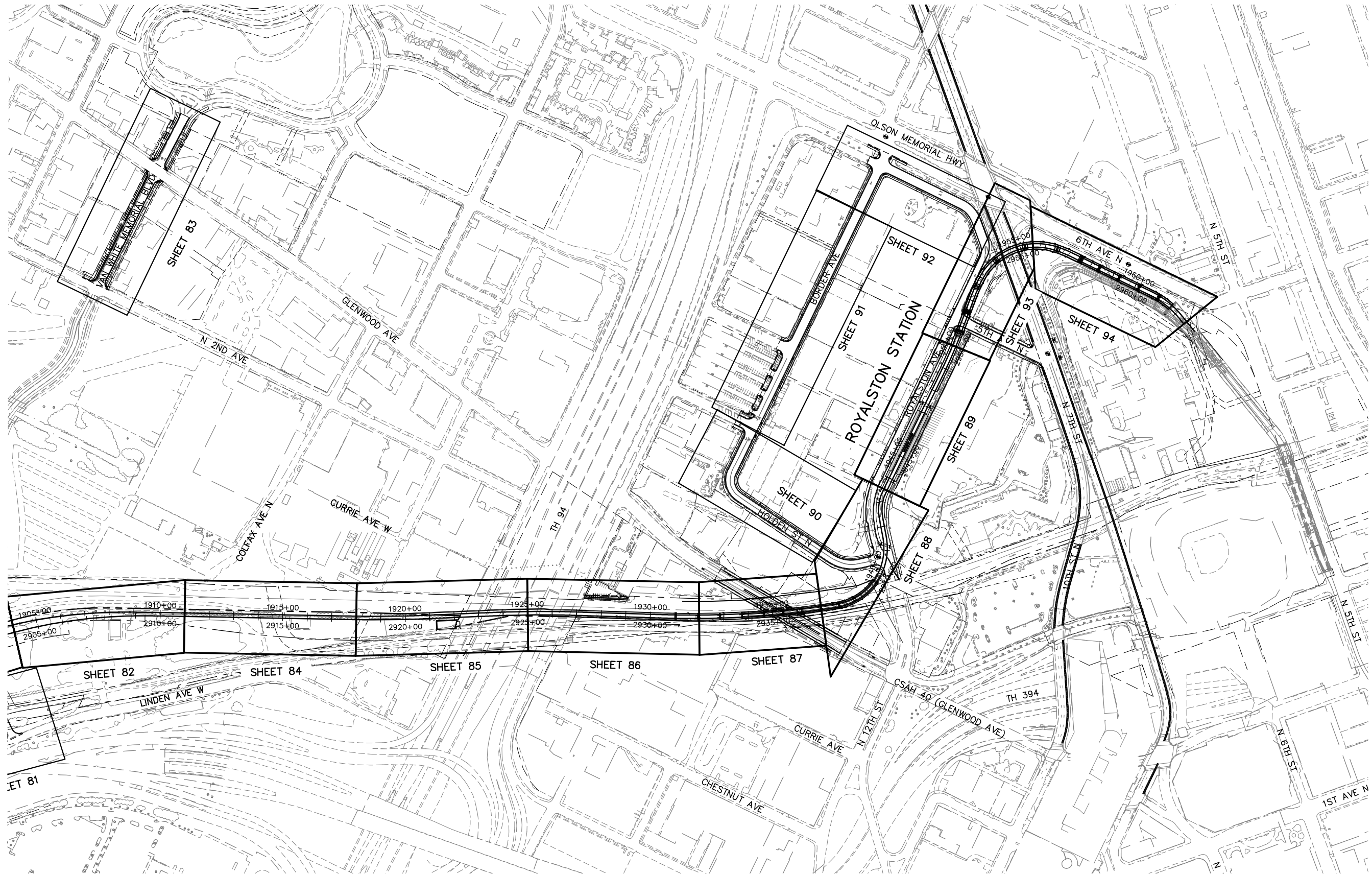
CIVIL EAST - VOLUME 8  
DRAINAGE PLAN  
PLAN SHEET LAYOUT  
SHEET 5

|                         |                               |
|-------------------------|-------------------------------|
| DISCIPLINE:<br>DRAINAGE | SHEET NAME:<br>E4-STM-LAY-005 |
|-------------------------|-------------------------------|

SHEET  
12  
OF  
95



Sep. 21 2015 03:09 pm V:\3400\_ADC\CAD\SEGMENT E1\PLAN SHEETS\STORM SEWER\E4--STM-LAY.dwg By: 498



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |



60% SUBMISSION - 09/28/15

CIVIL EAST - VOLUME 8  
DRAINAGE PLAN  
PLAN SHEET LAYOUT  
SHEET 6

DISCIPLINE: DRAINAGE

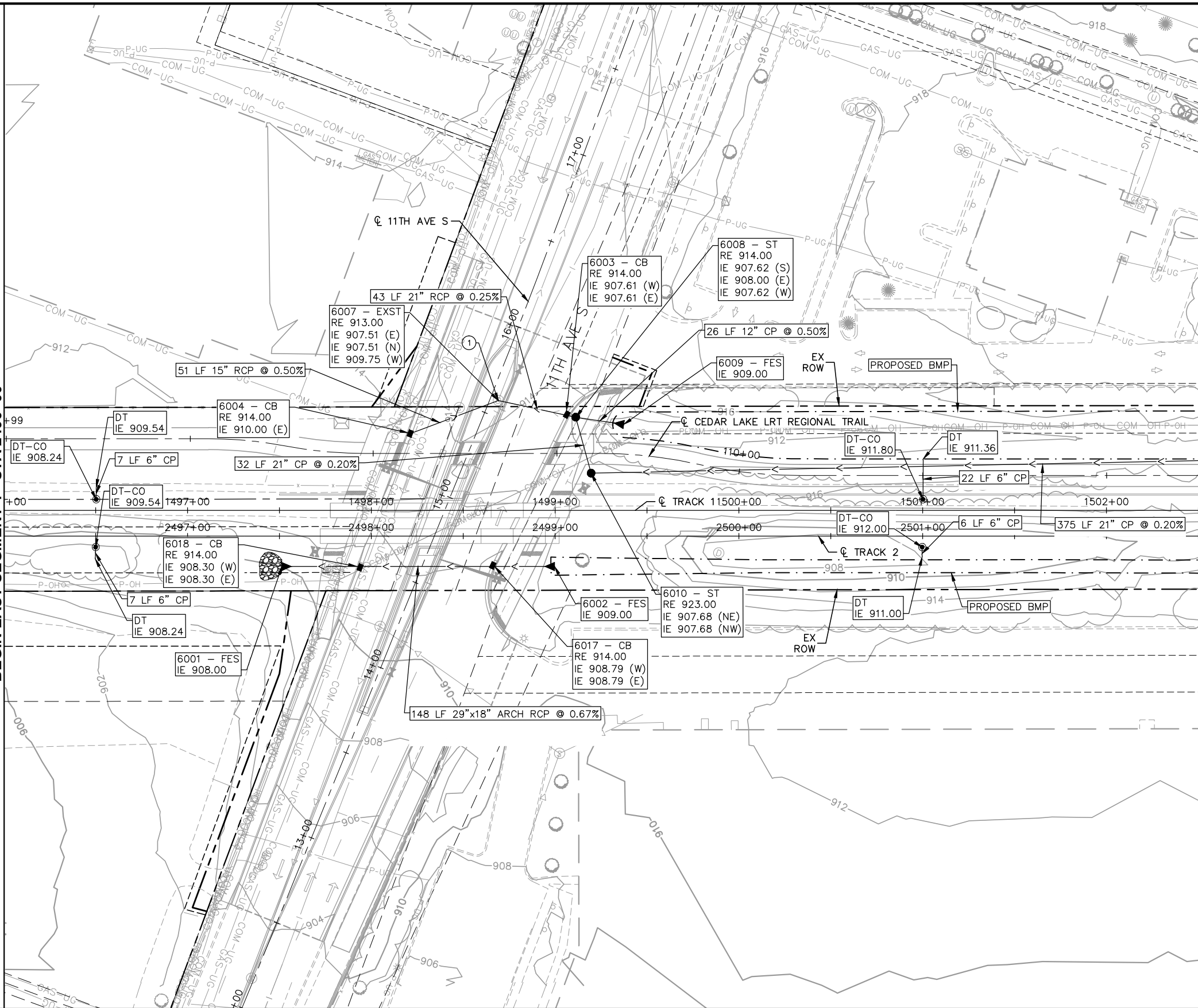
SHEET NAME: E4-STM-LAY-006

SHEET 13 OF 95

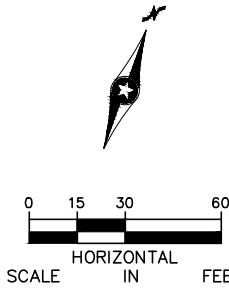


Sep. 21 2015 03:39 pm v:\3400\_ADC\CAD\SEGMENT E1\PLAN SHEETS\STORM SEWER\E1--STM--PLN.dwg By: 589

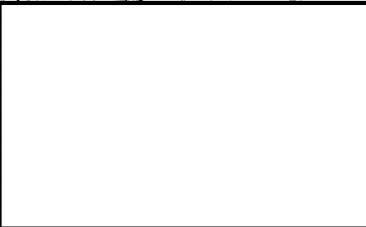
END WEST SEGMENT 1 - STA 2441+49.22  
BEGIN EAST SEGMENT 1 - STA 2496+00



MATCH LINE - STA 2502+50



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15



CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2496+00 TO STA 2502+50

DISCIPLINE: DRAINAGE

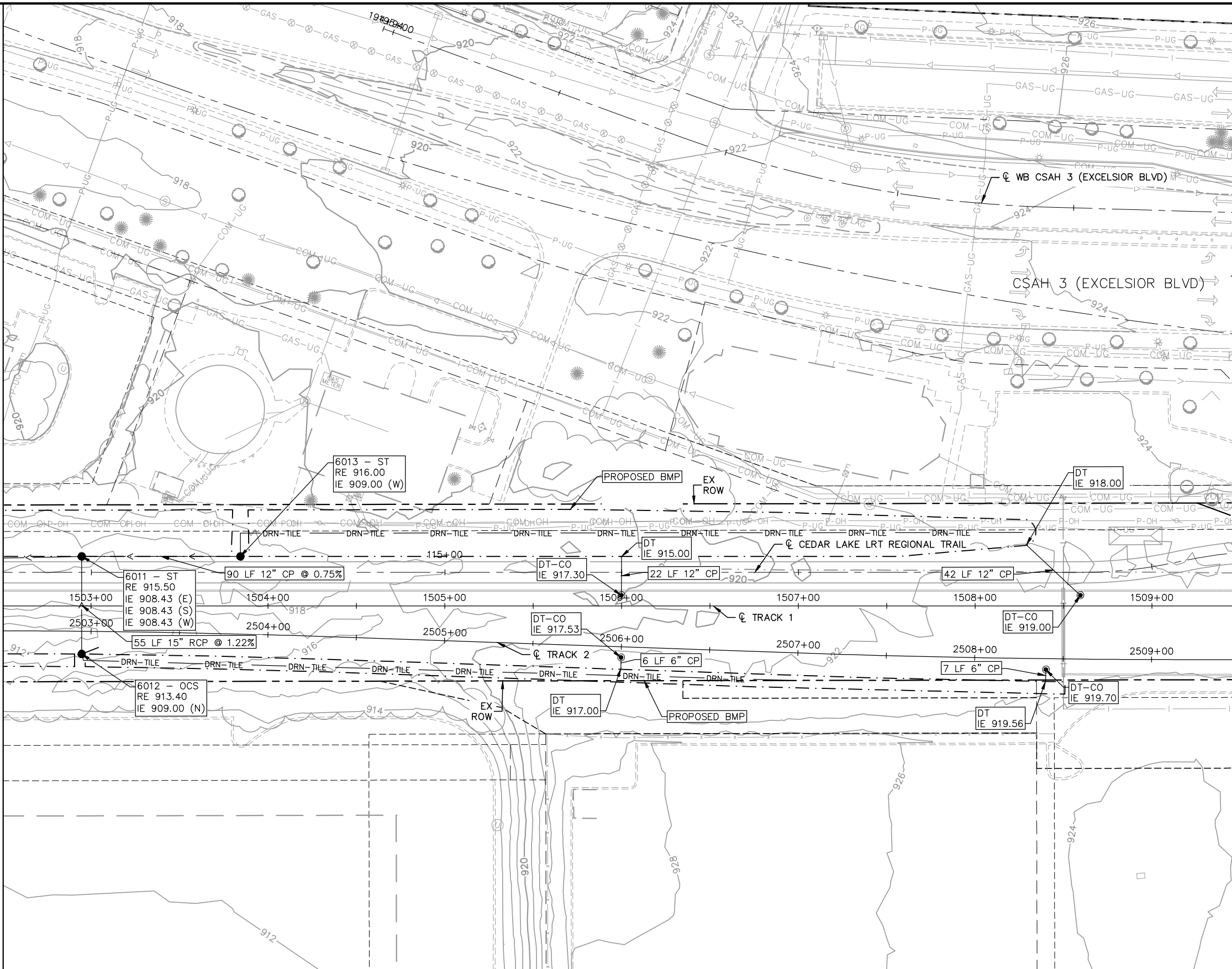
SHEET NAME: E1-STM-PLN - 001

SHEET  
14  
OF  
95

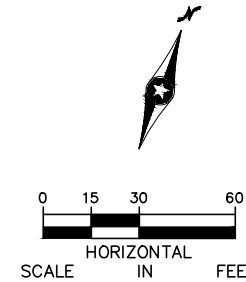


Sep. 21 2015 03:39 pm v:\3400\_ADC\CAD\SEGMENT E1\PLAN SHEETS\STORM SEWER\E1--STM--PLN.dwg By: 589

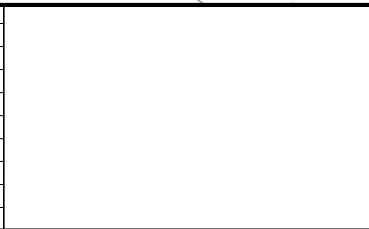
MATCH LINE - STA 2502+50



MATCH LINE - STA 2509+50



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |



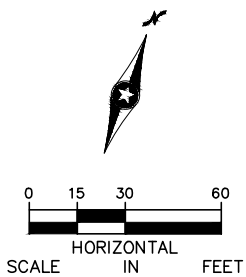
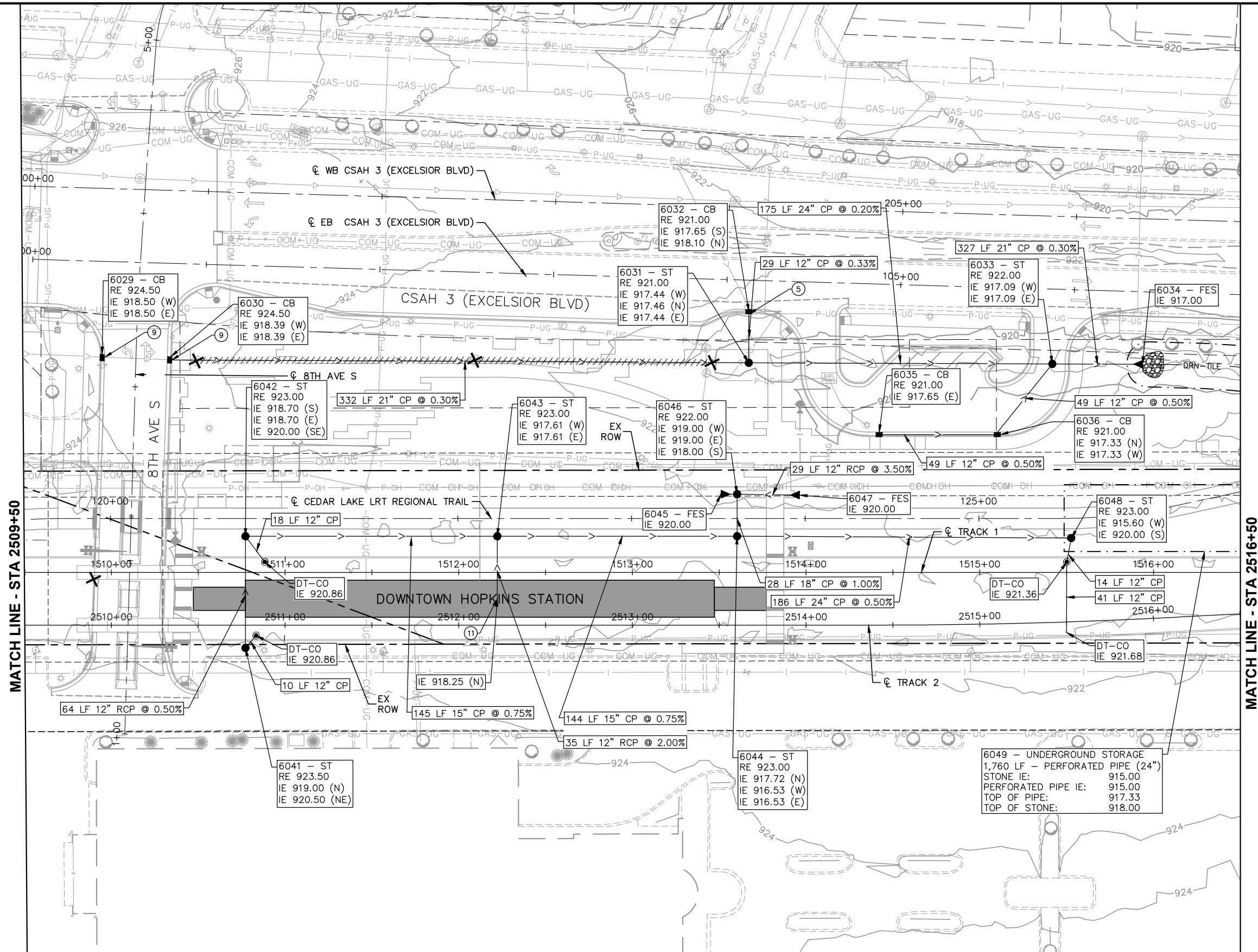
60% SUBMISSION - 09/28/15

SOUTHWEST  
Green Line LRT Extension

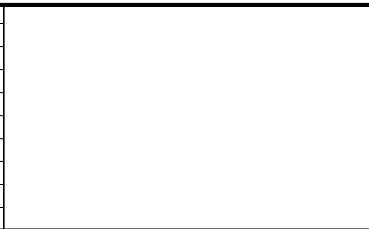
| CIVIL EAST - VOLUME 8<br>DRAINAGE<br>PLAN<br>STA 2502+50 TO STA 2509+50 |                                 |
|-------------------------------------------------------------------------|---------------------------------|
| DISCIPLINE:<br>DRAINAGE                                                 | SHEET NAME:<br>E1-STM-PLN - 002 |

| SHEET |
|-------|
| 15    |
| OF    |
| 95    |

Sep. 21 2015 03:40 pm v:\3400\_ADC\CAD\SEGMENT E1\PLAN SHEETS\STORM SEWER\E1--STM-PLN.dwg By: 589



| NO. | DATE | BY | CHECK/DESIGN | REVISION / SUBMITTAL |
|-----|------|----|--------------|----------------------|
|     |      |    |              |                      |
|     |      |    |              |                      |
|     |      |    |              |                      |
|     |      |    |              |                      |
|     |      |    |              |                      |
|     |      |    |              |                      |
|     |      |    |              |                      |
|     |      |    |              |                      |
|     |      |    |              |                      |





60% SUBMISSION - 09/28/15



CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2509+50 TO STA 2516+50

DISCIPLINE: DRAINAGE  
SHEET NAME: E1-STM-PLN - 003

SHEET  
16  
OF  
95

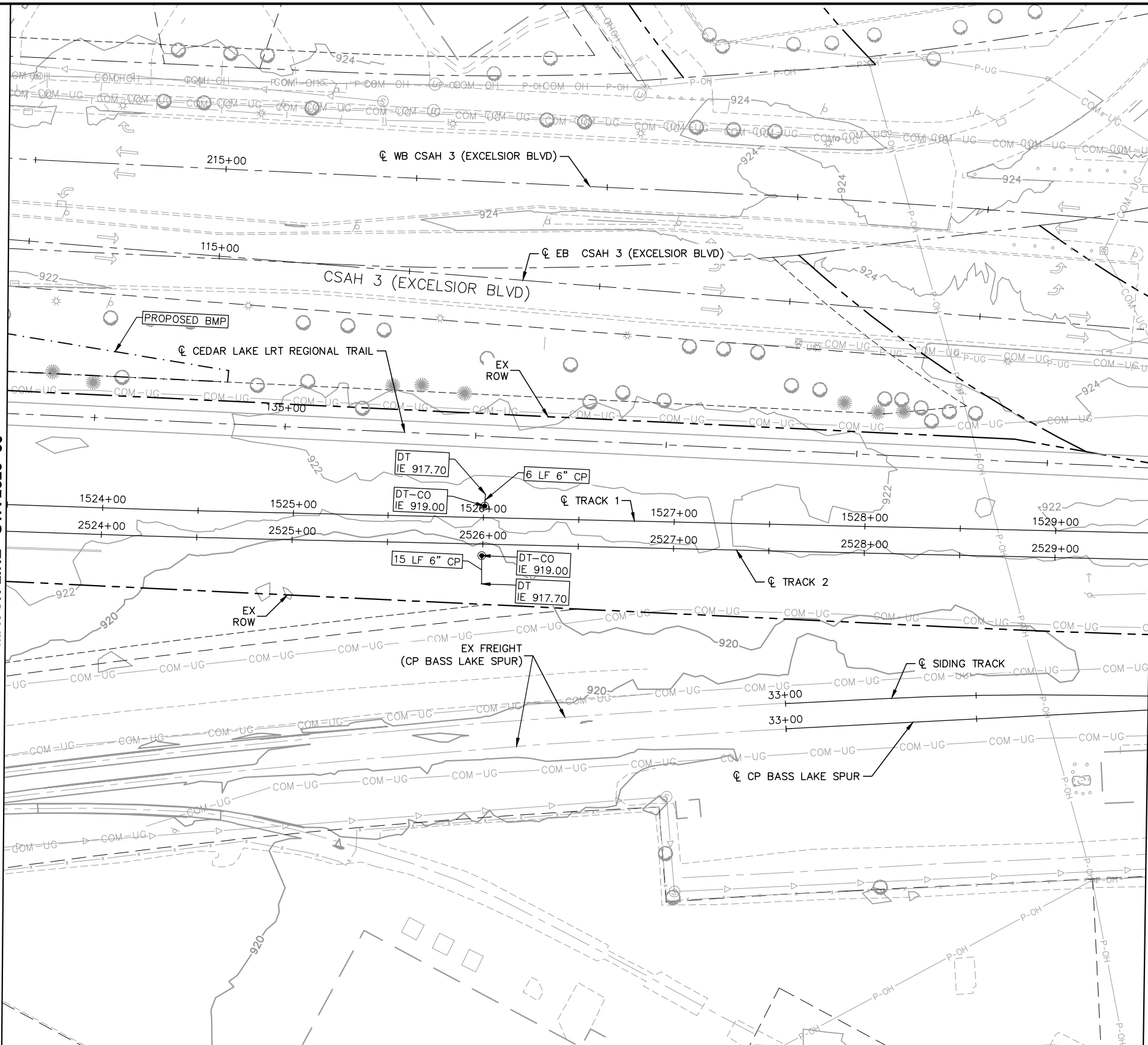




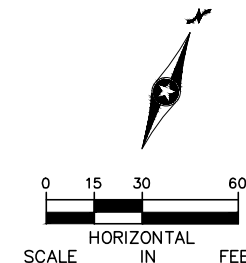


Sep. 21 2015 03:41 pm V:\3400\_ADC\CAD\CAD\SEGMENT E1\PLAN SHEETS\STORM SEWER\E1-STM-PLN.dwg By: 589

MATCH LINE - STA 2523+50



MATCH LINE - STA 2529+50



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |

**AECOM**

**Sambatek**  
www.sambatek.com  
Engineering | Surveying | Planning | Environmental

**METROPOLITAN**  
C O U N C I L

**SOUTHWEST**  
Green Line LRT Extension



**CIVIL EAST - VOLUME 8**  
**DRAINAGE**  
**PLAN**  
**STA 2523+50 TO STA 2529+50**

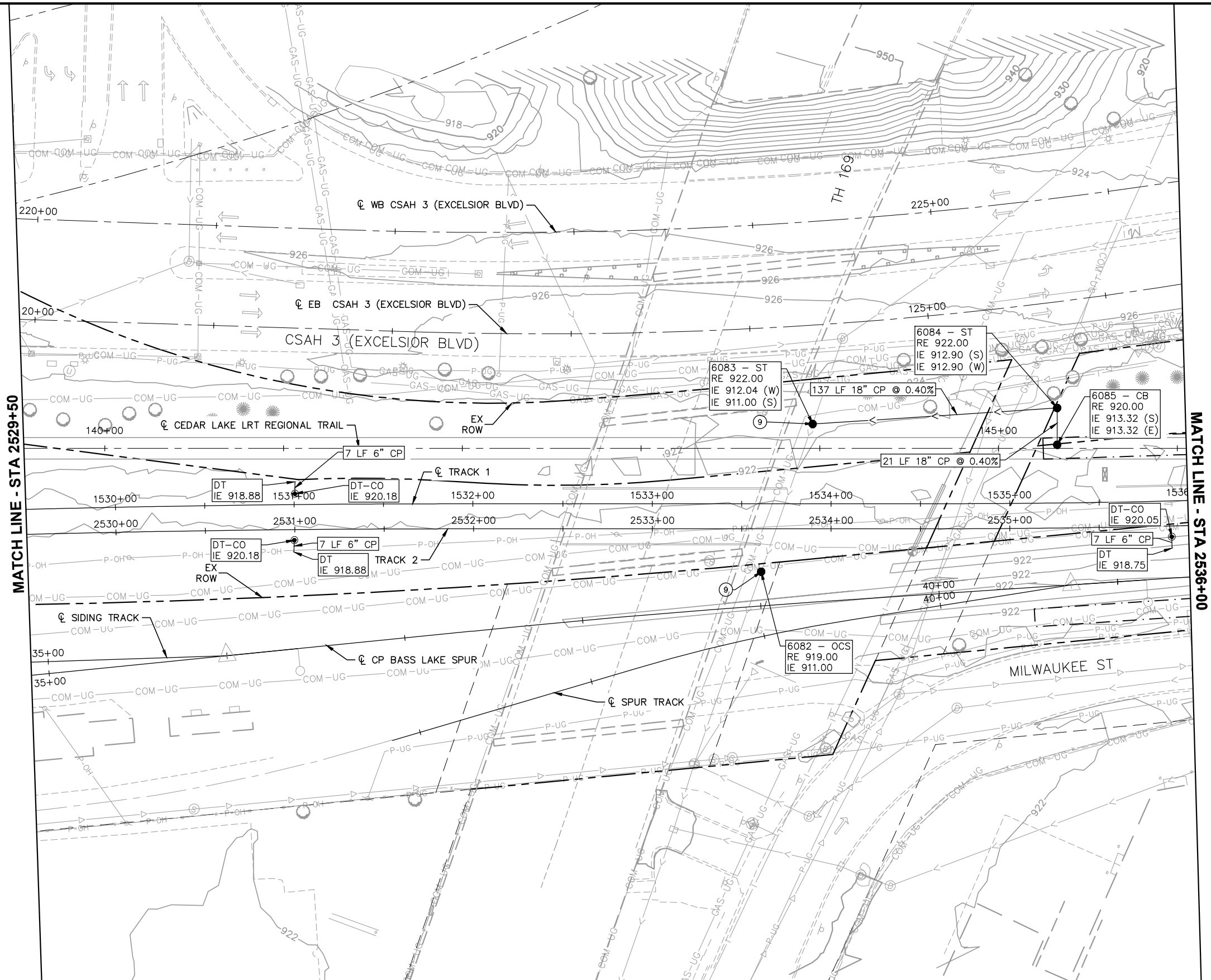
DISCIPLINE:  
**DRAINAGE**

SHEET NAME:  
**E1-STM-PLN - 005**

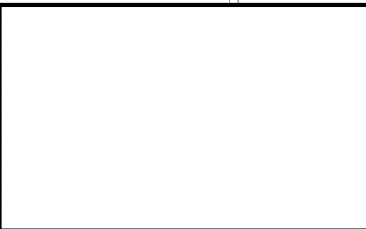
**SHEET**  
**18**  
**OF**  
**95**

**60% SUBMISSION - 09/28/15**

Sep. 21 2015 03:42 pm v:\3400\_ADC\CAD\SEGMENT E1\PLAN SHEETS\STORM SEWER\E1--STM-PLN.dwg By: 589



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15



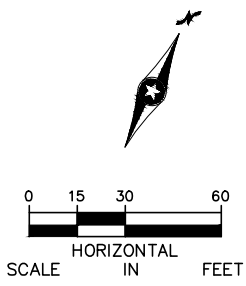
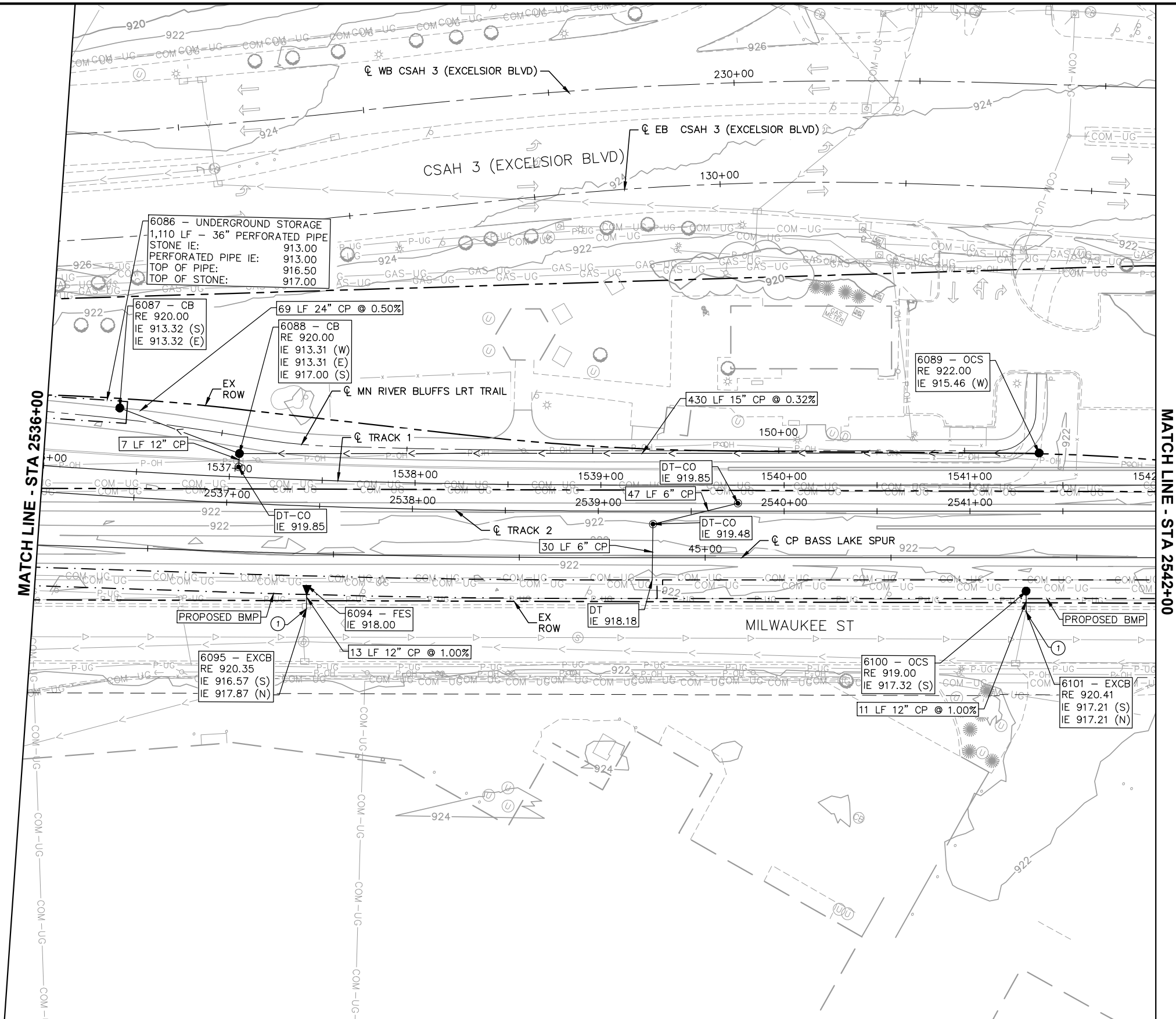
CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2529+50 TO STA 2536+00

|                         |                                 |
|-------------------------|---------------------------------|
| DISCIPLINE:<br>DRAINAGE | SHEET NAME:<br>E1-STM-PLN - 006 |
|-------------------------|---------------------------------|

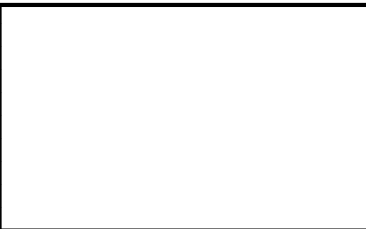
SHEET  
19  
OF  
95



Sep. 21 2015 03:43 pm V:\3400\_ADC\CAD\SEGMENT E1\PLAN SHEETS\STORM SEWER\E1-STM-PLN.dwg By: 589



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |



60% SUBMISSION - 09/28/15

CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2536+00 TO STA 2542+00

DISCIPLINE: DRAINAGE

SHEET NAME: E1-STM-PLN - 007

SHEET

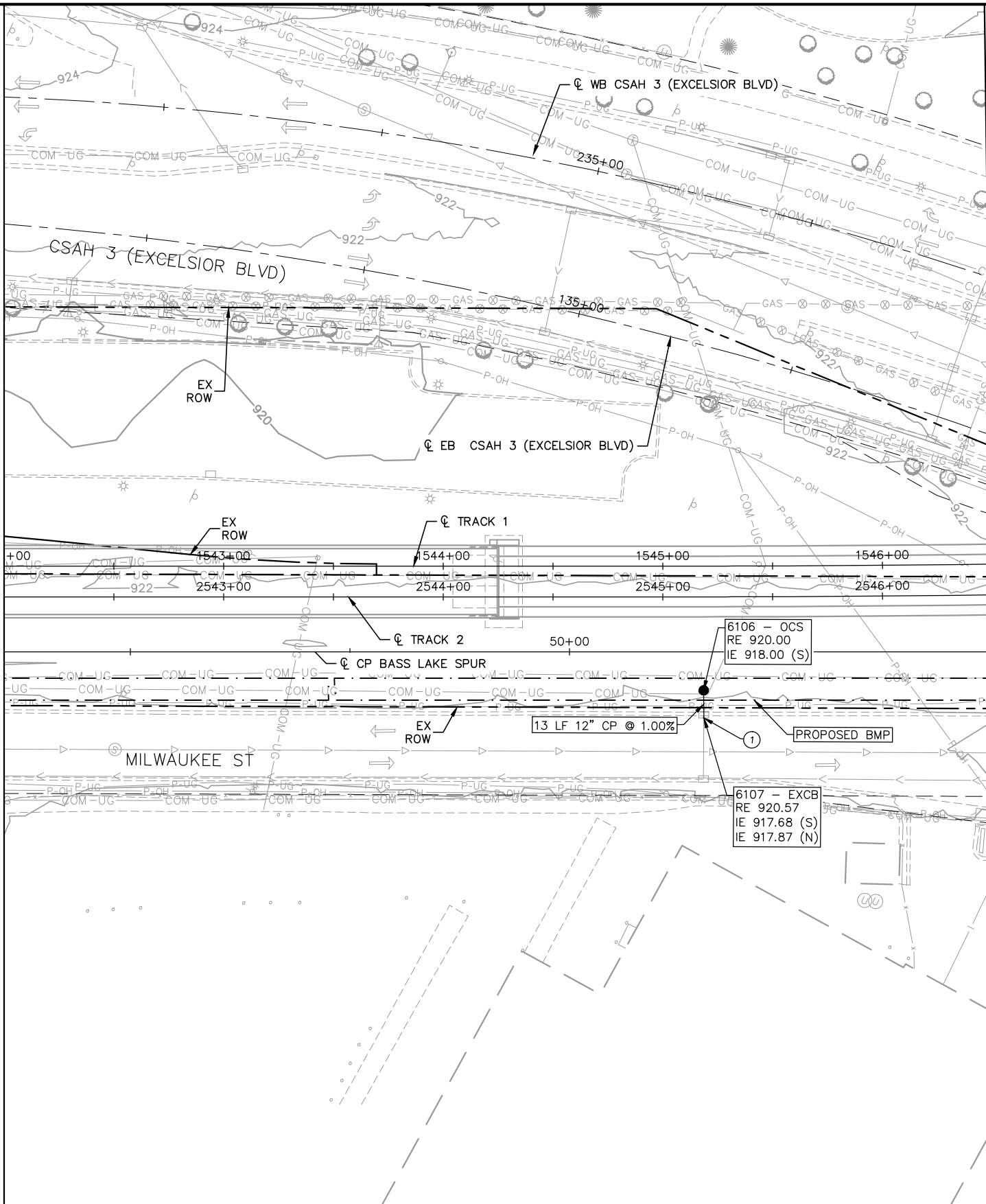
20

OF

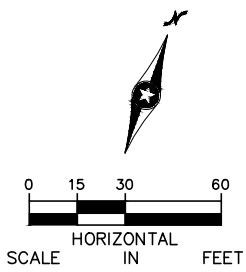
95

Sep. 21 2015 03:43 pm V:\3400\_ADC\CAD\SEGMENT E1\PLAN SHEETS\STORM SEWER\E1-STM-PLN.dwg By: 589

MATCH LINE - STA 2542+00



MATCH LINE - STA 2546+50



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |

60% SUBMISSION - 09/28/15

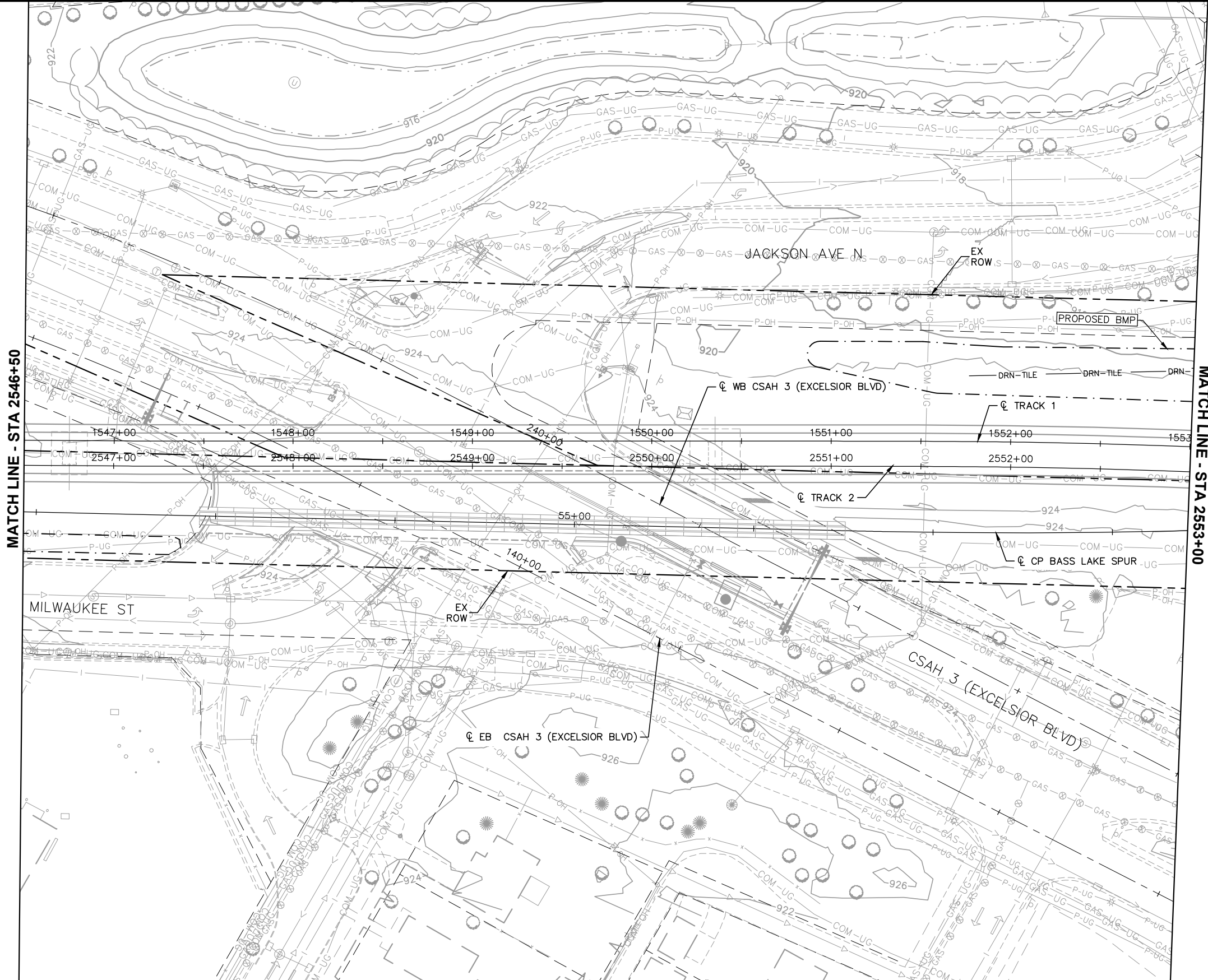
CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2542+00 TO STA 2546+50

DISCIPLINE: DRAINAGE  
SHEET NAME: E1-STM-PLN - 008

SHEET  
21  
OF  
95



Sep. 21 2015 03:44 pm V:\3400\_ADC\CAD\SEGMENT E1\PLAN SHEETS\STORM SEWER\E1--STM-PLN.dwg By: 589



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15

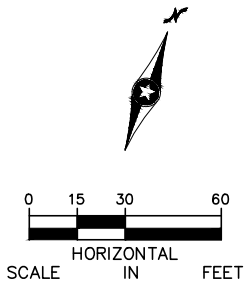
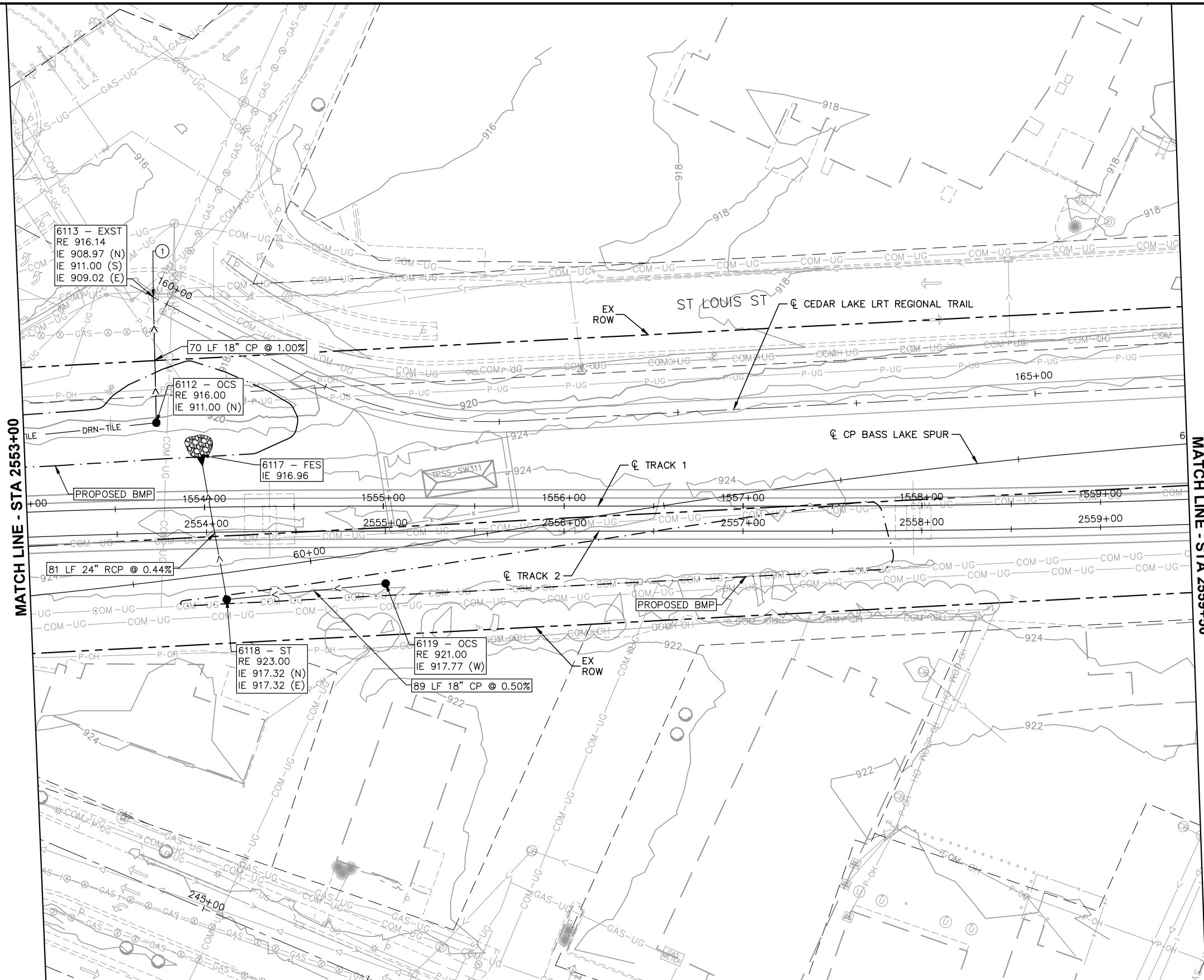


CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2546+50 TO STA 2553+00

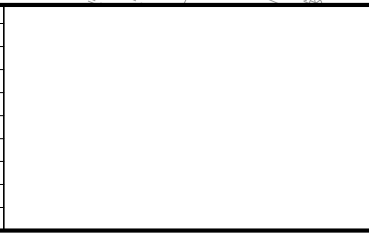
DISCIPLINE: DRAINAGE  
SHEET NAME: E1-STM-PLN - 009

SHEET  
22  
OF  
95

Sep. 21 2015 03:45 pm v:\3400\_ADC\CAD\SEGMENT E1\PLAN SHEETS\STORM SEWER\E1-STM-PLN.dwg By: 589



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |









60% SUBMISSION - 09/28/15




**CIVIL EAST - VOLUME 8**  
**DRAINAGE PLAN**  
**STA 2553+00 TO STA 2559+50**

DISCIPLINE: **DRAINAGE**  
SHEET NAME: **E1-STM-PLN - 010**

SHEET

23

OF

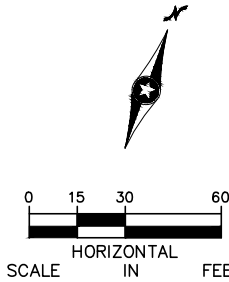
95



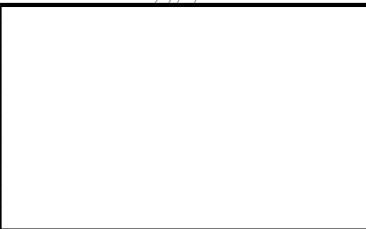
Sep. 21 2015 03:45 pm v:\3400\_ADC\CAD\SEGMENT E1\PLAN SHEETS\STORM SEWER\E1--STM--PLN.dwg By: 589

MATCH LINE - STA 2559+50

MATCH LINE - STA 2566+50



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |







60% SUBMISSION - 09/28/15



CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2559+50 TO STA 2566+50

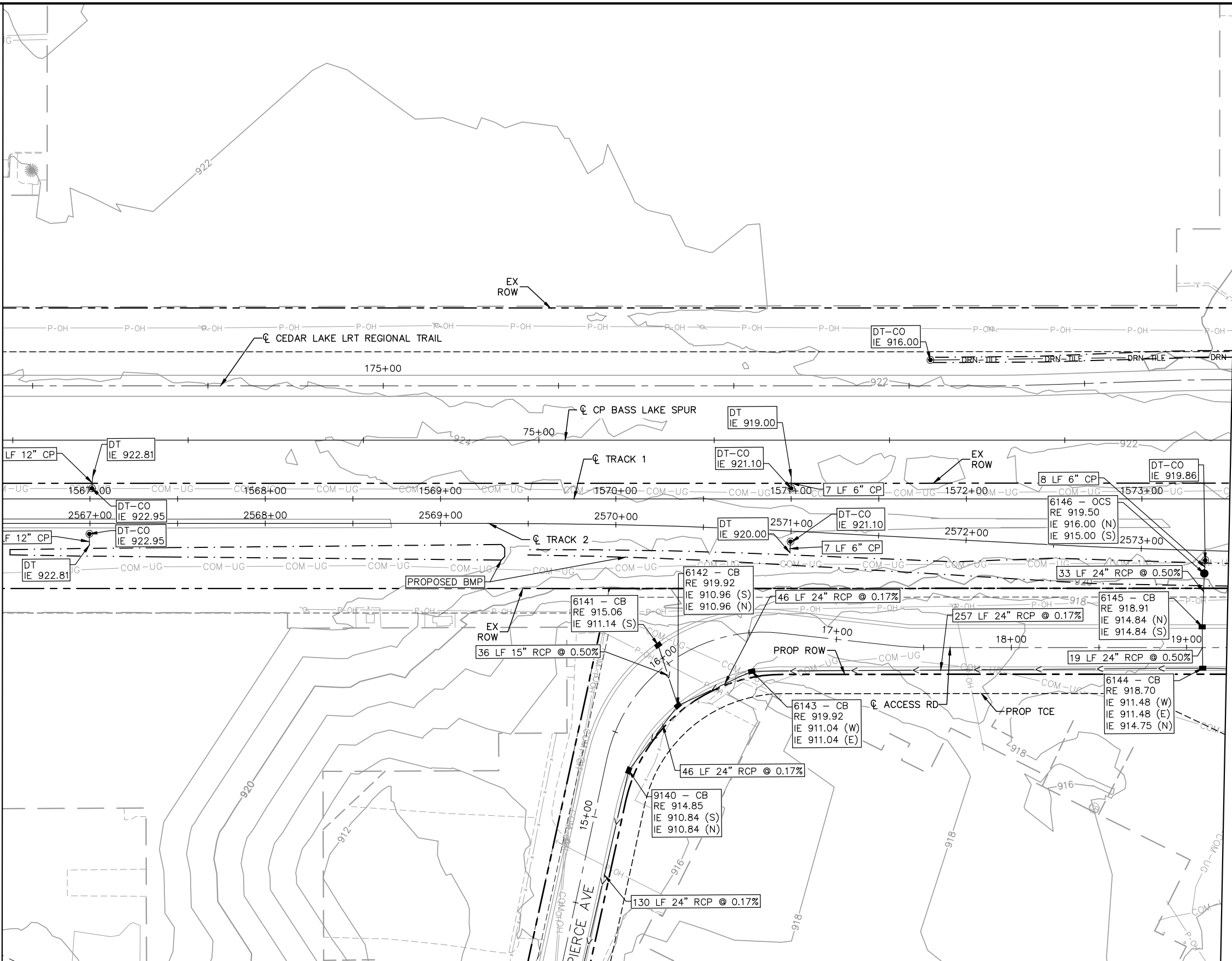
DISCIPLINE: DRAINAGE  
SHEET NAME: E1-STM-PLN - 011

SHEET  
24  
OF  
95

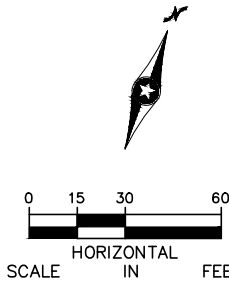


Sep. 21 2015 03:46 pm V:\3400\_ADC\CAD\SEGMENT E1\PLAN SHEETS\STORM SEWER\E1--STM-PLN.dwg By: 589

MATCH LINE - STA 2566+50



MATCH LINE - STA 2573+50



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





Engineering | Surveying | Planning | Environmental



METROPOLITAN COUNCIL

60% SUBMISSION - 09/28/15



SOUTHWEST Green Line LRT Extension



CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2566+50 TO STA 2573+50

DISCIPLINE: DRAINAGE

SHEET NAME: E1-STM-PLN - 012

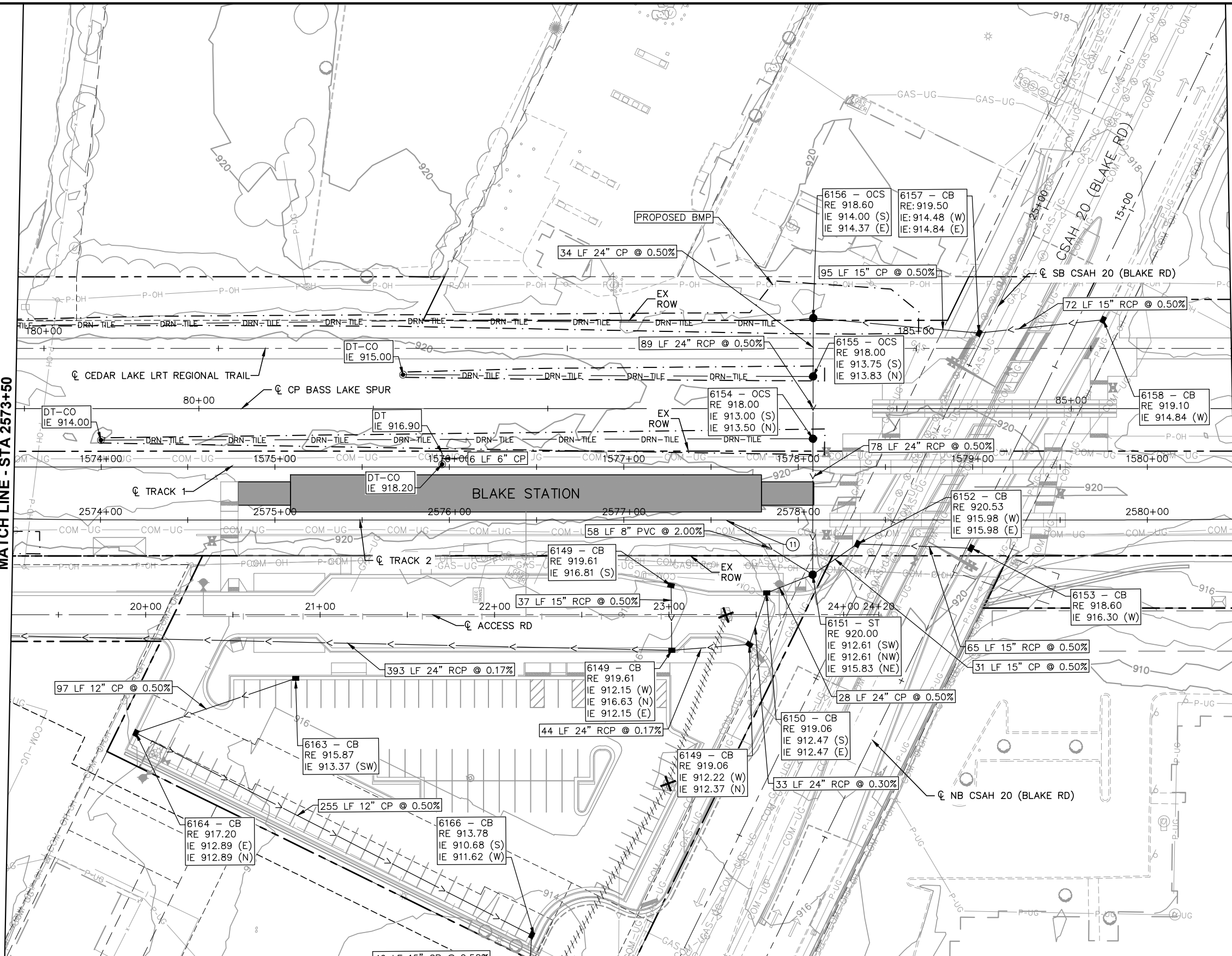
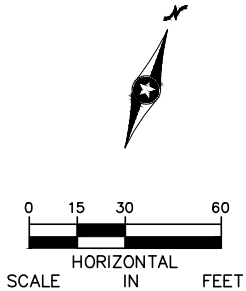
SHEET  
25  
OF  
95



Sep. 21 2015 03:47 pm V:\3400\_ADC\CAD\SEGMENT E1\PLAN SHEETS\STORM SEWER\E1--STM-PLN.dwg By: 589

MATCH LINE - STA 2573+50

MATCH LINE - STA 2580+50



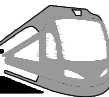
| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |

**AECOM**

**Sambatek**  
www.sambatek.com  
Engineering | Surveying | Planning | Environmental

**METROPOLITAN**  
C O U N C I L

**SOUTHWEST**  
Green Line LRT Extension



**CIVIL EAST - VOLUME 8**  
**DRAINAGE**  
**PLAN**  
**STA 2573+50 TO STA 2580+50**

DISCIPLINE:

**DRAINAGE**

SHEET NAME:

**E1-STM-PLN - 014**

**SHEET**  
**27**  
**OF**  
**95**

**60% SUBMISSION - 09/28/15**

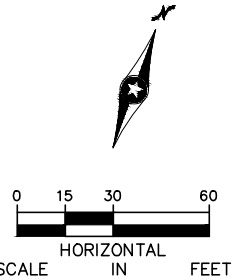


Sep. 21 2015 03:48 pm v:\3400\_ADC\CAD\SEGMENT E1\PLAN SHEETS\STORM SEWER\E1--STM--PLN.dwg By: 589

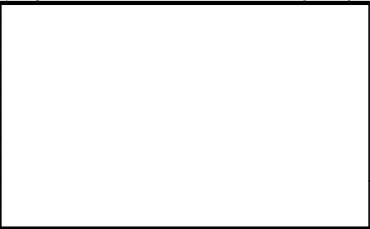
MATCH LINE - STA 2580+50



MATCH LINE - STA 2587+50



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15



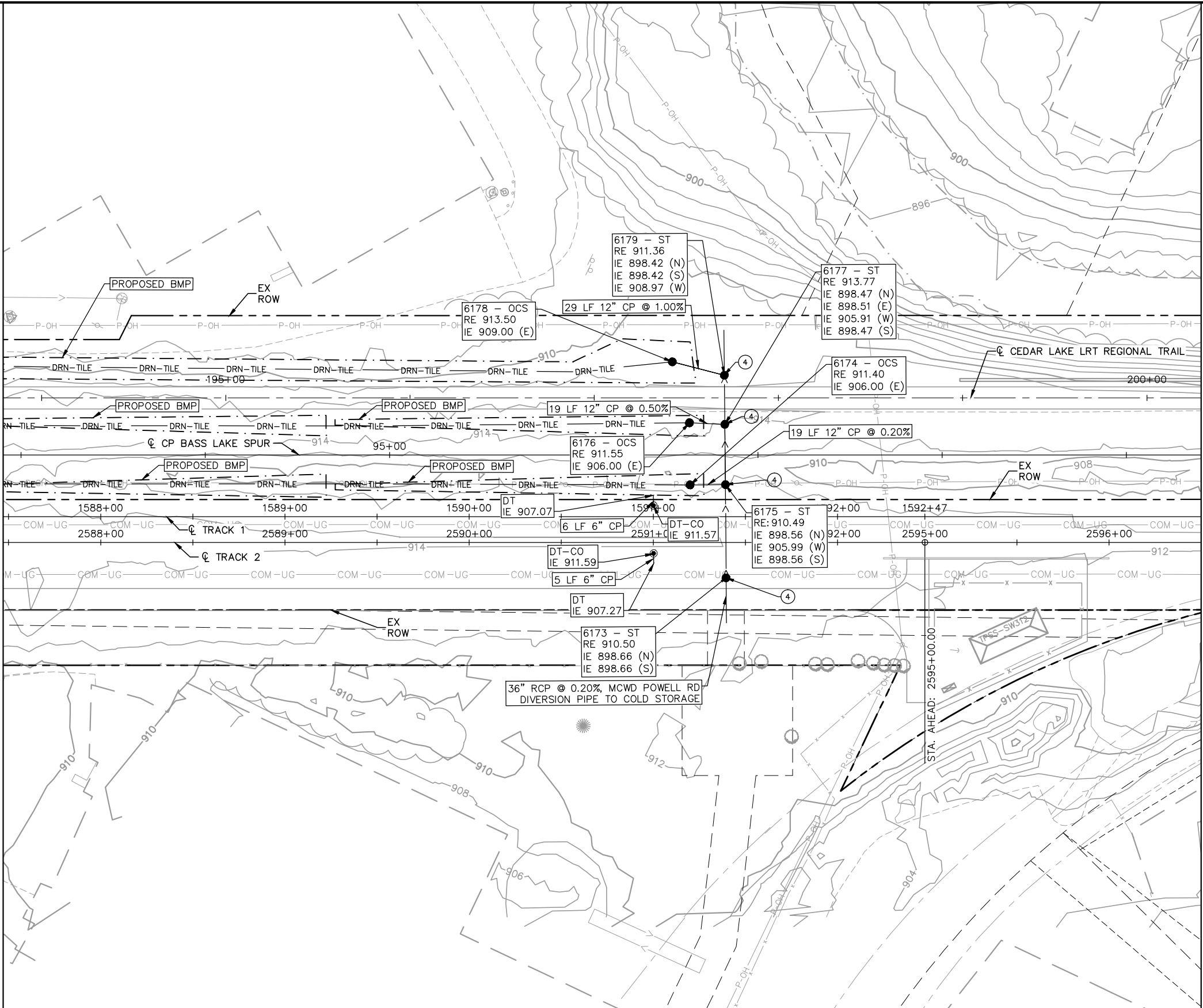
CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2580+50 TO STA 2587+50

DISCIPLINE: DRAINAGE  
SHEET NAME: E1-STM-PLN - 015

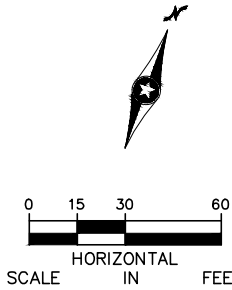
SHEET  
28  
OF  
95

Sep. 21 2015 03:49 pm v:\3400\_ADC\CAD\SEGMENT E1\PLAN SHEETS\STORM SEWER\E1--STM--PLN.dwg By: 589

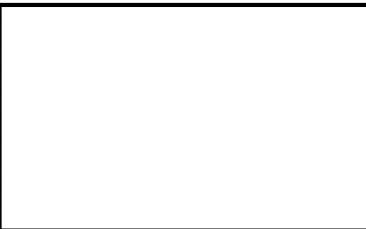
MATCH LINE - STA 2587+50



MATCH LINE - STA 2596+50



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





www.sambatek.com  
Engineering | Surveying | Planning | Environmental



METROPOLITAN  
COUNCIL

60% SUBMISSION - 09/28/15



SOUTHWEST  
Green Line LRT Extension



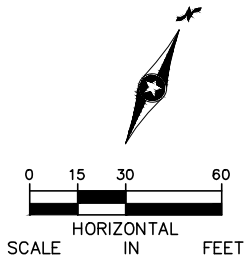
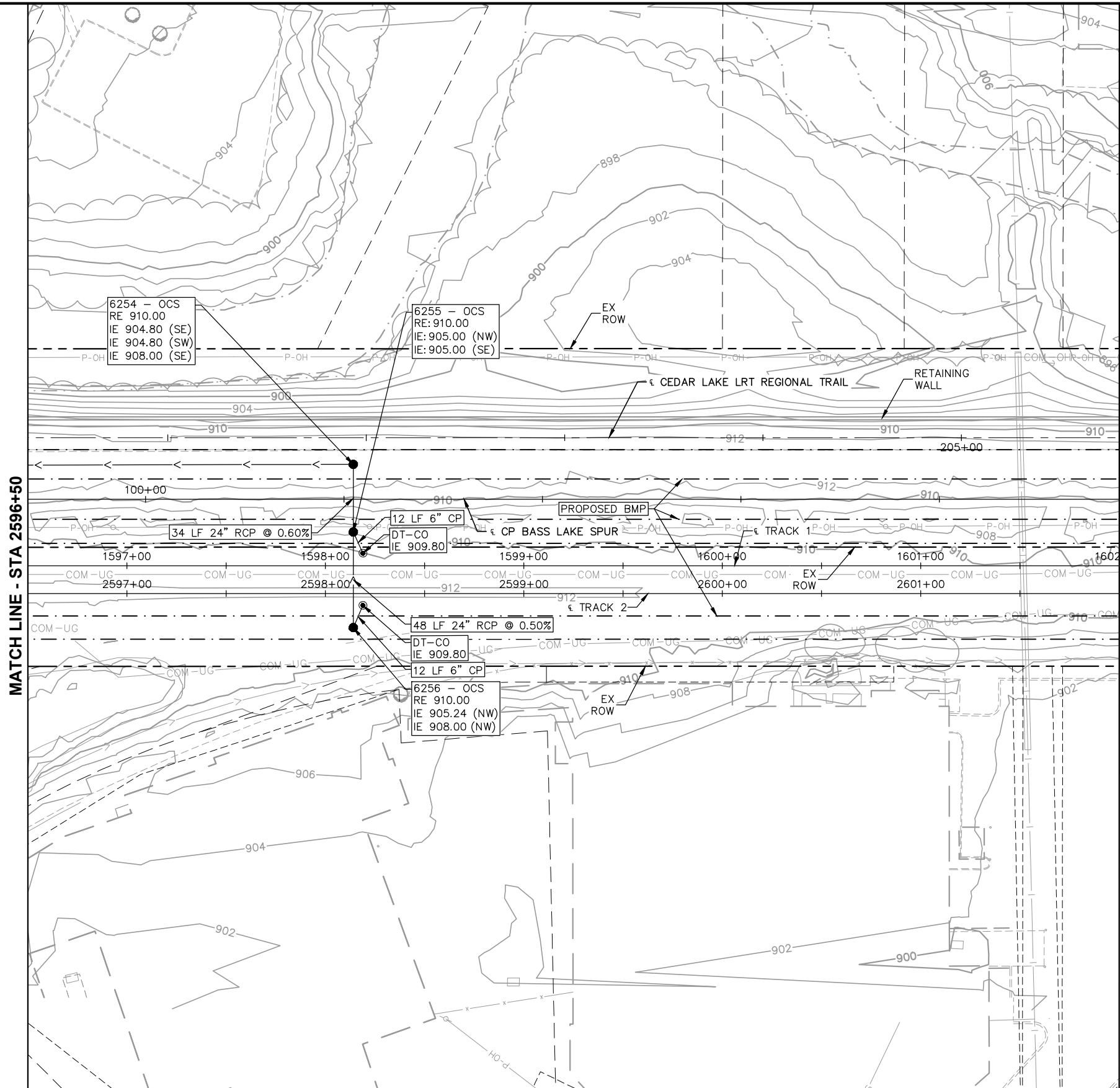
CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2587+50 TO STA 2596+50

DISCIPLINE: DRAINAGE

SHEET NAME: E1-STM-PLN - 016

SHEET  
29  
OF  
95

Sep. 21 2015 04:10 pm V:\3400\_ADC\CAD\SEGMENT E2\PLAN SHEETS\STORM SEWER\E2-STM-PLN.dwg By: 498



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15

CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2596+50 TO STA 2602+00

DISCIPLINE: DRAINAGE

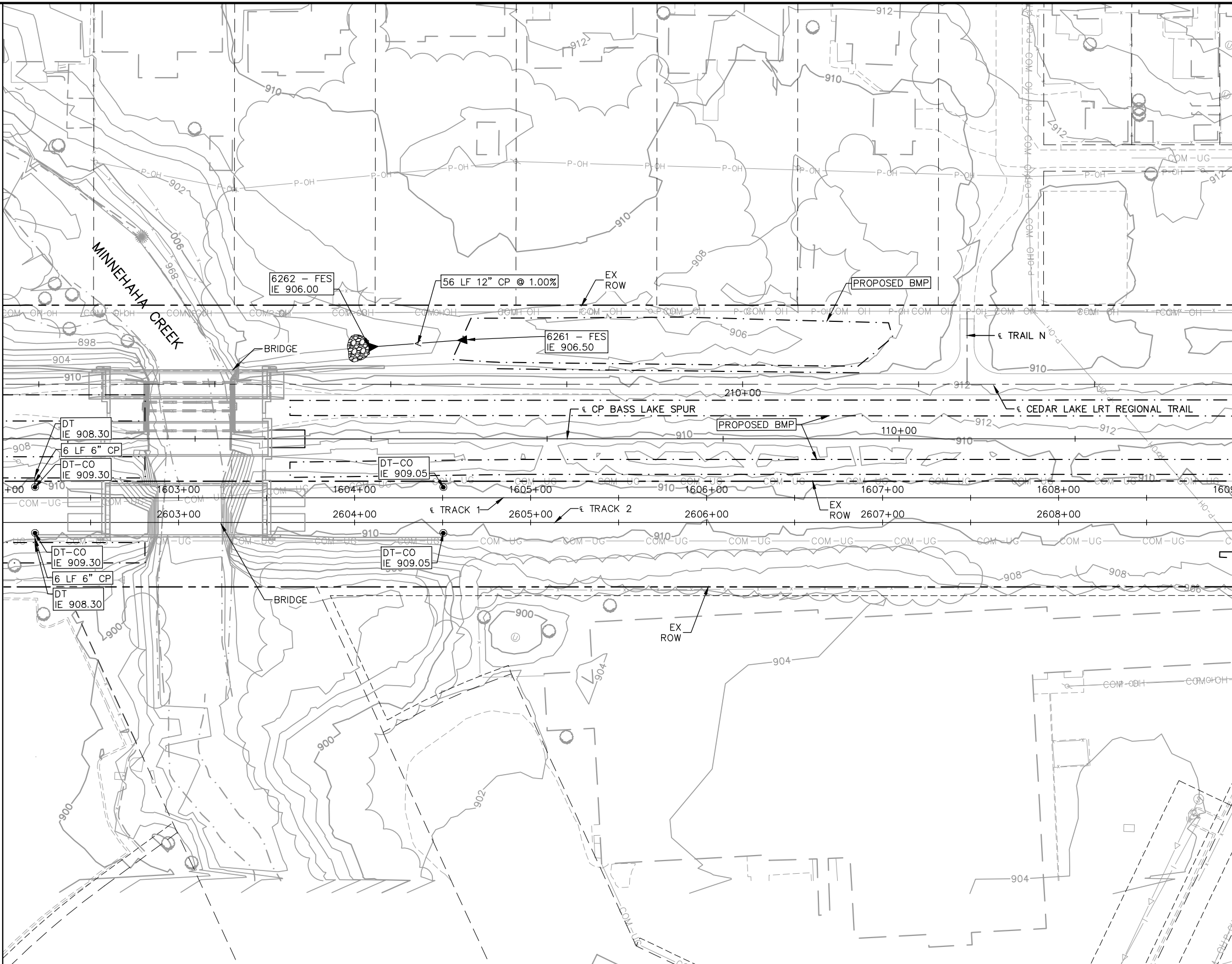
SHEET NAME: E2-STM-PLN - 001

|       |  |    |    |    |
|-------|--|----|----|----|
| SHEET |  | 30 | OF | 95 |
|-------|--|----|----|----|

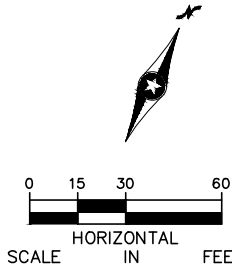


Sep. 21 2015 04:11 pm V:\3400\_ADC\CAD\SEGMENT E2\PLAN SHEETS\STORM SEWER\E2-STM-PLN.dwg By: 498

MATCH LINE - STA 2602+00



MATCH LINE - STA 2609+00



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15



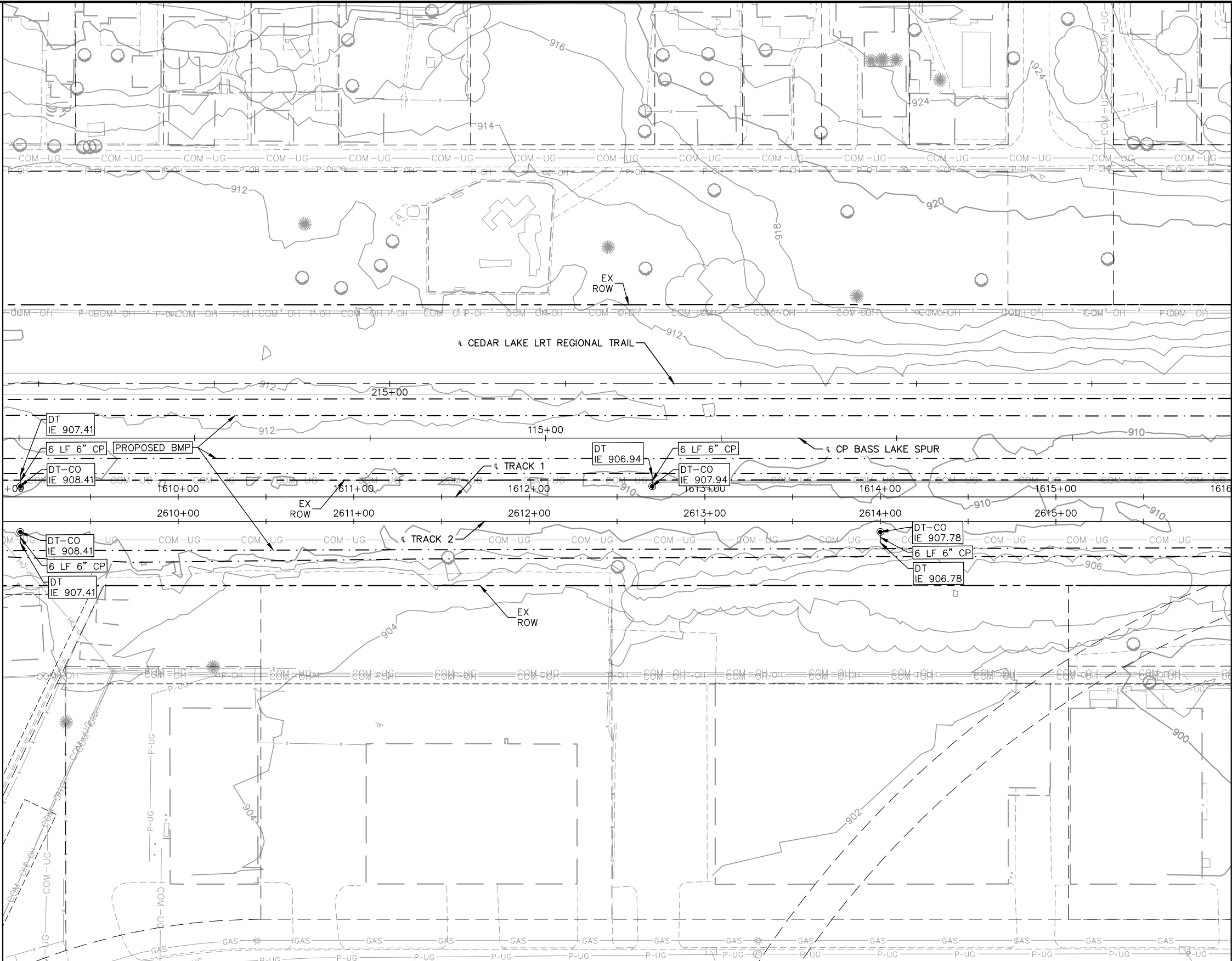
CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2602+00 TO STA 2609+00

DISCIPLINE: DRAINAGE  
SHEET NAME: E2-STM-PLN - 002

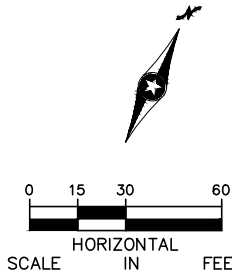
SHEET  
31  
OF  
95

Sep. 21 2015 04:12 pm V:\3400\_ADC\CAD\CAD\SEGMENT E2\PLAN SHEETS\STORM SEWER\E2-STM-PLN.dwg By: 498

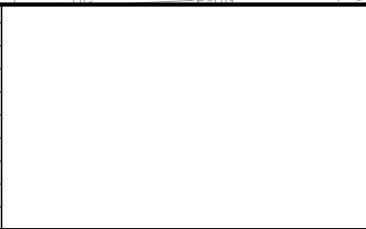
MATCH LINE - STA 2609+00



MATCH LINE - STA 2616+00



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |






60% SUBMISSION - 09/28/15




**CIVIL EAST - VOLUME 8**

**DRAINAGE PLAN**

**STA 2609+00 TO STA 2616+00**

|                                |                                        |
|--------------------------------|----------------------------------------|
| DISCIPLINE:<br><b>DRAINAGE</b> | SHEET NAME:<br><b>E2-STM-PLN - 003</b> |
|--------------------------------|----------------------------------------|

**SHEET**

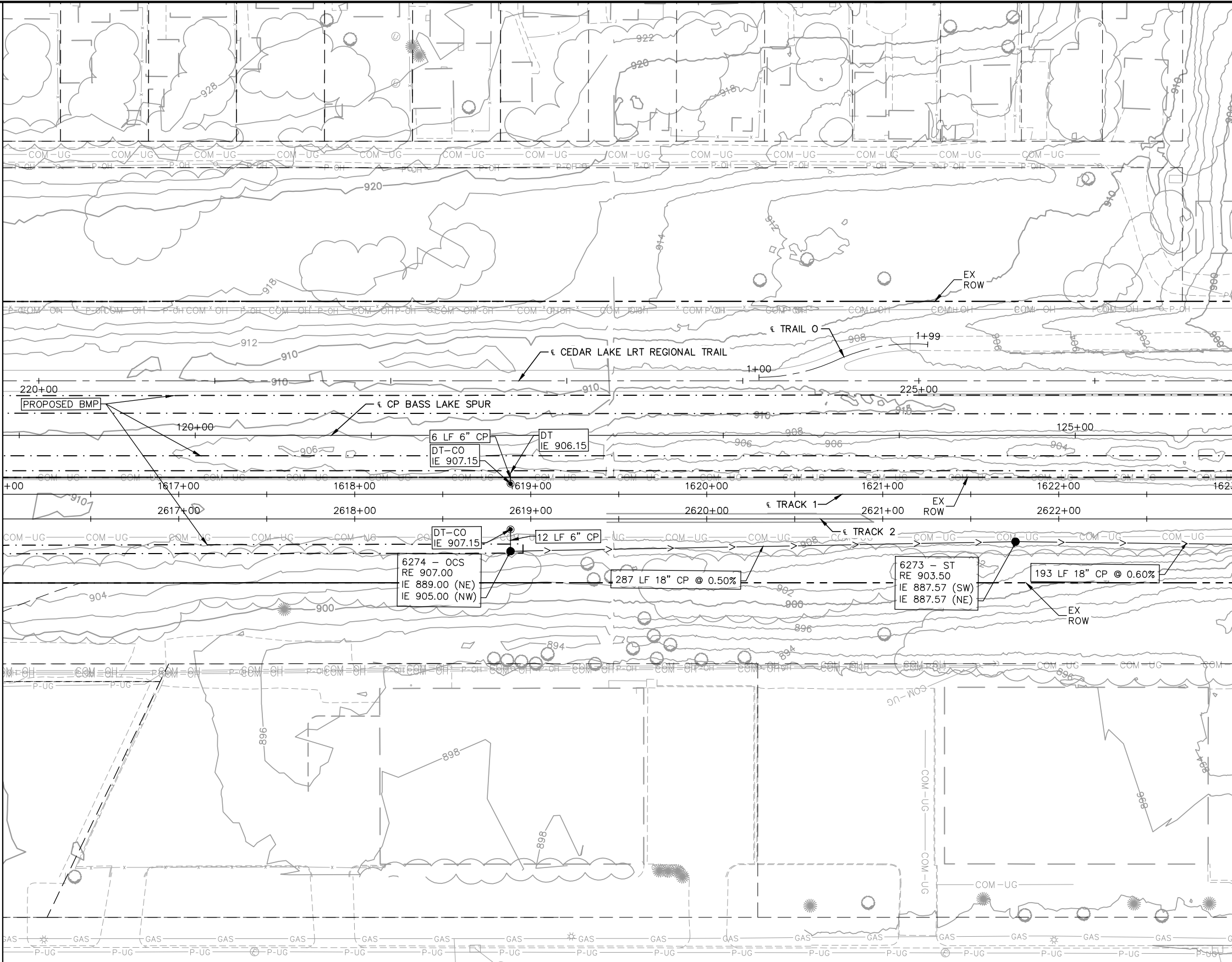
32

OF

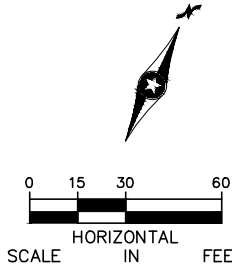
95

Sep. 21 2015 04:13 pm V:\3400\_ADC\CAD\SEGMENT E2\PLAN SHEETS\STORM SEWER\E2-STM-PLN.dwg By: 498

MATCH LINE - STA 2616+00



MATCH LINE - STA 2623+00



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15



CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2616+00 TO STA 2623+00

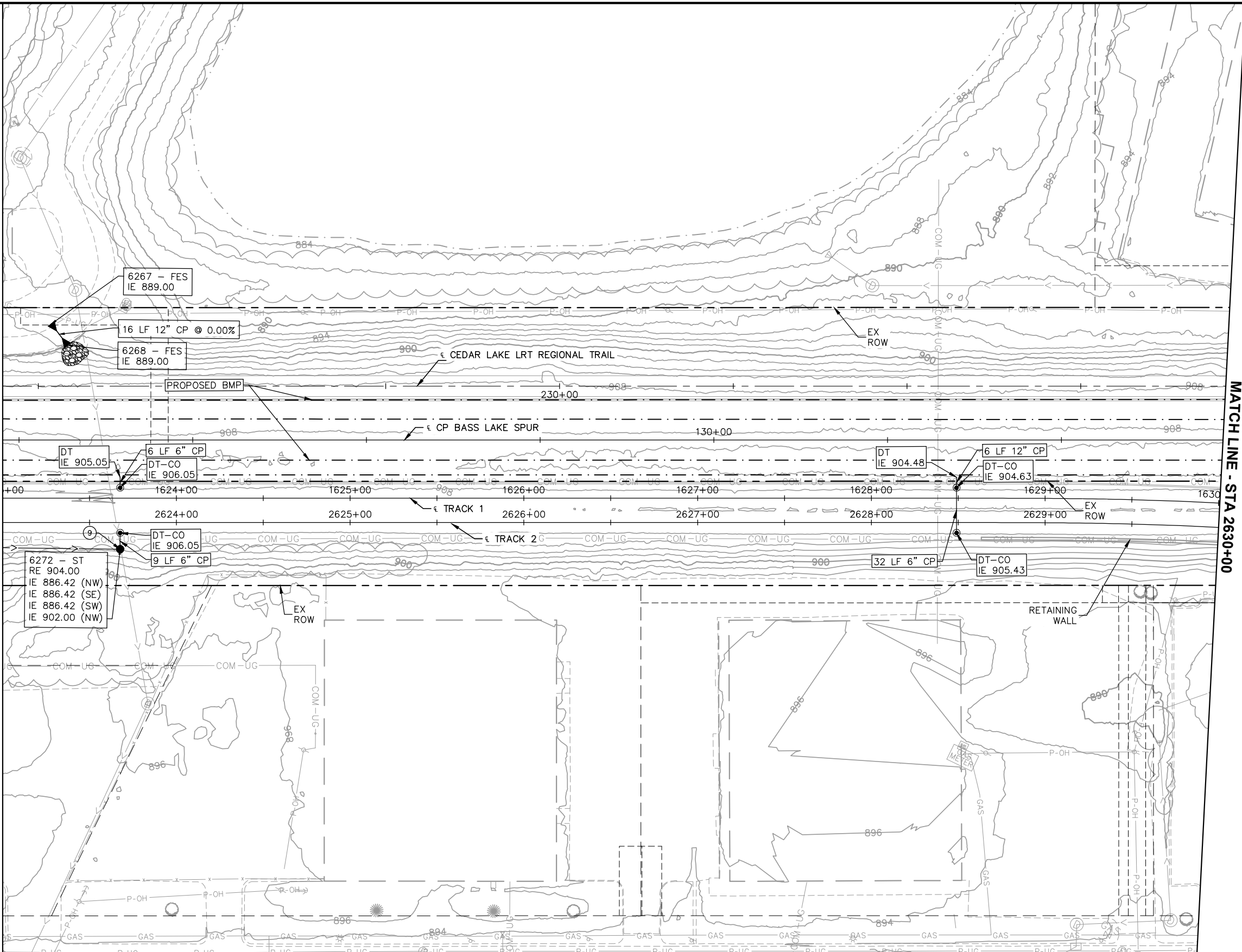
DISCIPLINE: DRAINAGE  
SHEET NAME: E2-STM-PLN - 004

SHEET  
33  
OF  
95

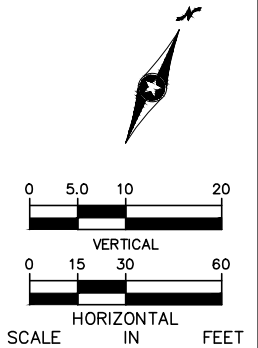


Sep. 21 2015 04:13 pm V:\3400\_ADC\CAD\SEGMENT E2\PLAN SHEETS\STORM SEWER\E2-STM-PLN.dwg By: 498

MATCH LINE - STA 2623+00



MATCH LINE - STA 2630+00



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |



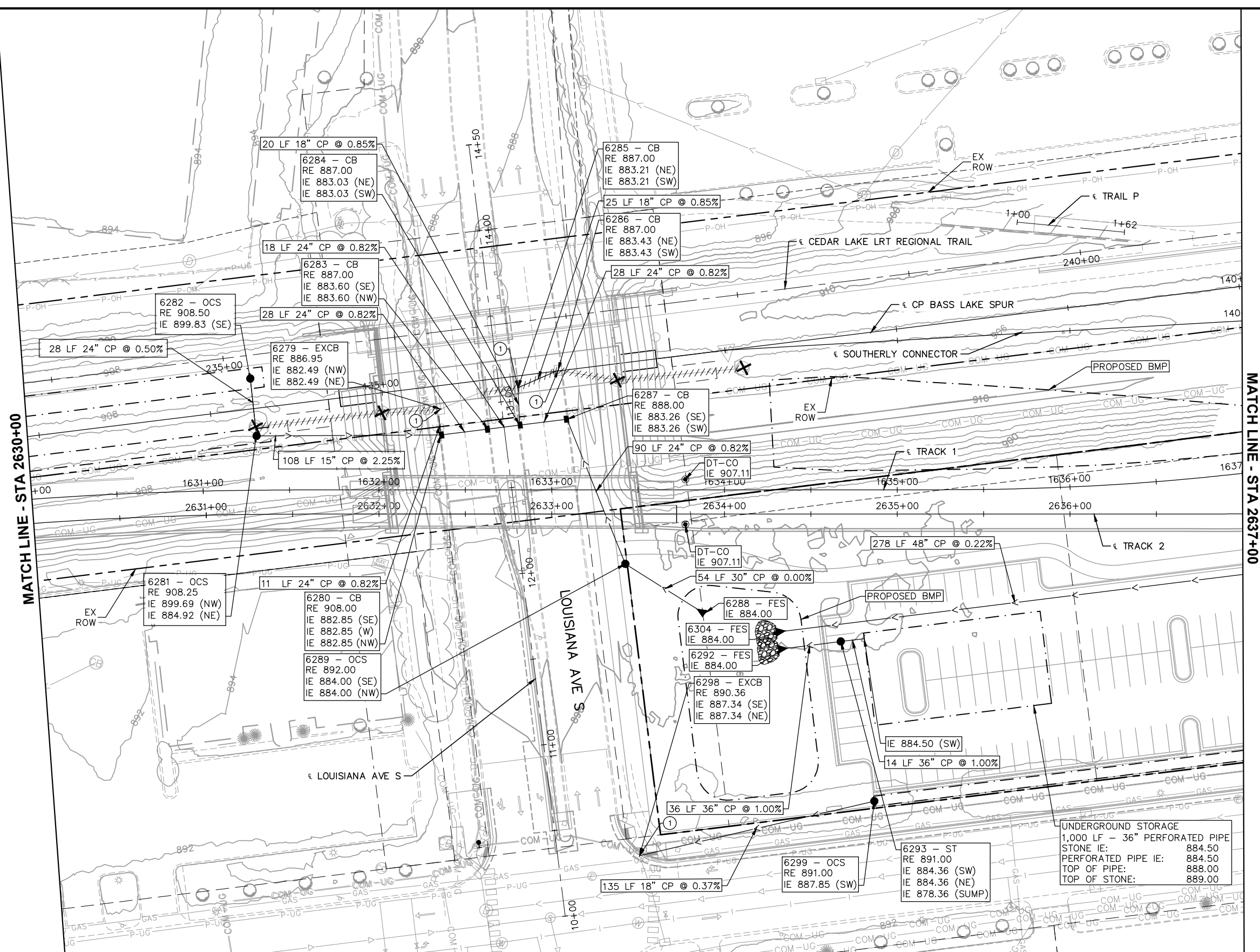
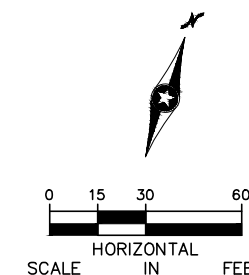
60% SUBMISSION - 09/28/15

CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2623+00 TO STA 2630+00

DISCIPLINE:  
DRAINAGE

SHEET NAME:  
E2-STM-PLN - 005

SHEET  
34  
OF  
95

[illegible]

60% SUBMISSION - 09/28/15

**CIVIL EAST - VOLUME 8**  
**DRAINAGE**  
**PLAN**  
**STA 2630+00 TO STA 2637+00**

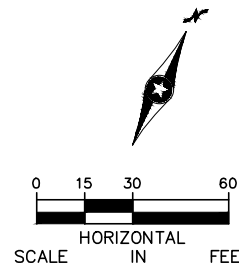
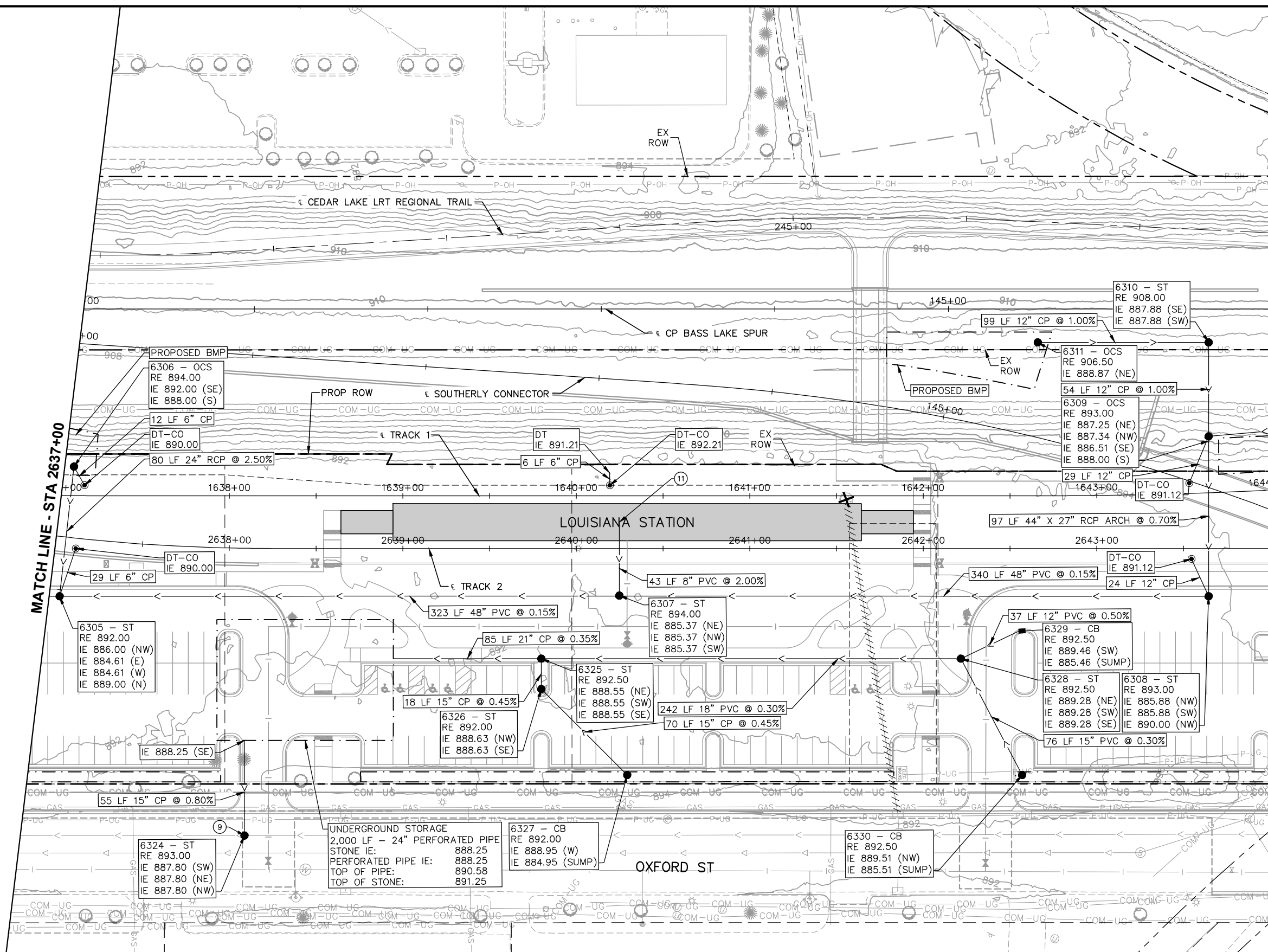
DISCIPLINE: **DRAINAGE**

|             |                  |
|-------------|------------------|
| SHEET NAME: | E2-STM-PLN - 006 |
|-------------|------------------|

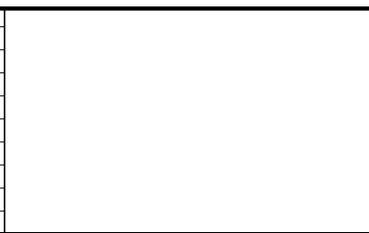
|  |              |
|--|--------------|
|  | <b>SHEET</b> |
|  | <b>35</b>    |
|  | <b>OF</b>    |
|  | <b>95</b>    |



Sep. 21 2015 04:14 pm V:\3400\_ADC\CAD\SEGMENT E2\PLAN SHEETS\STORM SEWER\E2-STM-PLN.dwg By: 498



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |



Engineering | Surveying | Planning | Environmental

Metropolitan

60% SUBMISSION - 09/28/15

Southwest

Green Line LRT Extension

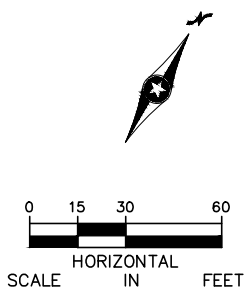
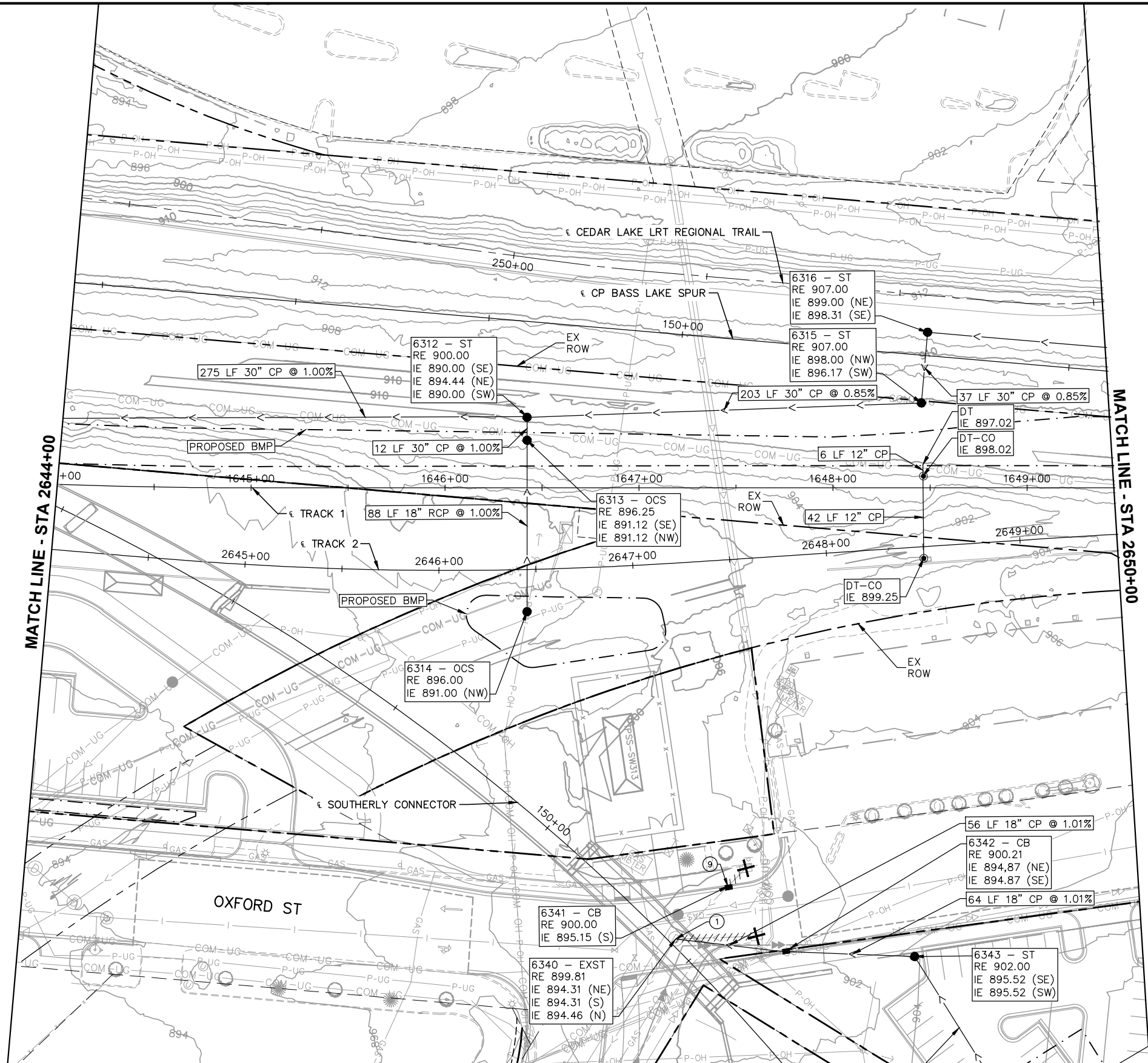
CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2637+00 TO STA 2644+00

DISCIPLINE: DRAINAGE

SHEET NAME: E2-STM-PLN - 007



Sep. 21 2015 04:15 pm V:\3400\_ADC\CAD\SEGMENT E2\PLAN SHEETS\STORM SEWER\E2-STM-PLN.dwg By: 498



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





Engineering | Surveying | Planning | Environmental



Green Line LRT Extension



Green Line LRT Extension



Green Line LRT Extension

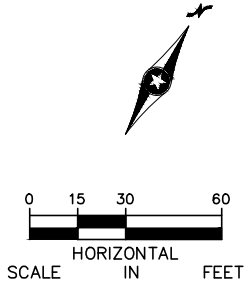
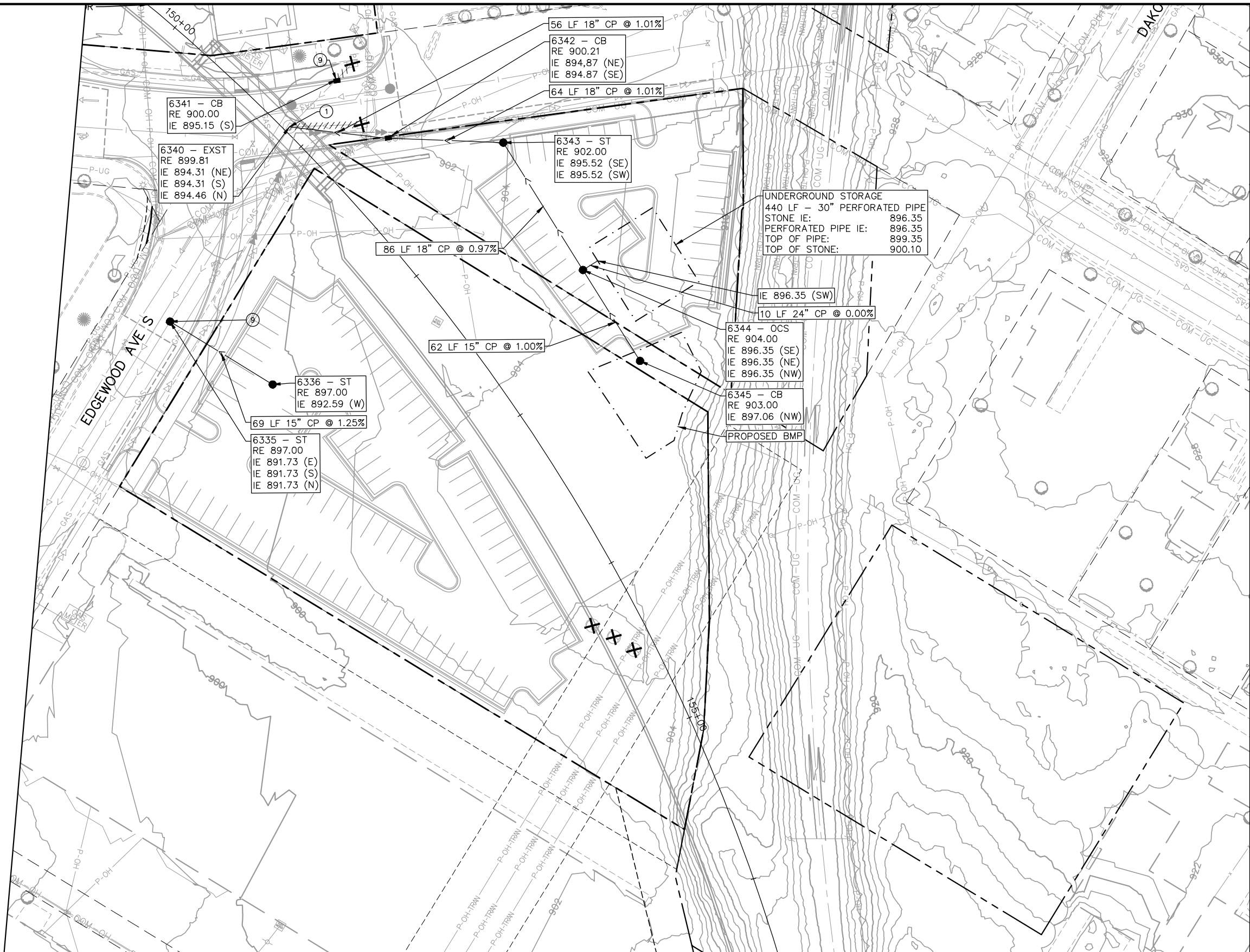
CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2644+00 TO STA 2650+00

DISCIPLINE: DRAINAGE

SHEET NAME: E2-STM-PLN - 008

SHEET  
37  
OF  
95

Sep. 21 2015 04:16 pm v:\3400\_ADC\CAD\SEGMENT E2\PLAN SHEETS\STORM SEWER\E2-STM-PLN.dwg By: 498



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15



CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
LOUISIANA PARK & RIDE

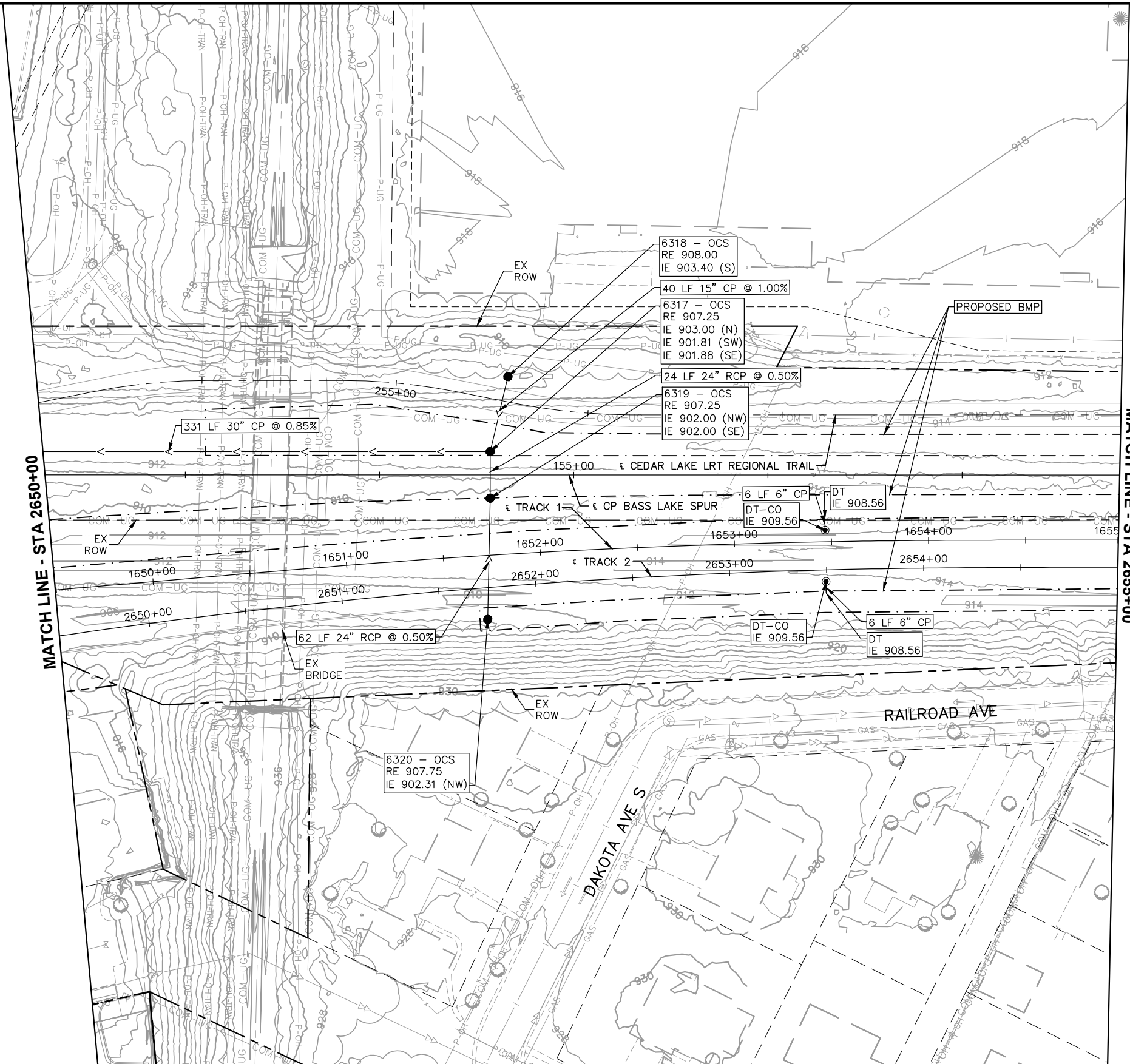
DISCIPLINE:  
DRAINAGE

SHEET NAME:  
E2-STM-PLN - 009

SHEET  
38  
OF  
95



Sep. 21 2015 04:16 pm v:\3400\_ADC\CAD\SEGMENT E2\PLAN SHEETS\STORM SEWER\E2-STM-PLN.dwg By: 498



MATCH LINE - STA 2650+00

MATCH LINE - STA 2655+00

| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15



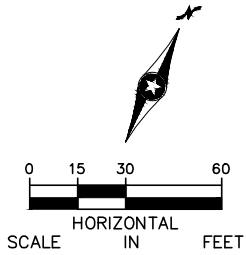
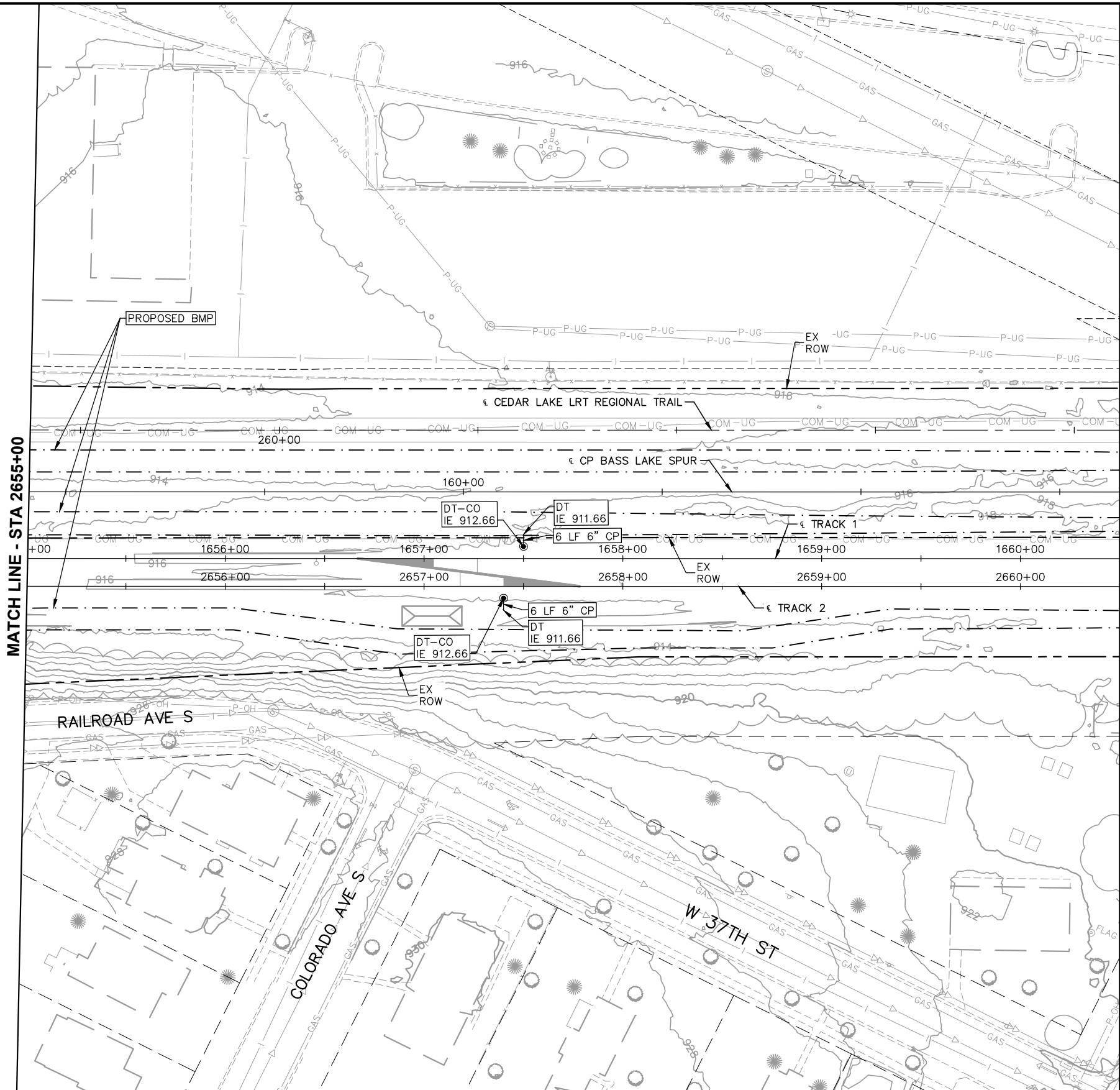
CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2650+00 TO STA 2655+00

DISCIPLINE: DRAINAGE  
SHEET NAME: E2-STM-PLN - 010

SHEET  
39  
OF  
95



Sep. 21 2015 04:17 pm v:\3400\_ADC\CAD\SEGMENT E2\PLAN SHEETS\STORM SEWER\E2-STM-PLN.dwg By: 498



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





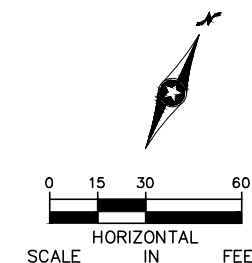
60% SUBMISSION - 09/28/15



CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2655+00 TO STA 2660+50

DISCIPLINE: DRAINAGE  
SHEET NAME: E2-STM-PLN - 011

SHEET  
40  
OF  
95

[illegible]

**CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2660+50 TO STA 2666+00**

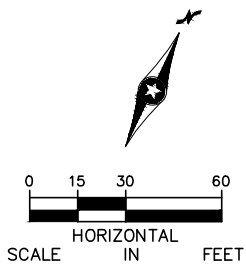
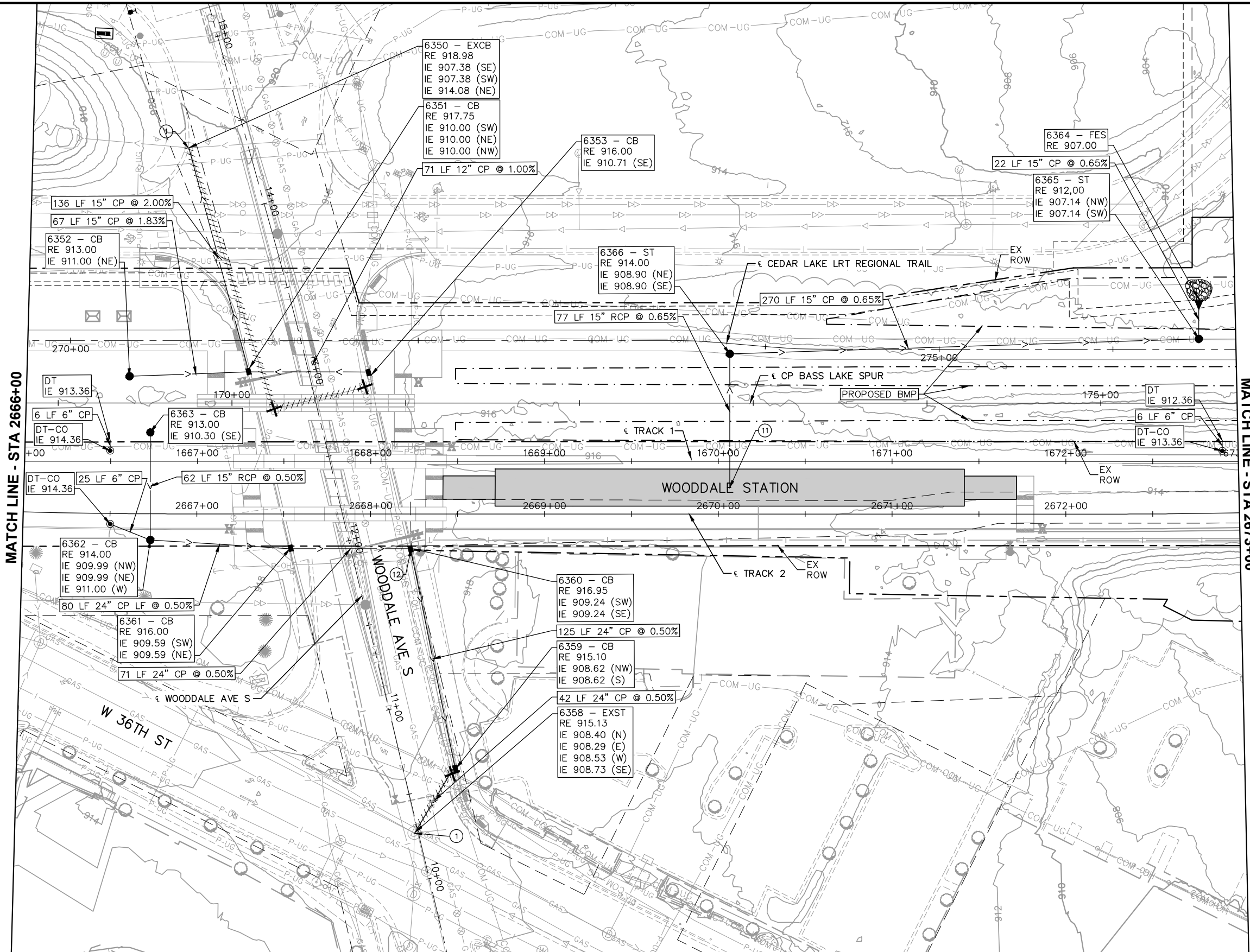
DISCIPLINE: **DRAINAGE**

|             |                  |
|-------------|------------------|
| SHEET NAME: | E2-STM-PLN - 012 |
|-------------|------------------|

|       |
|-------|
| SHEET |
| 41    |
| OF    |
| 95    |



Sep. 21 2015 04:18 pm V:\3400\_ADC\CAD\SEGMENT E2\PLAN SHEETS\STORM SEWER\E2-STM-PLN.dwg By: 498



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





Engineering | Surveying | Planning | Environmental



METROPOLITAN COUNCIL

60% SUBMISSION - 09/28/15



SOUTHWEST Green Line LRT Extension



METROPOLITAN COUNCIL

CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2666+00 TO STA 2673+00

DISCIPLINE: DRAINAGE

SHEET NAME: E2-STM-PLN - 013

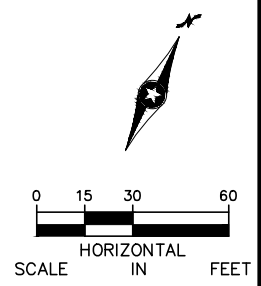
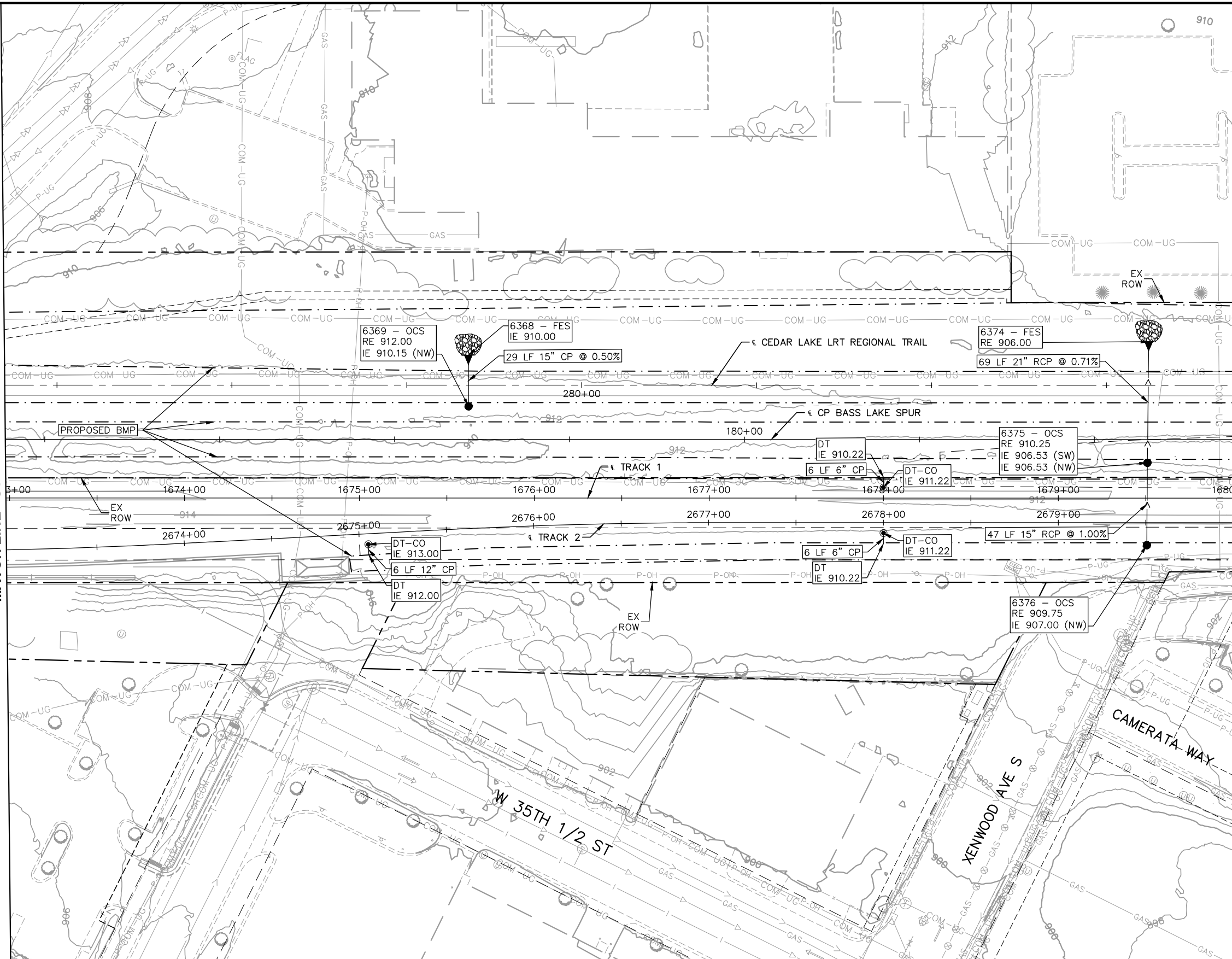
SHEET  
42  
OF  
95



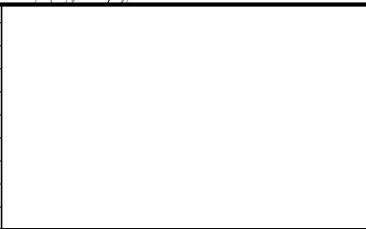
Sep. 21 2015 04:19 pm V:\3400\_ADC\CAD\SEGMENT E2\PLAN SHEETS\STORM SEWER\E2-STM-PLN.dwg By: 498

MATCH LINE - STA 2673+00

MATCH LINE - STA 2680+00



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |

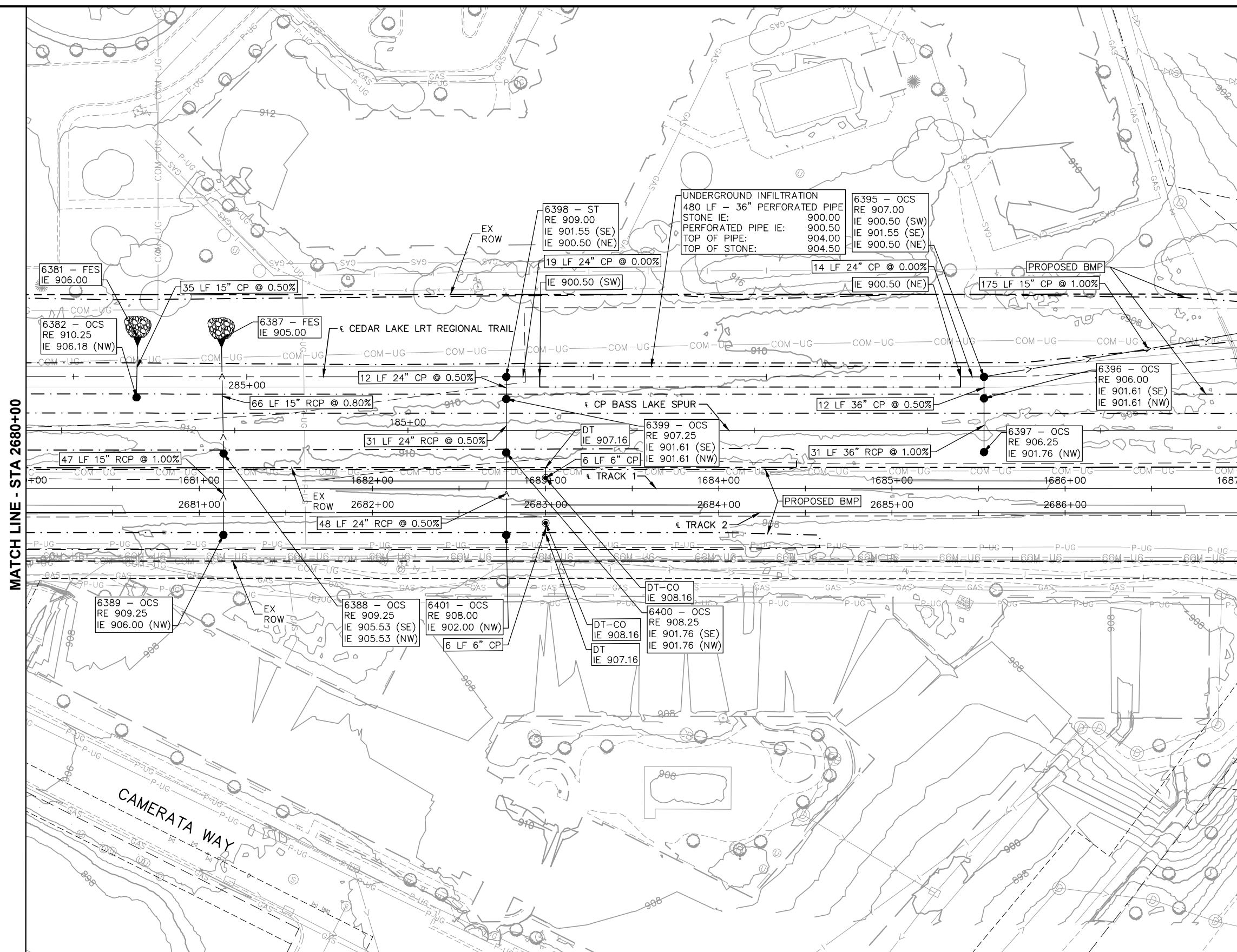


60% SUBMISSION - 09/28/15

CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2673+00 TO STA 2680+00

|                         |                                 |
|-------------------------|---------------------------------|
| DISCIPLINE:<br>DRAINAGE | SHEET NAME:<br>E2-STM-PLN - 014 |
|-------------------------|---------------------------------|

SHEET  
43  
OF  
95



|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |



**METROPOLITAN**  
COUNCIL

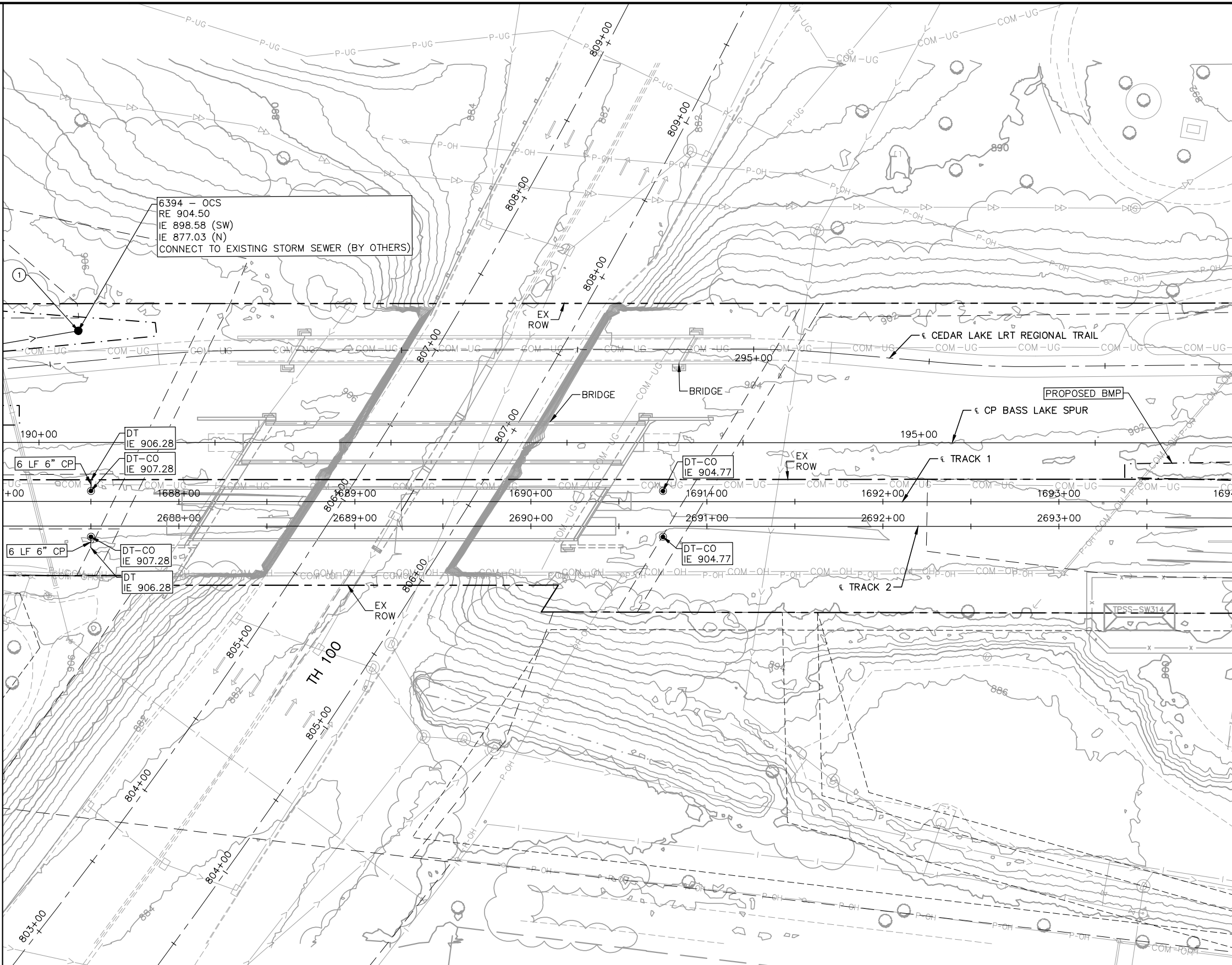
**SOUTHWEST**  
Green Line LRT Extension

SHEET  
44  
OF  
95

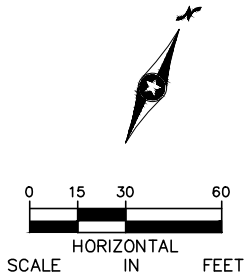


Sep. 21 2015 04:20 pm v:\3400\_ADC\CAD\SEGMENT E2\PLAN SHEETS\STORM SEWER\E2-STM-PLN.dwg By: 498

MATCH LINE - STA 2687+00



MATCH LINE - STA 2694+00



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





www.sambatek.com  
Engineering | Surveying | Planning | Environmental



METROPOLITAN  
COUNCIL

60% SUBMISSION - 09/28/15



SOUTHWEST  
Green Line LRT Extension

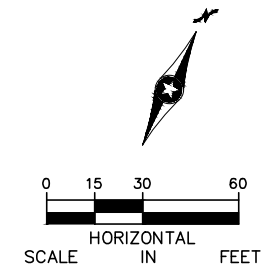
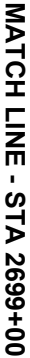
CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2687+00 TO STA 2694+00

DISCIPLINE: DRAINAGE

SHEET NAME: E2-STM-PLN - 016

SHEET  
45  
OF  
95

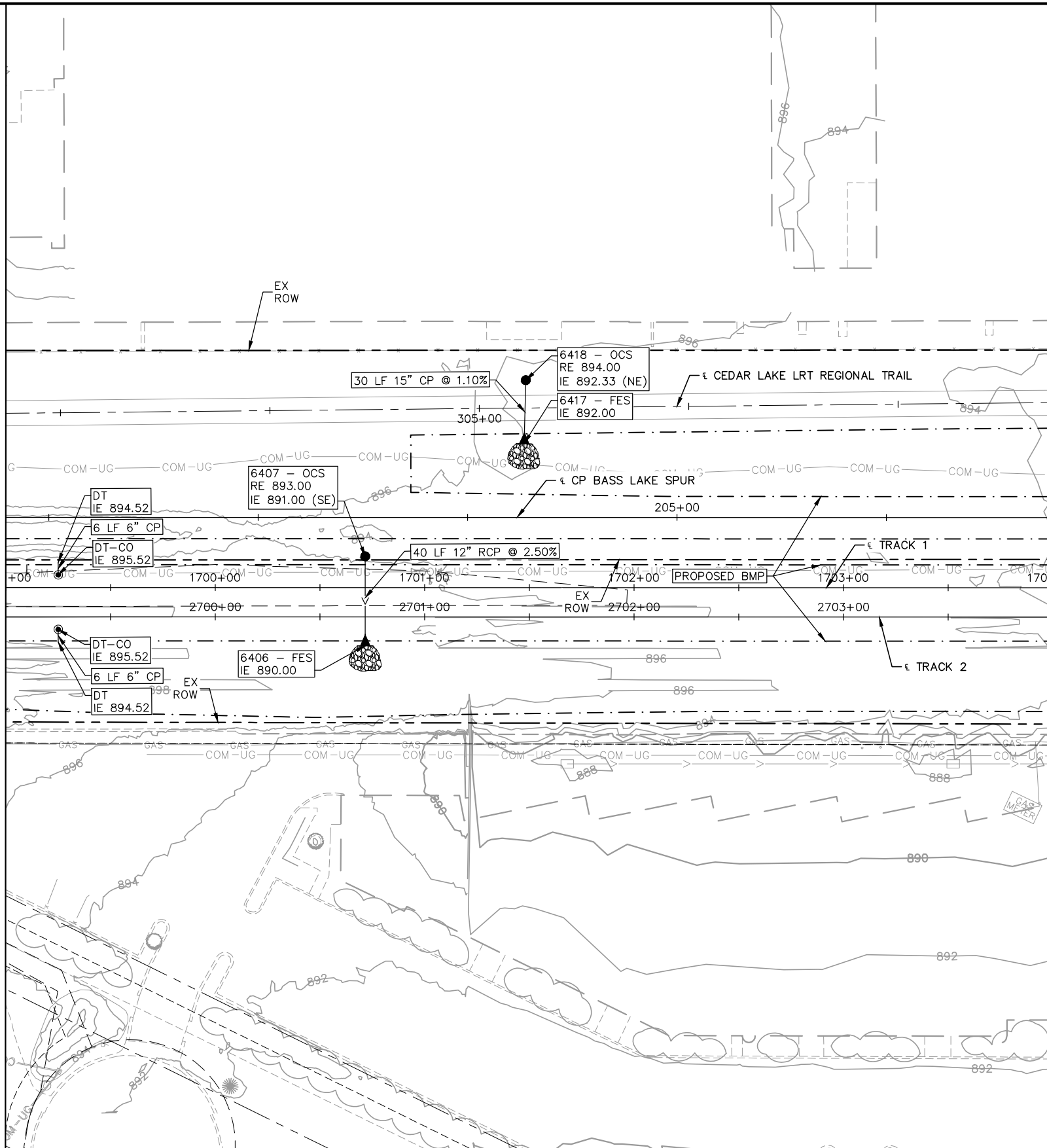
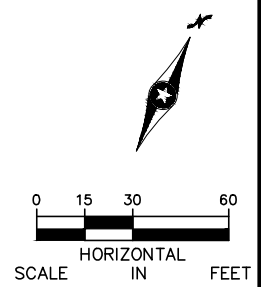




Sep. 21 2015 04:21 pm v:\3400\_ADC\CAD\SEGMENT E2\PLAN SHEETS\STORM SEWER\E2-STM-PLN.dwg By: 498

MATCH LINE - STA 2699+00

MATCH LINE - STA 2704+00



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





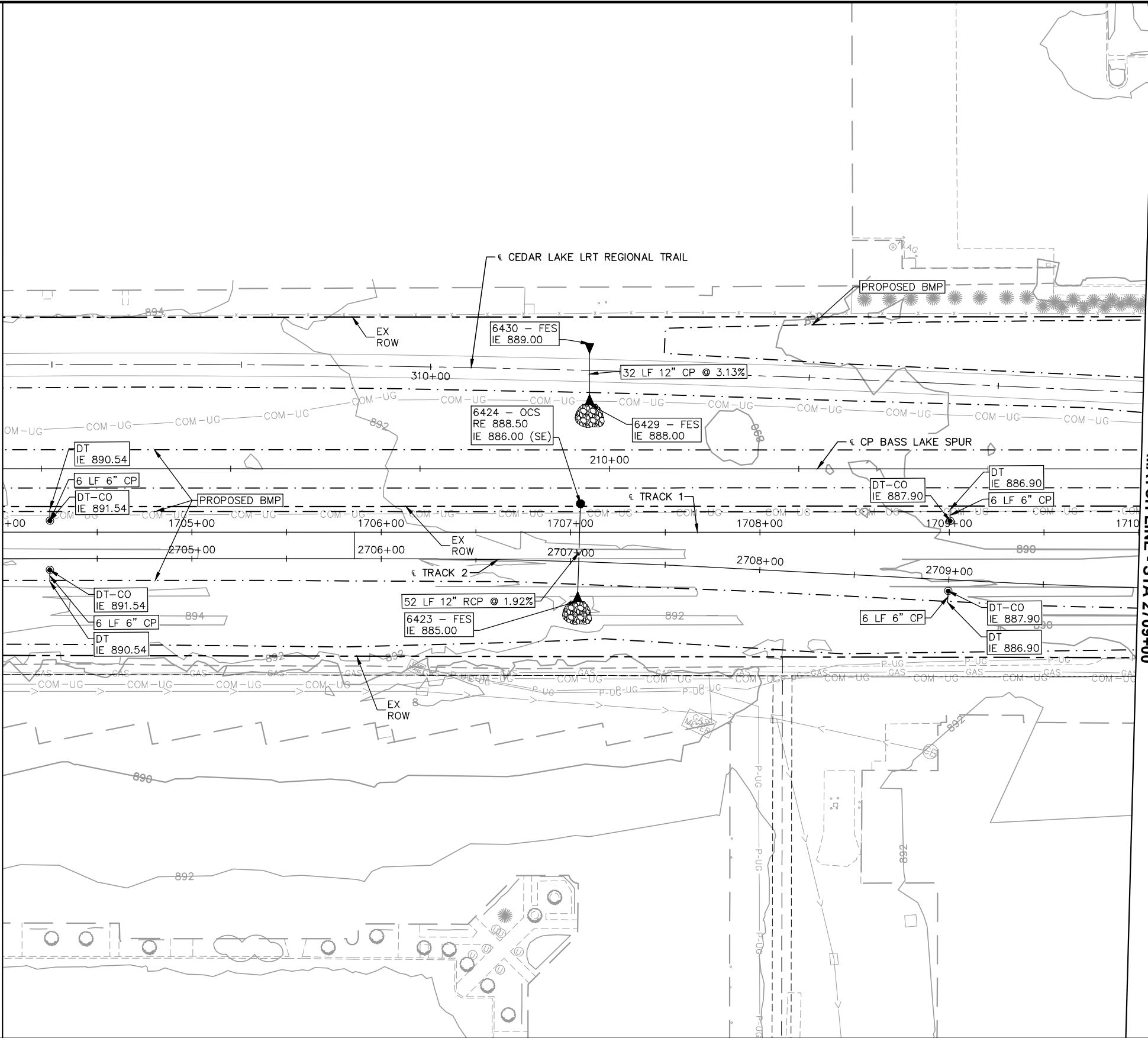
CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2699+00 TO STA 2704+00

DISCIPLINE: DRAINAGE  
SHEET NAME: E2-STM-PLN - 018

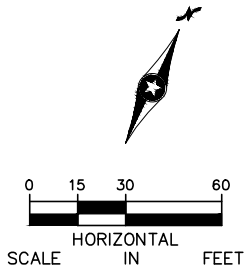
SHEET 47 OF 95

Sep. 21 2015 04:21 pm V:\3400\_ADC\CAD\SEGMENT E2\PLAN SHEETS\STORM SEWER\E2-STM-PLN.dwg By: 498

MATCH LINE - STA 2704+00



MATCH LINE - STA 2709+00



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15



CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2704+00 TO STA 2709+00

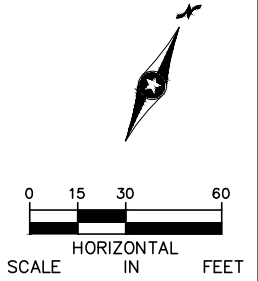
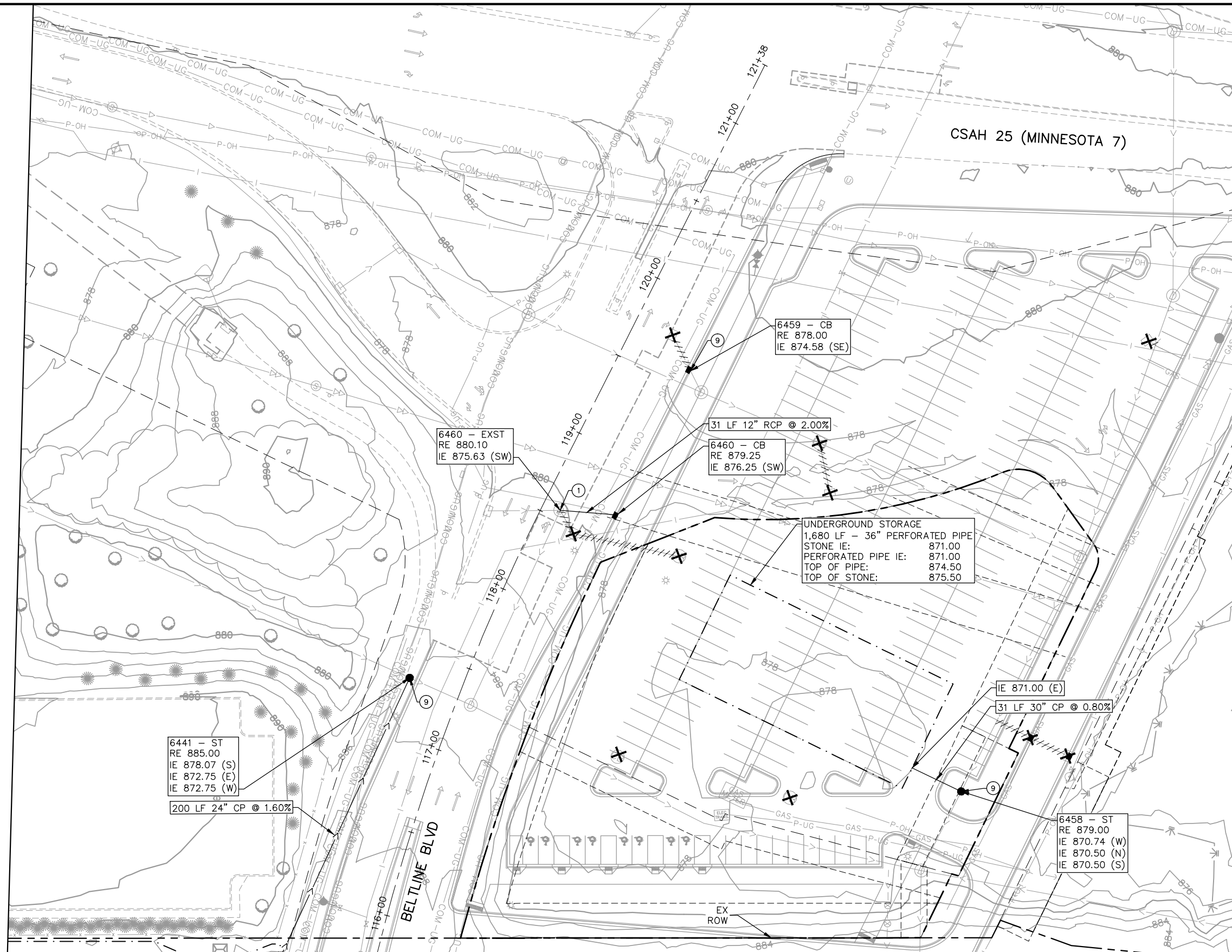
DISCIPLINE: DRAINAGE  
SHEET NAME: E2-STM-PLN - 019

SHEET  
48  
OF  
95





Sep. 21 2015 04:23 pm V:\3400\_ADC\CAD\SEGMENT E2\PLAN SHEETS\STORM SEWER\E2-STM-PLN.dwg By: 498



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |



CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
BELTLINE PARK & RIDE

DISCIPLINE:  
DRAINAGE

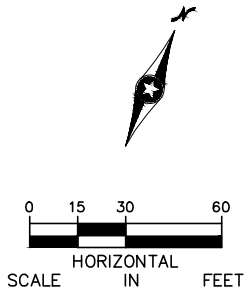
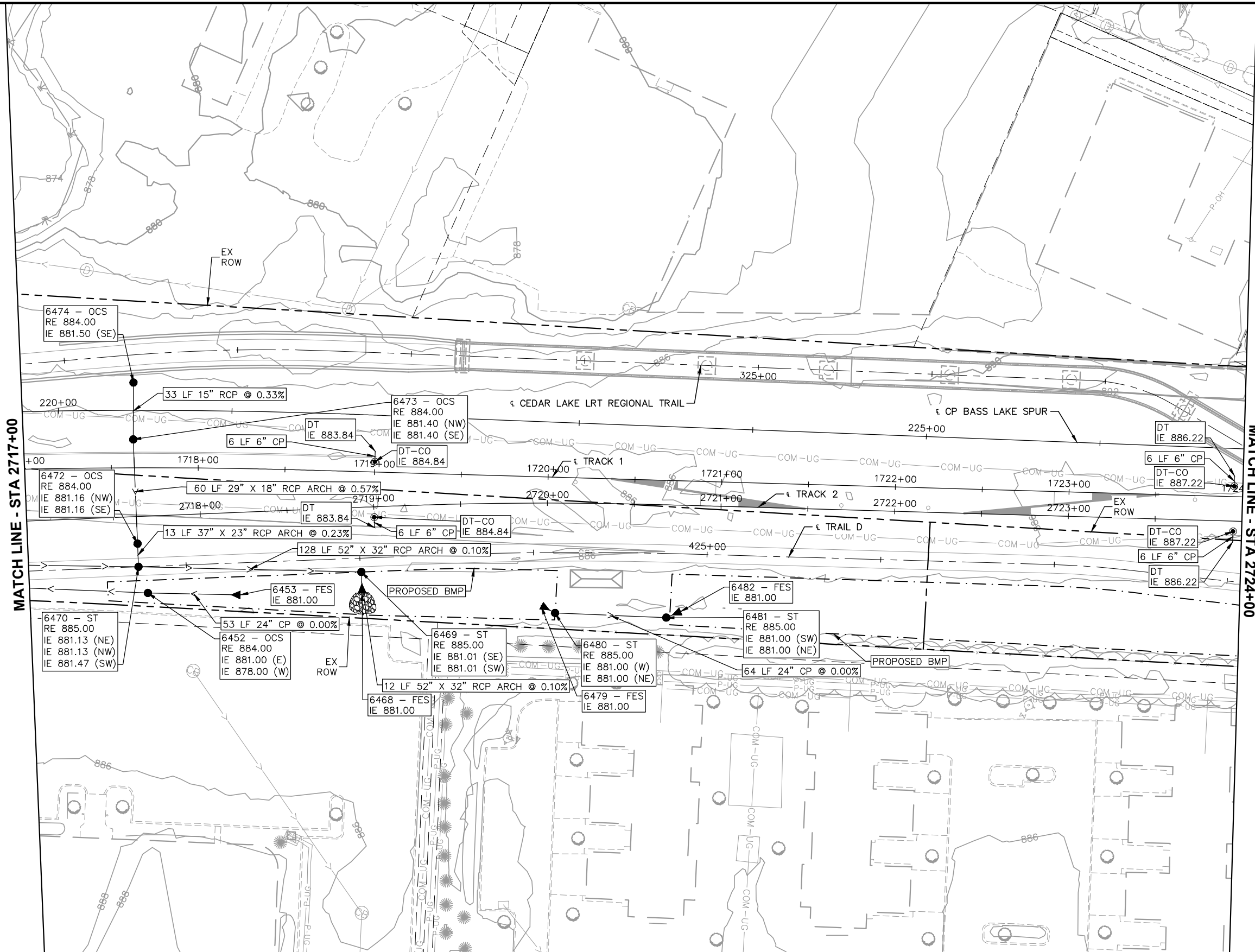
SHEET NAME:  
E2-STM-PLN - 021

SHEET  
50  
OF  
95

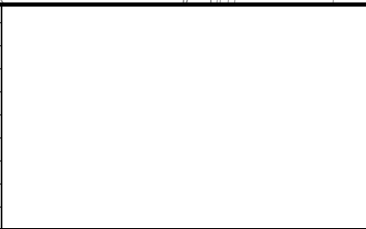
60% SUBMISSION - 09/28/15



Sep. 21 2015 04:23 pm V:\3400\_ADC\CAD\SEGMENT E2\PLAN SHEETS\STORM SEWER\E2-STM-PLN.dwg By: 498



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15

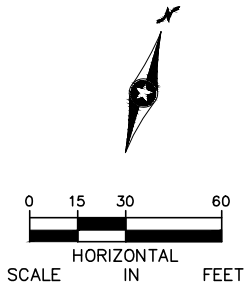


CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2717+00 TO STA 2724+00

DISCIPLINE: DRAINAGE  
SHEET NAME: E2-STM-PLN - 022



Sep. 21 2015 04:24 pm V:\3400\_ADC\CAD\SEGMENT E2\PLAN SHEETS\STORM SEWER\E2-STM-PLN.dwg By: 498



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





www.sambatek.com  
Engineering | Surveying | Planning | Environmental



METROPOLITAN  
COUNCIL



SOUTHWEST  
Green Line LRT Extension

60% SUBMISSION - 09/28/15



METROPOLITAN  
COUNCIL



SOUTHWEST  
Green Line LRT Extension

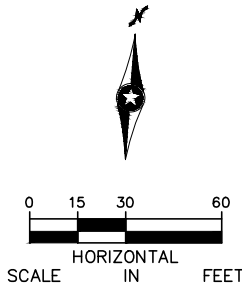
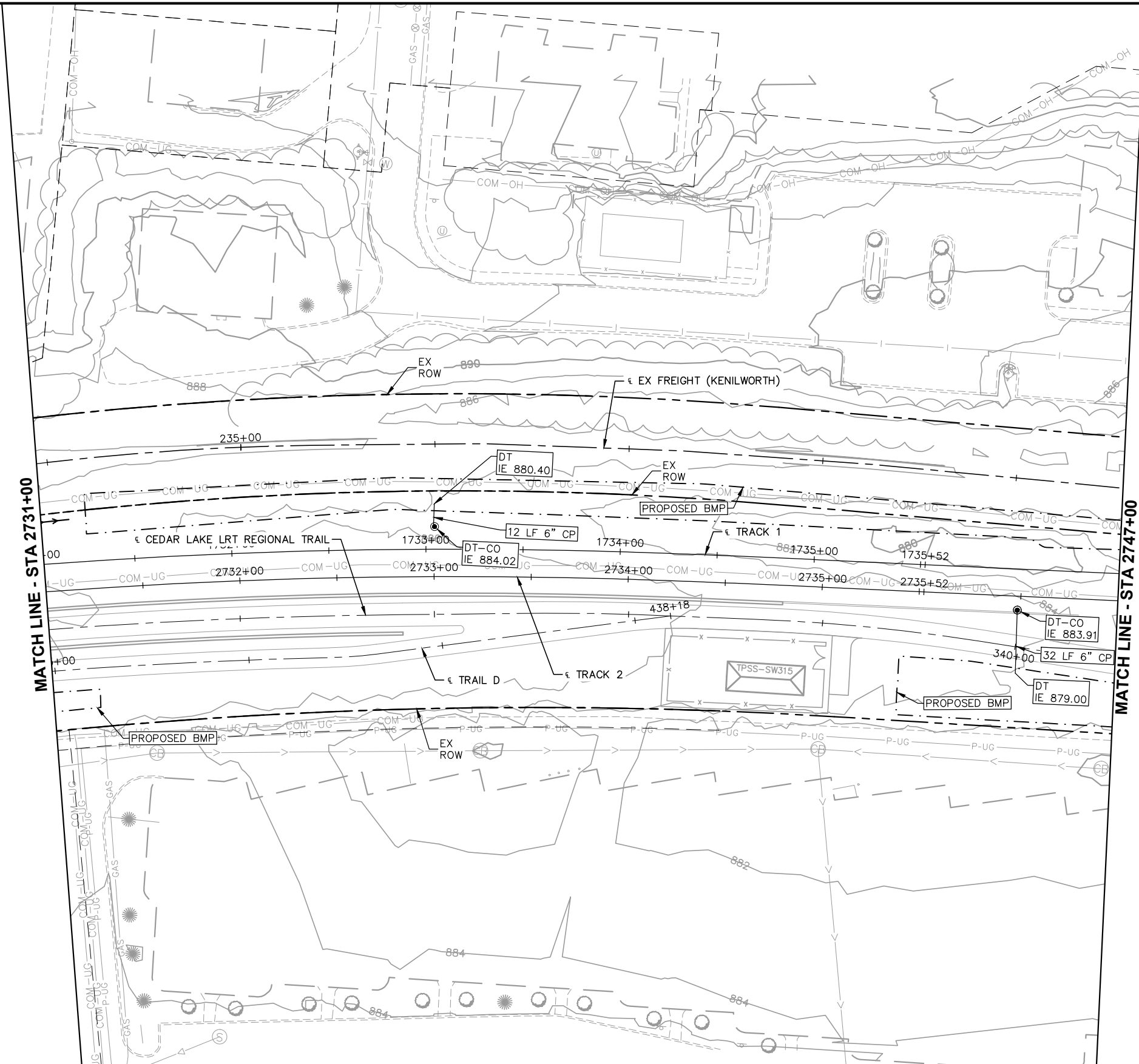
CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2724+00 TO STA 2731+00

DISCIPLINE: DRAINAGE

SHEET NAME: E2-STM-PLN - 023

SHEET  
52  
OF  
95

Sep. 21 2015 04:24 pm V:\3400\_ADC\CAD\SEGMENT E2\PLAN SHEETS\STORM SEWER\E2-STM-PLN.dwg By: 498



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15

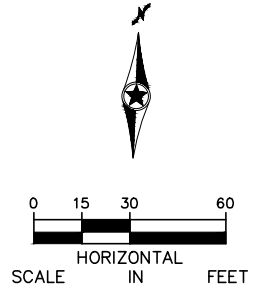
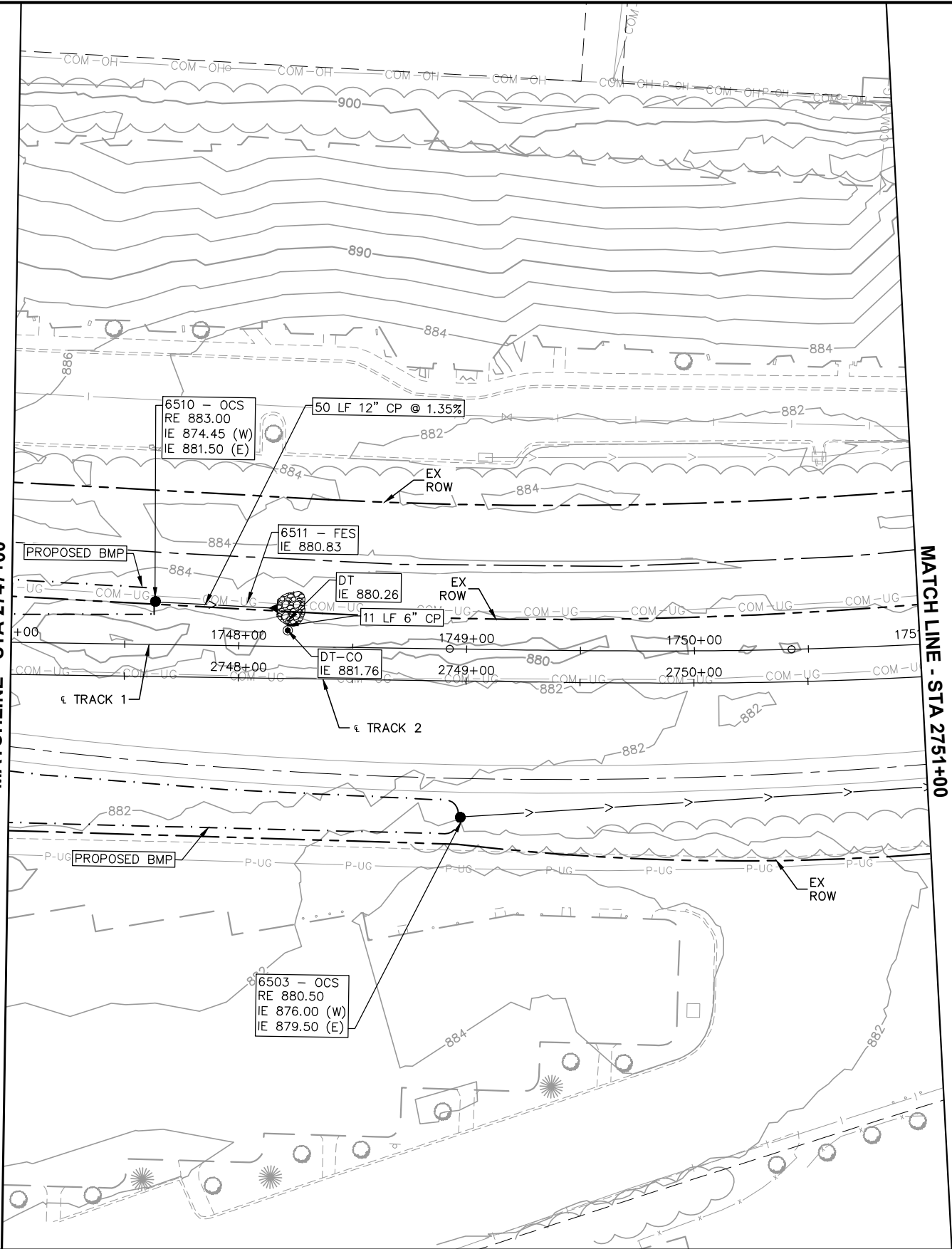


CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2731+00 TO STA 2747+00

DISCIPLINE: DRAINAGE  
SHEET NAME: E2-STM-PLN - 024

SHEET  
53  
OF  
95

Sep. 21 2015 03:47 pm v:\3400\_ADC\CAD\SEGMENT E3\PLAN SHEETS\STORM SEWER\E3-STW-PLN.dwg By: 498



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |






60% SUBMISSION - 09/28/15




CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2747+00 TO STA 2751+00

DISCIPLINE: DRAINAGE

SHEET NAME: E3-STW-PLN - 001

SHEET

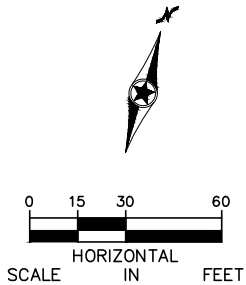
54

OF

95



Sep. 21 2015 03:47 pm v:\3400\_ADC\CAD\SEGMENT E3\PLAN SHEETS\STORM SEWER\E3-STM-PLN.dwg By: 498



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15

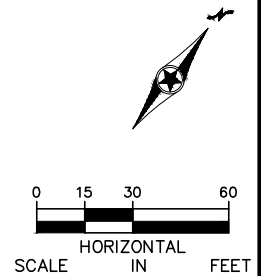
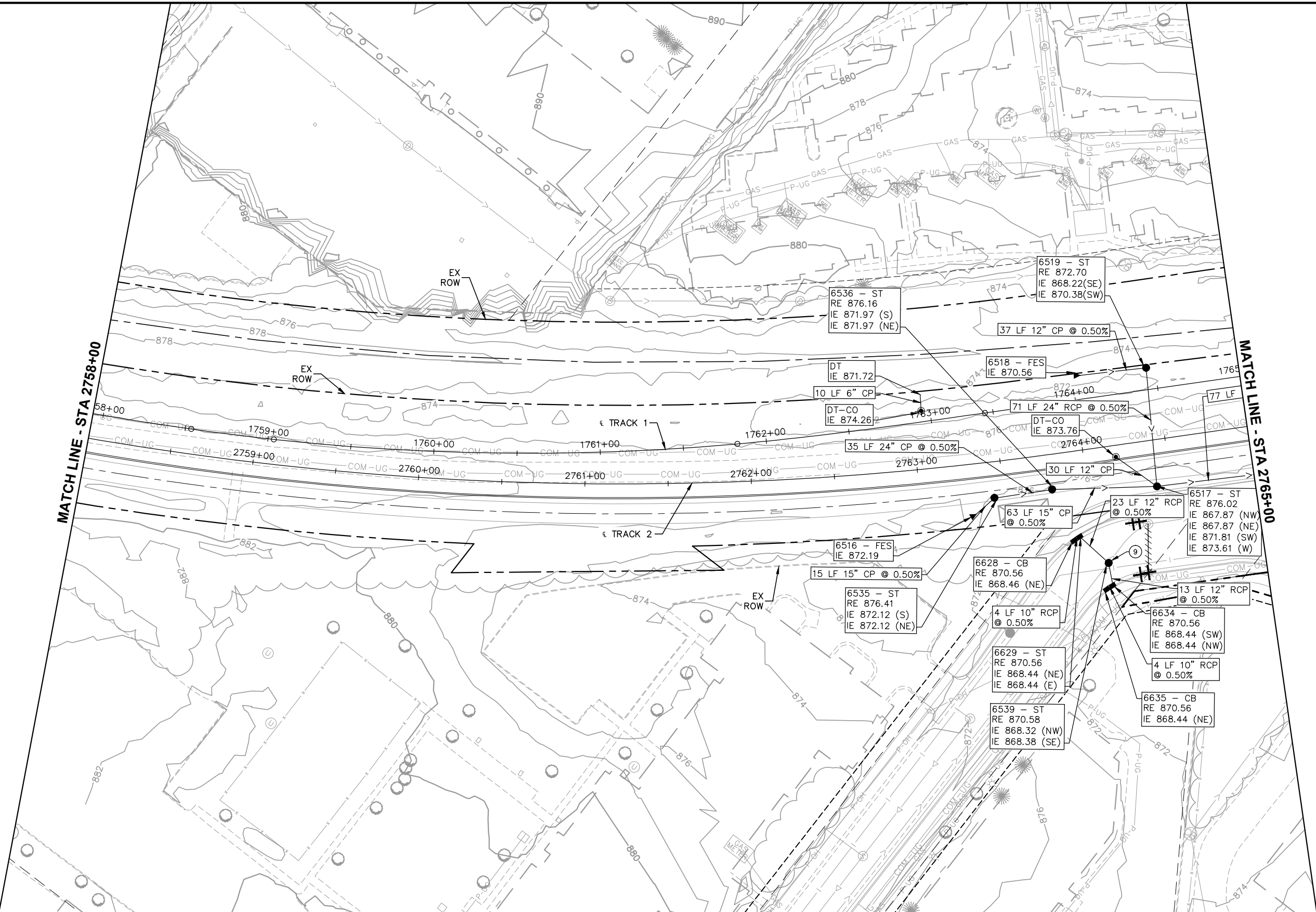


CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2751+00 TO STA 2758+00

DISCIPLINE: DRAINAGE  
SHEET NAME: E3-STM-PLN - 002

SHEET  
55  
OF  
95

Sep. 21 2015 03:48 pm V:\3400\_ADC\CAD\SEGMENT E3\PLAN SHEETS\STORM SEWER\E3-STM-PLN.dwg By: 498



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |



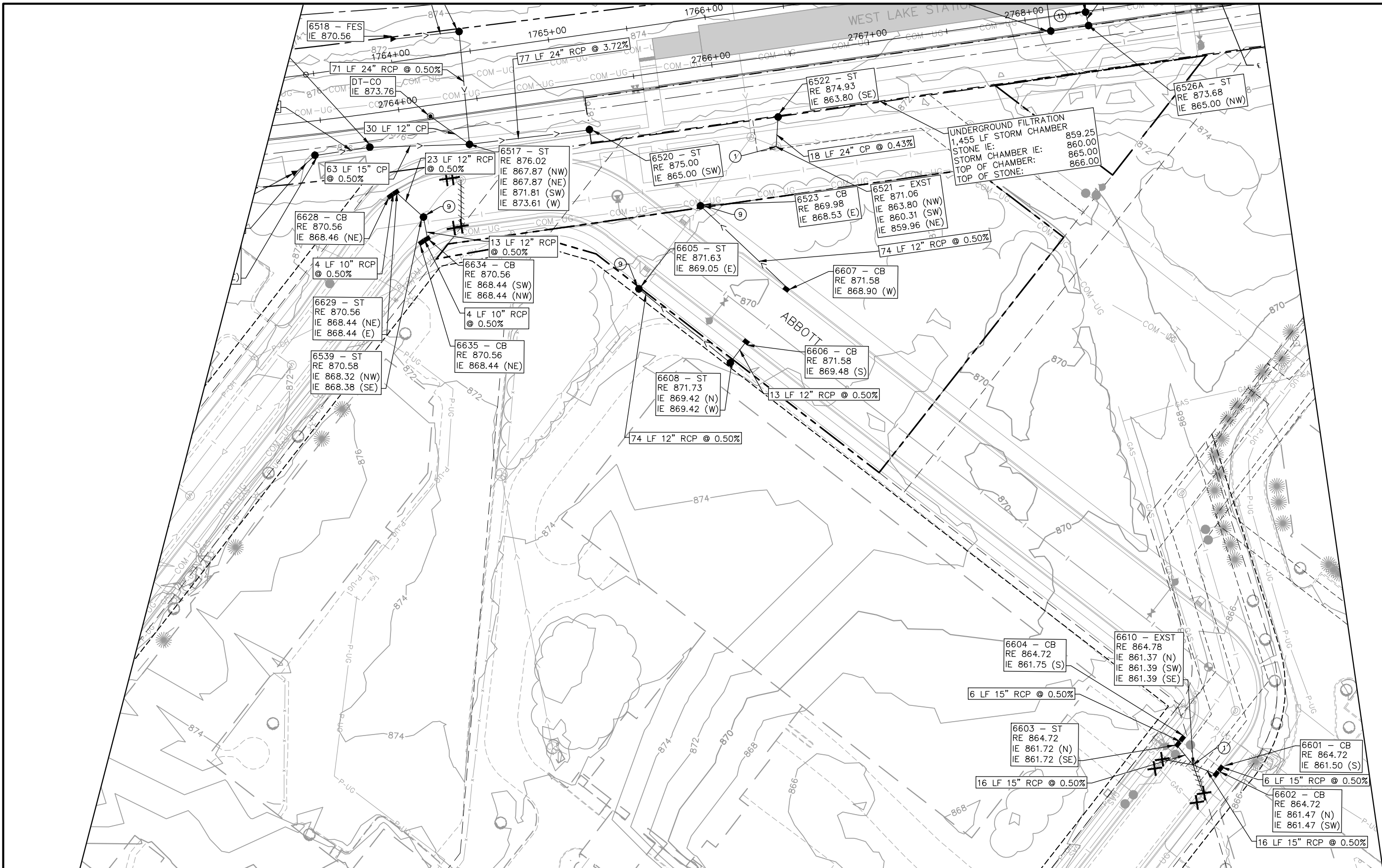
60% SUBMISSION - 09/28/15

CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2758+00 TO STA 2765+00

DISCIPLINE: DRAINAGE

SHEET NAME: E3-STM-PLN - 003





|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

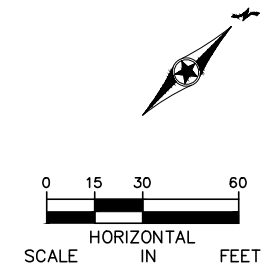
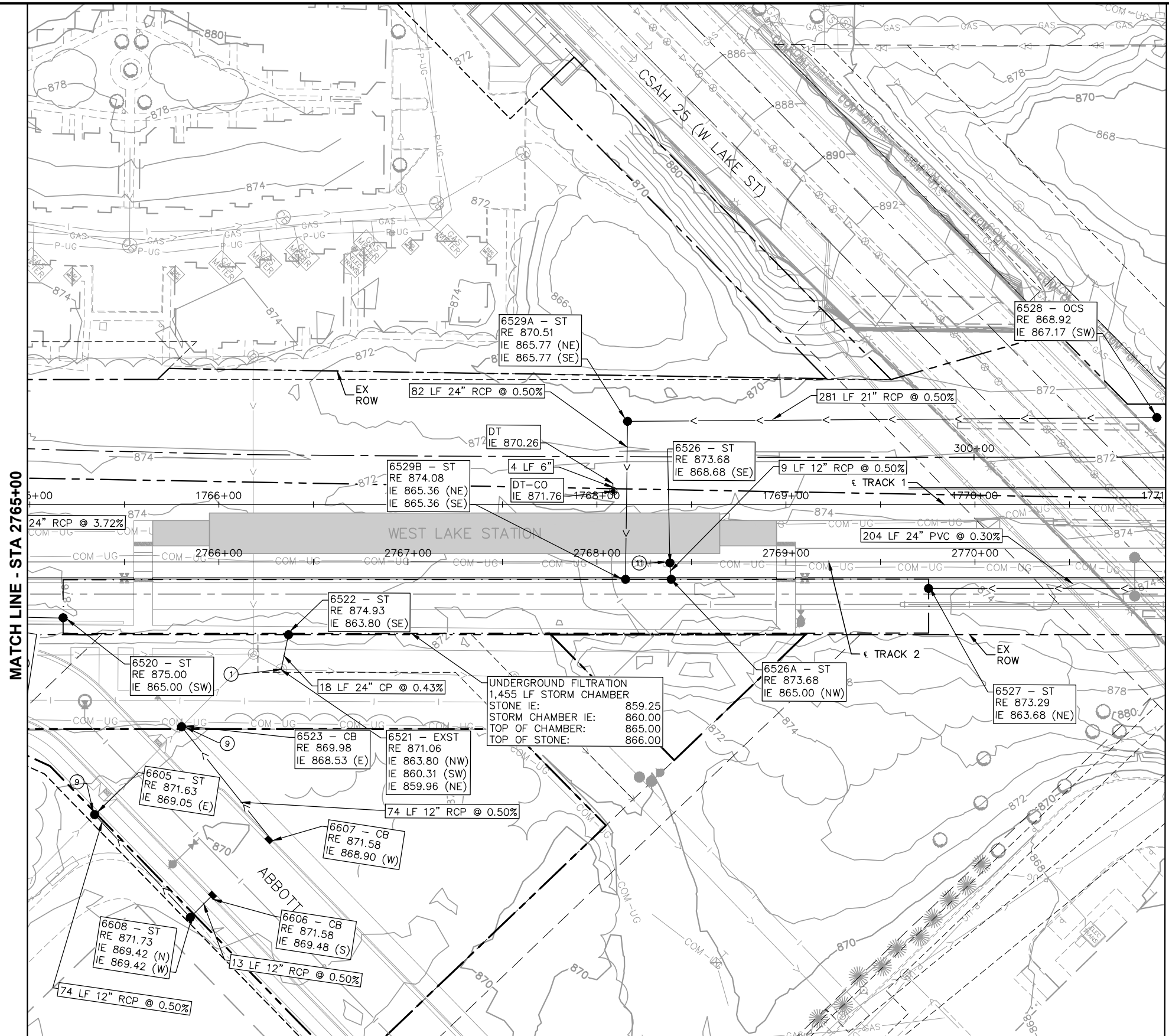


The Metropolitan Council logo features a stylized triangle with a diagonal line through it, above the text "METROPOLITAN COUNCIL". To the right is the Southwest Green Line LRT Extension logo, which includes a stylized train icon and the text "SOUTHWEST Green Line LRT Extension".

**SHEET**  
**57**  
**OF**  
**95**



Sep. 21 2015 03:49 pm V:\3400\_ADC\CAD\SEGMENT E3\PLAN SHEETS\STORM SEWER\E3-STM-PLN.dwg By: 498



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |



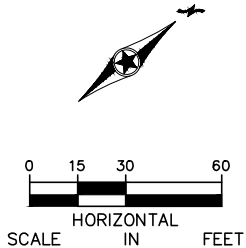
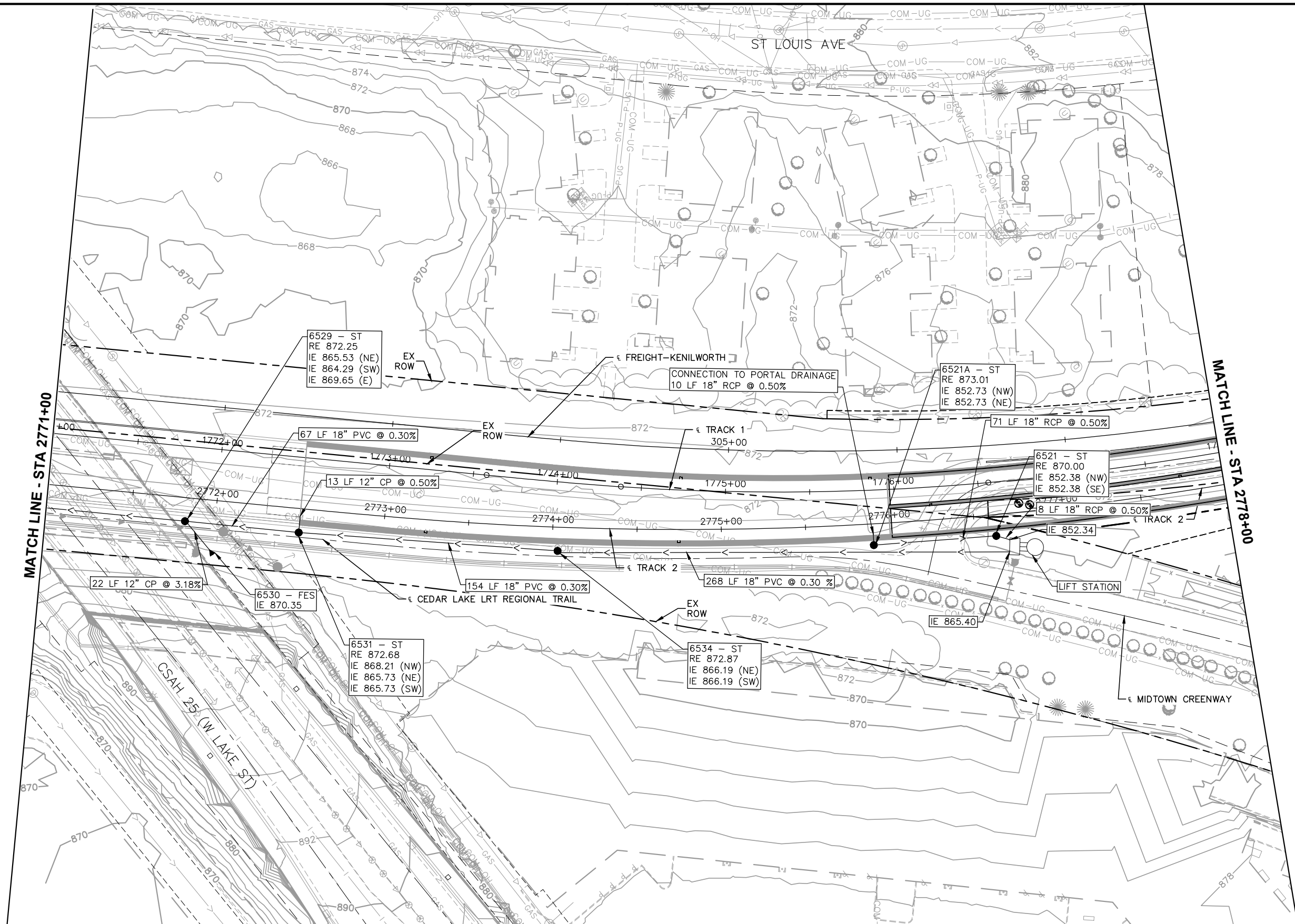
www.sambatek.com

60% SUBMISSION - 09/28/15

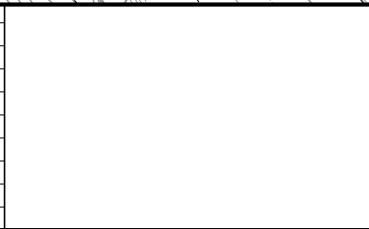
|                                                                         |                                 |
|-------------------------------------------------------------------------|---------------------------------|
| CIVIL EAST - VOLUME 8<br>DRAINAGE<br>PLAN<br>STA 2765+00 TO STA 2771+00 |                                 |
| DISCIPLINE:<br>DRAINAGE                                                 | SHEET NAME:<br>E3-STM-PLN - 005 |

SHEET  
58  
OF  
95

Sep. 21 2015 03:50 pm v:\3400\_ADC\CAD\SEGMENT E3\PLAN SHEETS\STORM SEWER\E3-STW-PLN.dwg By: 498



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15



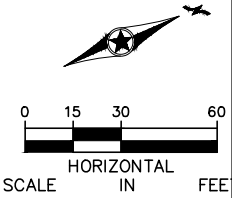
CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2771+00 TO STA 2778+00

DISCIPLINE: DRAINAGE  
SHEET NAME: E3-STW-PLN - 006

SHEET  
59  
OF  
95



Sep. 21 2015 03:51 pm V:\3400\_ADC\CAD\SEGMENT E3\PLAN SHEETS\STORM SEWER\E3-STM-PLN.dwg By: 498



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15



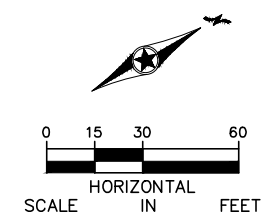
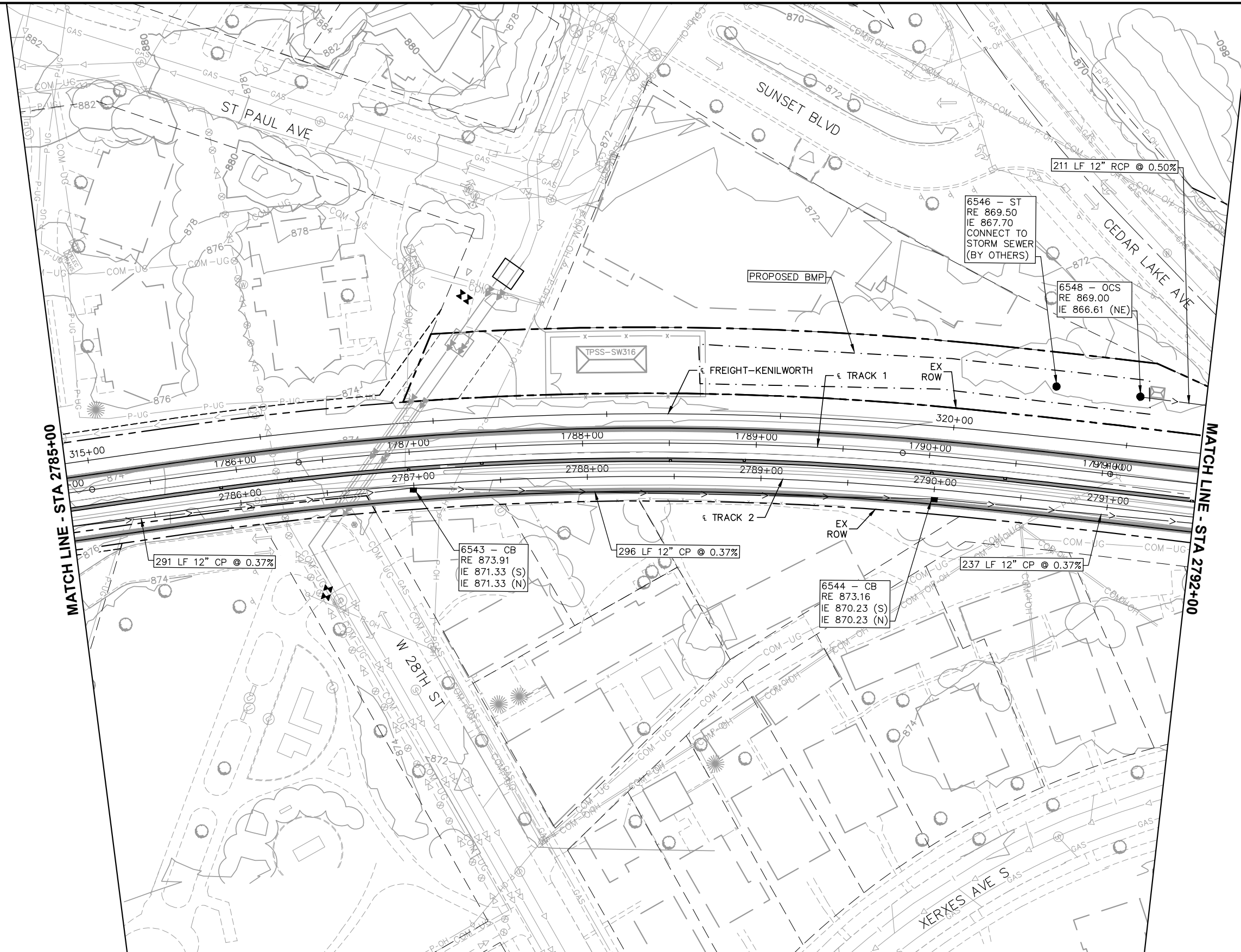
CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2778+00 TO STA 2785+00

|                         |                                 |
|-------------------------|---------------------------------|
| DISCIPLINE:<br>DRAINAGE | SHEET NAME:<br>E3-STM-PLN - 007 |
|-------------------------|---------------------------------|

SHEET  
60  
OF  
95



Sep. 21 2015 03:51 pm V:\3400\_ADC\CAD\SEGMENT E3\PLAN SHEETS\STORM SEWER\E3-STM-PLN.dwg By: 498



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





Engineering | Surveying | Planning | Environmental



Metropolitan Council

60% SUBMISSION - 09/28/15



SOUTHWEST Green Line LRT Extension

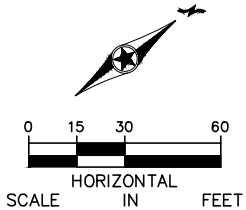
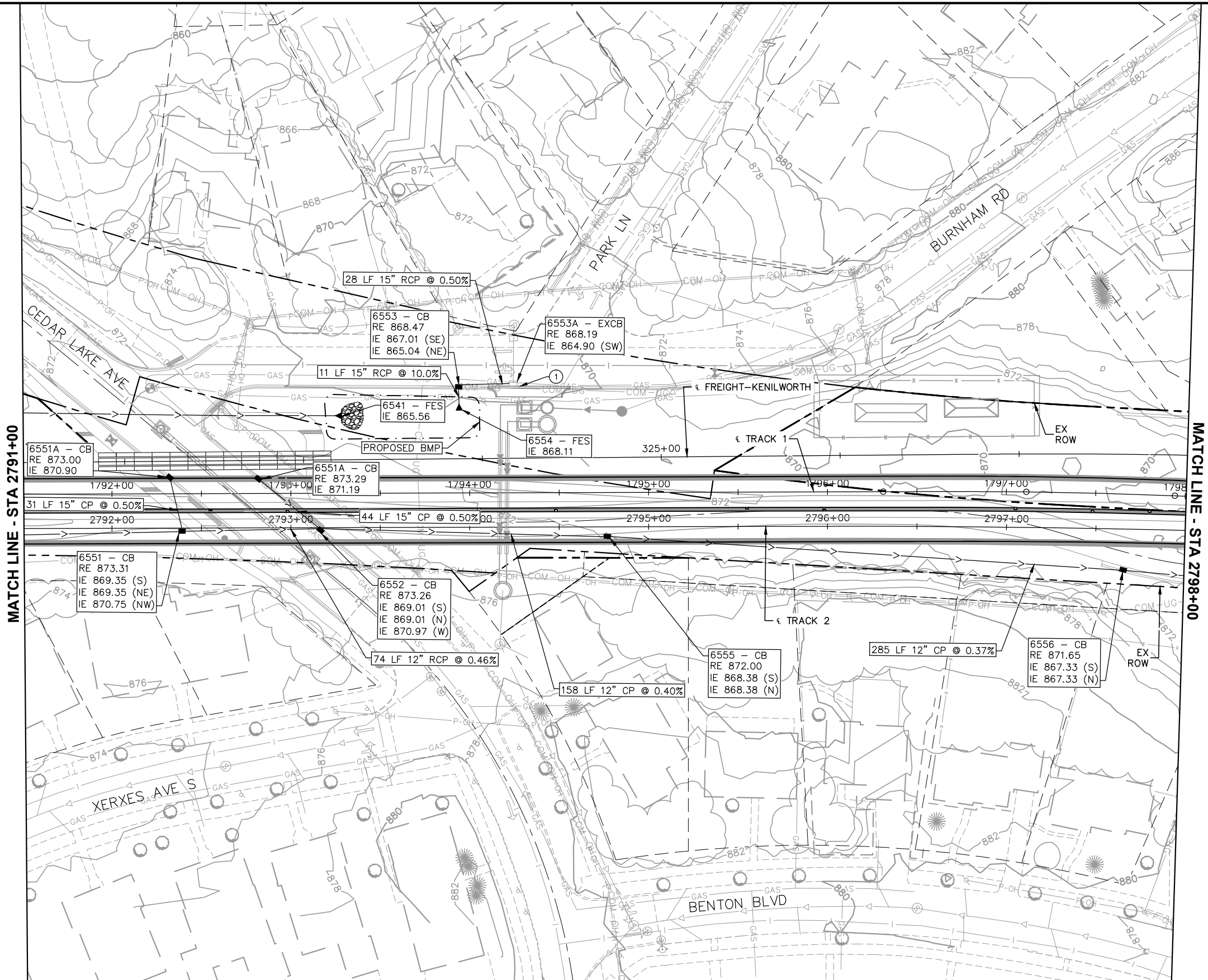
CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2785+00 TO STA 2792+00

DISCIPLINE: DRAINAGE

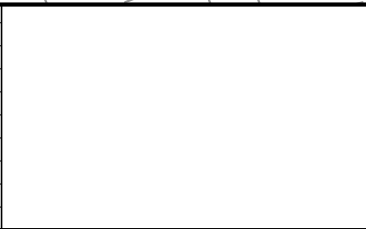
SHEET NAME: E3-STM-PLN - 008

SHEET  
61  
OF  
95

Sep. 21 2015 03:52 pm V:\3400\_ADC\CAD\SEGMENT E3\PLAN SHEETS\STORM SEWER\E3-STW-PLN.dwg By: 498



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15



**CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2791+00 TO STA 2798+00**

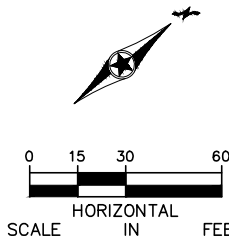
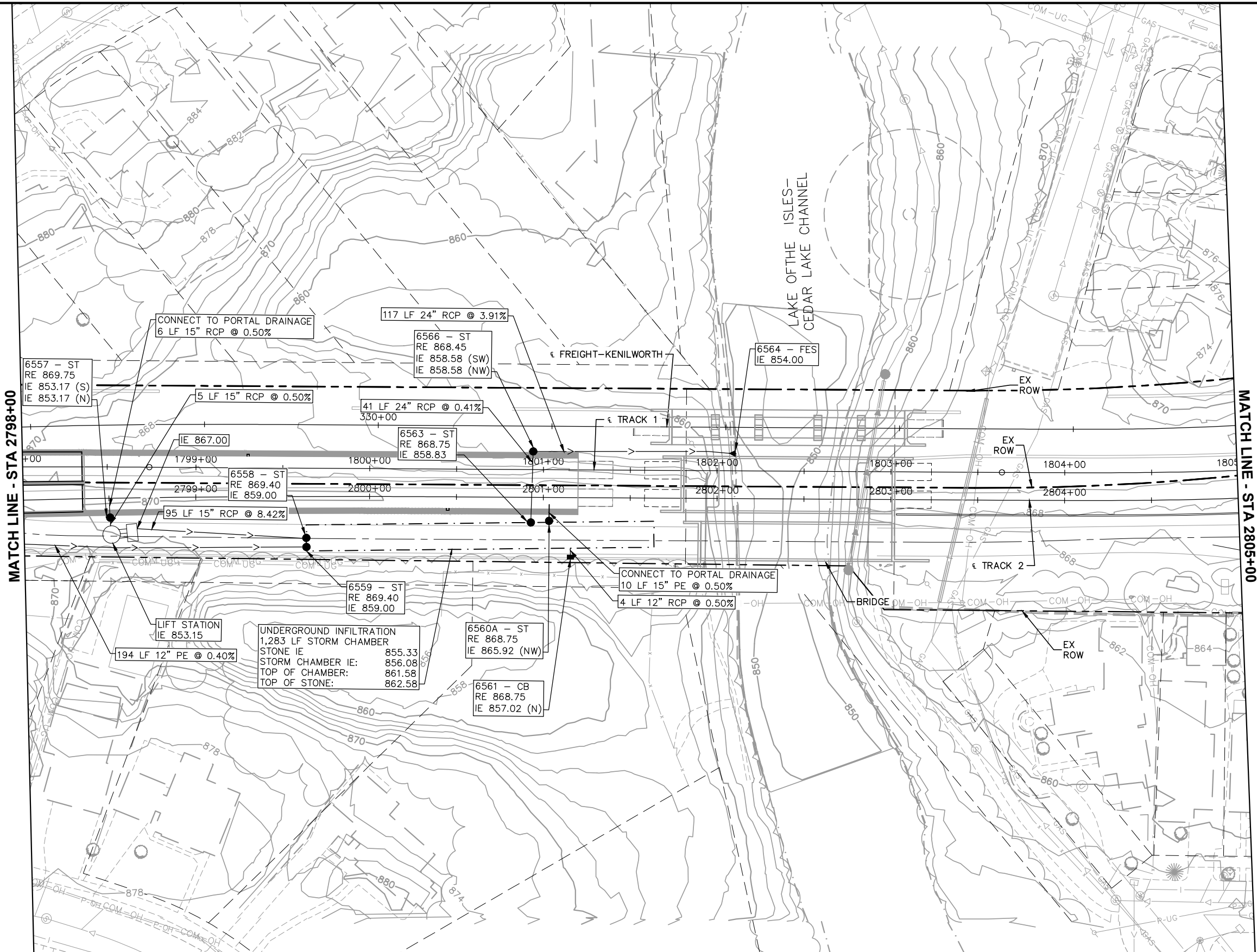
DISCIPLINE: **DRAINAGE**

SHEET NAME: **E3-STW-PLN - 009**

**SHEET**  
62  
OF  
95



Sep. 21 2015 03:52 pm v:\3400\_ADC\CAD\SEGMENT E3\PLAN SHEETS\STORM SEWER\E3-STM-PLN.dwg By: 498



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





Engineering | Surveying | Planning | Environmental



METROPOLITAN COUNCIL



SOUTHWEST Green Line LRT Extension

60% SUBMISSION - 09/28/15

CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2798+00 TO STA 2805+00

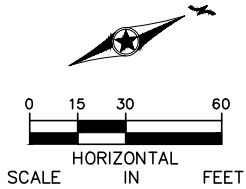
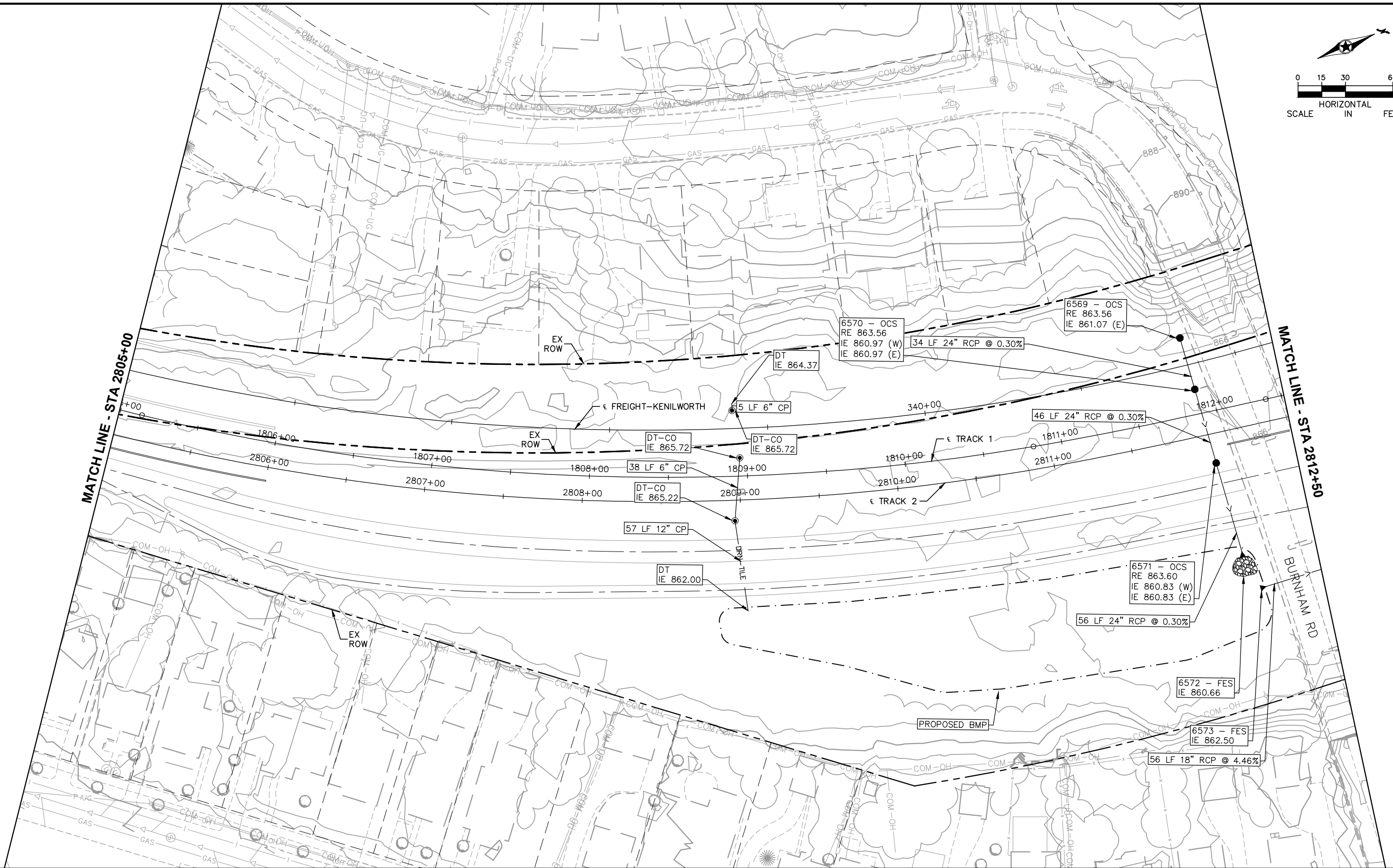
DISCIPLINE: DRAINAGE

SHEET NAME: E3-STM-PLN - 010

| SHEET |    |
|-------|----|
| 63    | OF |
| 95    |    |



Sep. 21 2015 03:53 pm V:\3400\_ADC\CAD\SEGMENT E3\PLAN SHEETS\STORM SEWER\E3-STW-PLN.dwg By: 498



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |



**CIVIL EAST - VOLUME 8**  
**DRAINAGE**  
**PLAN**  
**STA 2805+00 TO STA 2812+50**

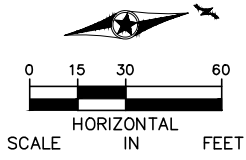
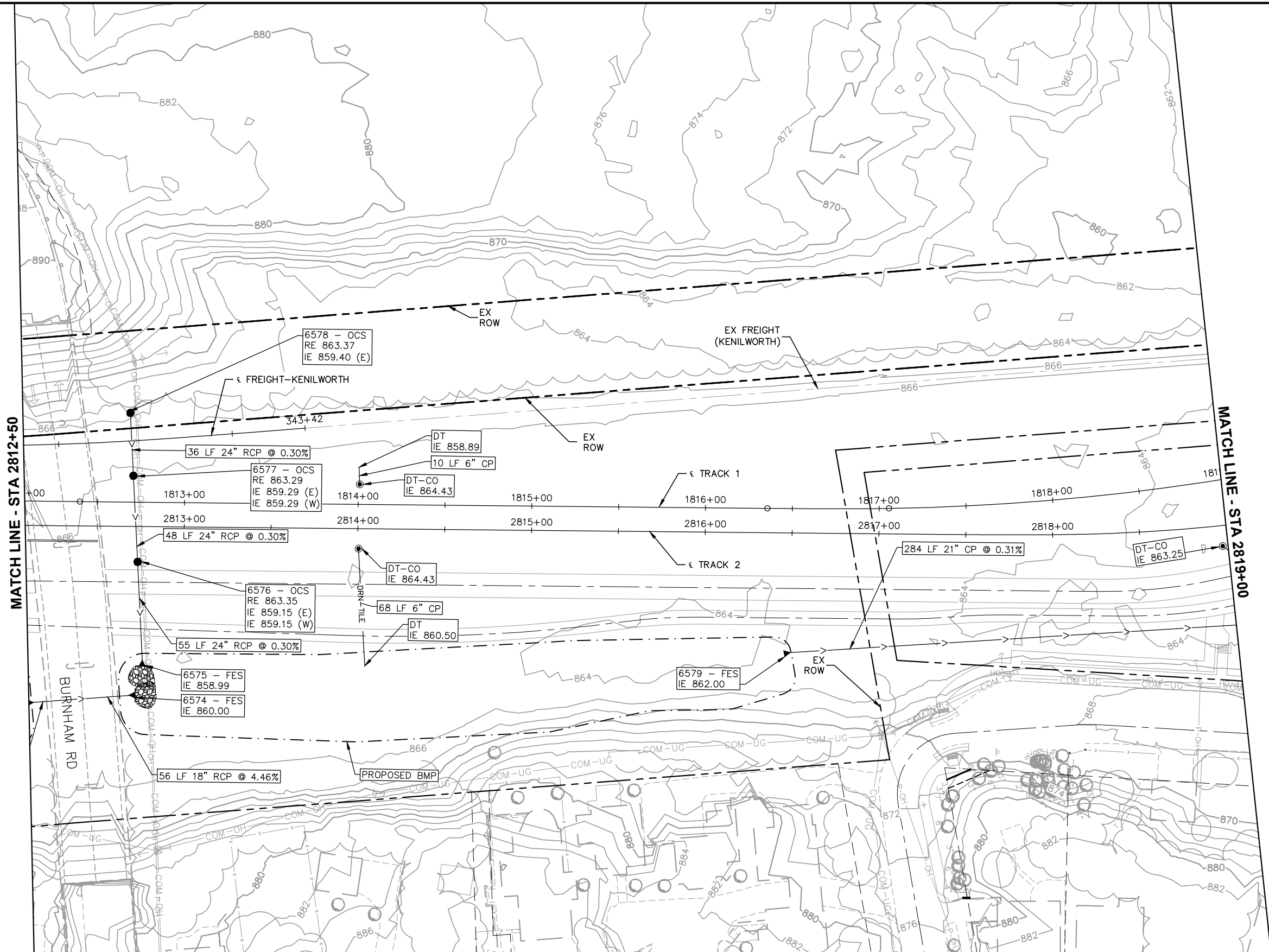
DISCIPLINE:  
**DRAINAGE**

SHEET NAME:  
**E3-STW-PLN - 011**

**SHEET**  
**64**  
**OF**  
**95**

**60% SUBMISSION - 09/28/15**

Sep. 21 2015 03:54 pm V:\3400\_ADC\CAD\SEGMENT E3\PLAN SHEETS\STORM SEWER\E3-STM-PLN.dwg By: 498



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15



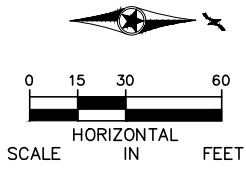
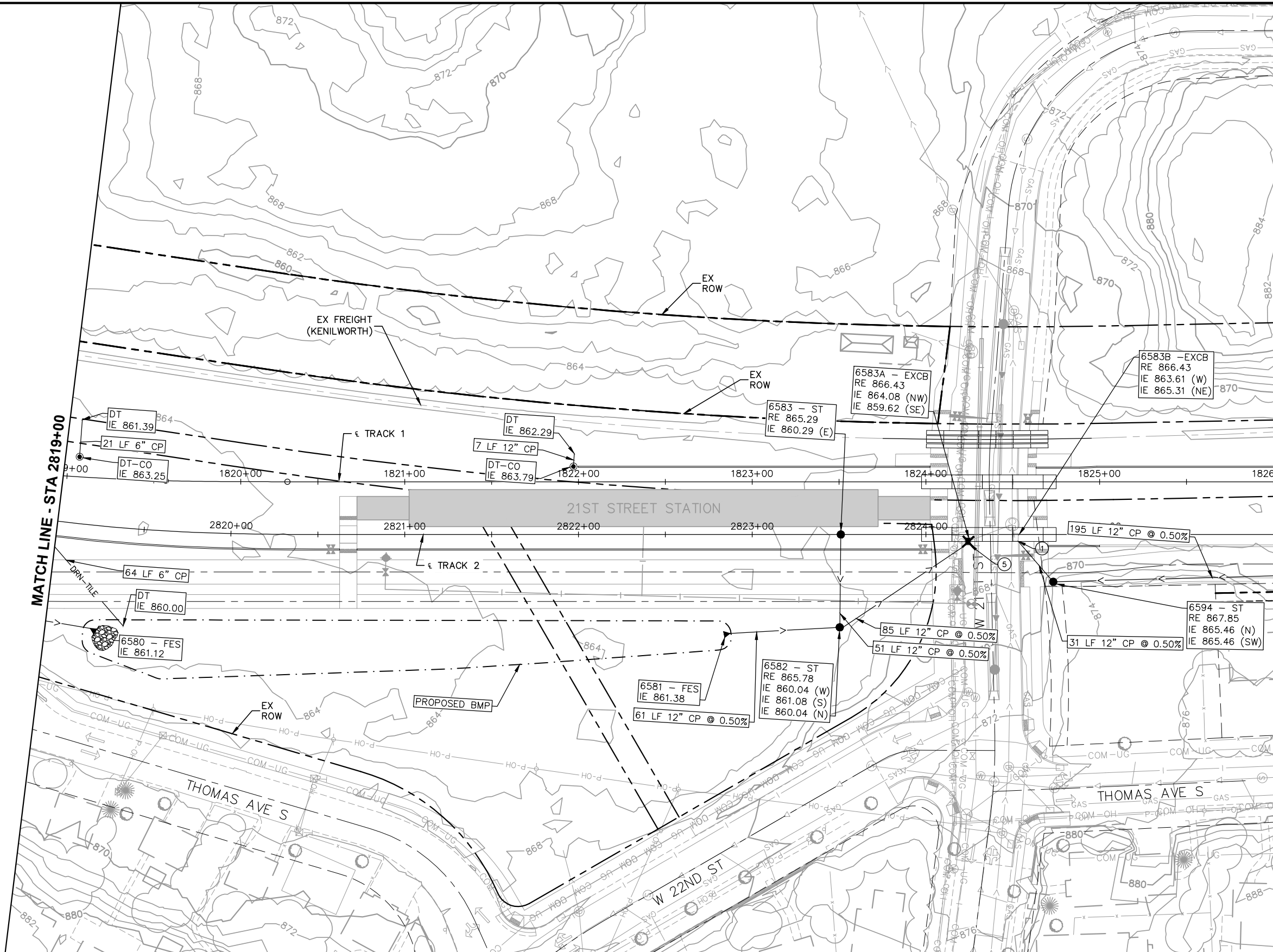
CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2812+50 TO STA 2819+00

DISCIPLINE: DRAINAGE  
SHEET NAME: E3-STM-PLN - 012

SHEET  
65  
OF  
95



Sep. 21 2015 03:54 pm V:\3400\_ADC\CAD\SEGMENT E3\PLAN SHEETS\STORM SEWER\E3-STM-PLN.dwg By: 498



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |



**AECOM**

**Sambatek**  
www.sambatek.com  
Engineering | Surveying | Planning | Environmental

**60% SUBMISSION - 09/28/15**

**METROPOLITAN**  
C O U N C I L

**SOUTHWEST**  
Green Line LRT Extension

**CIVIL EAST - VOLUME 8**

**DRAINAGE PLAN**

**STA 2819+00 TO STA 2826+00**

DISCIPLINE: **DRAINAGE**

SHEET NAME: **E3-STM-PLN - 013**

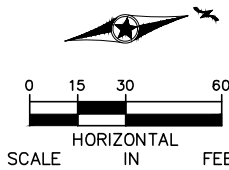
**SHEET**

66

OF

95

Sep. 21 2015 03:55 pm V:\3400\_ADC\CAD\SEGMENT E3\PLAN SHEETS\STORM SEWER\E3-STM-PLN.dwg By: 498



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |



60% SUBMISSION - 09/28/15



CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2826+00 TO STA 2833+00

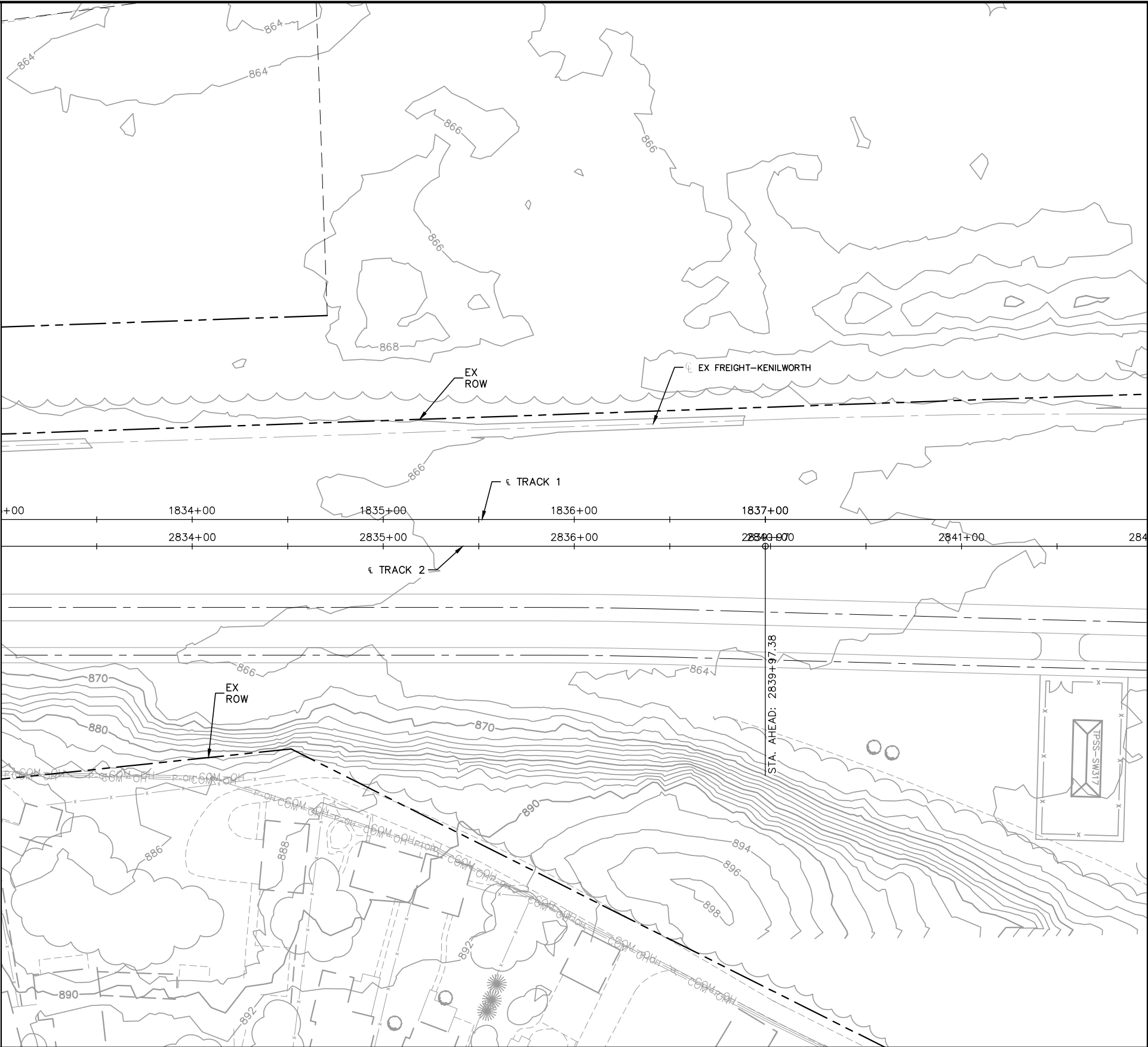
DISCIPLINE: DRAINAGE  
SHEET NAME: E3-STM-PLN - 014

SHEET  
67  
OF  
95

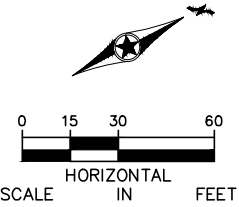


Sep. 21 2015 03:56 pm V:\3400\_ADC\CAD\SEGMENT E3\PLAN SHEETS\STORM SEWER\E3-STM-PLN.dwg By: 498

MATCH LINE - STA 2833+00



END EAST SEGMENT 3 - STA 2842+00  
BEGIN EAST SEGMENT 4 - STA 2842+00



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





www.sambatek.com  
Engineering | Surveying | Planning | Environmental



METROPOLITAN  
COUNCIL

60% SUBMISSION - 09/28/15



SOUTHWEST  
Green Line LRT Extension



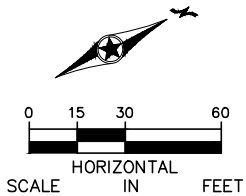
CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2833+00 TO STA 2842+00

DISCIPLINE: DRAINAGE

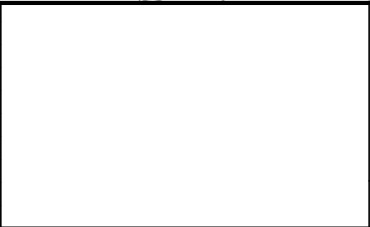
SHEET NAME: E3-STM-PLN - 015

SHEET  
68  
OF  
95

Sep. 21 2015 04:09 pm V:\3400\_ADC\CAD\segment e4\plan sheets\storm sewer\E4--STM--PLN.dwg By: 554



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15



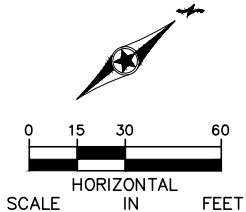
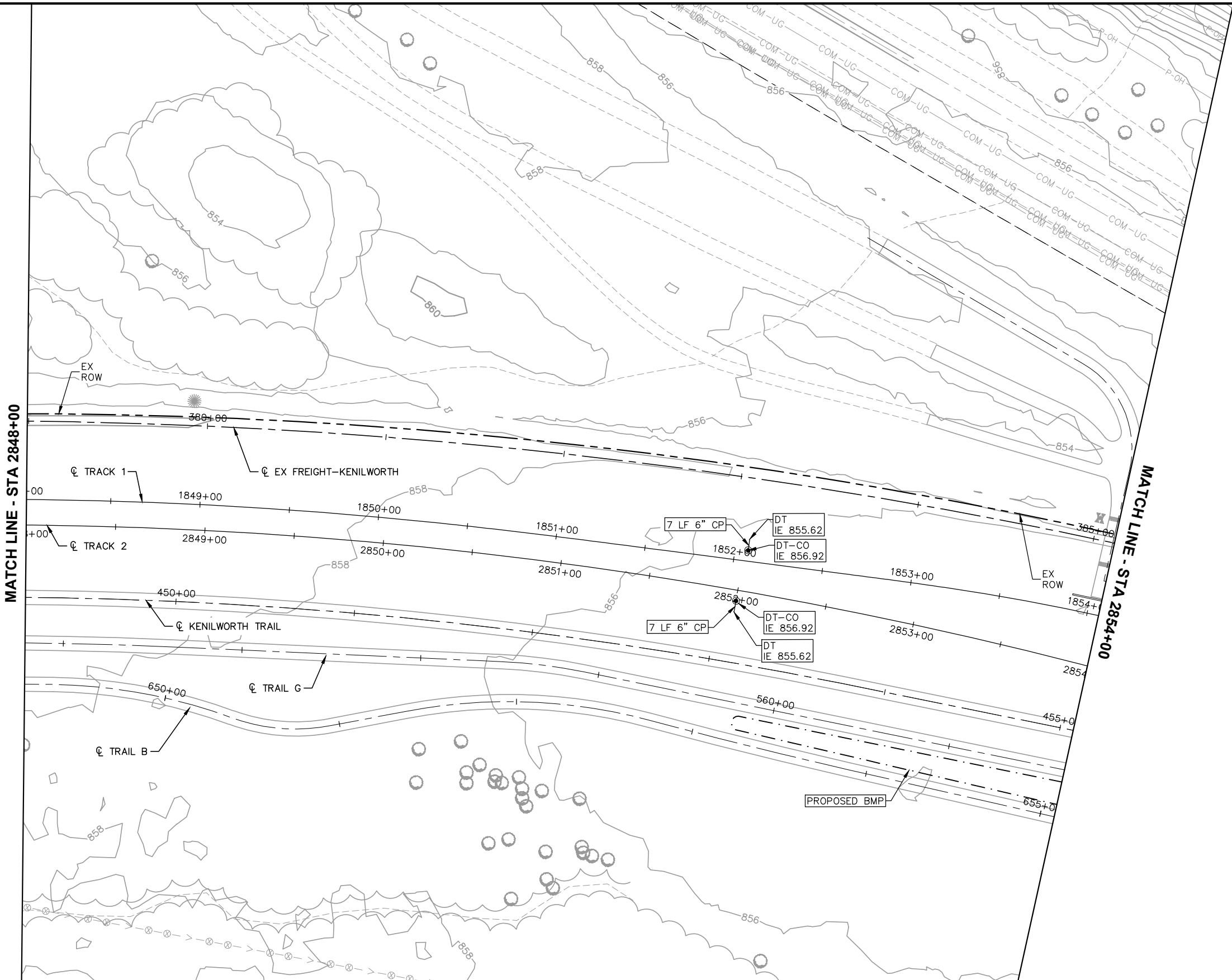
CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2842+00 TO STA 2848+00

|                         |                                 |
|-------------------------|---------------------------------|
| DISCIPLINE:<br>DRAINAGE | SHEET NAME:<br>E4-STM-PLN - 001 |
|-------------------------|---------------------------------|

SHEET  
69  
OF  
95



Sep. 21 2015 04:11 pm V:\3400\_ADC\CAD\segment ex\plan sheets\storm sewer\E4--STM--PLN.dwg By: 554



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15



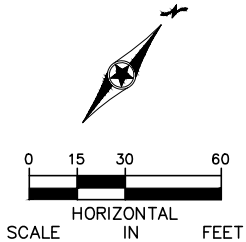
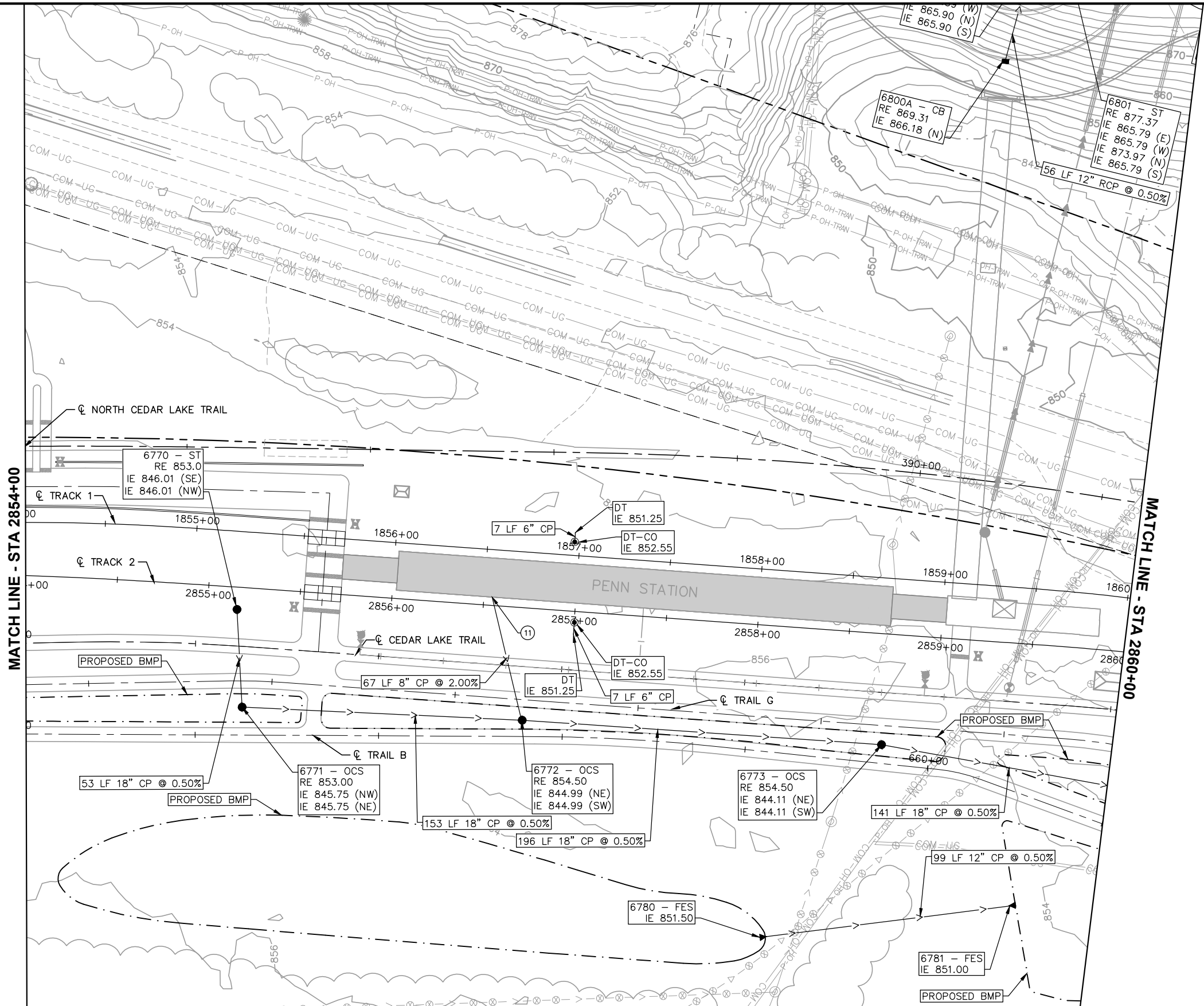
CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2848+00 TO STA 2854+00

DISCIPLINE: DRAINAGE

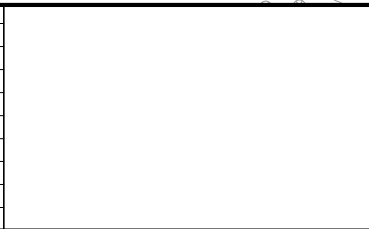
SHEET NAME: E4-STM-PLN - 002

SHEET  
70  
OF  
95

Sep. 21 2015 04:12 pm V:\3400\_ADC\CAD\segment e4\plan sheets\storm sewer\E4--STM--PLN.dwg By: 554



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





www.sambatek.com  
Engineering | Surveying | Planning | Environmental



METROPOLITAN  
COUNCIL

60% SUBMISSION - 09/28/15



SOUTHWEST  
Green Line LRT Extension



CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2854+00 TO STA 2860+00

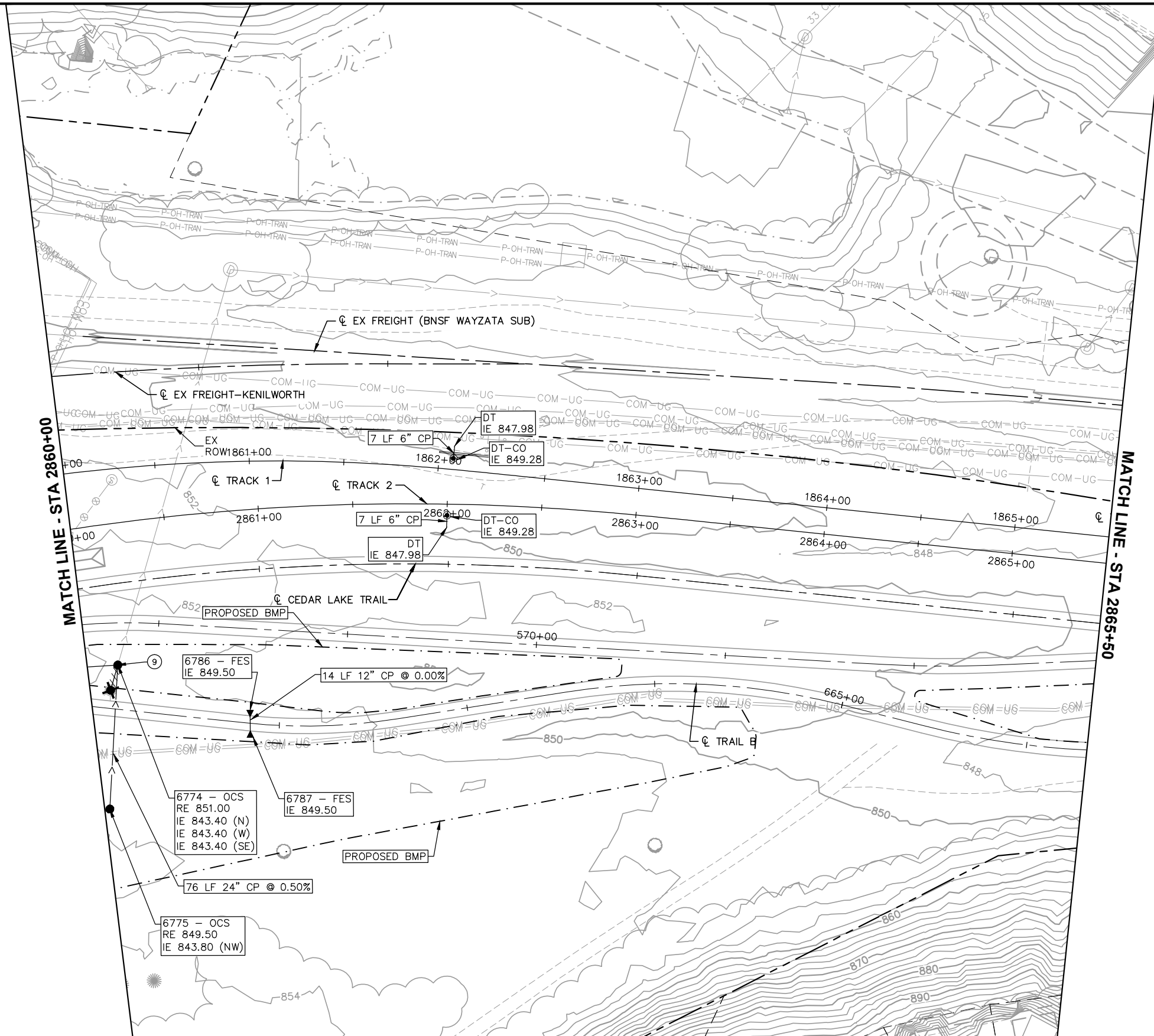
DISCIPLINE: DRAINAGE

SHEET NAME: E4-STM-PLN - 003

SHEET  
71  
OF  
95



Sep. 21 2015 04:13 pm V:\3400\_ADC\CAD\segment e4\plan sheets\storm sewer\E4-STM-PLN.dwg By: 554



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |

|  |
|--|
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |



60% SUBMISSION - 09/28/15

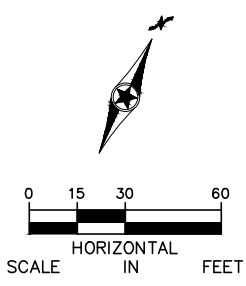
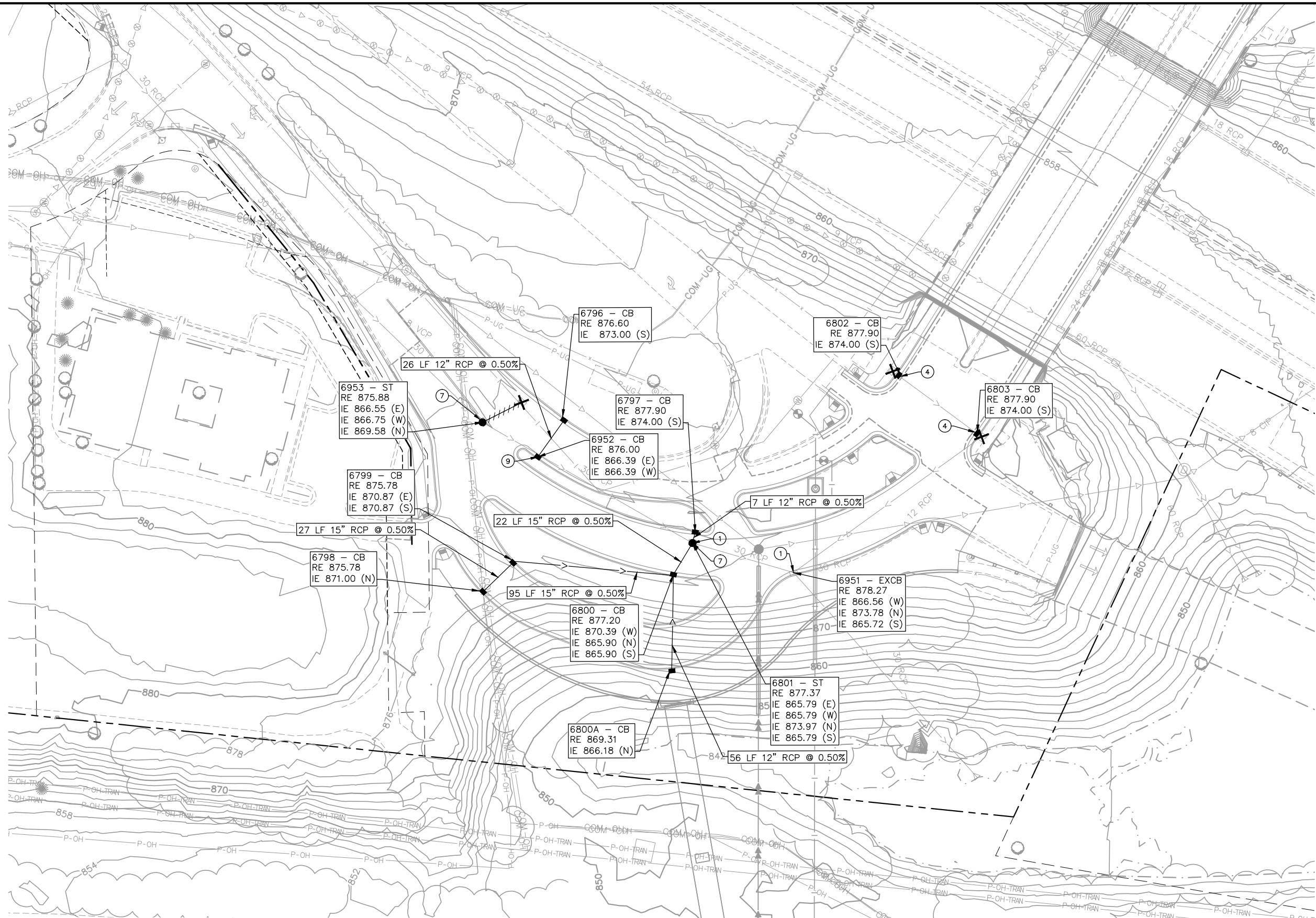


CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2860+00 TO STA 2865+50

DISCIPLINE: DRAINAGE  
SHEET NAME: E4-STM-PLN - 004

SHEET  
72  
OF  
95

Sep. 21 2015 04:15 pm V:\3400\_ADC\CAD\segment e4\plan sheets\storm sewer\E4-STM-PLN.dwg By: 554



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15



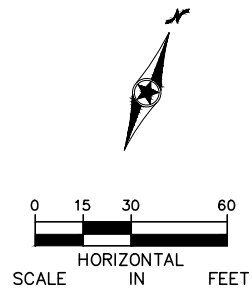
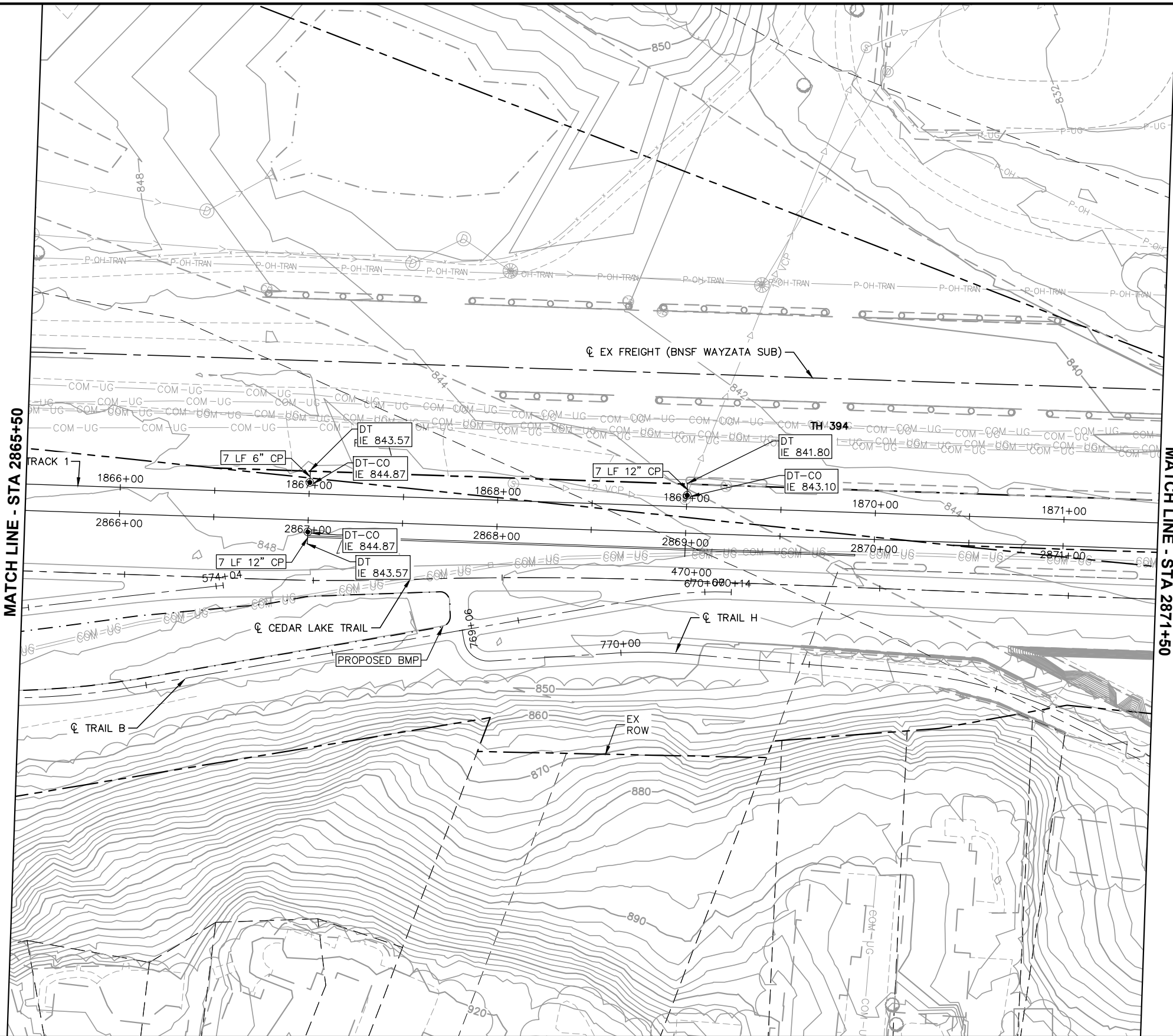
CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
PENN DROP-OFF

DISCIPLINE: DRAINAGE  
SHEET NAME: E4-STM-PLN - 005

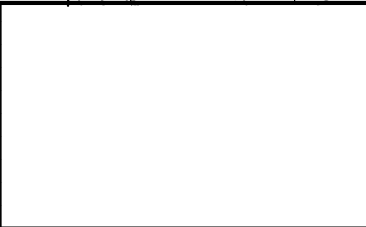
SHEET  
73  
OF  
95



Sep. 21 2015 04:16 pm V:\3400\_ADC\CAD\segment e4\plan sheets\storm sewer\E4--STM--PLN.dwg By: 554



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15

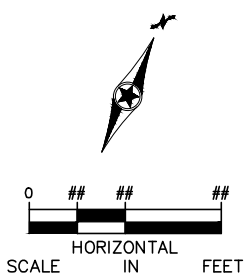
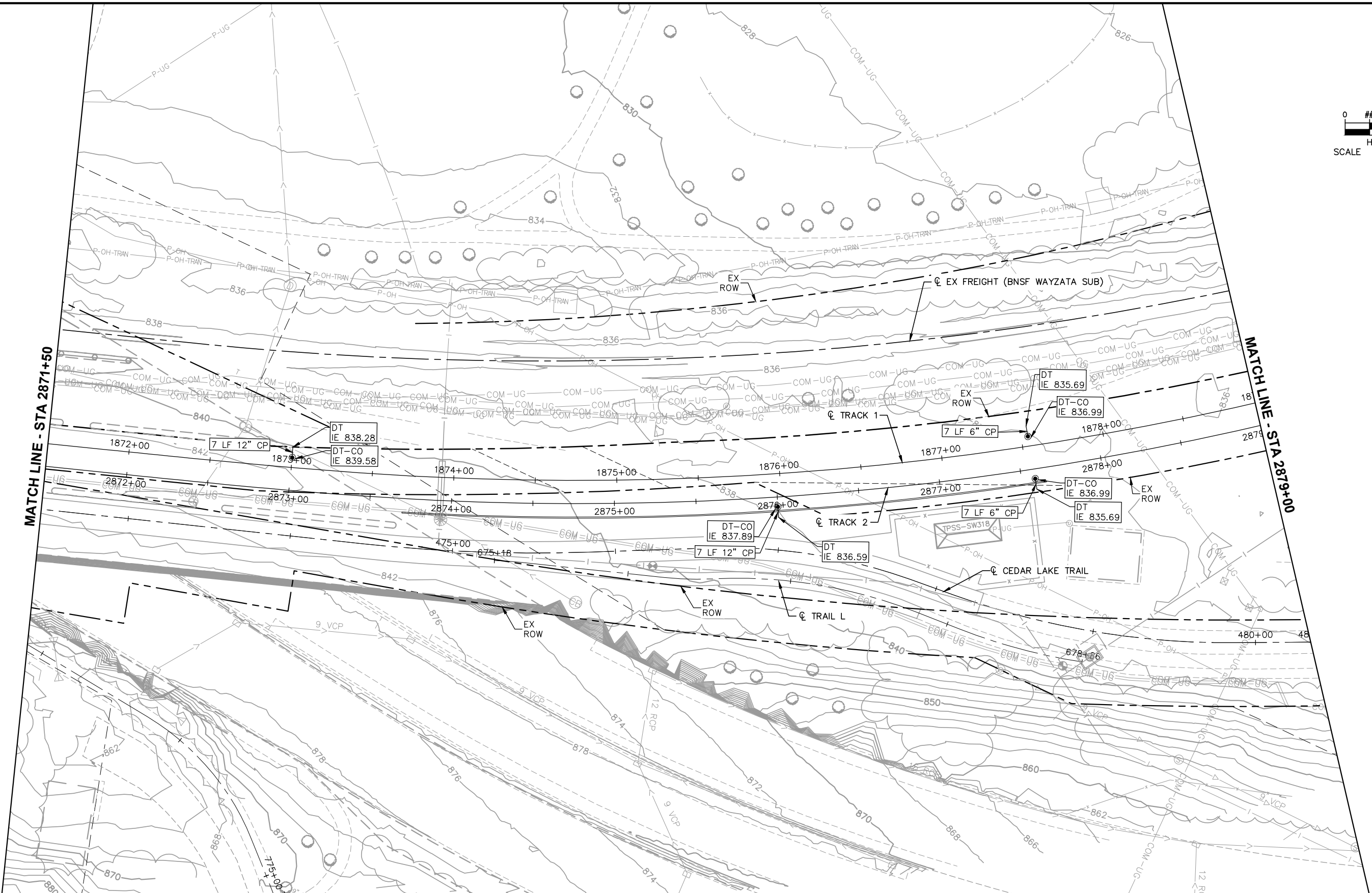


CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2865+50 TO STA 2871+50

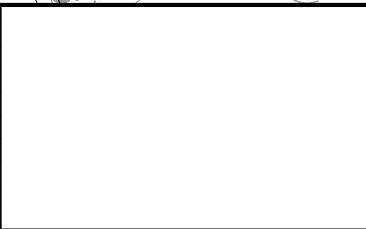
DISCIPLINE: DRAINAGE      SHEET NAME: E4-STM-PLN - 006

SHEET  
74  
OF  
95

Sep. 21 2015 04:17 pm V:\3400\_ADC\CAD\segment e4\plan sheets\storm sewer\E4--STM--PLN.dwg By: 554



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |







60% SUBMISSION - 09/28/15

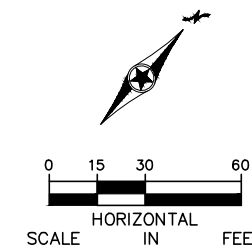


CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2871+50 TO STA 2879+00

DISCIPLINE: DRAINAGE  
SHEET NAME: E4-STM-PLN - 007

SHEET  
75  
OF  
95



[illegible]

**CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2879+00 TO STA 2886+50**

DISCIPLINE: **DRAINAGE**

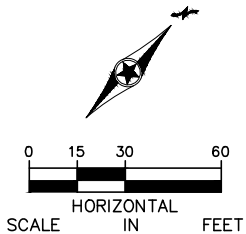
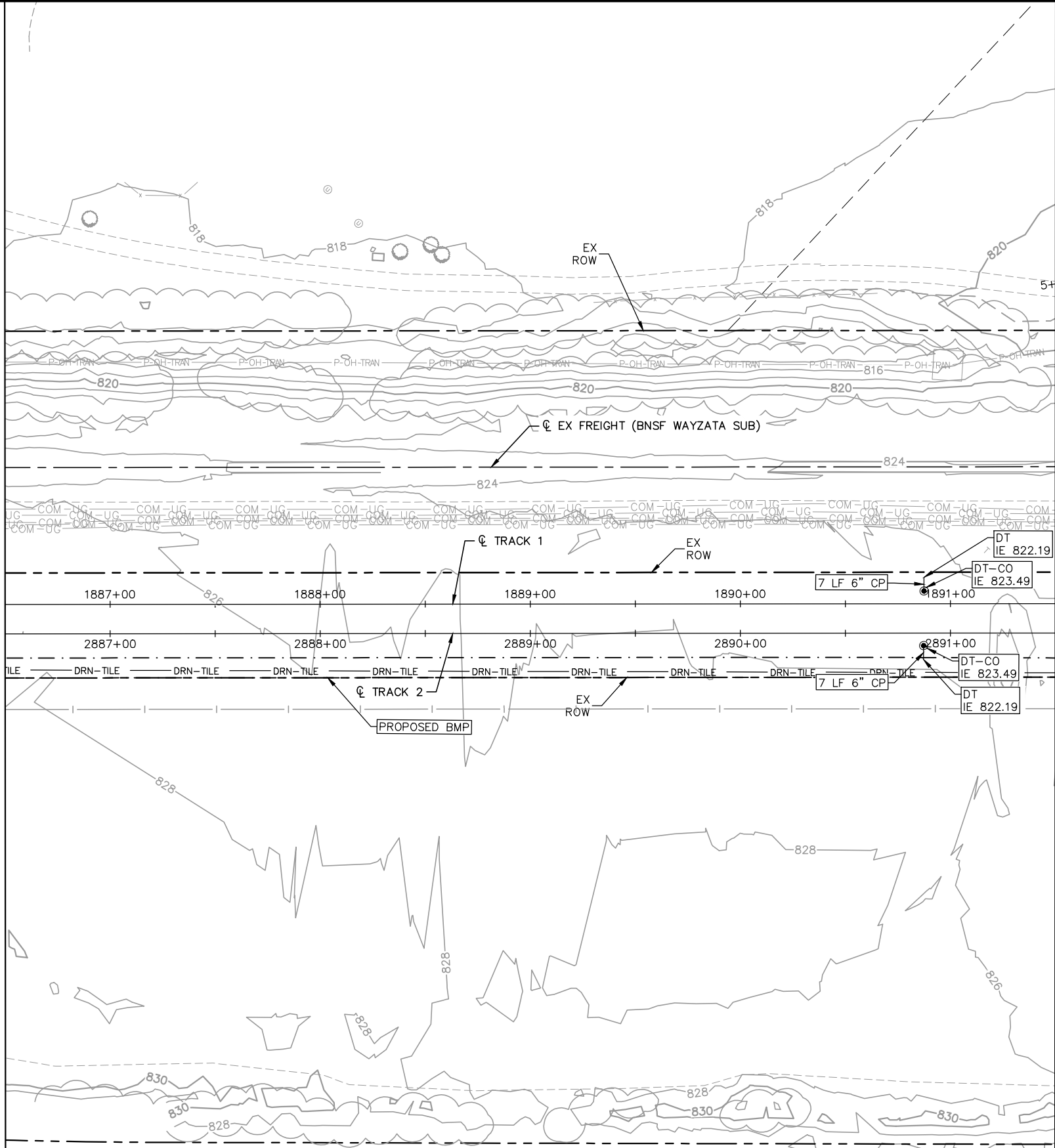
|             |                  |
|-------------|------------------|
| SHEET NAME: | E4-STM-PLN - 008 |
|-------------|------------------|

|  |              |
|--|--------------|
|  | <b>SHEET</b> |
|  | <b>76</b>    |
|  | <b>OF</b>    |
|  | <b>95</b>    |

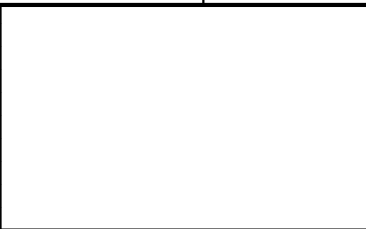
Sep. 21 2015 04:20 pm v:\3400\_ADC\CAD\segment e4\plan sheets\storm sewer\E4--STM--PLN.dwg By: 554

MATCH LINE - STA 2886+50

MATCH LINE - STA 2891+50



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15



CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2886+50 TO STA 2891+50

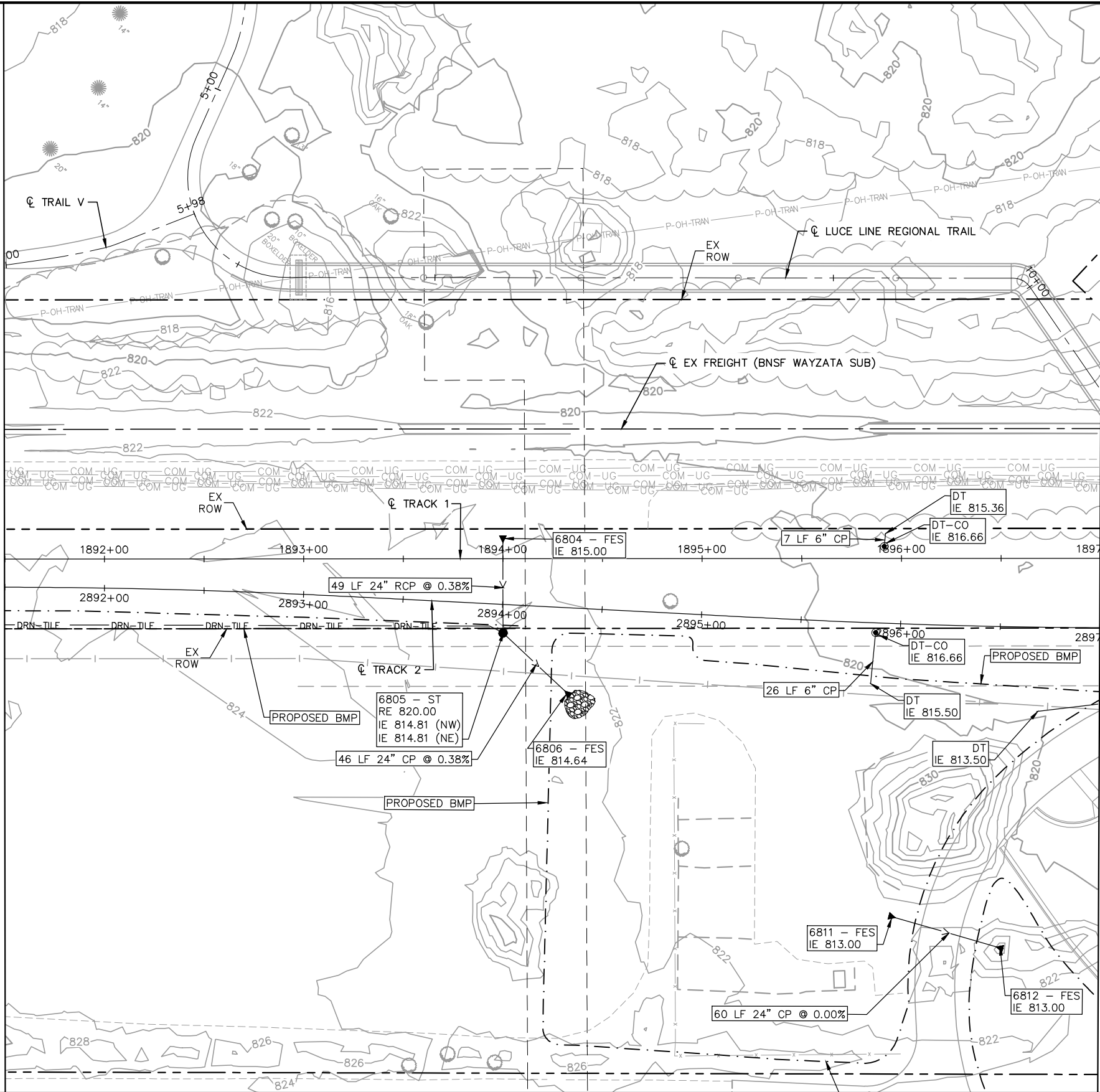
|                         |                                 |
|-------------------------|---------------------------------|
| DISCIPLINE:<br>DRAINAGE | SHEET NAME:<br>E4-STM-PLN - 009 |
|-------------------------|---------------------------------|

SHEET  
77  
OF  
95

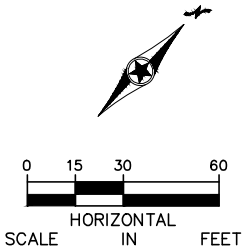


Sep. 21 2015 04:20 pm V:\3400\_ADC\CAD\segment e4\plan sheets\storm sewer\E4--STM--PLN.dwg By: 554

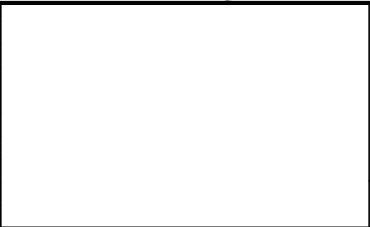
MATCH LINE - STA 2891+50



MATCH LINE - STA 2897+00



| NO. | DATE | BY | CHECK/DESIGN | REVISION / SUBMITTAL |
|-----|------|----|--------------|----------------------|
|     |      |    |              |                      |
|     |      |    |              |                      |
|     |      |    |              |                      |
|     |      |    |              |                      |
|     |      |    |              |                      |
|     |      |    |              |                      |
|     |      |    |              |                      |
|     |      |    |              |                      |
|     |      |    |              |                      |





www.sambatek.com  
Engineering | Surveying | Planning | Environmental



METROPOLITAN  
COUNCIL

60% SUBMISSION - 09/28/15



SOUTHWEST  
Green Line LRT Extension



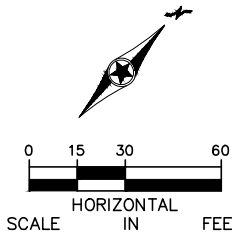
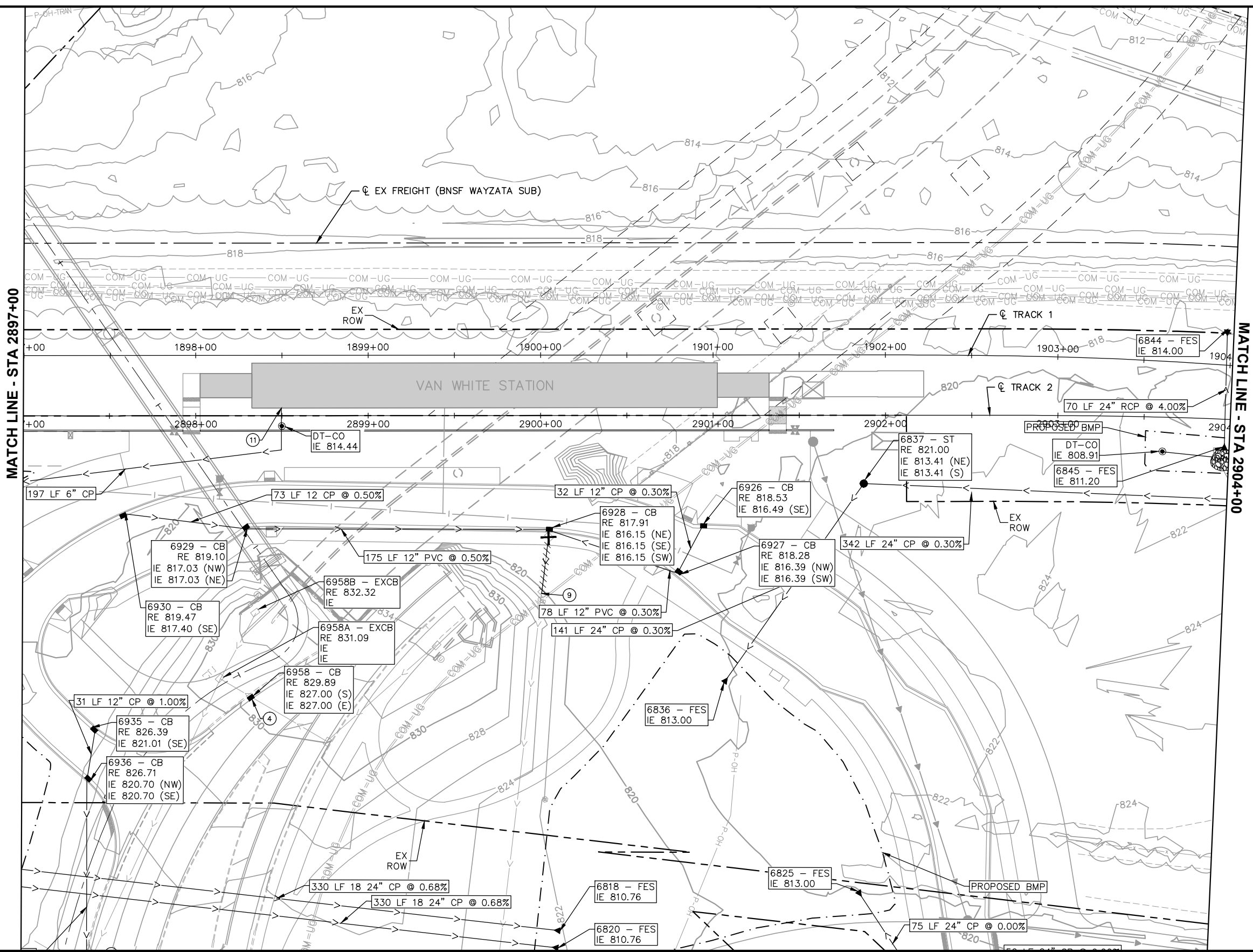
CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2891+50 TO STA 2897+00

DISCIPLINE: DRAINAGE

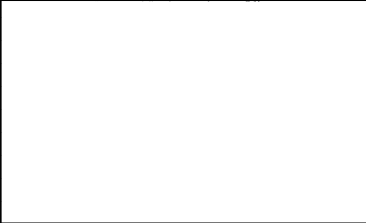
SHEET NAME: E4-STM-PLN - 010

SHEET  
78  
OF  
95

Sep. 21 2015 04:21 pm V:\3400\_ADC\CAD\segment e4\plan sheets\storm sewer\E4--STM--PLN.dwg By: 554



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





Engineering | Surveying | Planning | Environmental



METROPOLITAN COUNCIL

60% SUBMISSION - 09/28/15



SOUTHWEST Green Line LRT Extension



METROPOLITAN COUNCIL

CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2897+00 TO STA 2904+00

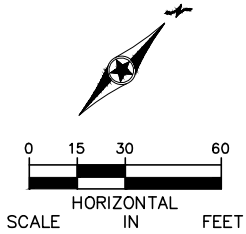
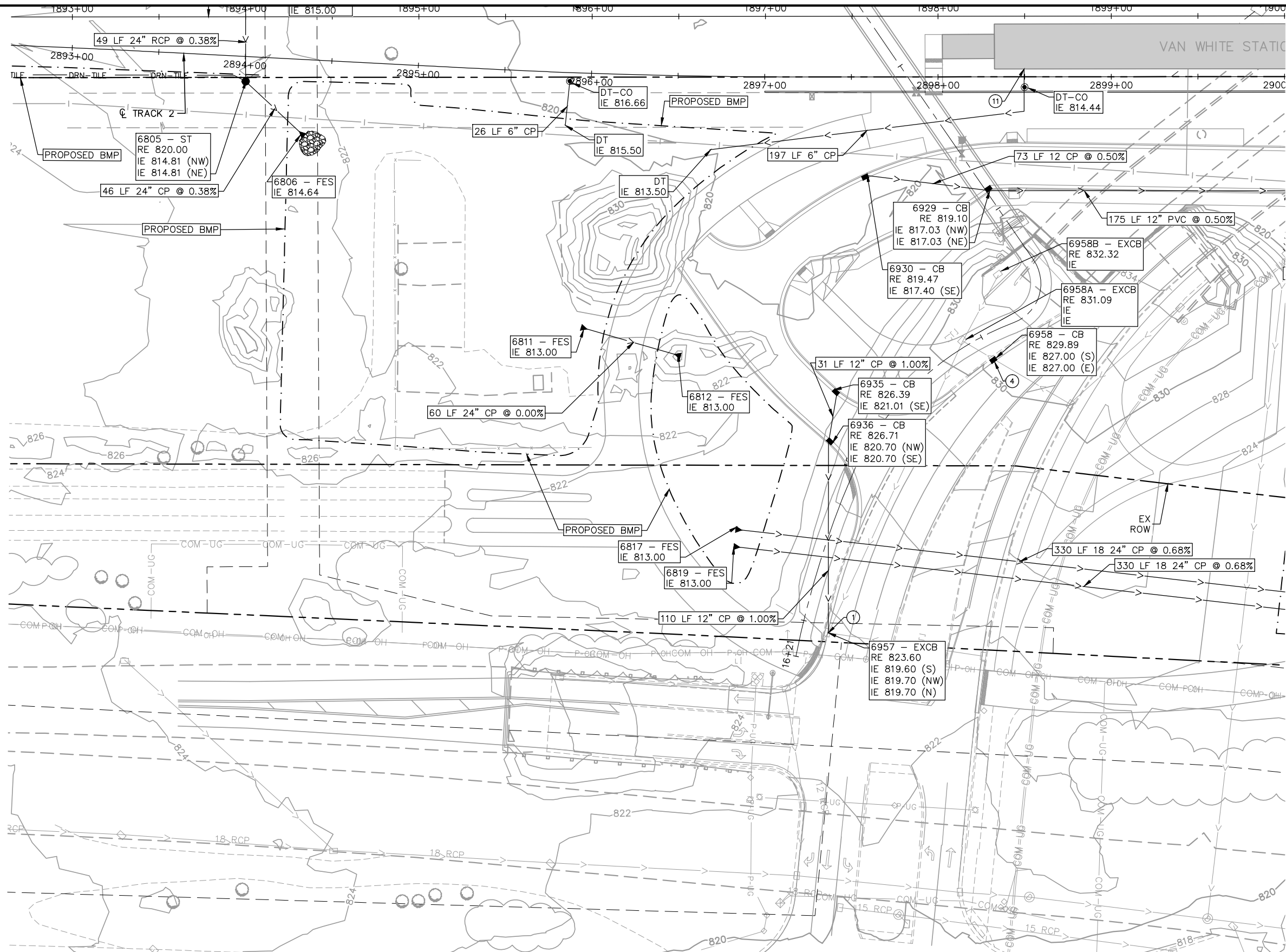
DISCIPLINE: DRAINAGE

SHEET NAME: E4-STM-PLN - 011

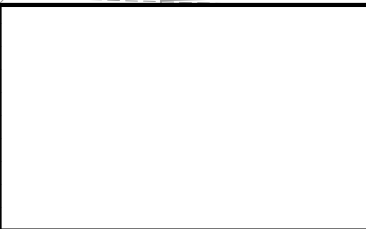
SHEET  
79  
OF  
95



Sep. 21 2015 04:22 pm V:\3400\_ADC\CAD\segment e4\plan sheets\storm sewer\E4-STM-PLN.dwg By: 554



| NO. | DATE | BY | CHECK/DESIGN | REVISION / SUBMITTAL |
|-----|------|----|--------------|----------------------|
|     |      |    |              |                      |
|     |      |    |              |                      |
|     |      |    |              |                      |
|     |      |    |              |                      |
|     |      |    |              |                      |
|     |      |    |              |                      |
|     |      |    |              |                      |
|     |      |    |              |                      |
|     |      |    |              |                      |





60% SUBMISSION - 09/28/15

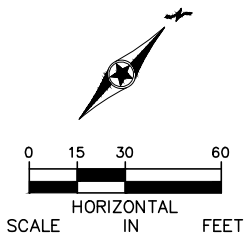
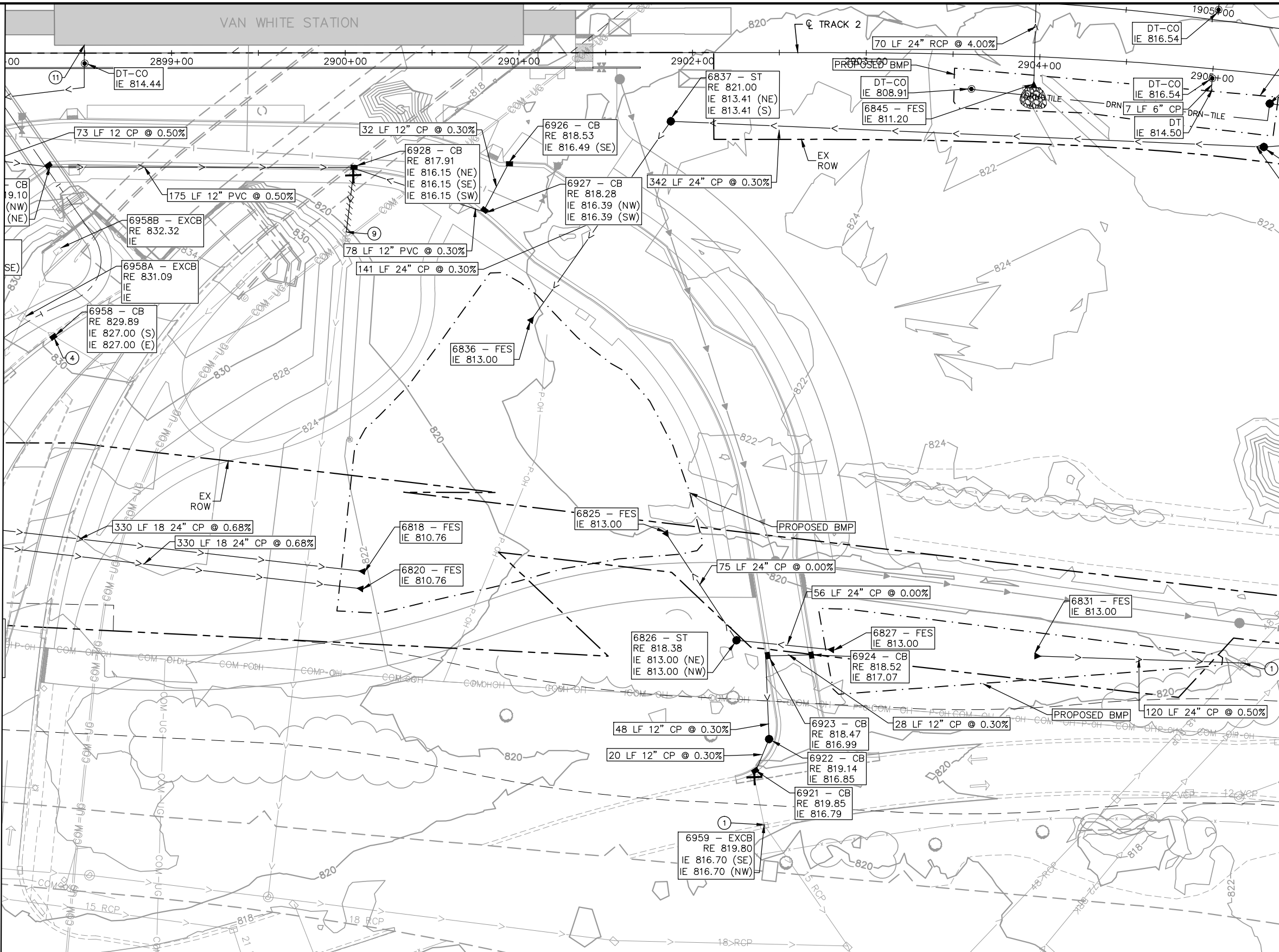


**CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
VAN WHITE DROP OFF SHEET 1**

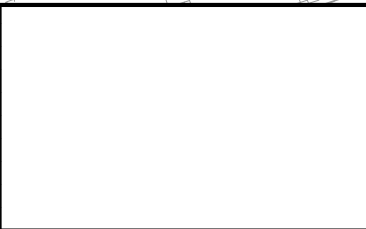
DISCIPLINE: DRAINAGE      SHEET NAME: E4-STM-PLN - 012

SHEET  
80  
OF  
95

Sep. 21 2015 04:23 pm V:\3400\_ADC\CAD\segment e4\plan sheets\storm sewer\E4--STM--PLN.dwg By: 554



| NO. | DATE | BY | CHECK/DESIGN | REVISION / SUBMITTAL |
|-----|------|----|--------------|----------------------|
|     |      |    |              |                      |
|     |      |    |              |                      |
|     |      |    |              |                      |
|     |      |    |              |                      |
|     |      |    |              |                      |
|     |      |    |              |                      |
|     |      |    |              |                      |
|     |      |    |              |                      |
|     |      |    |              |                      |





60% SUBMISSION - 09/28/15



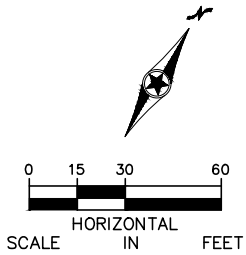
CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
VAN WHITE DROP OFF SHEET 2

DISCIPLINE: DRAINAGE  
SHEET NAME: E4-STM-PLN - 013

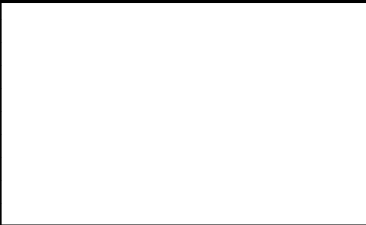
SHEET  
81  
OF  
95



Sep. 21 2015 04:24 pm V:\3400\_ADC\CAD\segment e4\plan sheets\storm sewer\E4--STM--PLN.dwg By: 554



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15



CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2904+00 TO STA 2911+00

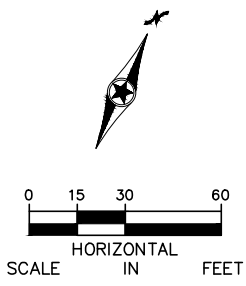
DISCIPLINE: DRAINAGE  
SHEET NAME: E4-STM-PLN - 014

SHEET  
82  
OF  
95





Sep. 21 2015 04:25 pm V:\3400\_ADC\CAD\segment e4\plan sheets\storm sewer\E4--STM--PLN.dwg By: 554



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |



60% SUBMISSION - 09/28/15

CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2911+00 TO STA 2918+00

DISCIPLINE: DRAINAGE  
SHEET NAME: E4-STM-PLN - 016

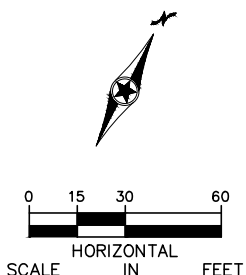
SHEET

84

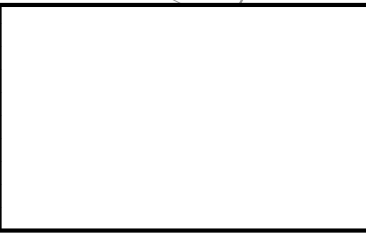
OF

95

Sep. 21 2015 04:26 pm V:\3400\_ADC\CAD\segment e4\plan sheets\storm sewer\E4--STM--PLN.dwg By: 554



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |



60% SUBMISSION - 09/28/15

CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2918+00 TO STA 2925+00

DISCIPLINE: DRAINAGE

SHEET NAME: E4-STM-PLN - 017

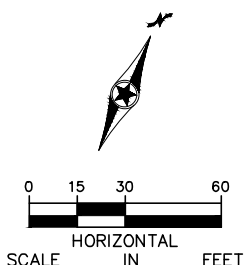
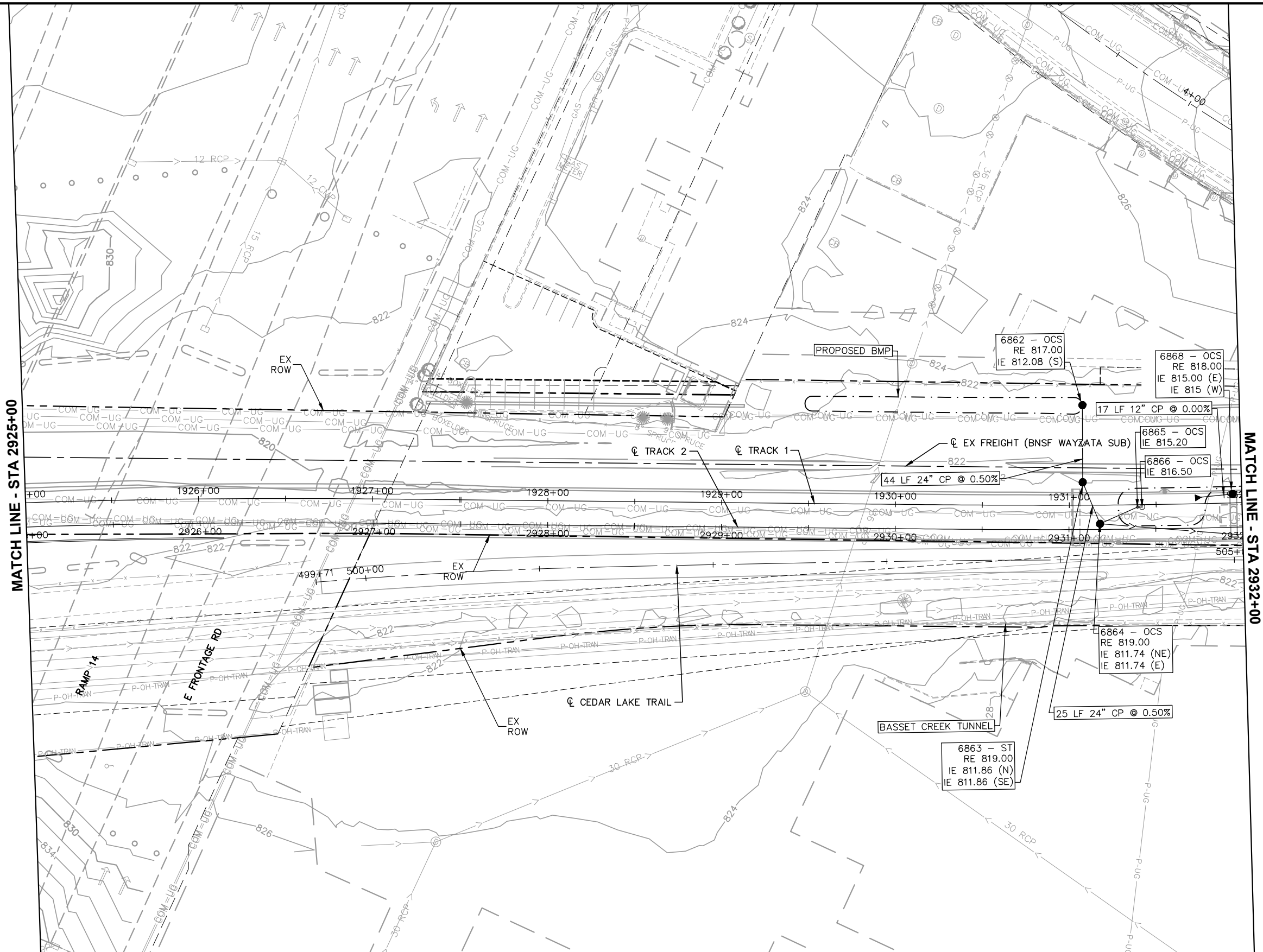
SHEET

85

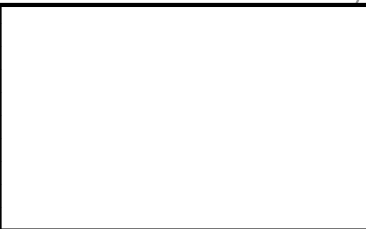
OF

95

Sep. 21 2015 04:27 pm V:\3400\_ADC\CAD\segment e4\plan sheets\storm sewer\E4--STM--PLN.dwg By: 554



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15



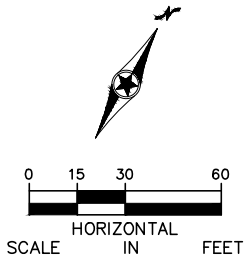
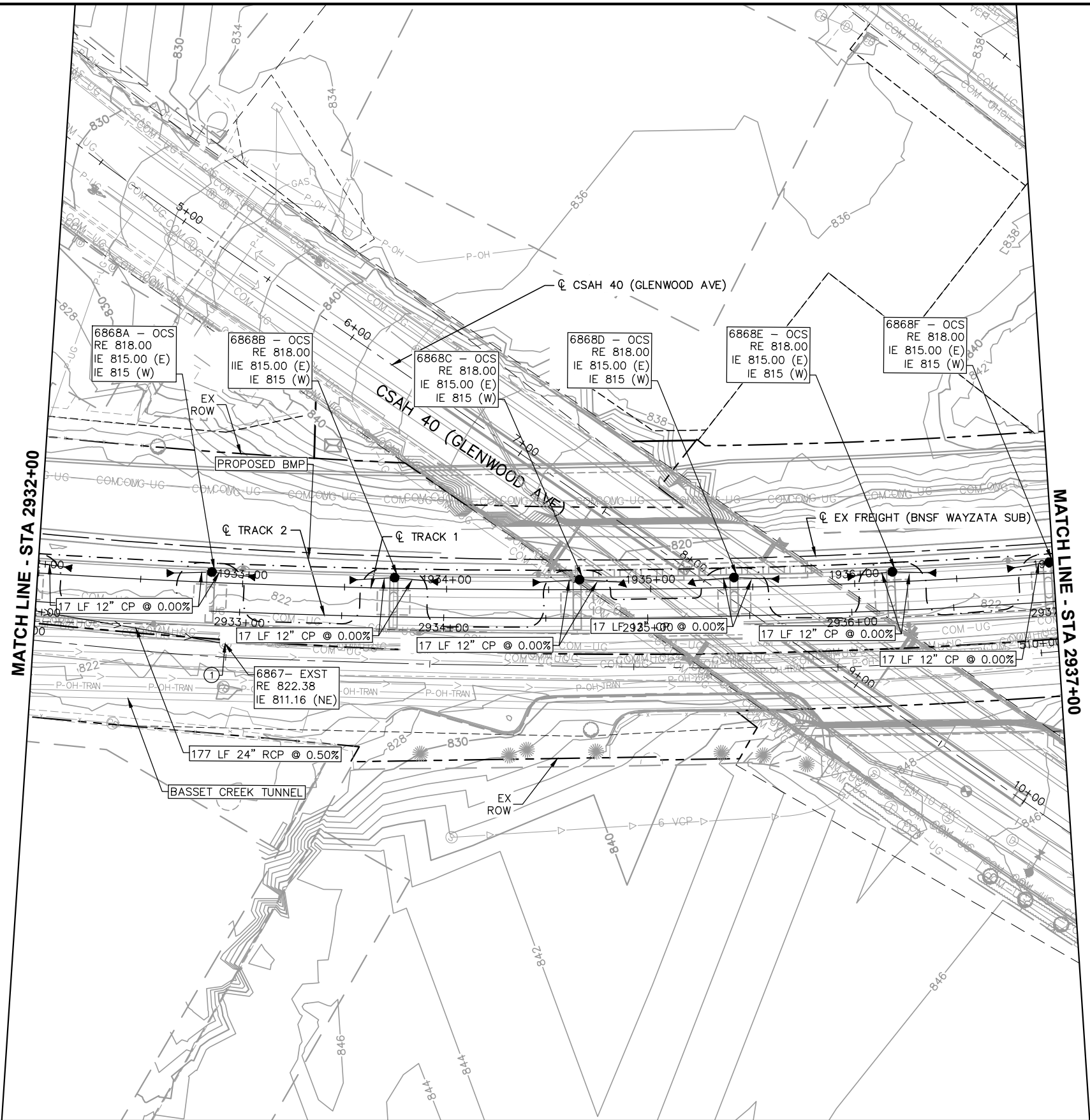
CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2925+00 TO STA 2932+00

DISCIPLINE: DRAINAGE      SHEET NAME: E4-STM-PLN - 018

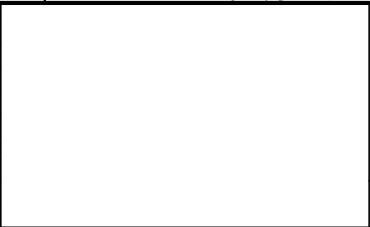
SHEET  
86  
OF  
95



Sep. 21 2015 04:28 pm V:\3400\_ADC\CAD\segment e4\plan sheets\storm sewer\E4--STM--PLN.dwg By: 554



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





**Sambatek**  
www.sambatek.com  
Engineering | Surveying | Planning | Environmental



**METROPOLITAN**  
COUNCIL

**60% SUBMISSION - 09/28/15**



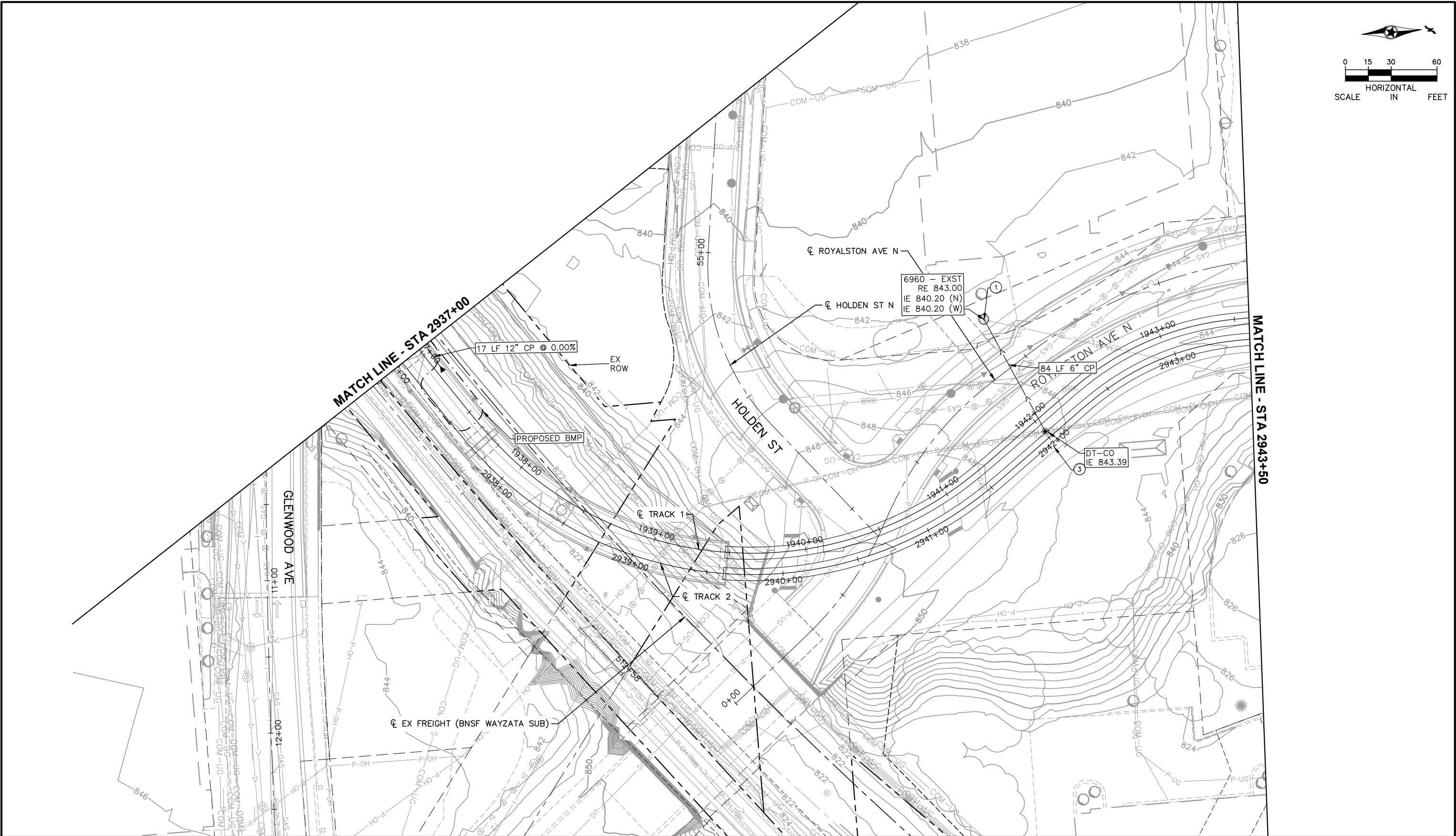
**SOUTHWEST**  
Green Line LRT Extension



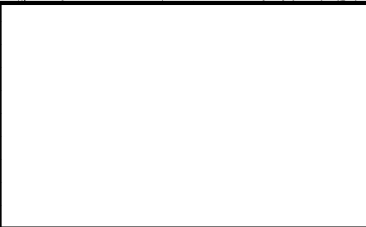
| CIVIL EAST - VOLUME 8<br>DRAINAGE<br>PLAN<br>STA 2932+00 TO STA 2937+00 |                                        |
|-------------------------------------------------------------------------|----------------------------------------|
| DISCIPLINE:<br><b>DRAINAGE</b>                                          | SHEET NAME:<br><b>E4-STM-PLN - 019</b> |

| SHEET |
|-------|
| 87    |
| OF    |
| 95    |

Sep. 21 2015 04:29 pm V:\3400\_ADC\CAD\segment e4\plan sheets\storm sewer\E4--STM--PLN.dwg By: 554



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15



**CIVIL EAST - VOLUME 8**

**DRAINAGE PLAN**

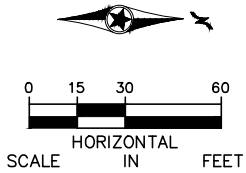
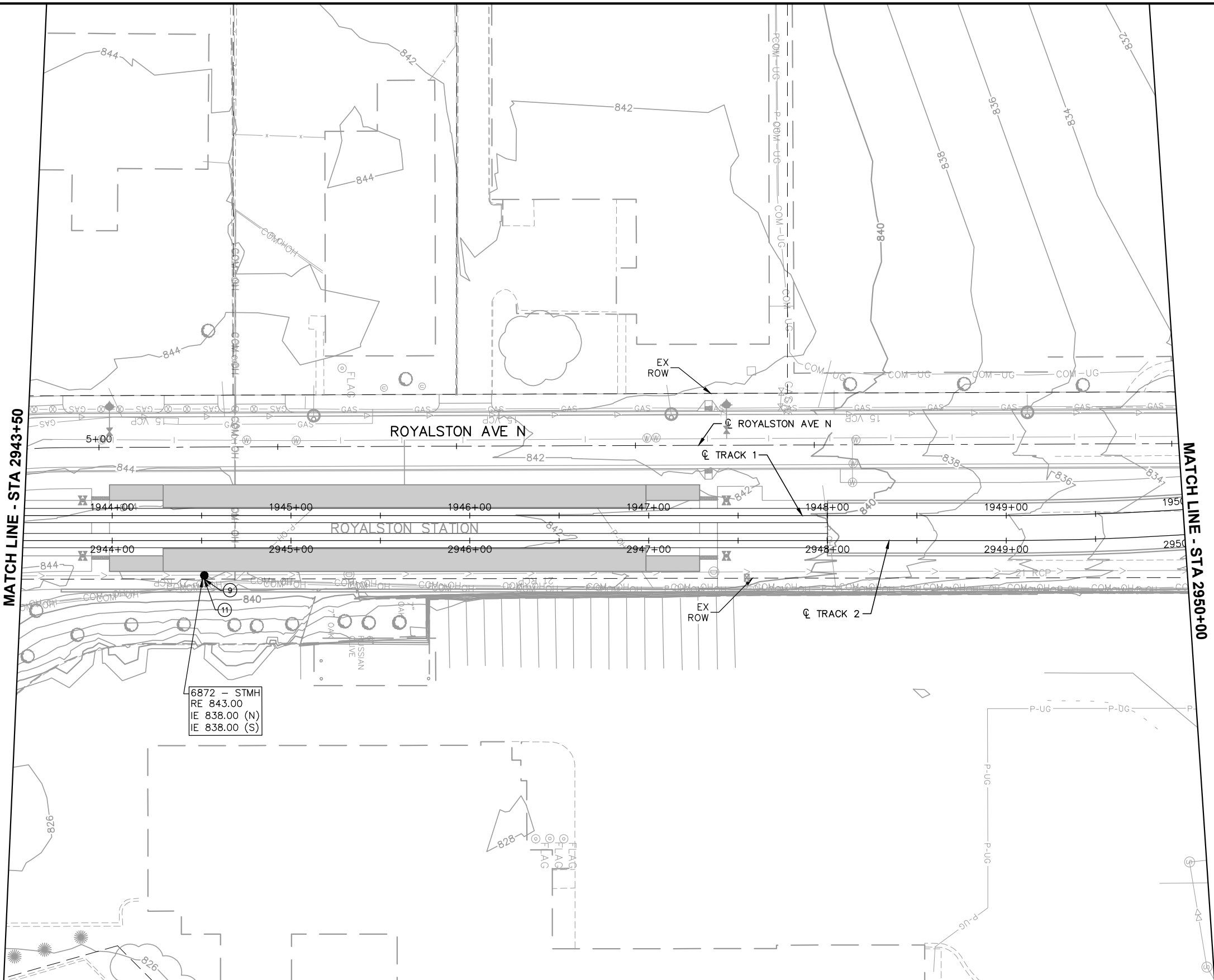
**STA 2937+00 TO STA 2943+50**

DISCIPLINE: **DRAINAGE**

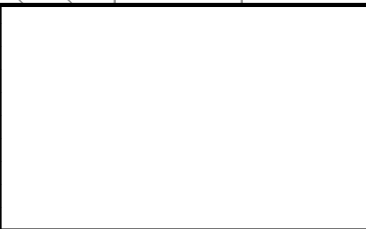
SHEET NAME: **E4-STM-PLN - 020**

**SHEET 88 OF 95**

Sep. 21 2015 04:30 pm V:\3400\_ADC\CAD\segment e4\plan sheets\storm sewer\E4--STM--PLN.dwg By: 554



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15



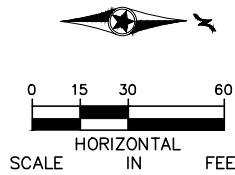
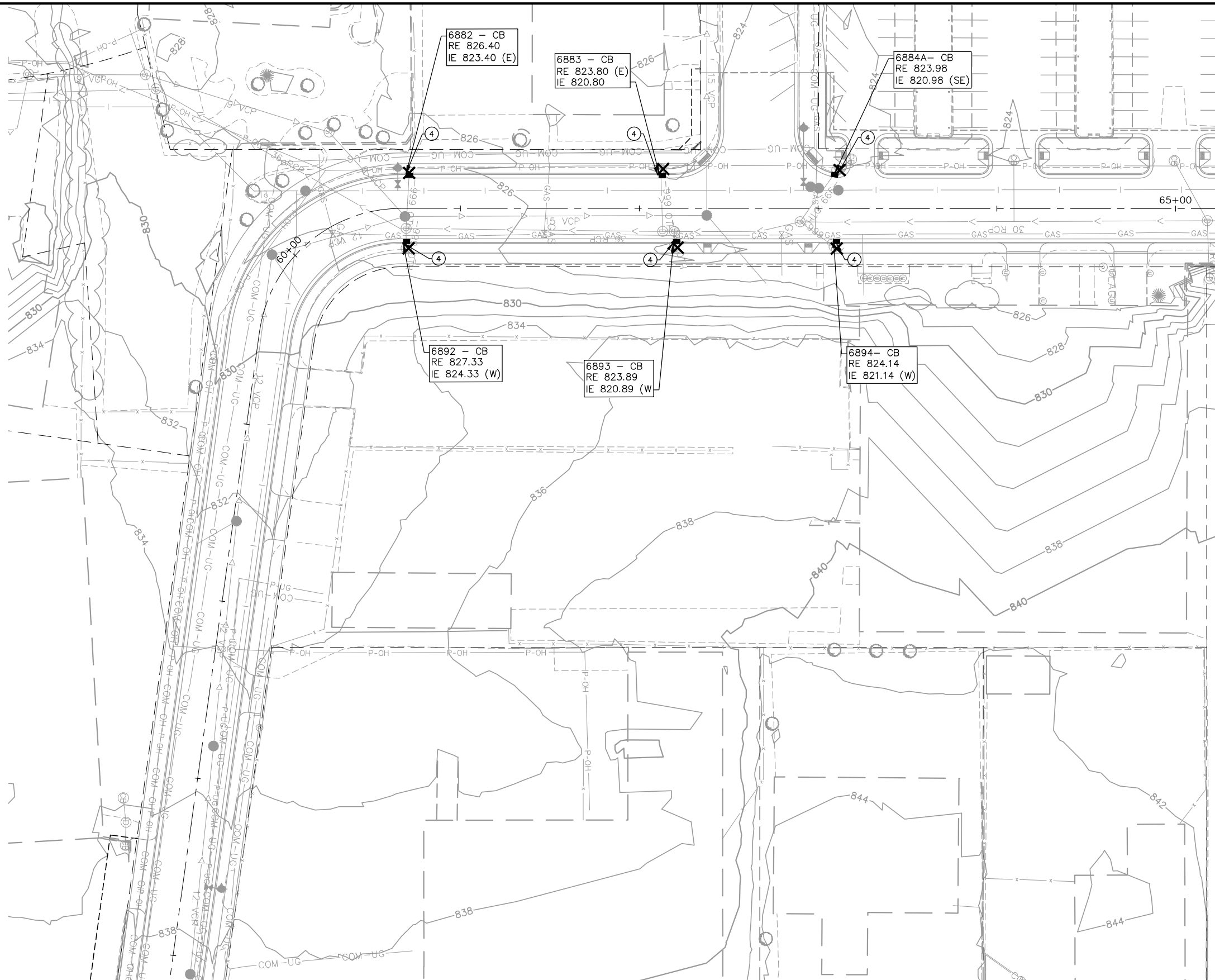
CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2943+50 TO STA 2950+00

DISCIPLINE: DRAINAGE      SHEET NAME: E4-STM-PLN - 021

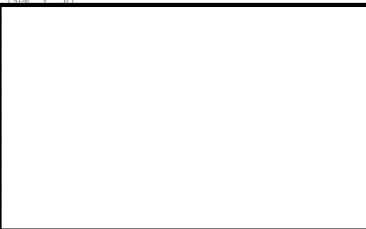
SHEET  
89  
OF  
95



Sep. 21 2015 04:30 pm v:\3400\_ADC\CAD\segment e4\plan sheets\storm sewer\E4--STM--PLN.dwg By: 554



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |





60% SUBMISSION - 09/28/15



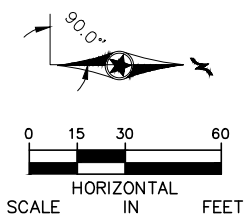
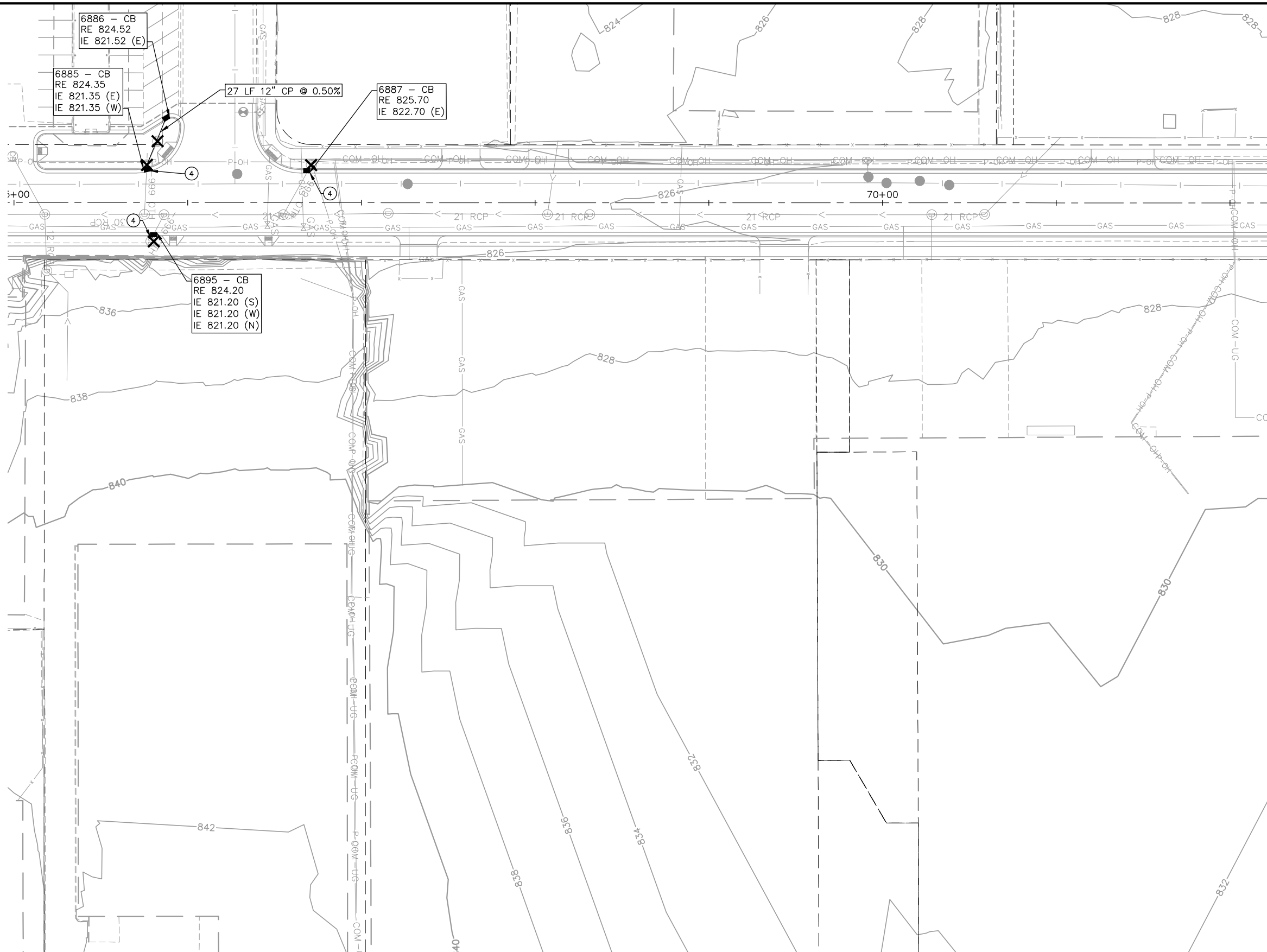
CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
HOLDEN ST

DISCIPLINE: DRAINAGE

SHEET NAME: E4-STM-PLN - 022

SHEET  
90  
OF  
95

Sep. 21 2015 04:31 pm V:\3400\_ADC\CAD\segment e4\plan sheets\storm sewer\E4--STM--PLN.dwg By: 554



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |

|     |          |
|-----|----------|
| XXX | XXX      |
| XXX | XX/XX/XX |

60% SUBMISSION - 09/28/15

CIVIL EAST - VOLUME 8

DRAINAGE

PLAN

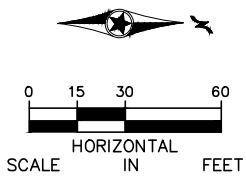
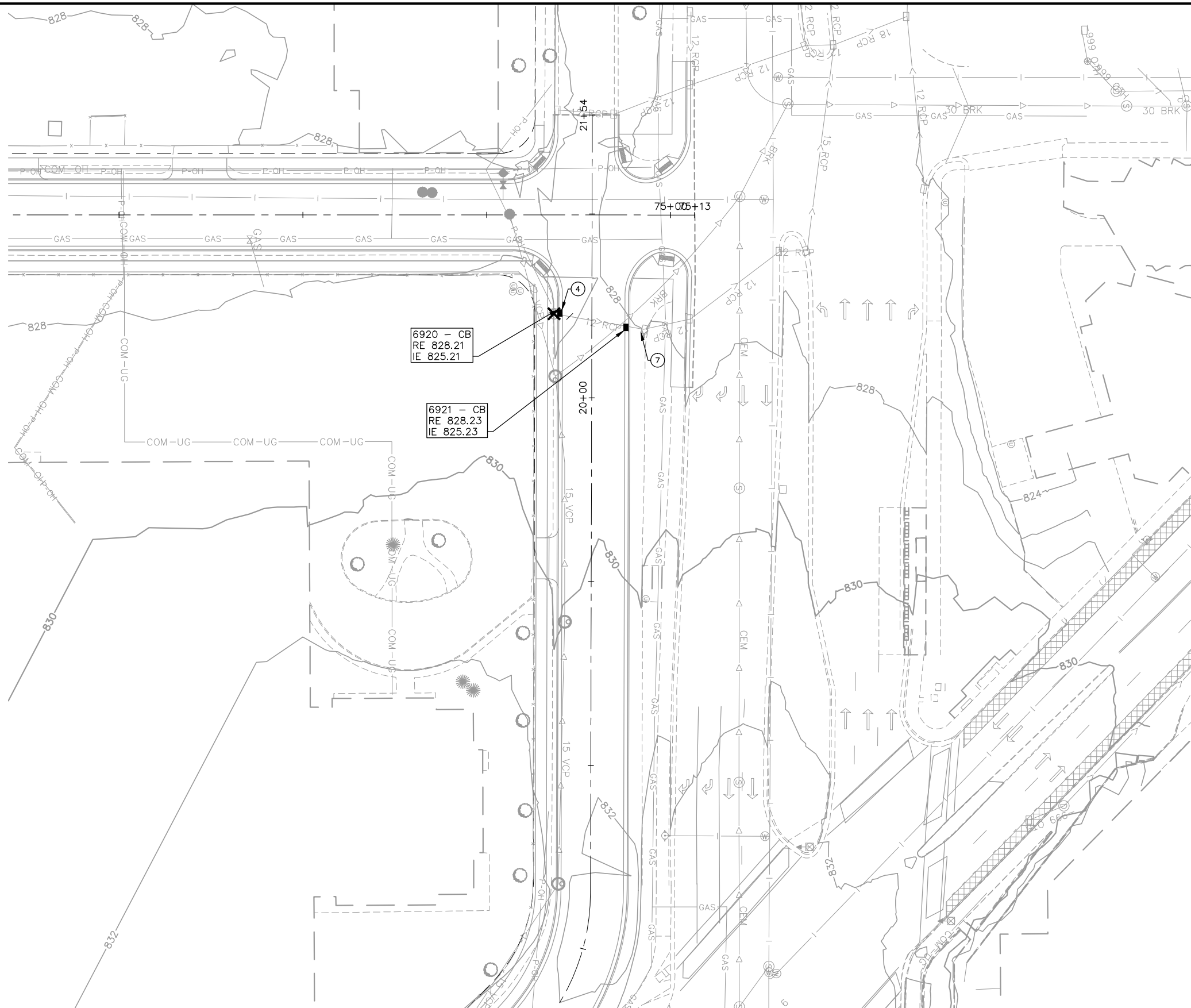
BORDER AVE

DISCIPLINE: DRAINAGE

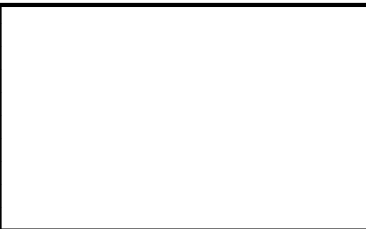
SHEET NAME: E4-STM-PLN - 023

SHEET 91 OF 95

Sep. 21 2015 04:32 pm v:\3400\_ADC\CAD\segment e4\plan sheets\storm sewer\E4--STM--PLN.dwg By: 554



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |







60% SUBMISSION - 09/28/15



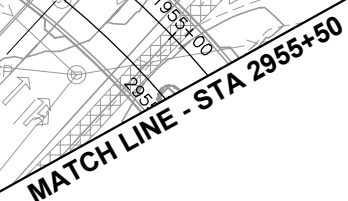
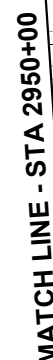
CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
ROYALSTON AVE

DISCIPLINE: DRAINAGE

SHEET NAME: E4-STM-PLN - 024

SHEET  
92  
OF  
95



[illegible]

**METROPOLITAN**  
COUNCIL



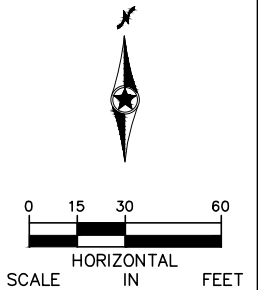
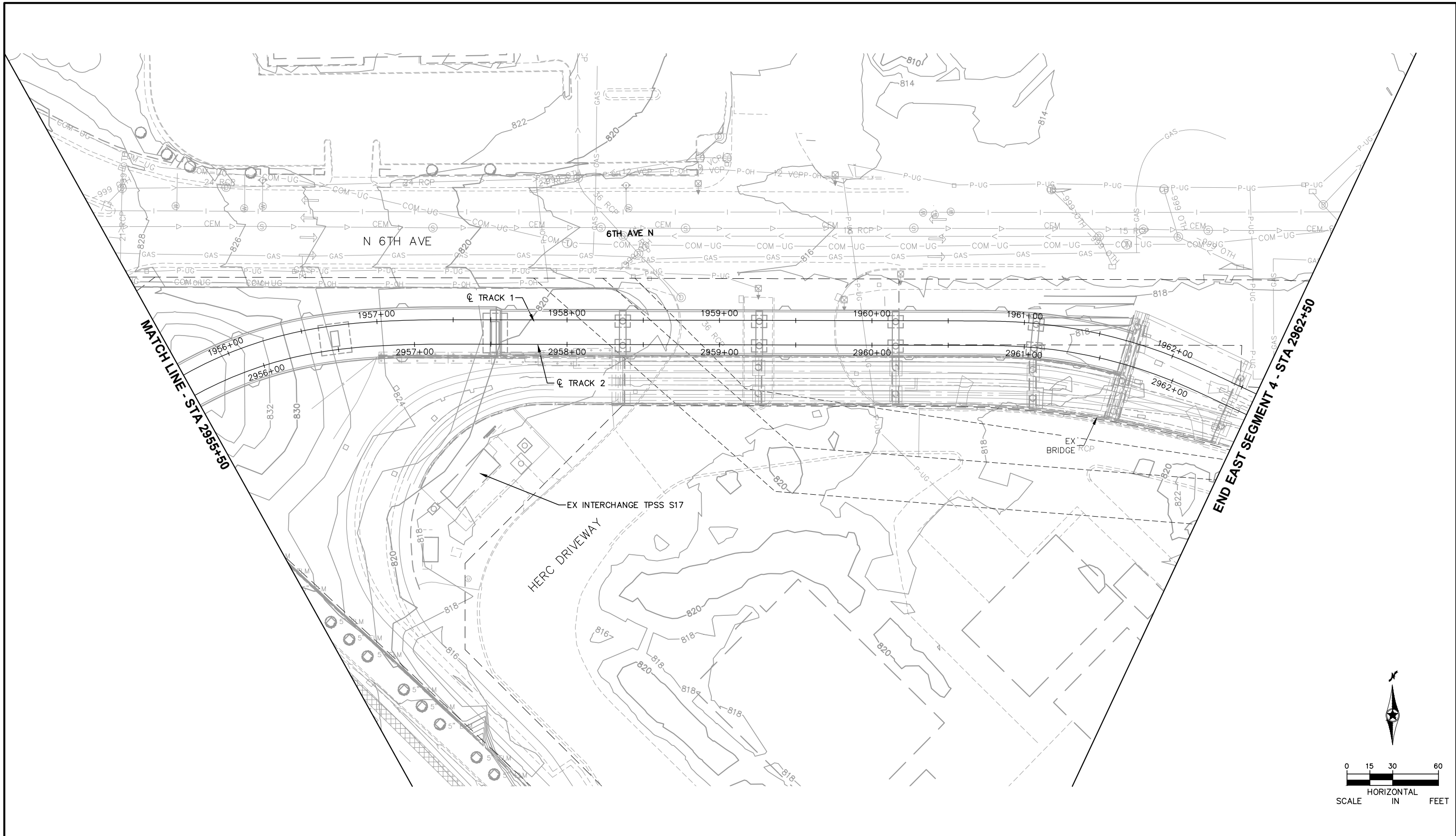
## DISCIPLINE:

|  |             |
|--|-------------|
|  | SHEET NAME: |
|--|-------------|

E4-STM-PLN - 025

95

Sep. 21 2015 04:34 pm V:\3400\_ADC\CAD\segment e4\plan sheets\storm sewer\E4--STM--PLN.dwg By: 554



| NO. | DATE | BY | CHECK | DESIGN | REVISION / SUBMITTAL |
|-----|------|----|-------|--------|----------------------|
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |
|     |      |    |       |        |                      |






60% SUBMISSION - 09/28/15




CIVIL EAST - VOLUME 8  
DRAINAGE  
PLAN  
STA 2955+50 TO STA 2962+50

DISCIPLINE: DRAINAGE  
SHEET NAME: E4-STM-PLN - 026

SHEET 94 OF 95

Sep. 21 2015 03:04 pm v:\3400\_ADC\CAD\SEGMENT E1\PLAN SHEETS\STORM SEWER\EO-STM-NTS.dwg By: 498

MNDOT AND CITY STANDARD PLATES LIST

| SOURCE                                  | PLATE NO. | DESCRIPTION                                                                           |
|-----------------------------------------|-----------|---------------------------------------------------------------------------------------|
| MINNESOTA DEPARTMENT OF TRANSPORTATION* | 3000L     | REINFORCED CONCRETE PIPE (5 SHEETS)                                                   |
|                                         | 3008G     | 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 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 ST LOUIS PARK                   | SS-1      | MANHOLE COVER                                                                         |
|                                         | SS-2      | TYPE B CATCH BASIN                                                                    |
|                                         | SS-3      | TYPE C MH-CB                                                                          |
|                                         | SS-4      | FLARED END SECTION                                                                    |

| SOURCE              | PLATE NO.    | DESCRIPTION                                                      |
|---------------------|--------------|------------------------------------------------------------------|
| CITY OF MINNEAPOLIS | SEWR-1000-R1 | TYPICAL MANHOLE CONSTRUCTION (MNDOT DESIGN F MODIFIED)           |
|                     | SEWR-1001-R1 | PRECAST RISER SECTIONS                                           |
|                     | SEWR-1003    | MANHOLE BASE SLAB                                                |
|                     | SEWR-1004    | SHORT CONE TOP SLAB                                              |
|                     | SEWR-1008-R1 | PRECAST CATCH BASIN POT (MNDOT DESIGN N)                         |
|                     | SEWR-1009    | CATCH BASIN INSTALLATION                                         |
|                     | SEWR-1010    | CATCH BASIN STRUCTURE REQUIREMENTS                               |
|                     | SEWR-2000    | MANHOLE COVER CITY LOGO                                          |
|                     | SEWR-2001    | SELF-SEALING MANHOLE COVER                                       |
|                     | SEWR-2002    | SIDEWALK COVER                                                   |
|                     | SEWR-2003    | CIRCULAR VANE GRATE                                              |
|                     | SEWR-2004    | STANDARD PROFILE MANHOLE RING CASTING                            |
|                     | SEWR-2005    | LOW PROFILE MANHOLE RING CASTING                                 |
|                     | SEWR-2006    | CATCH BASIN CASTING                                              |
|                     | SEWR-2007    | CURB BOX CASTING FOR CATCH BASIN                                 |
|                     | SEWR-2008    | CATCH BASIN GRATE TYPE "V"                                       |
|                     | SEWR-3001    | WATERTIGHT PIPE CONNECTIONS                                      |
|                     | SEWR-3004    | CONCRETE PIPE TIES                                               |
|                     | SEWR-3005    | RIPRAP AT RC PIPE OUTLETS (1 OF 2)                               |
|                     | SEWR-3006    | RIPRAP AT RC PIPE-ARCH OUTLETS (2 OF 2)                          |
|                     | SEWR-3010    | RC PIPE FLARED END/APRON TRASH GUARD                             |
|                     | SEWR-4000    | SHEAR REINFORCEMENT FOR PRECAST DRAINAGE STRUCTURES              |
|                     | SEWR-4001    | RC PIPE 66" AND UNDER (R-4 CONFINED O-RING GASKET JOINT, 1 OF 2) |
|                     | SEWR-4014    | CONCRETE APRON FOR RC PIPE                                       |
|                     | SEWR-4015    | PVC PIPE STANDARDS                                               |
|                     | SEWR-4016    | SLOTTED DRAIN FOR 12" THROUGH 30" DIAMETER CM PIP                |
|                     | SEWR-7000    | PARK BOARD MANHOLE COVER CITY LOGO                               |
|                     | SEWR-7001    | PARK BOARD CATCH BASIN GRATE TYPE "V"                            |
|                     | SEWR-7002    | PARK BOARD GREEN SPACE INLET GRATE                               |
|                     | SEWR-7003    | PARK BOARD NARROW TYPE 1 CATCH BASIN GRATE                       |
|                     | SEWR-7004    | PARK BOARD NARROW TYPE 2 CATCH BASIN GRATE                       |
|                     | SEWR-7005    | PARK BOARD NARROW TYPE 3 CATCH BASIN GRATE                       |
|                     | SEWR-7006    | PARK BOARD CATCH BASIN GRATE 814A MNDOT STYLE                    |
|                     | SEWR-7007    | PARK BOARD SLOTTED RECTANGULAR CATCH BASIN GRATE                 |
|                     | SEWR-7008    | PARK BOARD RECTANGULAR CATCH BASIN GRATE                         |
|                     | SEWR-7009    | PARK BOARD SLOTTED SQUARE CATCH BASIN GRATE                      |

\*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 EAST - VOLUME 8  
STANDARD PLATES LIST

DISCIPLINE: DRAINAGE

SHEET NAME: E0-STM-NTS-003