FOR CONSTRUCTION

PRELIMINARY- NOT FOR CONSTRUCTION

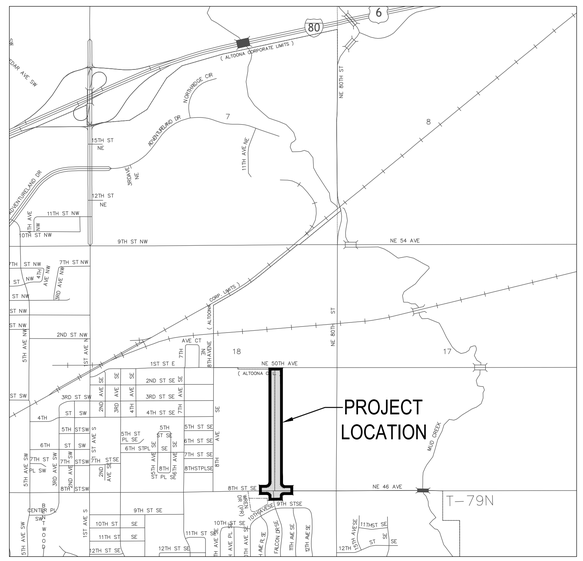
CONSTRUCTION PLANS FOR:

FALCON DRIVE SE - 8TH STREET SE TO NE 50TH AVENUE

DIVISION I: 8TH STREET SE & FALCON DRIVE SE ROUNDABOUT
DIVISION II: FALCON DRIVE SE FROM ROUNDABOUT TO NE 50TH AVENUE

CITY OF ALTOONA, IOWA

THE STATEWIDE URBAN STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, 2023 EDITION, REFERRED TO HEREIN AS SUDAS, SHALL APPLY TO CONSTRUCTION WORK ON THIS PROJECT, AS SPECIFIED IN THE ESTIMATE REFERENCE INFORMATION, EXCEPT WHERE MODIFIED BY THE ALTOONA SUPPLEMENTAL SPECIFICATIONS.



VICINITY MAP
NOT TO SCALE

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PROJECT CONTACTS

CIVIL ENGINEER:
BISHOP ENGINEERING
JOEL JACKSON, P.E.
3501 104TH STREET
URBANDALE, IA 50322
PH: (515) 276-0467

CITY OF ALTOONA:
JOHN E. DOSTART, P.E.
CITY ENGINEER
900 VENBURY DRIVE, SUITE A
ALTOONA, IA 50009
PH: (515) 957-5116

UTILITY CONTACTS:
1. ELECTRIC (MIDAMERICAN / 515-252-6632)
2. FIBER OPTIC (CENTURYLINK / 303-453-9927)
3. FIBER OPTIC (AUREON / 515-830-0445)
4. TELEPHONE (CENTURYLINK / 303-453-9927)
5. GAS (MIDAMERICAN / 515-252-6632)
6. WATER (SOUTHEAST POLK RURAL WATER / 515-283-8729)
7. FIBER OPTIC (MIDAMERICAN / 515-281-2313)
8. FIBER OPTIC (UPN / 816-425-3555)
9. WATER (CITY OF ALTOONA / 515-418-5474)

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www.iowaonecall.com
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UTILITY NOTE:
THE LOCATION OF THE UTILITIES INDICATED ON THE PLANS HAVE BEEN TAKEN FROM THE FIELD SURVEY, EXISTING PUBLIC RECORDS, AND PLANS PROVIDED BY OTHERS. SURFACE UTILITY LOCATIONS HAVE BEEN FIELD LOCATED BY BISHOP ENGINEERING, UNLESS OTHERWISE NOTED. ALL UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE LOCATIONS ONLY. BISHOP ENGINEERING DOES NOT GUARANTEE THE UNDERGROUND LOCATION OF ANY UTILITIES SHOWN. IT SHALL BE THE DUTY OF THE CONTRACTOR TO DETERMINE THE LOCATION AND DEPTH OF ANY UNDERGROUND UTILITIES SHOWN AND IF ANY ADDITIONAL UTILITIES, OTHER THAN THOSE SHOWN ON THE PLANS, MAY BE PRESENT. A REQUEST WAS MADE TO IOWA ONE CALL FOR UTILITY PROVIDERS TO VERIFY, LOCATE, AND MARK THEIR UTILITIES IN THE FIELD.

LICENSED PROFESSIONAL ENGINEER JOEL E. JACKSON 18397 IOWA

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

SIGNED: PRELIMINARY DATE:
JOEL E. JACKSON, P.E. 18397
LICENSE RENEWAL DATE: DEC. 31, 2024
PAGES OR SHEETS COVERED BY THIS SEAL:

Bishop Engineering
"Planning Your Successful Development"
3501 104th Street
Des Moines, Iowa 50322-3825
Phone: (515)276-0467 Fax: (515)276-0217
Civil Engineering & Land Surveying Established 1959

FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE.
CONSTRUCTION PLANS

TITLE SHEET

REFERENCE NUMBER: 200605
DRAWN BY: EWM
CHECKED BY: JEJ
REVISION DATE:
PROJECT NUMBER: 200605-2
SHEET NUMBER: A0.1

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LEGEND:

- SAN — SANITARY SEWER
- ST — STORM SEWER
- W — WATER LINE
- G — GAS LINE
- U/E — UNDERGROUND ELECTRIC
- O/E — OVERHEAD ELECTRIC
- TELE — TELEPHONE LINE
- F/O — FIBER OPTIC
- CATV — CABLE TV
- STORM MANHOLE
- CURB INTAKE
- SURFACE INTAKE
- FLARED END SECTION
- SANITARY MANHOLE
- CLEANOUT
- FIRE HYDRANT
- SPRINKLER
- IRRIGATION CONTROL VALVE
- WATER MANHOLE
- WELL
- WV WATER VALVE
- WATER SHUT OFF
- YARD HYDRANT
- ELECTRIC MANHOLE
- EM ELECTRIC METER
- ELECTRIC RISER
- ELEC ELECTRIC VAULT
- POWER POLE
- TRANSFORMER POLE
- LIGHT POLE
- ELECTRIC JUNCTION BOX
- EP ELECTRIC PANEL
- TRANSFORMER
- GROUND LIGHT
- GUY WIRE
- ELECTRIC HANDHOLE
- GM GAS METER
- GV GAS VALVE
- AC AIR CONDITIONING UNIT
- TELEPHONE RISER
- TEL TELEPHONE VAULT
- TELEPHONE MANHOLE
- TS TRAFFIC SIGNAL MANHOLE
- FO FIBER OPTIC MANHOLE
- FO FIBER OPTIC RISER
- FO FIBER OPTIC FAULT
- TV CABLE TV RISER
- SIGN
- BOLLARD
- 7 DENOTES NUMBER OF PARKING STALLS
- PROPERTY CORNER - FOUND AS NOTED
- PROPERTY CORNER- PLACED AS NOTED
- SECTION CORNER - FOUND AS NOTED

ABBREVIATIONS:

AC	ACRES
ASPH	ASPHALT
BK	BOOK
CONC	CONCRETE
D	DEEDED DISTANCE
EX	EXISTING
ENCL	ENCLOSURE
FF	FINISHED FLOOR
FL	FLOW LINE
FRAC	FRACTIONAL
M	MEASURED DISTANCE
MH	MANHOLE
OPC	ORANGE PLASTIC CAP
P	PLATTED DISTANCE
PG	PAGE
POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
PRA	PREVIOUSLY RECORDED AS
PUE	PUBLIC UTILITY EASEMENT
ROW	RIGHT OF WAY
RPC	RED PLASTIC CAP
SF	SQUARE FEET
SAN	SANITARY
TYP	TYPICAL
YPC	YELLOW PLASTIC CAP
N	NORTH
S	SOUTH
E	EAST
W	WEST

GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT EDITIONS OF ALTOONA SUPPLEMENTAL SPECIFICATIONS FOR PUBLIC IMPROVEMENTS AND SUDAS STANDARD SPECIFICATIONS. THE CITY OF ALTOONA ENGINEERING DEPARTMENT MUST BE NOTIFIED BY ALL CONTRACTORS 48 HOURS PRIOR TO COMMENCING WORK AND PRIOR TO ANY WEEKEND OR HOLIDAY WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALTOONA ENGINEERING DEPARTMENT 1 WEEK PRIOR TO ANY PLANNED WORK TO SCHEDULE A PRE-CONSTRUCTION MEETING.
2. IN EVENT OF A DISCREPANCY BETWEEN THE QUANTITY ESTIMATES AND THE DETAILED PLANS, THE DETAILED PLANS SHALL GOVERN.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL UTILITIES. ANY DAMAGE TO SAID UTILITIES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT O.S.H.A. CODES AND STANDARDS. NOTHING INDICATED ON THESE PLANS SHALL RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE APPROPRIATE SAFETY REGULATIONS.
5. BISHOP ENGINEERING SHALL NOT BE LIABLE FOR ANY INJURIES THAT HAPPEN ON SITE. THIS SHALL INCLUDE BUT NOT BE LIMITED TO TRENCH COLLAPSES FROM VARYING SOIL CONDITIONS OR INJURIES CAUSED BY UNDERGROUND UTILITIES INCLUDING UTILITIES THAT ARE NOT SHOWN ON PLAN.
6. THE CONTRACTOR IS LIABLE FOR ALL DAMAGES TO PUBLIC OR PRIVATE PROPERTY CAUSED BY THEIR ACTION OR INACTION IN PROVIDING FOR STORM WATER FLOW DURING CONSTRUCTION. DO NOT RESTRICT FLOWS IN EXISTING DRAINAGE CHANNELS, STORM SEWER, OR FACILITIES.
7. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A SCHEDULE FOR PERFORMANCE OF WORK ITEMS. THIS SCHEDULE SHALL BE PROVIDED BY THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. NO WORK SHALL BEGIN UNTIL A SCHEDULE HAS BEEN SUBMITTED AND ACCEPTED. THE CONTRACTOR SHALL THEN PERFORM WORK TO CONFORM TO THE ACCEPTED SCHEDULE.
8. LABORATORY TESTS SHALL BE PERFORMED BY THE OWNER UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE SAMPLES OF MATERIAL REQUIRED FOR LABORATORY TESTS AND TESTING IN ACCORDANCE WITH THE URBAN STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS.
9. THE CONTRACTOR SHALL PROTECT ALL STRUCTURES NOT SHOWN AS REMOVALS ON THE PLANS.
10. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS PRIOR TO ANY CONSTRUCTION. CONTRACTOR SHALL WORK WITH OWNER OR OWNERS REPRESENTATIVE ON ALL REQUIRED STORM WATER DISCHARGE PERMITS FROM THE IOWA DEPARTMENT OF NATURAL RESOURCES AND THE CITY OF ALTOONA.
11. GRADING AND EROSION CONTROL SHALL BE DONE IN ACCORDANCE WITH THE APPROVED GRADING PLAN, SWPPP, NPDES DOCUMENTS, AND IOWA DEPARTMENT OF NATURAL RESOURCES REQUIREMENTS.
12. THE CONTRACTOR SHALL PICK UP ANY DEBRIS SPILLED ONTO THE ADJACENT RIGHT OF WAY OR ABUTTING PROPERTIES AS THE RESULT OF CONSTRUCTION, AT THE END OF EACH WORK DAY AND PRIOR TO A RAIN EVENT.
13. THE CONTRACTOR IS RESPONSIBLE FOR THE PROMPT REMOVAL OF ALL MUD THAT HAS BEEN TRACKED OR WASHED UNTO ADJACENT PROPERTY OR RIGHT OF WAY UNTIL SUCH TIME THAT PERMANENT VEGETATION HAS BEEN ESTABLISHED.
14. DISPOSE OF ALL EXCESS MATERIALS AND TRASH IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REQUIREMENTS. PROVIDE WASTE AREAS OR DISPOSAL SITES FOR EXCESS MATERIALS NOT DESIRABLE FOR INCORPORATION INTO THE PROJECT.
15. ANY PROPOSED CHANGES TO THE APPROVED PLAN SET DURING CONSTRUCTION MUST RECEIVE WRITTEN APPROVAL FROM THE CITY OF ALTOONA ENGINEERING DEPARTMENT AND DESIGN ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CHANGES MADE DURING CONSTRUCTION THAT HAVE NOT RECEIVED WRITTEN APPROVAL FROM THE CITY OF ALTOONA DEVELOPMENT SERVICES DEPARTMENT.
16. CONTRACTOR SHALL PROVIDE THE CITY OF ALTOONA ENGINEERING DEPARTMENT WITH A LIST OF QUANTITIES FOR SCHEDULING INSPECTION PURPOSES.

PAVING NOTES:

1. THE PAVING/ GRADING CONTRACTOR SHALL BACKFILL THE PAVING SLAB AND FINE GRADE THE RIGHT OF WAY AS SOON AFTER THE PAVING AS POSSIBLE. ALL AREAS SHALL BE SEEDED IN ACCORDANCE WITH CITY OF ALTOONA SUPPLEMENTAL SPECIFICATIONS AND THE CURRENT VERSION OF SUDAS.
2. SUBGRADE PREPARATION AND PAVEMENTS WILL BE CONSTRUCTED FOLLOWING RECOMMENDATIONS IN THE SOILS REPORT. APPROVED SOILS ENGINEER MUST SIGN OFF ON SUBASE PRIOR TO ANY PAVEMENT BEING PLACED.
3. SEE DETAILS FOR ALL PAVEMENT THICKNESS.
4. DETECTABLE WARNING PANELS CALLED OUT ON PLANS SHALL BE PER A.D.A. REGULATIONS. ALL TRUNCATED DOME PANELS SHALL BE YELLOW CAST IRON FOR THE 8'-10' WIDE SIDEWALKS AND YELLOW FIBERGLASS PANELS FOR ALL OTHER SIDEWALKS, PER CITY STANDARD.
5. ALL WALKS, PARKING LOTS, HANDICAP PARKING, RAMPS, ETC. SHALL COMPLY WITH ALL A.D.A. AND CITY CODES. HANDICAP PARKING SIGNAGE IS REQUIRED FOR ALL HANDICAP STALLS AND SHALL BE CONSIDERED INCIDENTAL. IN EVENT OF A DISCREPANCY BETWEEN THE PLANS AND THE A.D.A./CITY CODES THE A.D.A./CITY CODES SHALL GOVERN. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING A.D.A. CODES ARE MET.
6. ALL PAVEMENT REPLACEMENT SHALL COMPLY WITH THE ALTOONA STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS.
7. LINSEED OIL IS REQUIRED FOR ANY PAVING THAT IS POURED AFTER SEPTEMBER 30TH, APPLY PER CITY SPECIFICATIONS.

UTILITY NOTES:

1. QUANTITY CALLOUTS ON PIPE LENGTHS ARE APPROXIMATE AND SHOULD BE USED FOR REFERENCE ONLY.
2. THE CONTRACTOR SHALL COORDINATE THE ADJUSTMENT OF ANY AND ALL EXISTING AND PROPOSED UTILITIES TO PROPOSED GRADES. EXISTING UTILITIES SHALL BE RAISED OR LOWERED IN ACCORDANCE WITH THE UTILITY OWNER REQUIREMENTS. ANY NECESSARY ADJUSTMENTS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
3. ALL PROPOSED RCP STORM SEWER PIPE JOINTS SHALL BE FABRIC WRAPPED AND THE LAST 3 PIPE SECTIONS ON THE APRON SHALL BE TIED WITH RF-14 TYPE II CONNECTORS. ALL APRONS SHALL HAVE A STANDARD FOOTING AND TRASH GUARD. ALL FLARED END SECTIONS SHALL HAVE A 3' WIDE CLAY WATERSTOP (SUDAS SW-105).
4. ALL STRUCTURE SIZES CALLED OUT ON PLANS ARE MINIMUM INSIDE WALL DIMENSIONS.
5. ALL STRUCTURES CALLED OUT AS "MODIFIED" OR "SPECIAL" SHALL BE ENGINEERED BY THE PRECASTER TO ENSURE STRUCTURE STABILITY. MODIFICATIONS INCLUDE ADDITIONAL WALL LENGTH TO ACCOUNT FOR LARGE PIPE DIAMETERS AND ADDITIONAL WALL WIDTH & BASE DEPTH TO ACCOUNT FOR DEEPER STRUCTURES. ANY AND ALL MODIFICATIONS TO STANDARD STRUCTURES SHALL BE CONSIDERED INCIDENTAL TO BID.
6. ALL UTILITIES SHALL BE TESTED TO CITY OF ALTOONA STANDARDS AND THE CITY OF ALTOONA ENGINEERING DEPARTMENT SHALL WITNESS ALL TESTING.
7. ALL WATER LINE MATERIAL SHALL BE C-900 UNLESS NOTED OTHERWISE ON PLANS. SIZE OF WATERMAIN AS SHOWN ON PLANS.
8. THRUST BLOCKS SHALL BE INSTALLED AS REQUIRED AND SHALL BE CONSIDERED INCIDENTAL TO WATERMAIN CONSTRUCTION.
9. PROPOSED WATERMAIN SHALL BE PRESSURE TESTED, BACTERIA TESTED AND CHLORINATED. THE FILLING OF THE WATER MAIN SHALL BE DONE BY THE CITY OF ALTOONA.
10. TRACER WIRE SHALL BE ADDED TO ALL WATER MAIN, AND BROUGHT TO THE SURFACE AT EVERY HYDRANT.
11. ALL HYDRANTS WILL IMMEDIATELY BE COVERED WITH A BLACK PLASTIC BAG (OR EQUIVALENT) ONCE THE HYDRANT IS INSTALLED. THE CITY OF ALTOONA WILL NOTIFY THE CONTRACTOR WHEN THE BAGS CAN BE REMOVED.
12. THE MINIMUM HYDRANT LEAD SHALL BE 3.5 FEET.
13. ANY AND ALL HYDRANT AND VALVE EXTENSIONS, TOGETHER WITH VERTICAL BENDS, SHALL BE CONSIDERED INCIDENTAL TO WATER MAIN CONSTRUCTION. NO ADDITIONAL PAYMENT WILL BE PROVIDED FOR INCIDENTAL ITEMS.
14. ALL UTILITY CONNECTIONS TO EXISTING UTILITIES SHALL BE COORDINATED WITH THE CITY OF ALTOONA ENGINEERING DEPARTMENT.
15. ALL STORM STRUCTURES IN THE ROUNDABOUT AREA ARE TO BE CAST IN PLACE.
16. PER CITY THERE IS AN ABAONDONED FORCE MAIN ON THE SOUTH SIDE OF 8TH ST SE, IF ENCOUNTERED DURING CONSTRUCTION CONTRACTOR TO CAP ENDS AND REMOVE AS NEEDED, APPROXIMATE LOCATION SHOWN ON PLANS FOR REFERENCE PURPOSES ONLY.

UTILITY CONFLICT NOTES:

5. UTILITY CONFLICTS MAY EXIST ACROSS THE SITE WITH NEW UTILITIES, GRADING, PAVING ETC. MOST UTILITY CONFLICTS HAVE BEEN CALLED OUT FOR CONTRACTOR CONVENIENCE.
6. CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY CONFLICTS THAT ARE EITHER CALLED OUT ON THE PLANS OR THAT CAN BE SEEN ON THE PLANS BETWEEN AN EXISTING UTILITY AND PROPOSED CONSTRUCTION.
7. CONTRACTOR SHALL USE O-RING GASKET JOINTS FOR STORM SEWER AND SANITARY SEWER AT CROSSINGS WITH WATER WHERE STORM OR SANITARY SEWER CROSSES OVER OR LESS THAN 18 INCHES BELOW WATER. O-RING GASKET JOINTS SHALL BE EXTENDED UNTIL WATER AND SEWER ARE AT LEAST 10 FEET APART. ALL O-RING GASKET JOINTS SHALL BE CONSIDERED INCIDENTAL TO BID. IF N-12 PIPE IS USED FOR STORM SEWER, CONTRACTOR SHALL USE WATER-TIGHT N-12 PIPE, CENTERED ON THE CROSSING.
8. FOR ALL CRITICAL CROSSINGS WITH EXISTING UTILITIES, THE ELEVATION OF THE EXISTING UTILITY SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. NOTIFY BISHOP ENGINEERING PRIOR TO CONSTRUCTION IF A CONFLICT EXISTS.

PAVEMENT SAWCUT NOTES:

1. CONTRACTOR TO PROVIDE SAWCUT JOINTING PLAN TO JOEL JACKSON, BISHOP ENGINEERING (515-276-0467 OR JJACKSON@BISHOPENGR.COM) PRIOR TO ANY CONCRETE PAVEMENT INSTALLATION.
2. PAVEMENT MAY BE REQUIRED TO BE REMOVED AND REPLACED IF PLACED WITHOUT AN APPROVED PLAN.
3. LONGITUDINAL JOINTS IN DRIVE LANES & THE OUTER MOST JOINT OF ALL PARKING AREAS SHALL BE SUDAS TYPE 'L-1' OR 'L-2' JOINTS AND HAVE STEEL. INTERIOR PARKING LOT JOINTS, OTHER THAN THE OUTER MOST JOINT, DO NOT NEED STEEL AND SHALL BE SUDAS TYPE 'B' OR TYPE 'K' JOINTS.
4. ALL TRANSVERSE JOINTS SHALL BE SUDAS TYPE 'C' OR TYPE 'DW' JOINTS WITH STEEL IN THE CASE OF A DAY'S WORK JOINT.
5. THIS PROJECT INCLUDES SAWCUTTING OR CONCRETE GRINDING SO PROTECTION OF STORM SEWERS AND DRAINAGE WAYS WILL NEED TO BE PROVIDED FROM SLURRY FROM THE CONCRETE OPERATIONS. SEE SWPPP SHEET AND NARRATIVE FOR ADDITIONAL DETAILS.

STORM TELEVISING NOTES:

1. CONTRACTOR IS REQUIRED TO TELEVISE ALL STORM SEWER SYSTEM PRIOR TO PAVING OPERATIONS.
2. CONTRACTOR SHALL SEND VIDEO INSPECTION TO THE ENGINEER FOR APPROVAL PRIOR TO PAVING.
3. CONTRACTOR SHALL PROVIDE COPIES OF THE REPORTS AND VIDEOS TO THE CITY OF ALTOONA FOR APPROVAL PRIOR TO PAVING.

SWPPP NOTES:

1. STORM WATER POLLUTION PREVENTION PLAN HAS BEEN PREPARED BY BISHOP ENGINEERING. CONTACT JOEL JACKSON (515-276-0467) FOR A COPY OF THE SWPPP.
2. THIS PROJECT INCLUDES SAWCUTTING OR CONCRETE GRINDING SO PROTECTION OF STORM SEWERS AND DRAINAGE WAYS WILL NEED TO BE PROVIDED FROM SLURRY FROM THE CONCRETE OPERATIONS. SEE SWPPP SHEET AND NARRATIVE FOR ADDITIONAL DETAILS.

SOILS REPORT:

1. REFERENCE PROJECT SOILS REPORTS (ALLENDER BUTZKE PN 211157 & 221190) FOR ADDITIONAL SOILS INFORMATION INCLUDING BUT NOT LIMITED TO SUBGRADE INFORMATION, FOOTING DESIGN, AND ANY POSSIBLE OVER EXCAVATION DUE TO POOR SOILS. PAVEMENT SECTIONS ON THE PLANS GOVERN OVER PAVEMENT THICKNESS IN THE SOILS REPORT.

WETLAND NOTES:

1. A WETLANDS STUDY WAS PREPARED BY EMMONS AND OLIVIER RESOURCES, INC.(DATED 11.29.21) AND DETERMINED THERE ARE NO EXISTING WETLANDS WITHIN THE PROJECT LIMITS.

STAKING NOTES:

1. CONTRACTOR IS REQUIRED TO HAVE ALL STAKING DONE UNDER THE SUPERVISION OF A LICENSED LAND SURVEYOR AND IN COORDINATION WITH THE PROJECT ENGINEER.
2. CONTRACTOR IS REQUIRED TO HAVE ALL STAKING DONE DIRECTLY UNDER THE GENERAL CONTRACTOR BY A SINGLE COMPANY.
3. STAKING DOES NOT RELIEVE CONTRACTOR OF ULTIMATE RESPONSIBILITY TO CONSTRUCT THE PROJECT PER PLAN.

EARTHWORK BALANCE NOTES:

1. SOIL IMPORT OR EXPORT ON THIS PROJECT SHALL BE CONSIDERED INCIDENTAL AND WILL NOT BE MEASURED OR PAID FOR SEPARATELY. CONTRACTOR RESPONSIBLE FOR MAKING THE SITE EARTHWORK BALANCE.
2. THIS INCLUDES BUT IS NOT LIMITED TO TOPSOIL, POOR SOILS AND STRUCTURAL FILL NECESSARY TO MEET PROJECT PLANS AND SPECIFICATIONS.

REQUIRED AS-BUILTS:

THE OWNER SHALL BE RESPONSIBLE FOR COST OF AS-BUILT TOPO OF ALL STORM SEWER, RAMPS, LANDINGS, CROSSWALKS AND PUBLIC IMPROVEMENTS. CONTRACTOR SHALL CONTACT BISHOP ENGINEERING (JOEL JACKSON AT 515-276-0467) TO PERFORM SAID AS-BUILT SURVEYS. IF ANYTHING HAS BEEN CONSTRUCTED INCORRECTLY, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUBSEQUENT AS-BUILT SURVEYS UNTIL ISSUES HAVE BEEN RECTIFIED.

SPECIFICATIONS NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, THE CITY OF ALTOONA SUPPLEMENTAL SPECIFICATIONS AND SUDAS SPECIFICATIONS, 2023 EDITION.
2. FOR ANY DISCREPANCIES BETWEEN THE PROJECT SPECIFICATIONS AND THE SUDAS SPECIFICATIONS, THE PROJECT SPECIFICATION SHALL GOVERN UNLESS DIRECTED OTHERWISE BY THE CITY OF ALTOONA OR THE PROJECT ENGINEER.
3. FOR ALL SPECIFICATION DISCREPANCIES, PROJECT ENGINEER SHALL BE CONTACTED PRIOR TO PROCEEDING WITH CONSTRUCTION. IF ENGINEER IS NOT CONTACTED, CONTRACTOR SHALL BE RESPONSIBLE FOR ANY PROBLEMS THAT RESULT FROM SAID DISCREPANCIES.
4. FOR ALL SPECIFICATION DISCREPANCIES, CONTRACTOR MUST OBTAIN WRITTEN APPROVAL FROM THE CITY OF ALTOONA ENGINEERING DEPARTMENT FOR ANY CHANGES TO PROPOSED SITE INFRASTRUCTURE OR GRADES PRIOR TO PROCEEDING WITH ANY CHANGES.

FARM TILE NOTES:

1. ACTIVE EXISTING FIELD TILES ENCOUNTERED DURING CONSTRUCTION SHALL BE REPAIRED, REROUTED, OR CONNECTED TO PUBLIC OR PRIVATE STORM SEWER TO REMAIN IN SERVICE. CONNECT TO STORM SEWER WITH AN INSERT-A-TEE OR DIRECTLY TO A STORM STRUCTURE.
2. IT IS ANTICIPATED THAT THE SITE CONTAINS FIELD TILES, HOWEVER, LIMITED INFORMATION IS AVAILABLE.
3. THIS WORK WILL BE ELIGIBLE FOR A CHANGE ORDER IF, AND ONLY IF, PROPOSED SITE STORM SEWER IS NOT WITHIN 50 FEET OF THE FIELD TILE.
4. CONTRACTOR SHALL PROVIDE AS-BUILTS OF FARM TILES TO BISHOP ENGINEERING WITH BOTH ELEVATIONS AND STATE PLANE COORDINATES.

TRAFFIC CONTROL NOTES:

1. SEE J SHEETS FOR STAGING AND TRAFFIC CONTROL PLANS.
2. IF LANE CLOSURES ARE NECESSARY, CONTRACTOR SHALL PROVIDE FLAGGERS OR TEMPORARY SIGNALS ON BOTH ENDS OF LANE CLOSURE IN ACCORDANCE WITH IOWA DOT STANDARD ROAD PLANS TC-213 OR TC-215. LANE CLOSURES REQUIRE AT LEAST 5 DAYS ADVANCED NOTICE TO THE PUBLIC WITH CHANGEABLE MESSAGE SIGNS. CONTRACTOR SHALL COORDINATE WITH CITY ON CHANGEABLE MESSAGE SIGN VERBIAGE. LANE CLOSURE TIMES MUST ACCOUNT FOR PAVEMENT SAWCUT AND REMOVAL, GRADING, SUBGRADE PREPARATION, AND PAVING.

MAINTENANCE BOND NOTES:

1. CONTRACTOR REQUIRED TO PROVIDE 4-YEAR MAINTENANCE BOND TO CITY OF ALTOONA IN COMPLIANCE WITH CITY AND SUDAS REQUIREMENTS FOR ALL PUBLIC IMPROVEMENTS.

PROJECT SCHEDULE:

BEGIN CONSTRUCTION - APRIL 2023
COMPLETE CONSTRUCTION - AUGUST 2024

Bishop Engineering
"Planning Your Successful Development"
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Civil Engineering & Land Surveying
Established 1959

FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE.
CONSTRUCTION PLANS

GENERAL NOTES

REFERENCE NUMBER: 200605

DRAWN BY: EWM

CHECKED BY: JEJ

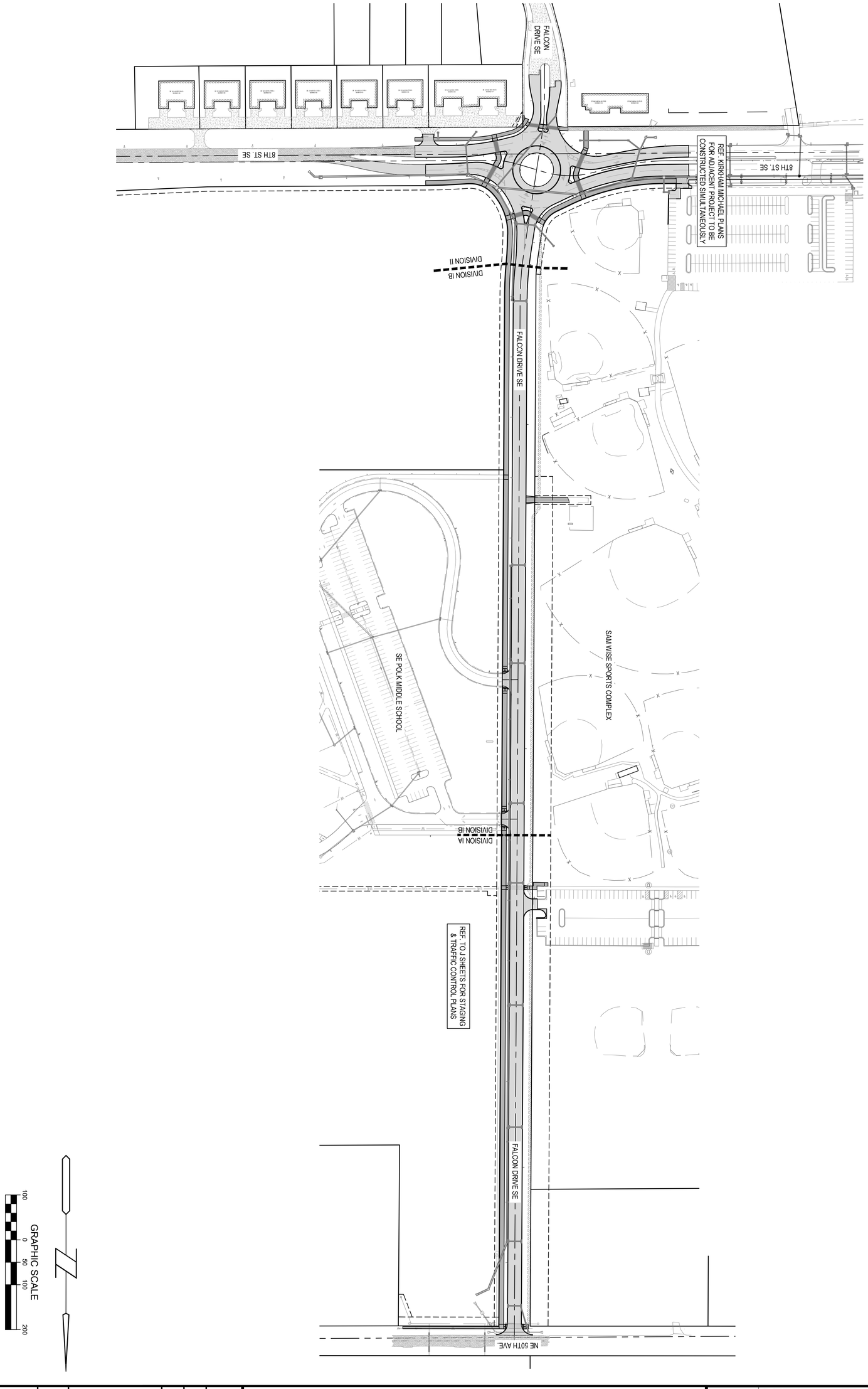
REVISION DATE:

PROJECT NUMBER: 200605-2

SHEET NUMBER: A0.2

PRELIMINARY- NOT FOR CONSTRUCTION

L:\LAND PROJECTS 2020\200605-2 SE POLK MS FALCON AND ROUNDABOUT\DWG\AZ GENERAL PLAN MAP.DWG



SHEET NUMBER: A0.3	PROJECT NUMBER: 200605-2	DRAWN BY: EWM	REFERENCE NUMBER: 200605
		CHECKED BY: JEJ	
		REVISION DATE:	

FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE.

CONSTRUCTION PLANS

GENERAL PLAN MAP

Bishop Engineering
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Des Moines, Iowa 50322-3825
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Civil Engineering & Land Surveying Established 1959

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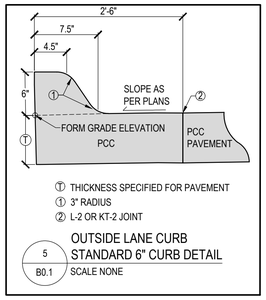
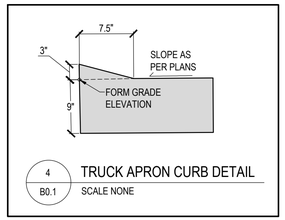
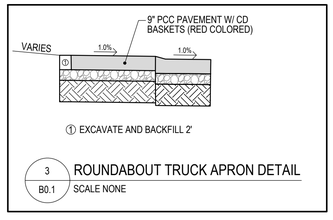


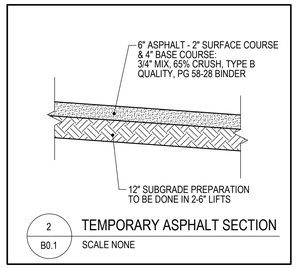
5 / B0.1 OUTSIDE LANE CURB STANDARD 6" CURB DETAIL
SCALE NONE



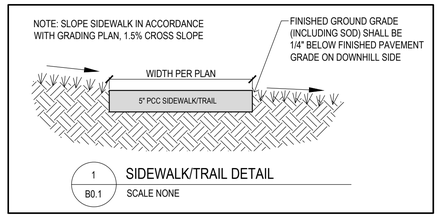
4 / B0.1 TRUCK APRON CURB DETAIL
SCALE NONE



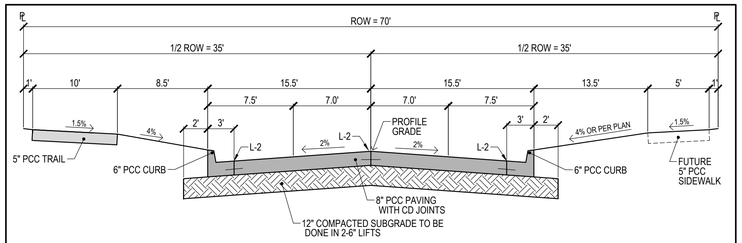
3 / B0.1 ROUNDABOUT TRUCK APRON DETAIL
SCALE NONE



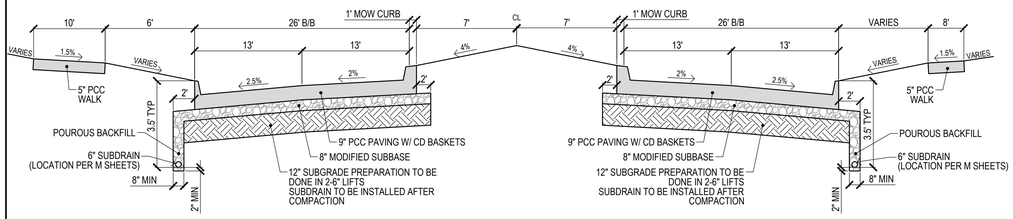
2 / B0.1 TEMPORARY ASPHALT SECTION
SCALE NONE



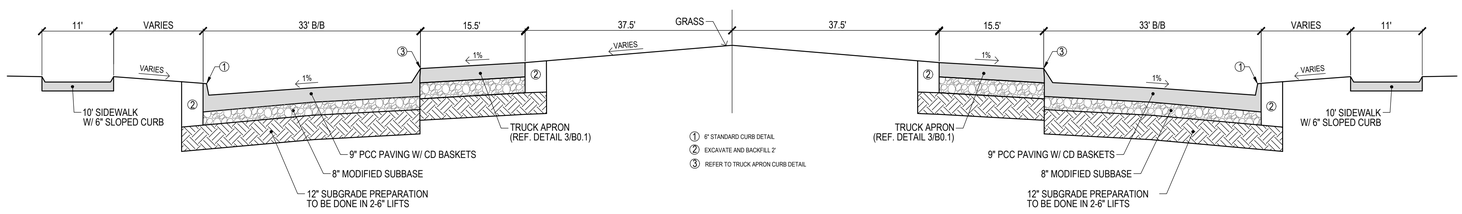
1 / B0.1 SIDEWALK/TRAIL DETAIL
SCALE NONE



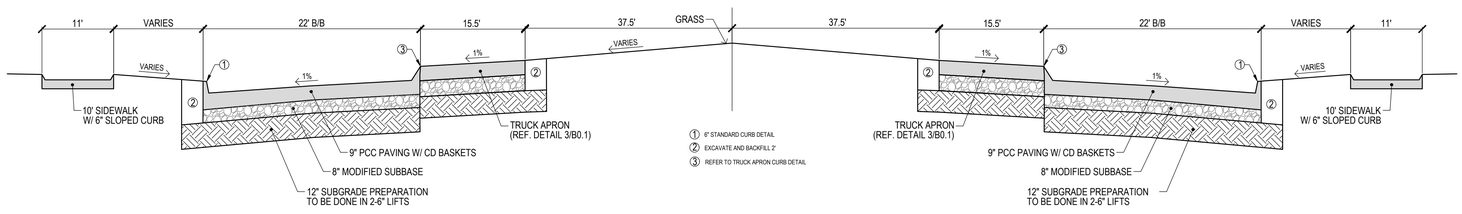
7 / B0.1 31' B/B TYPICAL CROSS SECTION FALCON DRIVE SE STA 0+00 - 23+95.40
SCALE NONE



6 / B0.1 8TH ST SE TYPICAL CROSS SECTION
SCALE NONE



8 / B0.1 ROUNDABOUT CROSS SECTION (NORTH-SOUTH)
SCALE NONE



9 / B0.1 ROUNDABOUT CROSS SECTION (EAST-WEST)
SCALE NONE

Bishop Engineering
"Planning Your Successful Development"
3501 104th Street
Des Moines, Iowa 50322-3825
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Civil Engineering & Land Surveying Established 1959

FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE.
CONSTRUCTION PLANS

TYPICAL SECTIONS & DETAILS

REFERENCE NUMBER: 200605
DRAWN BY: EWM
CHECKED BY: JEJ
REVISION DATE:
PROJECT NUMBER: 200605-2
SHEET NUMBER: B0.1

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PRELIMINARY- NOT FOR CONSTRUCTION

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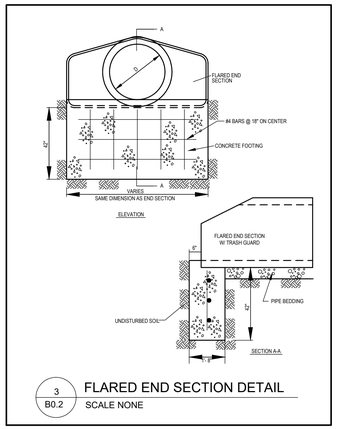
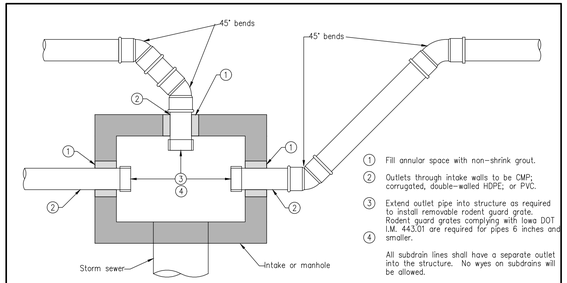
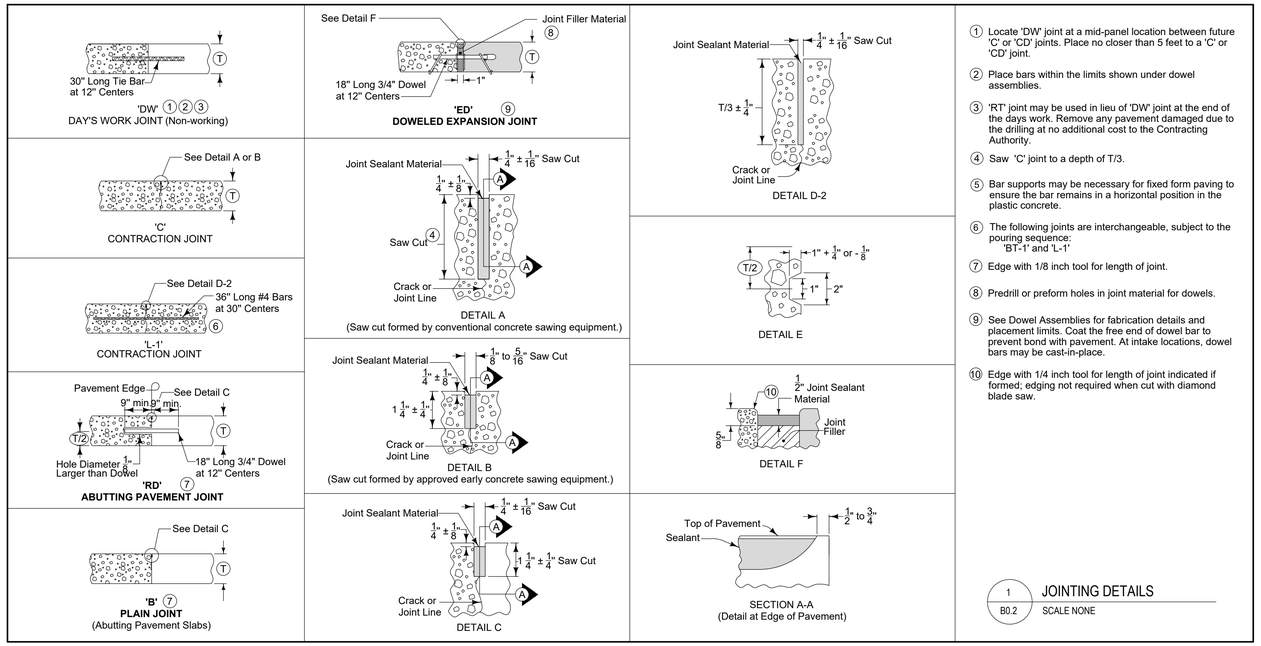


3 / B0.2 FLARED END SECTION DETAIL
SCALE NONE



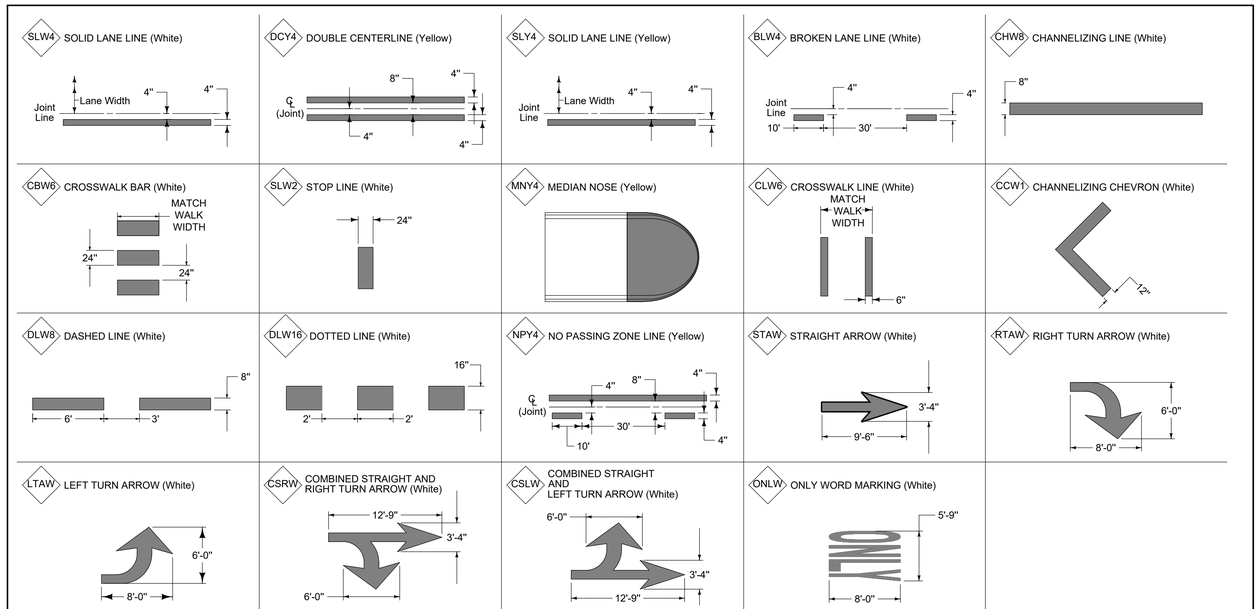
1. Fill annular space with non-shrink grout.
2. Outlets through intake walls to be CMP; corrugated, double-walled HDPE; or PVC.
3. Extend outlet pipe into structure as required to install removable rodent guard grate. Rodent guard grates complying with Iowa DOT I.M. 443.01 are required for pipes 6 inches and smaller.
4. All subdrain lines shall have a separate outlet into the structure. No wyes on subdrains will be allowed.

4 / B0.2 SUBDRAIN OUTLET DETAIL
SCALE NONE



1. Locate 'DW' joint at a mid-panel location between future 'C' or 'CD' joints. Place no closer than 5 feet to a 'C' or 'CD' joint.
2. Place bars within the limits shown under dowel assemblies.
3. 'RT' joint may be used in lieu of 'DW' joint at the end of the days work. Remove any pavement damaged due to the drilling at no additional cost to the Contracting Authority.
4. Saw 'C' joint to a depth of T/3.
5. Bar supports may be necessary for fixed form paving to ensure the bar remains in a horizontal position in the plastic concrete.
6. The following joints are interchangeable, subject to the pouring sequence: 'BT-1' and 'L-1'
7. Edge with 1/8 inch tool for length of joint.
8. Predrill or preform holes in joint material for dowels.
9. See Dowel Assemblies for fabrication details and placement limits. Coat the free end of dowel bar to prevent bond with pavement. At intake locations, dowel bars may be cast-in-place.
10. Edge with 1/4 inch tool for length of joint indicated if formed; edging not required when cut with diamond blade saw.

1 / B0.2 JOINTING DETAILS
SCALE NONE



Notes:
1. Layouts shown are for typical installations. Drawings are oriented to represent direction of traffic moving from left to right.
2. Lane layouts shown are typical.
3. Centerlines and lane lines may be painted either side of centerline.
4. Center markings within the lane.
5. All dimensions shown are nominal. For proper proportion details, see current MUTCD Standard Highway Signs and Markings booklet.
6. Pavement word, symbol, and arrow markings are to be proportionally scaled to fit within the width of the facility upon which they are applied.

2 / B0.2 TYPICAL PAVEMENT MARKING DETAILS
SCALE NONE

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FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE.
CONSTRUCTION PLANS

TYPICAL SECTIONS & DETAILS

REFERENCE NUMBER: 200605

DRAWN BY: EWM

CHECKED BY: JEJ

REVISION DATE:

PROJECT NUMBER: 200605-2

SHEET NUMBER: B0.2

FOR CONSTRUCTION

PRELIMINARY- NOT FOR CONSTRUCTION

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ESTIMATED PROJECT QUANTITIES

ITEM No.	SUDAS REFERENCE	SUDAS ITEM CODE	BID ITEM	UNIT	DIVISION IA QUANTITY	DIVISION IB QUANTITY	DIVISION II QUANTITY
2	DIVISION 2 - EARTHWORK						
2.01	2010, 1.08, C	2010-C	Clearing and Grubbing	LS	1	1	1
2.02	2010, 1.08, D, 1	2010-D-1	Topsoil, On-site	CY	1340	1470	3835
2.03	2010, 1.08, E	2010-E	Excavation, Class 10	LS	1	1	1
2.04	2010, 1.08, G	2010-G	Subgrade Preparation	SY	100	100	8130
2.05	2010, 1.08, I	2010-I	Subgrade Preparation, 8" Modified	TN			2859
2.06	2010, 1.08, K, 1	2010-K-1	Removal of Storm Structure	EA			7
2.07	2010, 1.08, K, 2, c	2010-K-2-c	Removal of Storm Sewer	LF			463
4	DIVISION 4 - SEWERS AND DRAINS						
4.01	4020, 1.08, A, 1	4020-A-1	Storm Sewer, Trenched, 15" RCP	LF	213	725	906
4.02	4020, 1.08, A, 1	4020-A-1	Storm Sewer, Trenched, 18" RCP	LF	376	68	1
4.03	4020, 1.08, A, 1	4020-A-1	Storm Sewer, Trenched, 24" RCP	LF	520		124
4.04	4020, 1.08, A, 1	4020-A-1	Storm Sewer, Trenched, 30" RCP	LF	141		727
4.05	4030, 1.08, B	4030-B	Pipe Apron, 15" RCP with footing & guard	EA			1
4.06	4030, 1.08, B	4030-B	Pipe Apron, 30" RCP with footing & guard	EA	1		1
4.07	4040, 1.08, A	4040-A	Subdrain, 6" diameter	LF			1197
4.08	4040, 1.08, C	4040-C	Subdrain Cleanout	EA			14
5	DIVISION 5 - WATER MAINS AND APPURTENANCES						
5.01	5020, 1.08, A	5020-A	Valve, 16"	EA		1	
5.02	5020, 1.08, G	5020-G	Valve Box Adjustment	EA			2
5.03	5020, 1.08, J	5020-J	Fire Hydrant Assembly Relocation	EA			1
6	DIVISION 6 - STRUCTURES FOR SANITARY AND STORM SEWERS						
6.01	6010, 1.08, A	6010-A	Manhole, SW-401, 48"	EA	1		2
6.02	6010, 1.08, A	6010-A	Manhole, SW-401, 60"	EA	1		2
6.03	6010, 1.08, A	6010-A	Manhole, SW-401, 72"	EA			1
6.04	6010, 1.08, B	6010-B	Intake, SW-505 with SW-603 type R casting	EA	6	4	5
6.05	6010, 1.08, B	6010-B	Intake, SW-506 with SW-603 type R casting	EA	4	4	4
6.06	6010, 1.08, B	6010-B	Intake, SW-511with SW-604 type 6 casting	EA			7
7	DIVISION 7 - STREETS AND RELATED WORK						
7.01	7010, 1.08, A	7010-A	Pavement, PCC, 7" Non-reinforced	SY	136	131	238
7.02	7010, 1.08, A	7010-A	Pavement, PCC, 8" with CD Baskets	SY	3878	4520	
7.03	7010, 1.08, A	7010-A	Pavement, PCC, 9" with CD Baskets	SY			5239
7.04	7010, 1.08, A	7010-A	Pavement, PCC, 9" with CD Baskets, Colored	SY			695
7.05	7010, 1.08, G	7010-G	Concrete Median Mow Strip	LF			1254
7.06	7020, 1.08, B	7020-B	Pavement, HMA, 6"	SY			981
7.07	7030, 1.08, E	7030-E	Sidewalk, PCC, 5"	SY	1435	1354	1210
7.08	7030, 1.08, G	7030-G	Detectable Warning Panels	SF	72	80	320
7.09	7040, 1.08, H	7040-H	Pavement Removal, 8th Street	SY			2388
7.10	7040, 1.08, H	7040-H	Pavement Removal	SY	60	735	1668
8	DIVISION 8 - TRAFFIC CONTROL						
8.01	8020, 1.08, C	8020-C	Painted Pavement Markings, Durable	LS	1	1	1
8.02	8030, 1.08, A	8030-A	Temporary Traffic Control	LS	1	1	1
9	DIVISION 9 - SITE WORK AND LANDSCAPING						
9.01	9010, 1.08, B	9010-B	Hydraulic Seeding, Seeding, Fertilizing, and Mulching	AC	1.5	1.5	3
9.02	9030, 1.08, A	9030-A	Roundabout Landscaping & decorative rock	LS			1
9.03	9040, 1.08, A, 1	9040-A-1	SWPPP Preparation & Erosion Control	LS	1	1	1
9.04	9040, 1.08, J	9040-J	Rip Rap, Class 'D'	TON	45		45
9.05	9060, 1.08, A, 3	9060-A	Chain Link Fence, 48" black vinyl with mow strip	LF			277
11	DIVISION 11 - MISCELLANEOUS						
11.01	11,010, 1.08, A	11,010-A	Construction Staking	LS	1	1	1
11.02	11,020 1.08, A	11,020-A	Mobilization	LS	1	1	1
11.03			Signage	LS	1	1	1
11.04			Tree Removal	LS			1

ESTIMATED PROJECT QUANTITIES

ITEM No.	SUDAS REFERENCE	SUDAS ITEM CODE	BID ITEM	DESCRIPTION
				The most recent edition of the SUDAS standard specifications and the City of Altoona standard specifications shall apply to all work performed on this project except as otherwise noted. All references to sections and figures are to theSUDAS standard specifications. In the event of a discrepancy between the SUDAS standard specification and the City of Altoona standard specifications the project engineer shall be contacted prior to proceeding with construction. If engineer is not contacted, contractor shall be responsible for any problems that result from said discrepancies. For all specification discrepancies, contractor must obtain written approval from the City of Altoona for any changes to proposed infrastructure or grades prior to proceeding with any changes.
2	DIVISION 2 - EARTHWORK			
2.01	2010, 1.08, C	2010-C	Clearing and Grubbing	Refer to R sheets for limits. Includes tree removal.
2.02	2010, 1.08, D, 1	2010-D-1	Topsoil, On-site	Quantity refers to amount of topsoil to be preserved from excavation for backfilling of proposed pavement and includeds 8" of topsoil placed prior to seeding on disturbed areas
2.03	2010, 1.08, E	2010-E	Excavation, Class 10	a. Site preparation for, and the construction of, embankment, fills, shoulder backfill, and backfill behind curbs. b. Overhaul. c. Finishing the soil surface, including roadways, shoulders, behind curbs, side ditches, slopes, and borrow pits. d. Repair or replacement of any fences that have been unnecessarily damaged or removed.
2.04	2010, 1.08, G	2010-G	Subgrade Preparation	Includes excavating, manipulating, replacing, compacting, and trimming to the proper grade as shown on typical paving section detail.
2.05	2010, 1.08, I	2010-I	Subgrade Preparation, 8" Modified	Includes furnishing, placing, compacting, and trimming to the proper grade as shown on typical paving section detail.
2.06	2010, 1.08, K, 1	2010-K-1	Removal of Storm Structure	Removal and disposal of storm structure, refer to R sheets for locations.
2.07	2010, 1.08, K, 2, c	2010-K-2-c	Removal of Storm Sewer	Removal and disposal of storm pipe, refer to R sheets for locations.
4	DIVISION 4 - SEWERS AND DRAINS			
4.01	4020, 1.08, A, 1	4020-A-1	Storm Sewer, Trenched, 15" RCP	Trench excavation, dewatering, furnishing bedding material, placing bedding and backfill material, joint wrapping, wyes and other fittings, pipe joints, pipe connections, testing, and inspection, refer to M sheets
4.02	4020, 1.08, A, 1	4020-A-1	Storm Sewer, Trenched, 18" RCP	Trench excavation, dewatering, furnishing bedding material, placing bedding and backfill material, joint wrapping, wyes and other fittings, pipe joints, pipe connections, testing, and inspection, refer to M sheets
4.03	4020, 1.08, A, 1	4020-A-1	Storm Sewer, Trenched, 24" RCP	Trench excavation, dewatering, furnishing bedding material, placing bedding and backfill material, joint wrapping, wyes and other fittings, pipe joints, pipe connections, testing, and inspection, refer to M sheets
4.04	4020, 1.08, A, 1	4020-A-1	Storm Sewer, Trenched, 30" RCP	Trench excavation, dewatering, furnishing bedding material, placing bedding and backfill material, joint wrapping, wyes and other fittings, pipe joints, pipe connections, testing, and inspection, refer to M sheets
4.05	4030, 1.08, B	4030-B	Pipe Apron, 15" RCP	Trench excavation, dewatering, furnishing bedding material, placing bedding and backfill material, connectors, and other appurtenances, installing apron and guard, refer to M sheets.
4.06	4030, 1.08, B	4030-B	Pipe Apron, 30" RCP	Trench excavation, dewatering, furnishing bedding material, placing bedding and backfill material, connectors, and other appurtenances, installing apron and guard, refer to M sheets.
4.07	4040, 1.08, A	4040-A	Subdrain, 6" diameter	Refer to M sheets for locations and B sheets for typical sections and details. Includes the connection to structures and caps, all work required for subdrain connection shall be considered incidental.
4.08	4040, 1.08, C	4040-C	Subdrain Cleanout	All cleanouts shall be SUDA type A-1 cleanouts. Cleanouts in non-paved areas shall have a 20"x20" min concrete pad. Refer to M sheets for locations and B sheets for construction detail.
5	DIVISION 5 - WATER MAINS AND APPURTENANCES			
5.01	5020, 1.08, A	5020-A	Valve, 16"	Refer to M sheets for location. All valves shall be resilient wedge gate valves. Any valve extensions necessary shall be considered incidental. Contractor shall install tracer wire to run up the exterior of valve box and terminate inside the valve box. Tracer wire shall be considered incidental.
5.02	5020, 1.08, G	5020-G	Valve Box Adjustment	Item is used for existing valves at existing ground grade. Contractor shall raise or lower the valve to proposed grade. All materials and work necessary to bring existing valve to proposed grade shall be considered incidental. Refer to M sheets for location.
5.03	5020, 1.08, J	5020-J	Fire Hydrant Assembly Relocation	Remove, salvage and reinstall existing fire hydrants as shown on the M sheets. Item includes the capping of the line as necessary per any and all city requirements. Refer to M sheets for location.
6	DIVISION 6 - STRUCTURES FOR SANITARY AND STORM SEWERS			
6.01	6010, 1.08, A	6010-A	Manhole, SW-401, 48"	Excavation, furnishing bedding material, placing bedding and backfill material, compaction, base, structural concrete, reinforcing steel, precast units (if used), concrete fillets, pipe connections, castings, and adjustment rings, refer to M sheets. Structures in roundabout area shall be cast in place.
6.02	6010, 1.08, A	6010-A	Manhole, SW-401, 60"	Excavation, furnishing bedding material, placing bedding and backfill material, compaction, base, structural concrete, reinforcing steel, precast units (if used), concrete fillets, pipe connections, castings, and adjustment rings, refer to M sheets. Structures in roundabout area shall be cast in place.
6.03	6010, 1.08, A	6010-A	Manhole, SW-401, 72"	Excavation, furnishing bedding material, placing bedding and backfill material, compaction, base, structural concrete, reinforcing steel, precast units (if used), concrete fillets, pipe connections, castings, and adjustment rings, refer to M sheets. Structures in roundabout area shall be cast in place.
6.04	6010, 1.08, B	6010-B	Intake, SW-505 with SW-603 type R casting	Excavation, furnishing bedding material, placing bedding and backfill material, compaction, base, structural concrete, reinforcing steel, precast units (if used), concrete fillets, pipe connections, castings, and adjustment rings, refer to M sheets. Structures in roundabout area shall be cast in place.
6.05	6010, 1.08, B	6010-B	Intake, SW-506 with SW-603 type R casting	Excavation, furnishing bedding material, placing bedding and backfill material, compaction, base, structural concrete, reinforcing steel, precast units (if used), concrete fillets, pipe connections, castings, and adjustment rings, refer to M sheets. Structures in roundabout area shall be cast in place.
6.06	6010, 1.08, B	6010-B	Intake, SW-511 with SW-604 type 6 casting	Excavation, furnishing bedding material, placing bedding and backfill material, compaction, base, structural concrete, reinforcing steel, precast units (if used), concrete fillets, pipe connections, castings, and adjustment rings, refer to M sheets. Structures in roundabout area shall be cast in place.
7	DIVISION 7 - STREETS AND RELATED WORK			
7.01	7010, 1.08, A	7010-A	Pavement, PCC, 7" Non-reinforced	Includes final trimming of subgrade or subbase, integral curb, joints and sealing, surface curing and pavement protection, safety fencing, concrete for rigid headers, boxouts for fixtures, and pavement smoothness testing, refer to B and E sheets. Pavement shall be a C-4 mix. Coarse aggregate for pcc pavement shall be class 3 durability.
7.02	7010, 1.08, A	7010-A	Pavement, PCC, 8" with CD Baskets	Includes final trimming of subgrade or subbase, integral curb, bars and reinforcement, joints and sealing, surface curing and pavement protection, safety fencing, concrete for rigid headers, boxouts for fixtures, and pavement smoothness testing, refer to B and E sheets. Pavement shall be a C-4 mix. Coarse aggregate for pcc pavement shall be class 3 durability.
7.03	7010, 1.08, A	7010-A	Pavement, PCC, 9" with CD Baskets	Includes final trimming of subgrade or subbase, integral curb, bars and reinforcement, joints and sealing, surface curing and pavement protection, safety fencing, concrete for rigid headers, boxouts for fixtures, and pavement smoothness testing, refer to B and E sheets. Pavement shall be a C-4 mix. Coarse aggregate for pcc pavement shall be class 3 durability.
7.04	7010, 1.08, A	7010-A	Pavement, PCC, 9" with CD Baskets, Colored	Includes final trimming of subgrade or subbase, integral curb, bars and reinforcement, joints and sealing, surface curing and pavement protection, safety fencing, concrete for rigid headers, boxouts for fixtures, and pavement smoothness testing, refer to B and E sheets. Pavement shall be a C-4 mix. Coarse aggregate for pcc pavement shall be class 3 durability.
7.05	7010, 1.08, G	7010-G	Concrete Median Mow Strip	Refer to E sheets for location and B sheets for typical sections and details. Pavement shall be a C-4 mix. Coarse aggregate for pcc pavement shall be class 3 durability. Pavement shall have a broom finish parallel to the road. Jointing shall match the roadway pavement with additional sawcuts evenly spaced no futher apart than 6-feet. sawcut shall be considered incidental.
7.06	7020, 1.08, B	7020-B	Pavement, HMA, 6"	Refer to the E & J sheets for location and B sheets for typical sections and details. Place 4" base course and 2" surface course. Base course and surface course shall be 3/4" mix, 65% crush, type B quality, PG 58-28 binder. Item includes trimming of subgrade preparation. Includes removal of temporary asphalt pavement installed in roundabout for traffic control/staging purposes.
7.07	7030, 1.08, E	7030-E	Sidewalk, PCC, 5"	Refer to the E sheets for location and B sheets for typical sections and details. Minor grade adjustments at driveways and other intersections, subgrade preparation, formwork, additional thickness at thickened edges, jointing, sampling, smoothness testing and correction, and testing, refer to L sheets
7.08	7030, 1.08, G	7030-G	Detectable Warning Panels	Refer to figure 7030.210 - detectable warning placement for construction details. Detectable warning panels shall be yellow cast iron for 8'-10' wide sidewalks and yellow fiberglass panels for all other sidewalks, per city standards.
7.09	7040, 1.08, H	7040-H	Pavement Removal, 8th Street	Sawing, breaking, removing, and disposing of existing pavement and reinforcing steel, refer to R sheets. Per Geotech findings the existing pavement is 7" HMA over 8" PCC.
7.10	7040, 1.08, H	7040-H	Pavement Removal	Sawing, breaking, removing, and disposing of existing pavement and reinforcing steel, refer to R sheets.
8	DIVISION 8 - TRAFFIC CONTROL			
8.01	8020, 1.08, C	8020-C	Painted Pavement Markings, Durable	Layout, surface preparation, and application of marking paint, refer to K sheets.
8.02	8030, 1.08, A	8030-A	Temporary Traffic Control	Installation, maintenance, and removal of temporary traffic control; total roadway closures with installation and removal of detour signing as shown in the contract documents; removal and reinstallation or covering of permanent traffic control devices that conflict with the temporary traffic control plan; monitoring and documenting traffic control conditions; and flaggers. When required in the contract documents, the following are also included in traffic control unless a seperate bid item is provided; portable dynamic message signs, temporary barrier rail, temporary flood lighting, and pilot cars, refer to Phasing Plan A0.4 sheet.
9	DIVISION 9 - SITE WORK AND LANDSCAPING			
9.01	9010, 1.08, B	9010-B	Hydraulic Seeding, Seeding, Fertiilizing, and Mulching	Seeding of disturbed areas behind proposed curbs, removal of rock and other debris from the area; preparing the seedbed; furnishing and placing seed; furnishing and placing fertilizer and mulch; and furnishing water and other care during the care period
9.02	9030, 1.08, A	9030-A	Roundabout Landscaping & decorative rock	
9.03	9040, 1.08, A, 1	9040-A-1	SWPPP Preparation & Erosion Control	Includes installation, maintenance and removal of all erosion control items as shown on G sheets, including but not limited to silt fence, temporary intake protection and baskets, filter sock, stabilized construction enctrances, rip-rap and concrete washouts. Includes inspections and reports per City & General Permit No 2 requirements.
9.04	9040, 1.08, J	9040-J	Rip Rap, Class 'D'	Includes engineer fabric. Refer G sheets.
9.05	9060, 1.08, A, 3	9060-A	Chain Link Fence, 48" black vinyl with mow strip	Refer E sheets.
11	DIVISION 11 - MISCELLANEOUS			
11.01	11,010, 1.08, A	11,010-A	Construction Staking	
11.02	11,020 1.08, A	11,020-A	Mobilization	The movement of personnel, equipment, and supplies to the project site; the establishment of offices, buildings, and other facilities necessary for the project; and bonding, permits, and other expenses incurred prior to construction.
11.03			Signage	Refer N sheets for sign locations. All signs shall be high intensity prismatic. All "standard" street name signs shall be white on black on a 8" blank with 6" letters and shall be directly fastened to square tube posts. Each "standard" street name sign post shall have four street name signs that shall be connected to the post by riveting the signs back to back on opposite sides of the square tube posts. The back to back ends of street name signs shall be connected with circular stabilizers. Refer N sheets for other sign types. All signage shall be in accordance with the latest edition of the manual on uniform traffic control devices (MUTCD). Contractor shall furnish and install all signs as shown on the N sheets. Street name width shown in tabulation is an estimate only. Sign width shall be manufactured at the appropriate width to match City standards.
11.04			Tree removal	Removal of tree and stump from site and payment of any permit or disposal fees. Refer R sheets for removal locations.

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FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE.
CONSTRUCTION PLANS

ESTIMATE QUANTITIES & REFERENCE NOTES

REFERENCE NUMBER: 200605

DRAWN BY: EWM

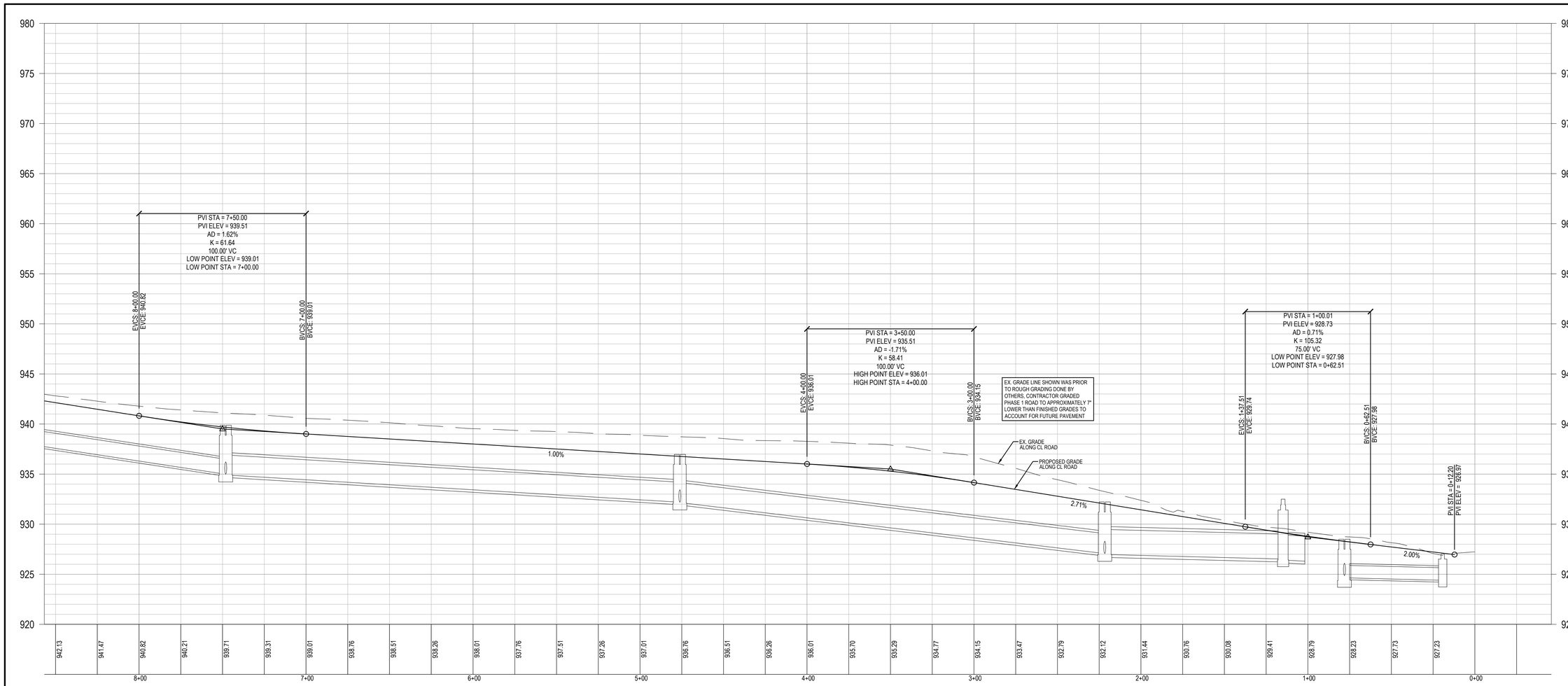
CHECKED BY: JEJ

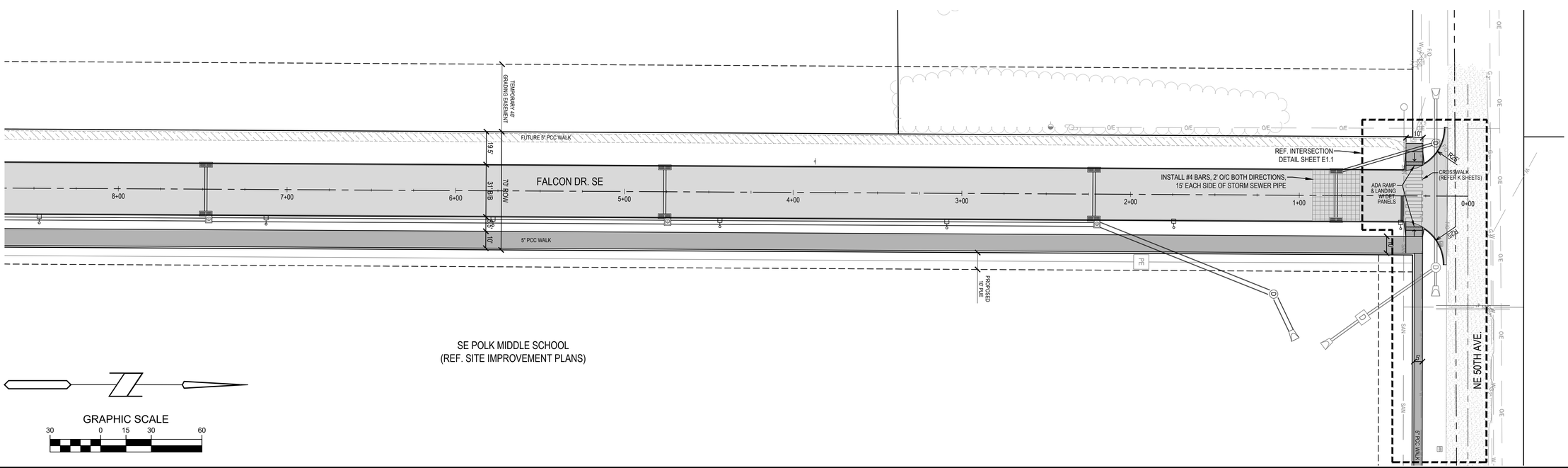
REVISION DATE:

PROJECT NUMBER: 200605-2

SHEET NUMBER: C0.1

PRELIMINARY. NOT FOR CONSTRUCTION





SE POLK MIDDLE SCHOOL
(REF. SITE IMPROVEMENT PLANS)

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FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE.
CONSTRUCTION PLANS

FALCON DRIVE SE PLAN & PROFILE

REFERENCE NUMBER: 200605

DRAWN BY: EWM

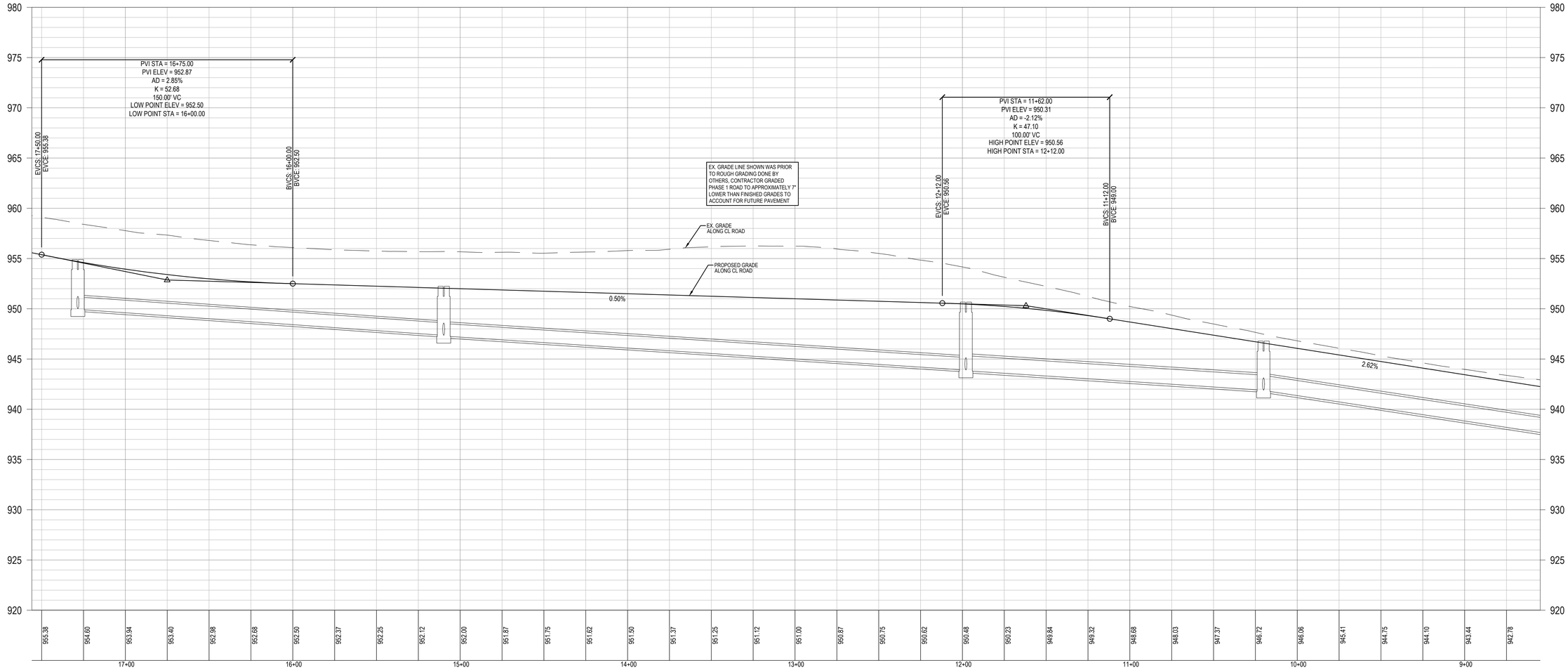
CHECKED BY: JEJ

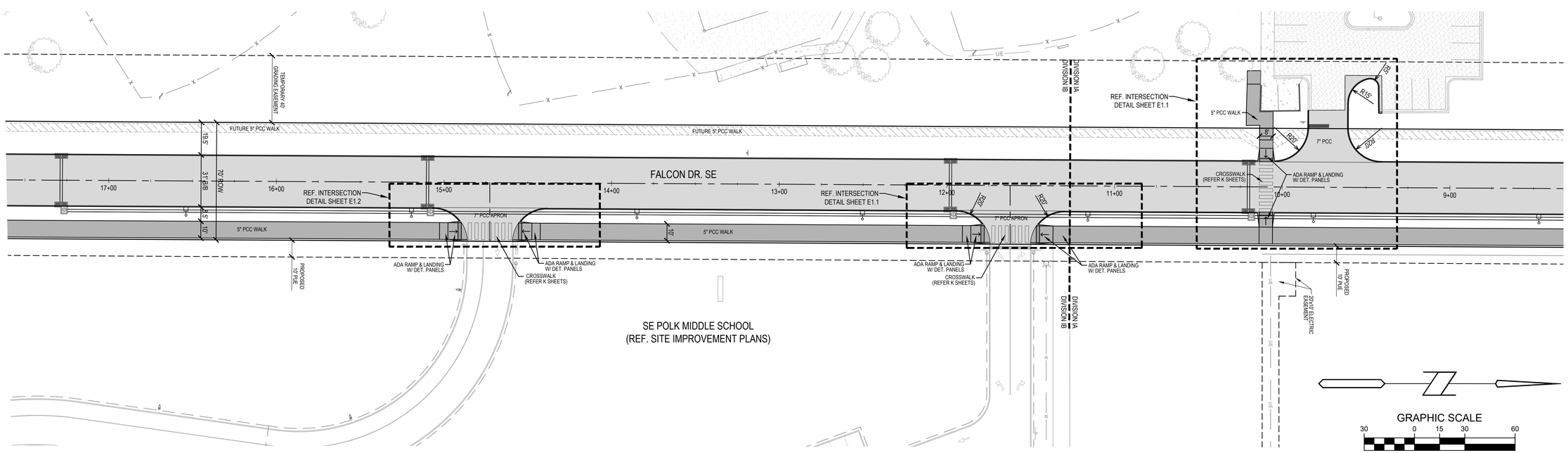
REVISION DATE:

PROJECT NUMBER: 200605-2

SHEET NUMBER: D1.1

PRELIMINARY- NOT FOR CONSTRUCTION





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CONSTRUCTION PLANS

FALCON DRIVE SE PLAN & PROFILE

REFERENCE NUMBER: 200605

DRAWN BY: EWM

CHECKED BY: JEJ

REVISION DATE:

PROJECT NUMBER: 200605-2

SHEET NUMBER: D1.2

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PRELIMINARY- NOT FOR CONSTRUCTION

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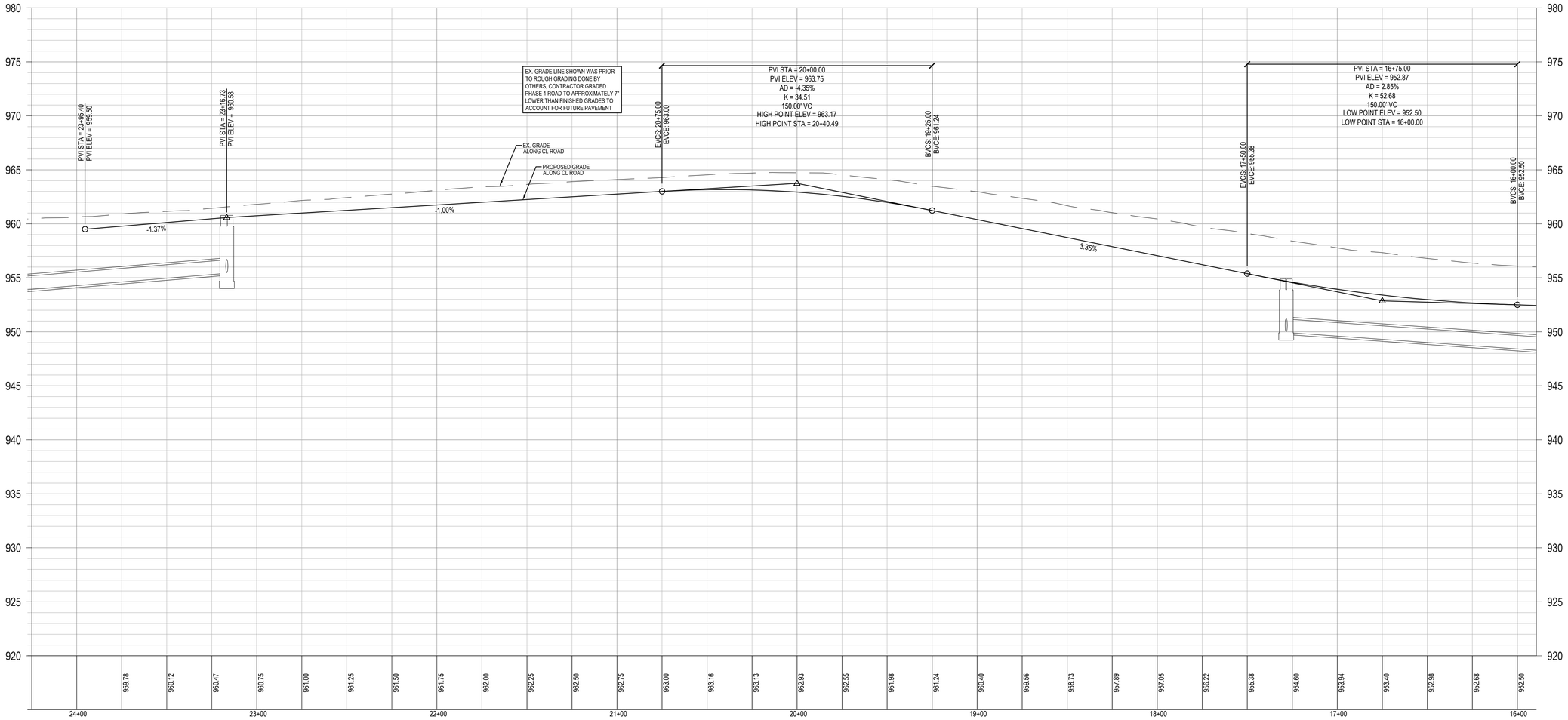

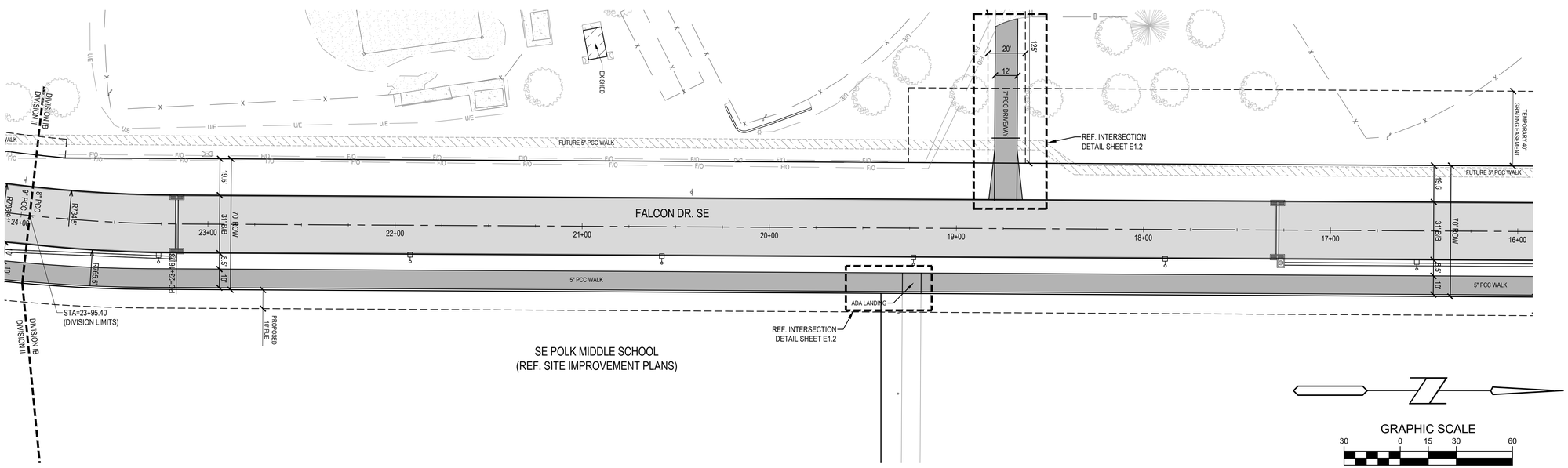

GRAPHIC SCALE

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CONSTRUCTION PLANS

FALCON DRIVE SE PLAN & PROFILE

REFERENCE NUMBER: 200605

DRAWN BY: EWM

CHECKED BY: JEJ

REVISION DATE:

PROJECT NUMBER: 200605-2

SHEET NUMBER: D1.3

PRELIMINARY- NOT FOR CONSTRUCTION

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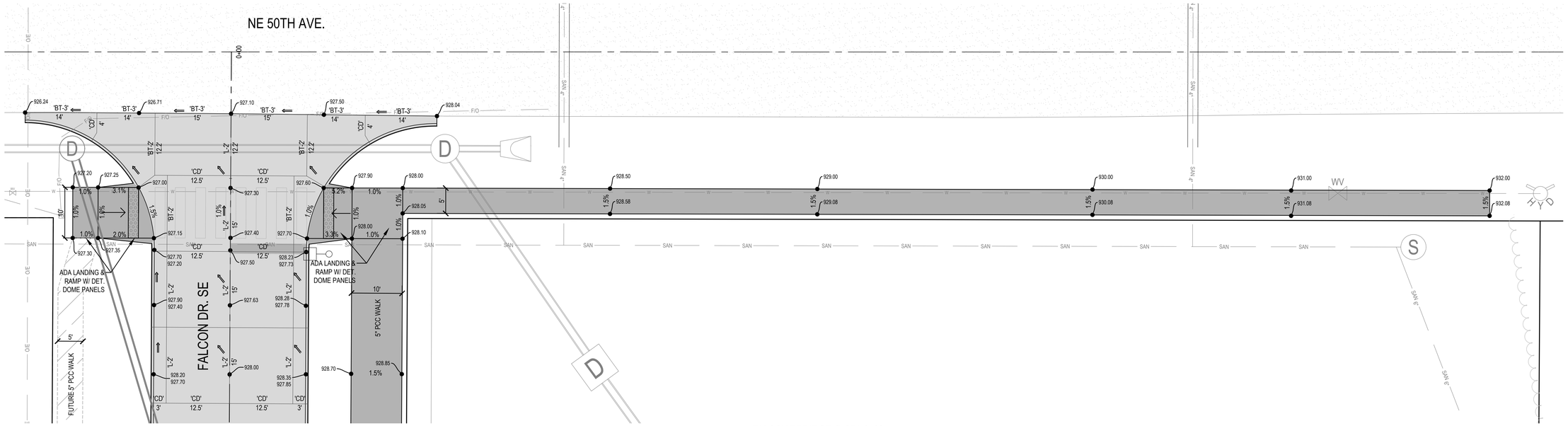
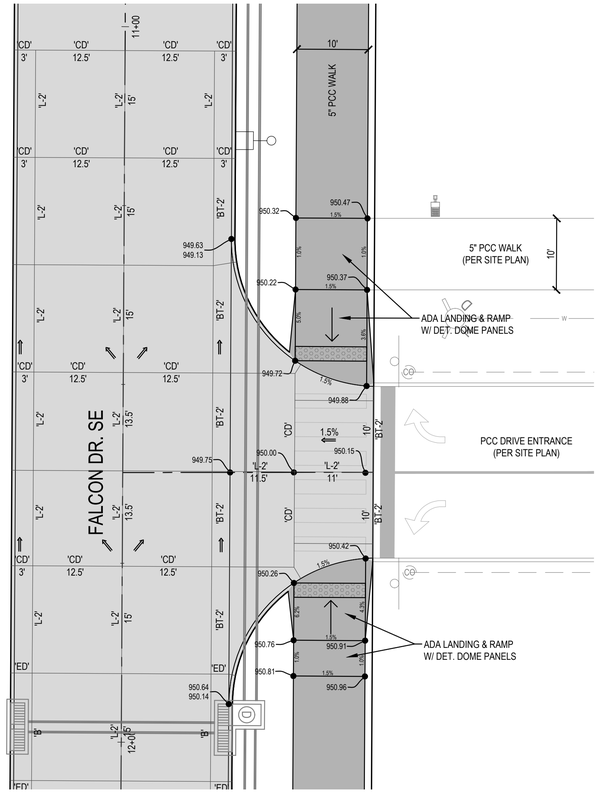
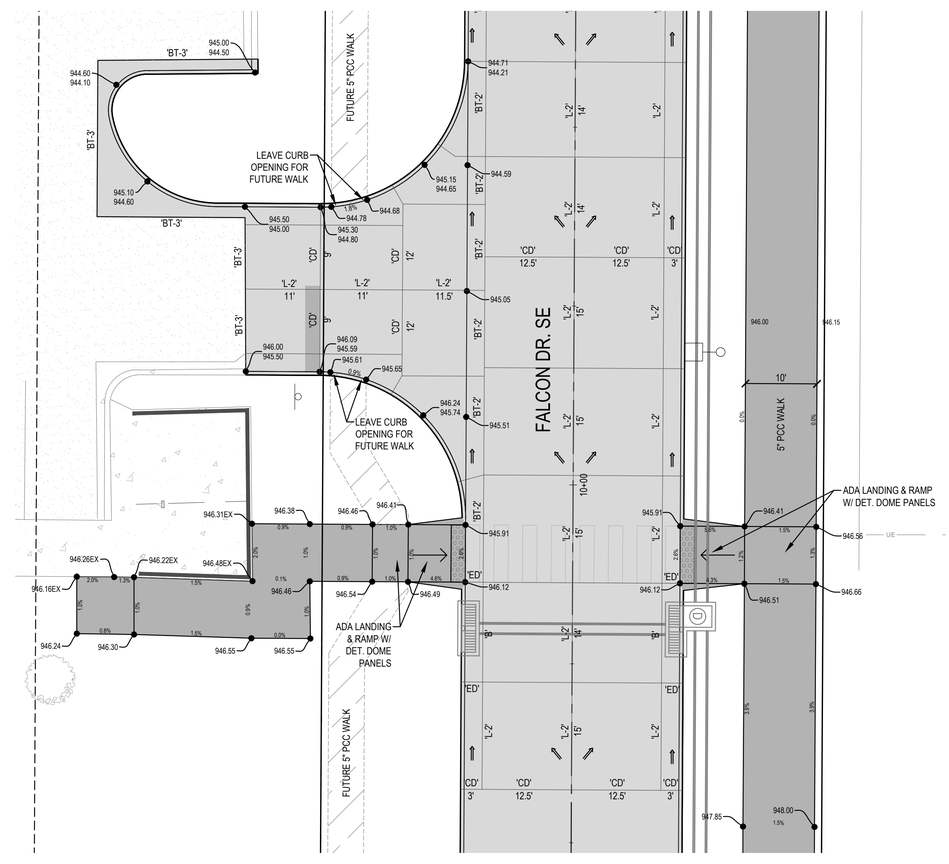


FALCON DRIVE SE @ STA 0+00
NE 50TH AVE DETAIL



FALCON DRIVE SE @ STA 11+60
NORTH SCHOOL DRIVE ENTRANCE DETAIL



FALCON DRIVE SE @ STA 9+75
SAM WISE DRIVE ENTRANCE DETAIL

GRAPHIC SCALE
10 0 5 10 20

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FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE.
CONSTRUCTION PLANS

INTERSECTION DETAILS

REFERENCE NUMBER: 200605

DRAWN BY: EWM

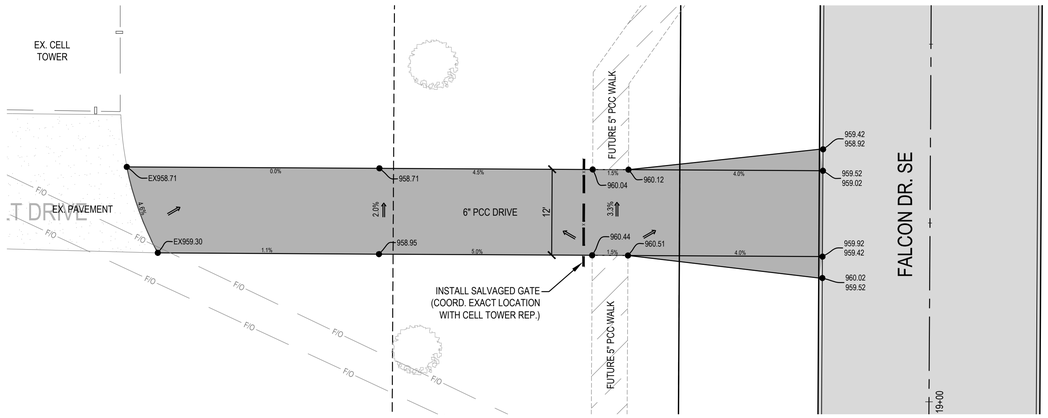
CHECKED BY: JEJ

REVISION DATE:

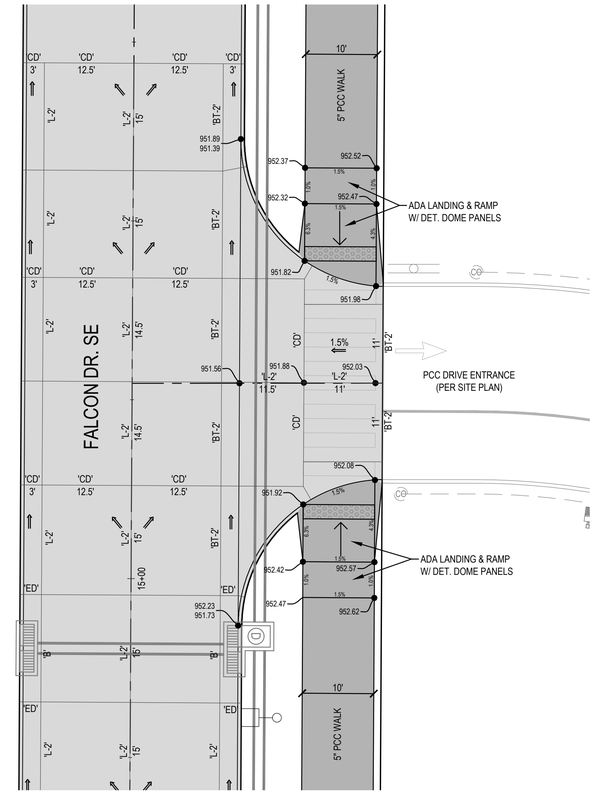
PROJECT NUMBER: 200605-2

SHEET NUMBER: E1.1

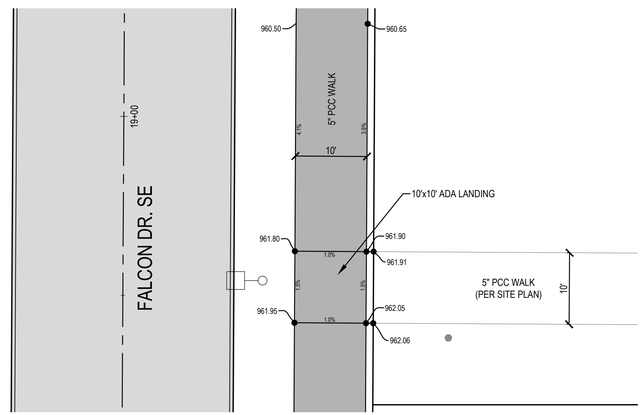
PRELIMINARY- NOT FOR CONSTRUCTION



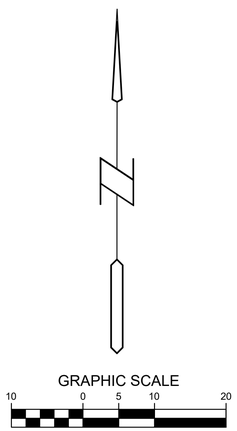
FALCON DRIVE SE @ STA 18+75
CELL TOWER DRIVE DETAIL



FALCON DRIVE SE @ STA 14+75
SOUTH SCHOOL DRIVE ENTRANCE DETAIL



FALCON DRIVE SE @ STA 19+25
ADA LANDING DETAIL



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CONSTRUCTION PLANS

INTERSECTION DETAILS

REFERENCE NUMBER: 200605

DRAWN BY: EWM

CHECKED BY: JEJ

REVISION DATE:

PROJECT NUMBER: 200605-2

SHEET NUMBER: E1.2

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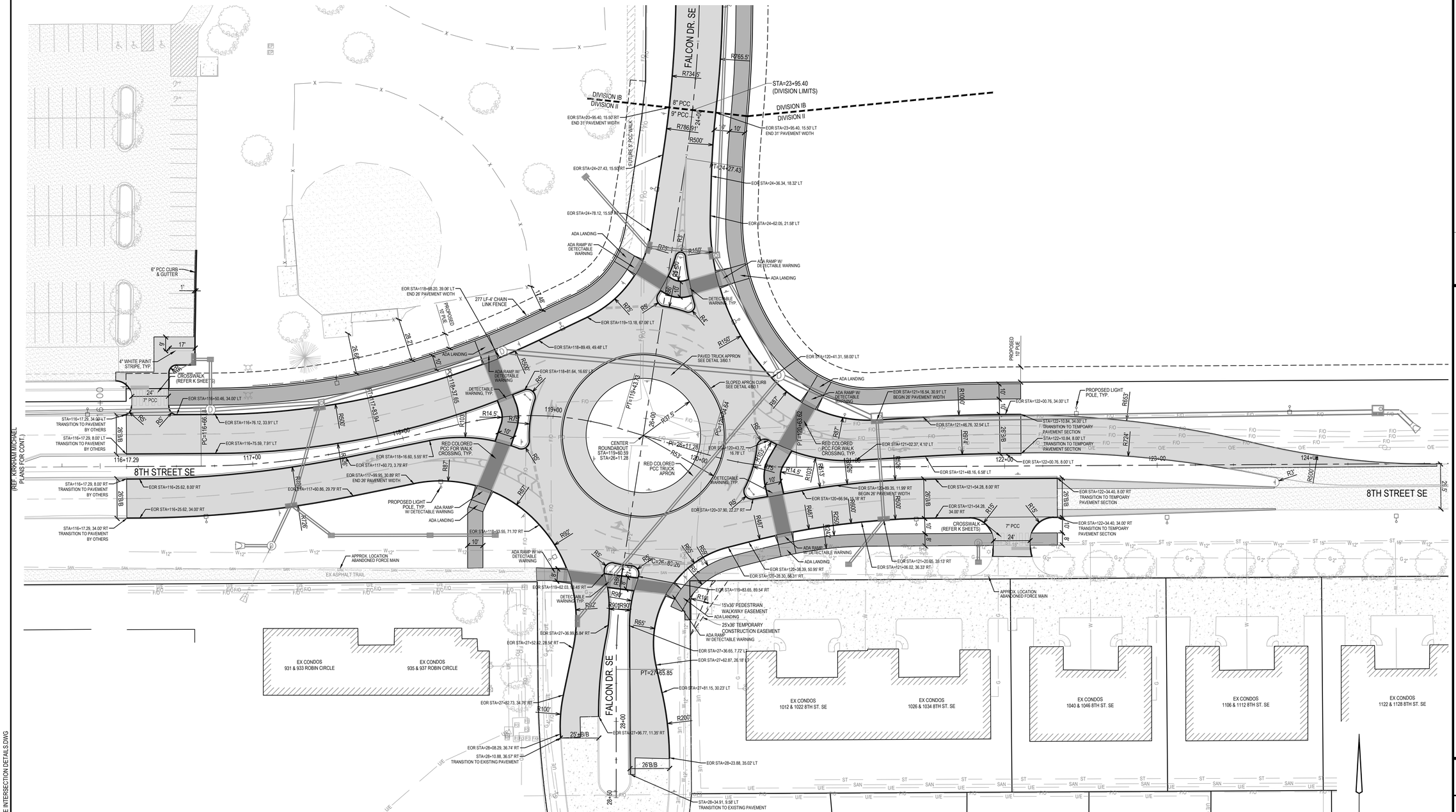

FALCON DRIVE SE & 8TH STREET SE ROUNDABOUT - GEOMETRY

LILAND PROJECTS 2020/200605-2 SE POLK MS FALCON AND ROUNDABOUT/DWG/E INTERSECTION DETAILS.DWG

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FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE.
CONSTRUCTION PLANS
INTERSECTION DETAILS

REFERENCE NUMBER: 200605

DRAWN BY: EWM

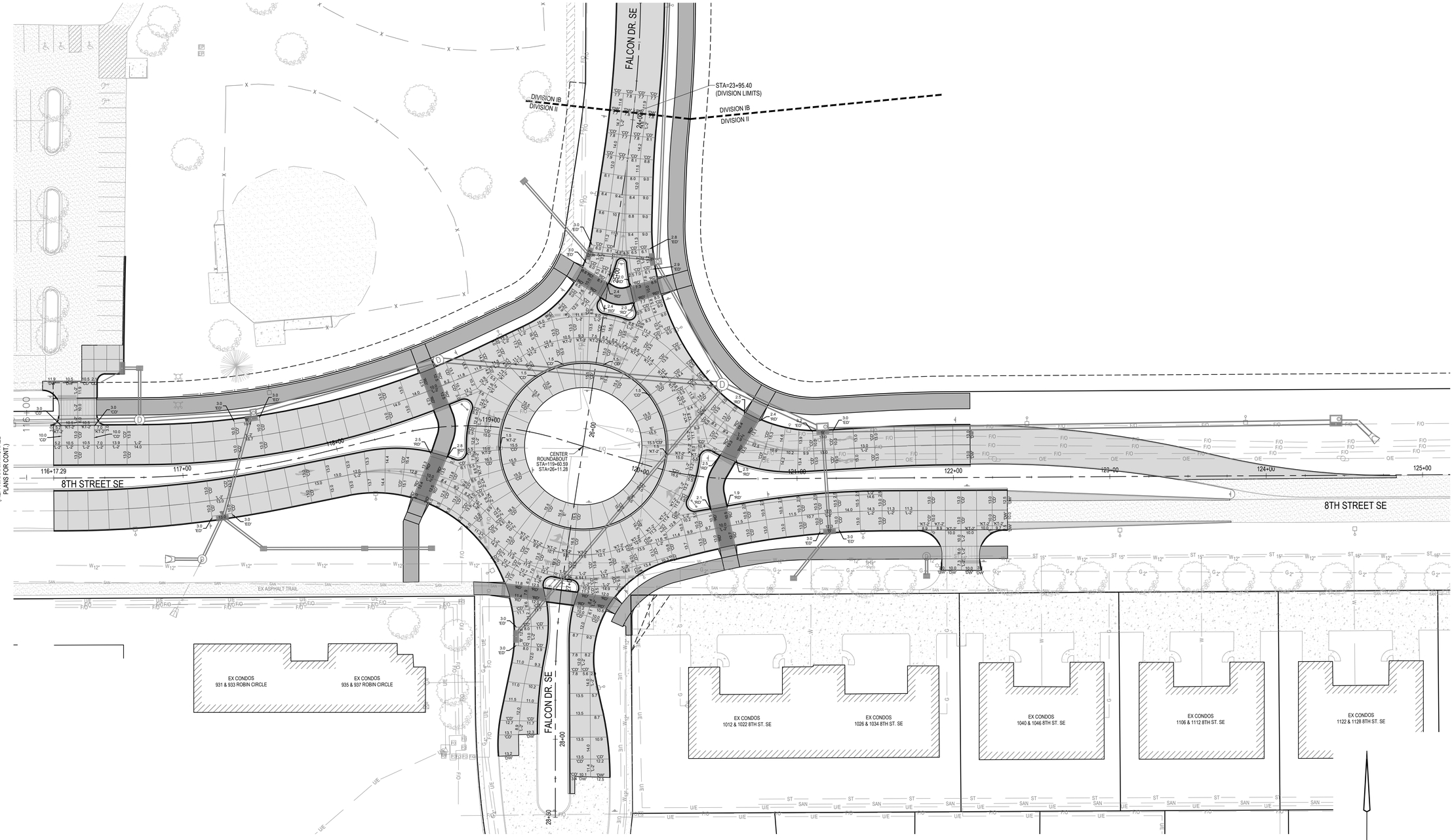
CHECKED BY: JEJ

REVISION DATE:

PROJECT NUMBER: 200605-2

SHEET NUMBER: E2.1

PRELIMINARY- NOT FOR CONSTRUCTION



FALCON DRIVE SE & 8TH STREET SE ROUNDABOUT - JOINTING PLAN

GRAPHIC SCALE

30 0 15 30 60

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FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE.
CONSTRUCTION PLANS

INTERSECTION DETAILS

REFERENCE NUMBER: 200605

DRAWN BY: EWM

CHECKED BY: JEJ

REVISION DATE:

PROJECT NUMBER: 200605-2

SHEET NUMBER: E2.2

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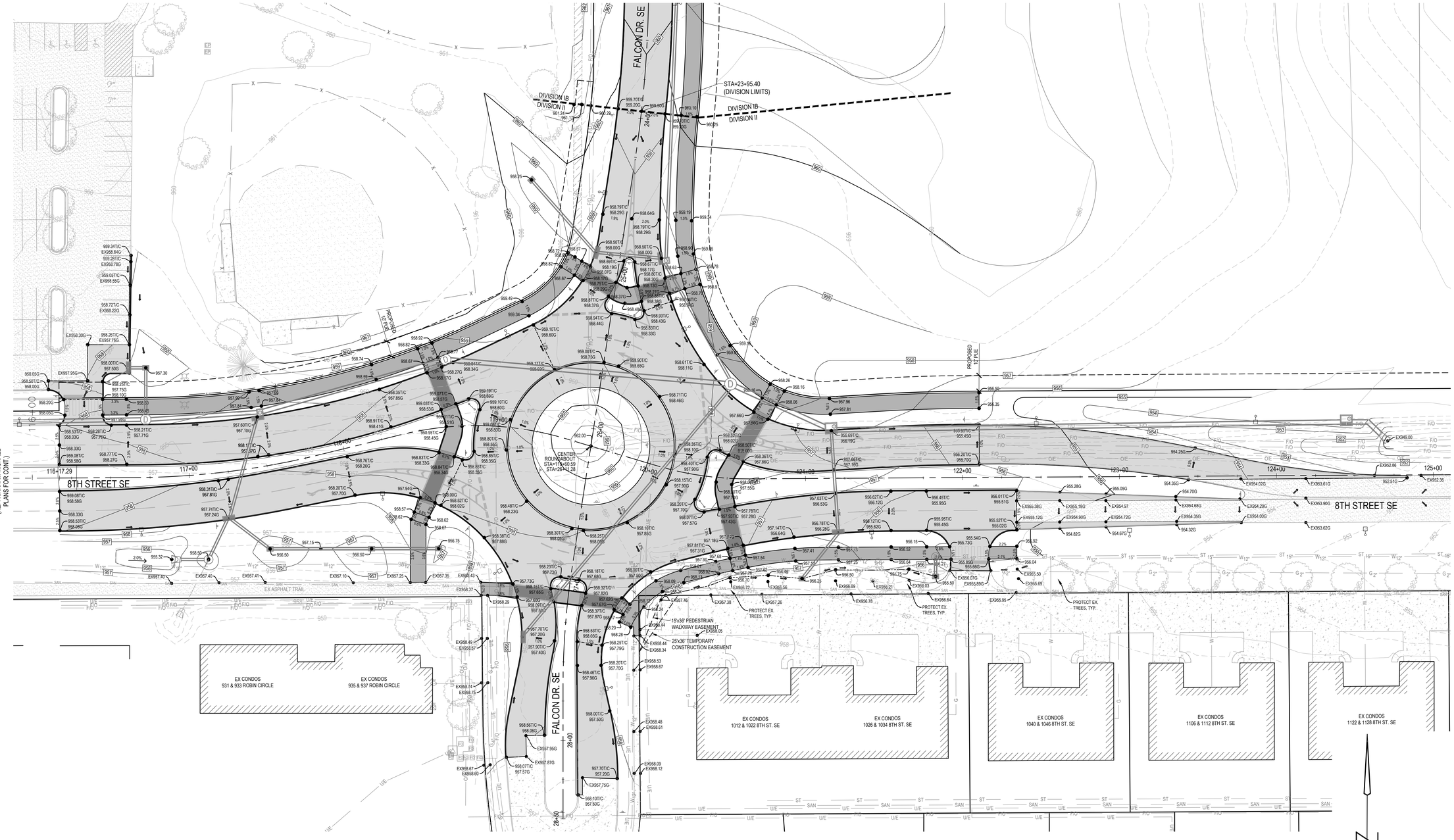
PRELIMINARY- NOT FOR CONSTRUCTION



FALCON DRIVE & 8TH STREET SE ROUNDABOUT - GRADING

GRAPHIC SCALE

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FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE.
CONSTRUCTION PLANS

INTERSECTION DETAILS

REFERENCE NUMBER: 200605

DRAWN BY: EWM

CHECKED BY: JEJ

REVISION DATE:

PROJECT NUMBER: 200605-2

SHEET NUMBER: E2.3

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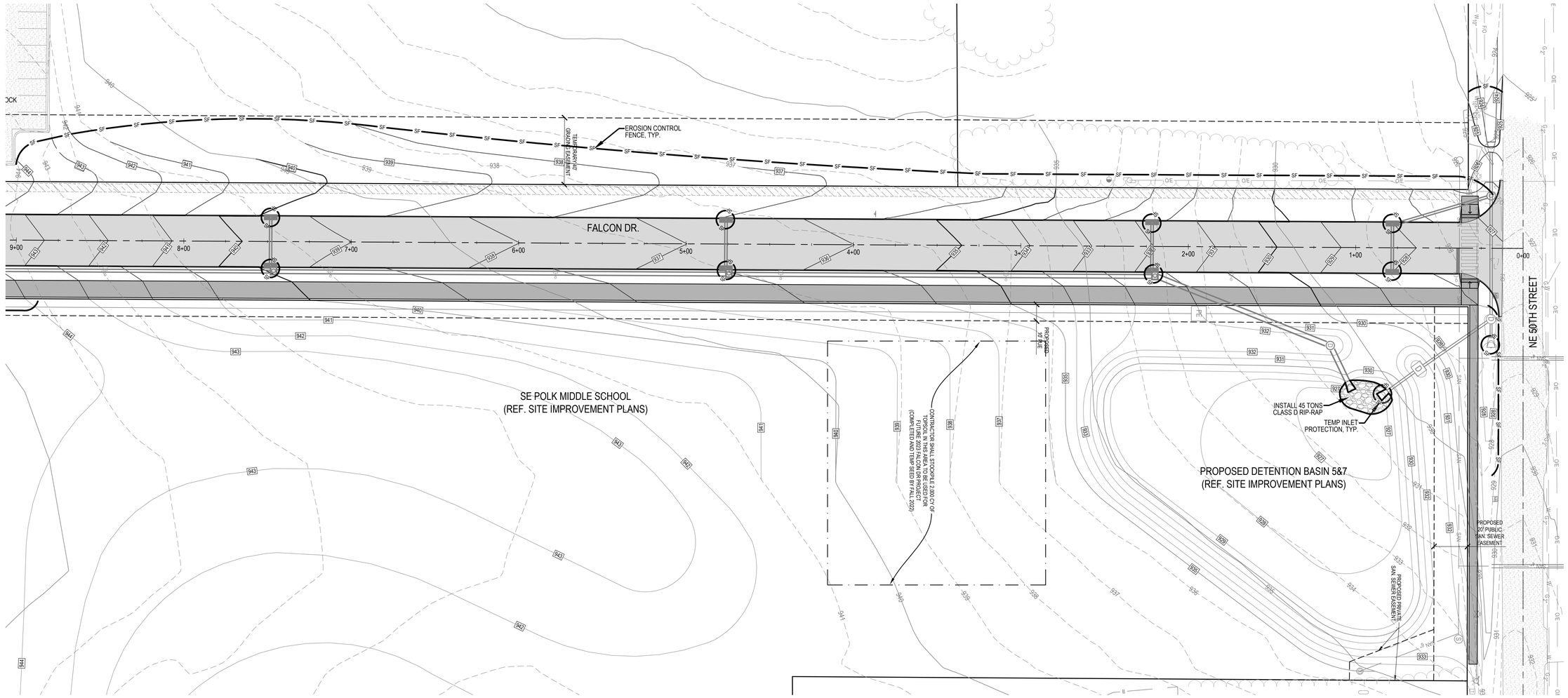
PRELIMINARY- NOT FOR CONSTRUCTION



EROSION CONTROL NOTES:

1. SEE SUPPLEMENTAL DETAIL STORM WATER POLLUTION PLAN NARRATIVE FOR ALL EROSION CONTROL MEASURES, ADDITIONAL DETAILS AND NOTE. ADDITIONAL NOTES AND MEASURES IN NARRATIVE SHALL BE CONSIDERED INCIDENTAL AND SHALL BE INCLUDED IN THE ORIGINAL BID.
2. SWPPP PLAN AND NARRATIVE ARE CONSIDERED A LIVING DOCUMENT AND WILL NEED PERIODIC UPDATES AND ADJUSTMENTS AS NECESSARY DEPENDING ON SITE CONDITIONS TO ASSURE COMPLIANCE WITH NPDES GENERAL PERMIT NO. 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UPDATE THE SWPPP AND IMPLEMENT ANY AND ALL MEASURES NECESSARY TO COMPLY WITH SAID PERMIT NO. 2.
3. INSTALL PERIMETER SILT FENCE AS SHOWN ON PLANS PRIOR TO CONSTRUCTION.
4. INSTALL INTAKE PROTECTION WITH SILT FENCE IMMEDIATELY AFTER STORM SEWER CONSTRUCTION.
5. INSTALL FINISHED PAVING INLET PROTECTION IMMEDIATELY AFTER PAVING IS COMPLETED AROUND INTAKE.
6. OTHER EROSION CONTROL TYPES MAY NOT BE SUBSTITUTED FOR SILT FENCE.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING A CONCRETE WASHOUT IN ACCORDANCE WITH SUDAS DURING ALL CONCRETE WORK.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING TEMPORARY RESTROOM FACILITIES. SANITARY WASTE SHALL BE DISPOSED OF PER ALL FEDERAL, STATE AND LOCAL REGULATIONS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL TOPSOIL REQUIREMENTS OF NPDES GENERAL PERMIT NO. 2 ARE MET.
10. IF CONSTRUCTION ACTIVITY IS NOT PLANNED FOR AT LEAST 14 DAYS, ALL DISTURBED AREAS SHALL BE STABILIZED IMMEDIATELY BY TEMPORARY EROSION CONTROL MEASURES. TEMPORARY CONTROL MEASURES MAY INCLUDE APPLYING MULCH AND TACKING IT IN.
11. TEMPORARY SEEDING MIX SHALL BE SUDAS TYPE 4 MIXTURE.
12. THIS PROJECT INCLUDES SAWCUTTING OR CONCRETE GRINDING SO PROTECTION OF STORM SEWERS AND DRAINAGE WAYS WILL NEED TO BE PROTECTED FROM SLURRY FROM THE CONCRETE OPERATIONS.
13. COORDINATE EROSION CONTROL ON EAST SIDE OF FALCON ROAD WITH SEP MIDDLE SCHOOL SWPPP (C-701).

EROSION CONTROL REMOVAL NOTES:

1. AFTER FINAL STABILIZATION HAS OCCURED, AS DEFINED IN NPDES GENERAL PERMIT NO. 2, CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY EROSION CONTROL DEVICES INCLUDING, BUT NOT LIMITED TO: SILT FENCE, INLET PROTECTION, AND TEMPORARY STANDPIPES.

TOPSOIL NOTES:

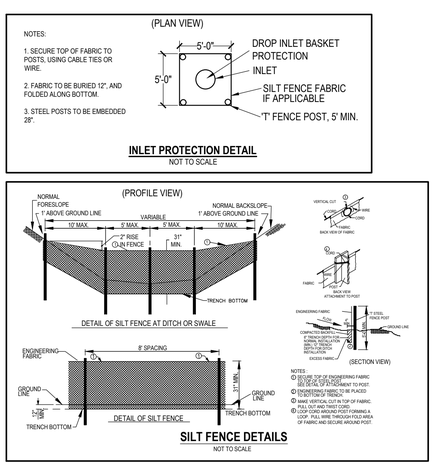
1. STRIP AND STOCKPILE THE TOP 8" OF SOIL ON ALL DISTURBED AREAS.
2. RESPREAD TOPSOIL TO A MINIMUM DEPTH OF 8" ON ALL GREEN (NON PAVED) AREAS. IMPORT TOPSOIL AS NECESSARY TO ACHIEVE A MINIMUM DEPTH OF 6".
3. **TOPSOIL SHALL BE FREE OF ALL ROCK AND DEBRIS LARGER THAN 3/4" IN SIZE.**
4. TOPSOIL IS DEFINED AS: FERTILE, FRIABLE LOAM, CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH, FROM WELL DRAINED SITE FREE FROM FLOODING, NOT IN FROZEN OR MUDDY CONDITIONS; REASONABLE FREE FROM SUBSOIL, CLAY LUMPS, ROOTS, GRASS, WEEDS, STONES LARGER THAN 3/4 INCH IN DIAMETER, AND FOREIGN MATTER; ACIDITY RANGE (PH) OF 5.5 TO 7.5; CONTAINING MINIMUM 4 PERCENT AND MAXIMUM 20 PERCENT ORGANIC MATTER.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL TOPSOIL REQUIREMENTS OF NPDES GENERAL PERMIT NO. 2 ARE MET.

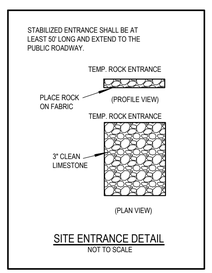
SEED NOTE:

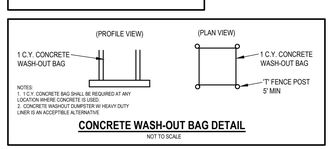
1. SEED ALL DISTURBED AREAS.

GRADING NOTES:

1. ROUGH GRADING OF PHASE 1 ROAD AREA WAS DONE BY OTHERS IN PREVIOUS PHASE, CONTRACTOR GRADED PHASE 1 ROAD TO APPROXIMATELY 7" LOWER THAN FINISHED GRADES TO ACCOUNT FOR FUTURE PAVEMENT AND TOPSOIL PLACEMENT.
2. PREVIOUS CONTRACTOR WAS INSTRUCTED TO STOCKPILE TOPSOIL AS SHOWN ON PLANS FOR FALCON ROAD CONSTRUCTION. APPROXIMATE TOPSOIL LOCATIONS & QUANTITIES ARE SHOWN ACCORDINGLY.
3. CONTRACTOR SHALL REMOVE & RESTORE (INCLUDES SEEDING) ALL FALCON ROAD STOCKPILE AREAS TO PROPOSED FINISH GRADE.
4. PREVIOUS CONTRACTOR INSTALLED SOME SILT FENCE ALONG THE WEST PROPERTY LINE, COORDINATE REMOVAL/RELOCATION OF SAID SILT FENCE WITH PREVIOUS CONTRACTOR TO MATCH NEW GRADING LIMITS.







GRAPHIC SCALE

30 0 15 30 60

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FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE. CONSTRUCTION PLANS

GRADING & EROSION CONTROL PLAN

REFERENCE NUMBER: 200605

DRAWN BY: EWM

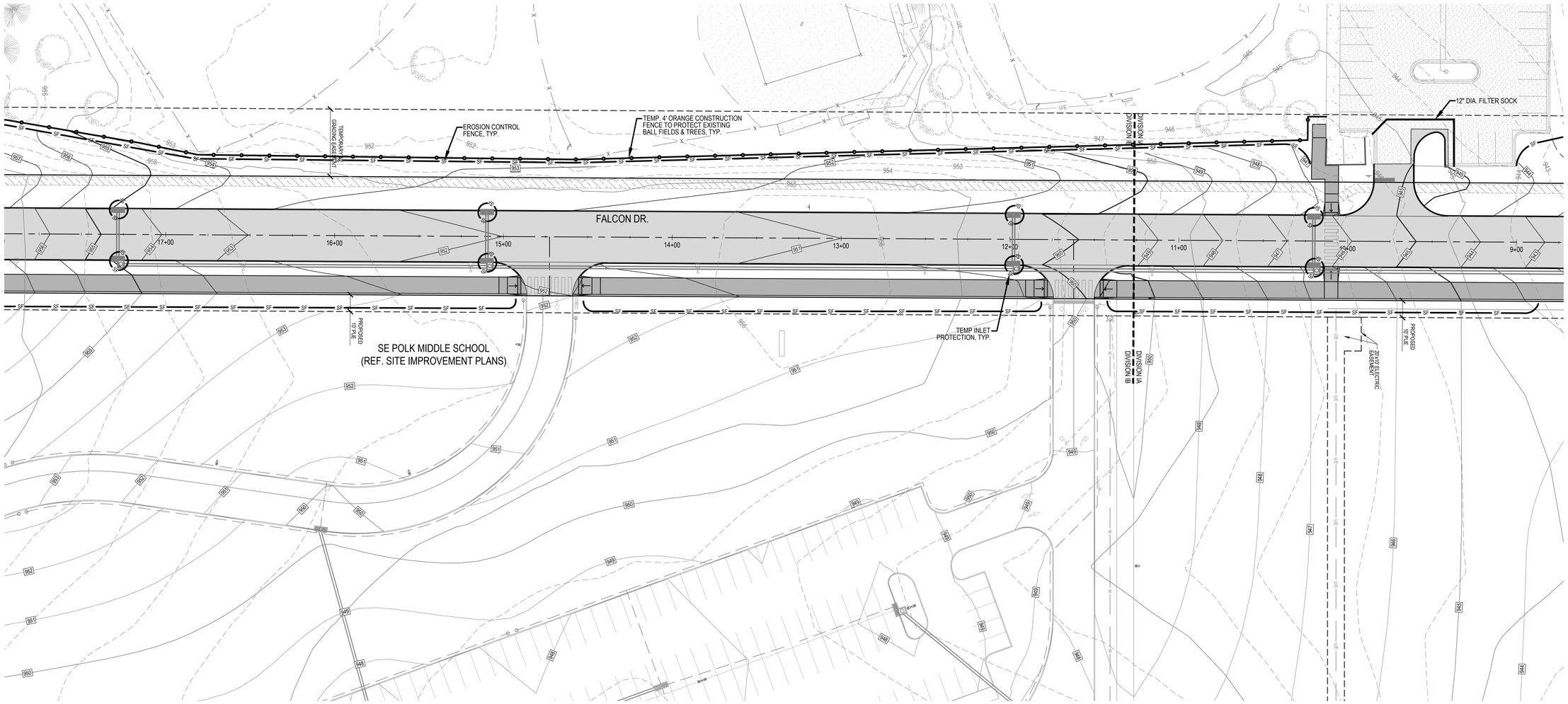
CHECKED BY: JEJ

REVISION DATE:

PROJECT NUMBER: 200605-2

SHEET NUMBER: G1.1

PRELIMINARY. NOT FOR CONSTRUCTION



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CONSTRUCTION PLANS

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CONSTRUCTION PLANS

GRADING & EROSION CONTROL PLAN

REFERENCE NUMBER: 200605

DRAWN BY: EWM

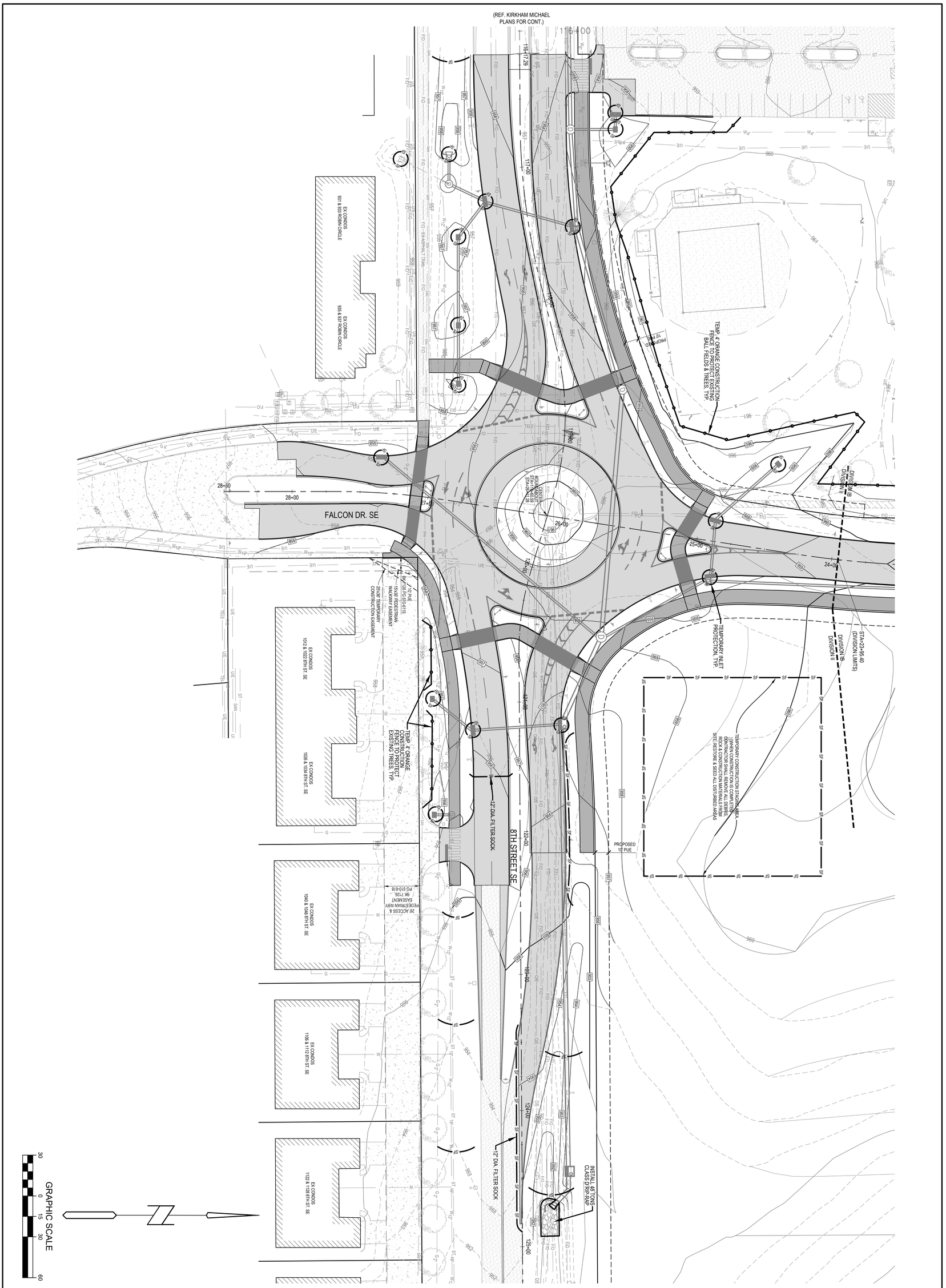
CHECKED BY: JEJ

REVISION DATE:

PROJECT NUMBER: 200605-2

SHEET NUMBER: G1.3

PRELIMINARY- NOT FOR CONSTRUCTION



PROJECT NUMBER: 200605-2	REFERENCE NUMBER: 200605	FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE. CONSTRUCTION PLANS	Bishop Engineering "Planning Your Successful Development" 3501 104th Street Des Moines, Iowa 50322-3825 Phone: (515)276-0467 Fax: (515)276-0217 Civil Engineering & Land Surveying Established 1959
SHEET NUMBER: G2.1	DRAWN BY: EVM	GRADING & EROSION CONTROL PLAN	
	CHECKED BY: JEJ		
	REVISION DATE:		

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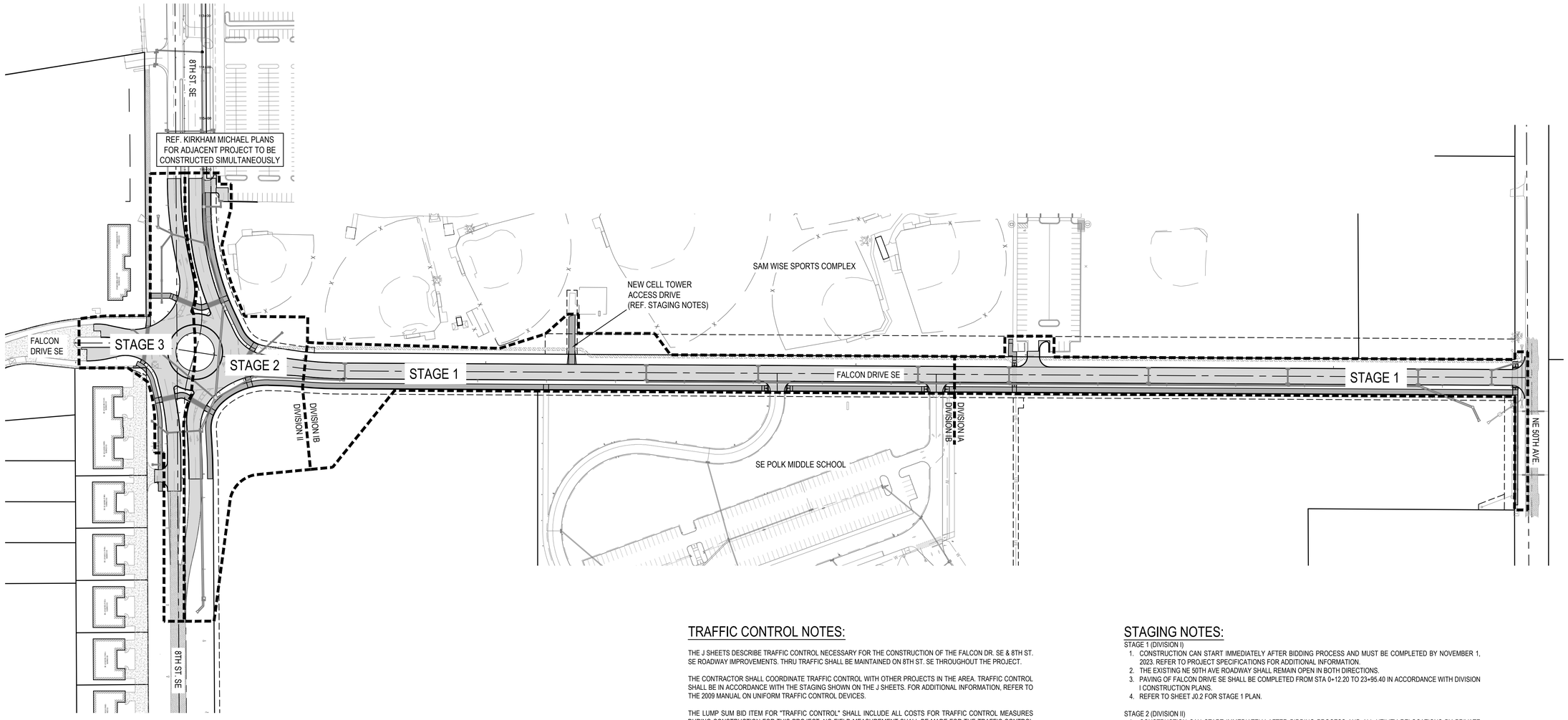

TRAFFIC CONTROL NOTES:

THE J SHEETS DESCRIBE TRAFFIC CONTROL NECESSARY FOR THE CONSTRUCTION OF THE FALCON DR. SE & 8TH ST. SE ROADWAY IMPROVEMENTS. THRU TRAFFIC SHALL BE MAINTAINED ON 8TH ST. SE THROUGHOUT THE PROJECT.

THE CONTRACTOR SHALL COORDINATE TRAFFIC CONTROL WITH OTHER PROJECTS IN THE AREA. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE STAGING SHOWN ON THE J SHEETS. FOR ADDITIONAL INFORMATION, REFER TO THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE LUMP SUM BID ITEM FOR "TRAFFIC CONTROL" SHALL INCLUDE ALL COSTS FOR TRAFFIC CONTROL MEASURES DURING CONSTRUCTION FOR THIS PROJECT. NO FIELD MEASUREMENT SHALL BE MADE FOR THE TRAFFIC CONTROL BID ITEM. THE CONTRACTOR SHALL BE PAID THE LUMP SUM BID AMOUNT FOR TRAFFIC CONTROL.

TRAFFIC CONTROL ON THIS PROJECT SHALL BE IN CONFORMANCE WITH IOWA DEPARTMENT OF TRANSPORTATION STANDARD ROAD PLANS EXCEPT AS MODIFIED ON THE J SHEETS.

ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR.

ALL TRAFFIC CONTROL AND FIXED, POST MOUNTED, TRAFFIC CONTROL SIGNS USED ON THIS PROJECT SHALL BE SHEETED WITH HIGH-VISIBILITY PRISMATIC REFLECTIVE SHEETING (TYPE III OR HIGHER).

WHERE POSSIBLE ALL POST MOUNTED SIGNS SHALL BE PLACED AT LEAST 2' BEYOND THE CURB OR EDGE OF SHOULDER.

PROPOSED SIGN SPACING MAY BE MODIFIED AS APPROVED BY THE CITY ENGINEER TO MEET EXISTING FIELD CONDITIONS OR TO PREVENT OBSTRUCTION OF THE MOTORIST'S VIEW OF PERMANENT SIGNING.

PERMANENT SIGNING THAT CONVEYS A MESSAGE CONTRARY TO THE MESSAGE OF THE TEMPORARY SIGNING AND NOT APPLICABLE TO THE WORKING CONDITIONS SHALL BE COVERED BY THE CONTRACTOR WHEN DIRECTED BY THE CITY ENGINEER.

THE CONTRACTOR SHALL PROPERLY CLEAN ALL SURFACES AND ELIMINATE ALL UNSAFE CONDITIONS PRIOR TO REMOVING TRAFFIC CONTROL DEVICES.

THE CONTRACTOR SHALL FURNISH THE CITY ENGINEER WITH NAMES AND TELEPHONE NUMBERS OF INDIVIDUALS RESPONSIBLE FOR THE MAINTENANCE OF TRAFFIC CONTROL DEVICES AND SIGNING. THE INDIVIDUAL SHALL BE AVAILABLE FOR CORRECTIVE ACTION 24 HOURS A DAY, 7 DAYS A WEEK.

THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER OF ROAD AND LANE CLOSURE TWO (2) WEEKS PRIOR TO THE CLOSURE. ROAD AND LANE CLOSURE NOTIFICATION TO BE ISSUED BY THE CITY FIVE (5) DAYS PRIOR TO CLOSURE. THE CONTRACTOR SHALL COORDINATE CLOSURE WITH THE CITY ENGINEER TO ENSURE THE ABOVE DEADLINES ARE ACHIEVED.

PEDESTRIAN PATH CLOSURE BARRICADES SHALL BE PLACED AT THE BEGINNING AND END OF SIDEWALK CONSTRUCTION AREAS. BARRICADES SHALL BE PLACED REGARDLESS OF WHETHER AN EXISTING PAVED PATH IS PRESENT OR NOT.

REFER TO STAGING NOTES FOR TRAFFIC CONTROL PLAN DETAILS.

STAGING NOTES:

STAGE 1 (DIVISION I)

1. CONSTRUCTION CAN START IMMEDIATELY AFTER BIDDING PROCESS AND MUST BE COMPLETED BY NOVEMBER 1, 2023. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. THE EXISTING NE 50TH AVE ROADWAY SHALL REMAIN OPEN IN BOTH DIRECTIONS.
3. PAVING OF FALCON DRIVE SE SHALL BE COMPLETED FROM STA 0+12.20 TO 23+95.40 IN ACCORDANCE WITH DIVISION I CONSTRUCTION PLANS.
4. REFER TO SHEET J0.2 FOR STAGE 1 PLAN.

STAGE 2 (DIVISION II)

1. CONSTRUCTION CAN START IMMEDIATELY AFTER BIDDING PROCESS AND ALL UTILITY RELOCATIONS BY PRIVATE PROVIDERS HAS BEEN COMPLETED.
2. TRAFFIC SHALL BE MAINTAINED ON 8TH STREET SE THROUGHOUT STAGE 2 CONSTRUCTION.
3. THE EXISTING 8TH STREET SE ROADWAY SHALL REMAIN OPEN IN BOTH DIRECTIONS.
4. PAVING AND UTILITIES FOR THE PROPOSED NORTH SIDE OF 8TH STREET SE & ROUNDABOUT SHALL BE COMPLETED IN ACCORDANCE WITH DIVISION II CONSTRUCTION PLANS.
5. THE EXISTING SAM WISE PARKING LOT CONNECTION SHALL REMAIN OPEN UNTIL PROPOSED WEST ENTRANCE BY OTHERS IS COMPLETED, TEMPORARY ROCK ENTRANCE CAN BE USED.
6. CONTRACTOR SHALL COORDINATE ALL STAGING & TRAFFIC CONTROL WITH ADJACENT CITY PROJECT TO THE WEST (PLANS BY KIRKHAM MICHAEL).
7. THE EXISTING CELL TOWER ACCESS DRIVE CAN BE REMOVED ONCE THE PROPOSED DRIVE OFF OF FALCON DR. SE IS COMPLETED AS PART OF STAGE 1.
8. INSTALL TEMPORARY ASPHALT PAVEMENT IN ROUNDABOUT.
9. DO NOT PAVE TRUCK APRON PAVEMENT OR CURB.
10. REFER TO R SHEETS FOR REMOVALS.
11. REFER TO SHEET J0.3 FOR STAGE 2 PLAN.
12. IF CONSTRUCTION ACTIVITIES WILL TEMPORARILY IMPEDE TRAFFIC PATTERN/FLOW CONTRACTOR SHALL IMPLEMENT THE NECESSARY FLAGGERS AND SIGNAGE ACCORDINGLY.

STAGE 3 (DIVISION II)

1. TRAFFIC SHALL BE MAINTAINED ON 8TH STREET SE IN BOTH DIRECTIONS THROUGHOUT STAGE 3 CONSTRUCTION.
2. THE STAGE 2 PROPOSED PAVING SHALL BE UTILIZED TO REROUTE TRAFFIC ON 8TH STREET SE.
3. REMOVE OLD 8TH STREET SE ROADWAY, REFER TO R SHEETS FOR REMOVALS.
4. INSTALL TEMPORARY ASPHALT PAVEMENT AT EAST END OF 8TH STREET SE.
5. DO NOT PAVE TRUCK APRON PAVEMENT.
6. FALCON DR SE SOUTH OF 8TH STREET CAN BE CLOSED FOR STAGE 3 CONSTRUCTION.
7. PAVING AND UTILITIES FOR THE PROPOSED SOUTH SIDE OF 8TH STREET SE & ROUNDABOUT SHALL BE COMPLETED IN ACCORDANCE WITH DIVISION II CONSTRUCTIONS PLANS.
8. REFER TO SHEET J0.4 FOR STAGE 3 PLAN.
9. IF CONSTRUCTION ACTIVITIES WILL TEMPORARILY IMPEDE TRAFFIC PATTERN/FLOW CONTRACTOR SHALL IMPLEMENT THE NECESSARY FLAGGERS AND SIGNAGE ACCORDINGLY.

STAGE 3B (DIVISION II)

1. REMOVE TEMPORARY ASPHALT PAVEMENT IN ROUNDABOUT & AT EAST END OF 8TH STREET SE.
2. REMOVE TEMPORARY TRAFFIC CONTROL FROM STAGES 1, 2 & 3 & OPEN ALL SIDES OF ROUNDABOUT TO TRAFFIC.
3. INSTALL TRUCK APRON PAVEMENT & CURB.
4. REFER TO SHEET J0.5 FOR STAGE 3B PLAN.

GRAPHIC SCALE

100 0 50 100 200

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FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE.
CONSTRUCTION PLANS

STAGING & TRAFFIC CONTROL PLAN

REFERENCE NUMBER: 200605

DRAWN BY: EWM

CHECKED BY: JEJ

REVISION DATE:

PROJECT NUMBER: 200605-2

SHEET NUMBER: J0.1

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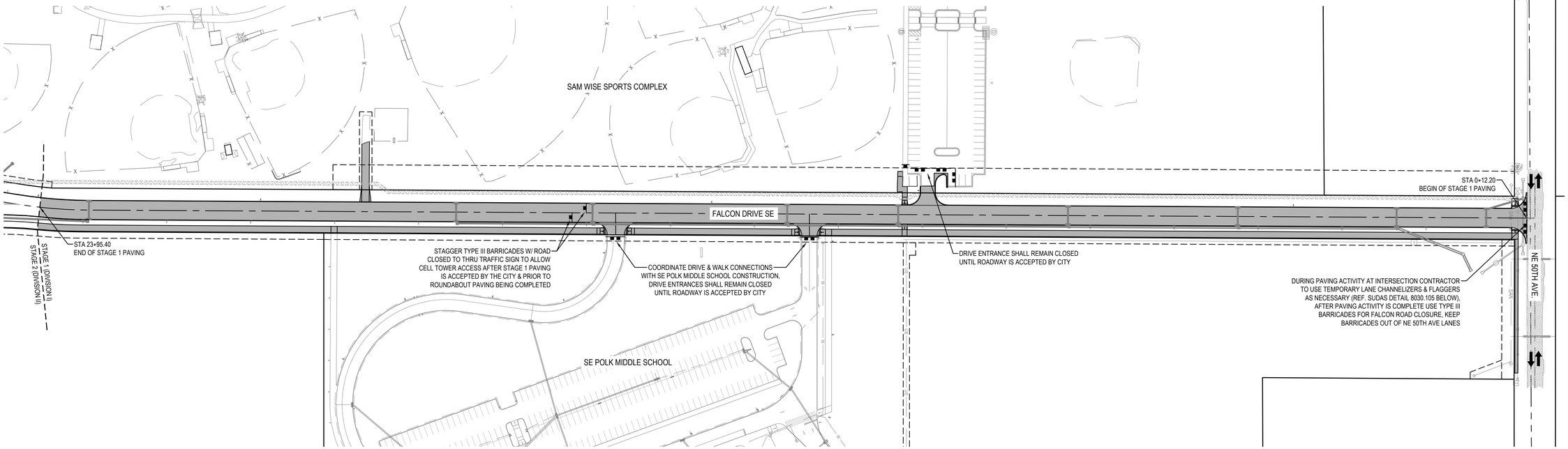
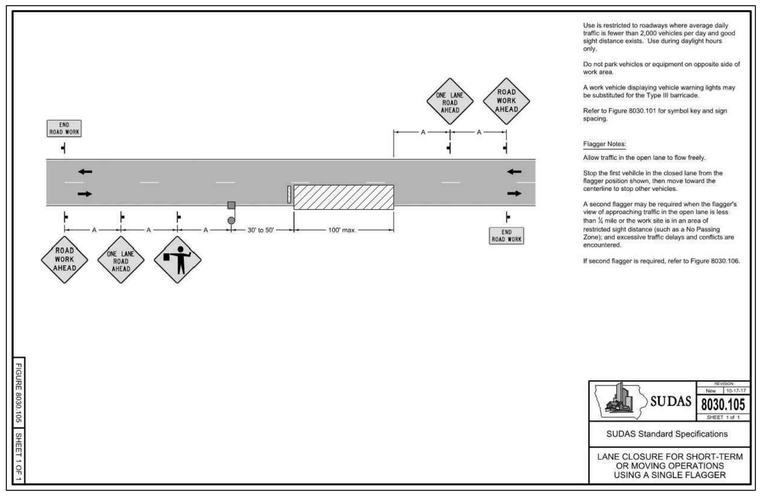
PRELIMINARY- NOT FOR CONSTRUCTION



STAGE 1 PAVING & TRAFFIC CONTROL PLAN



LEGEND

- TRAFFIC SIGN
- 42" CHANNELIZER W/ 30 LBS RECTANGULAR BASE
- TYPE III BARRICADE
- DIRECTION OF TRAFFIC
- STAGE 1 PAVING

GRAPHIC SCALE

80 0 40 80 160

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SHEET NUMBER: J0.2

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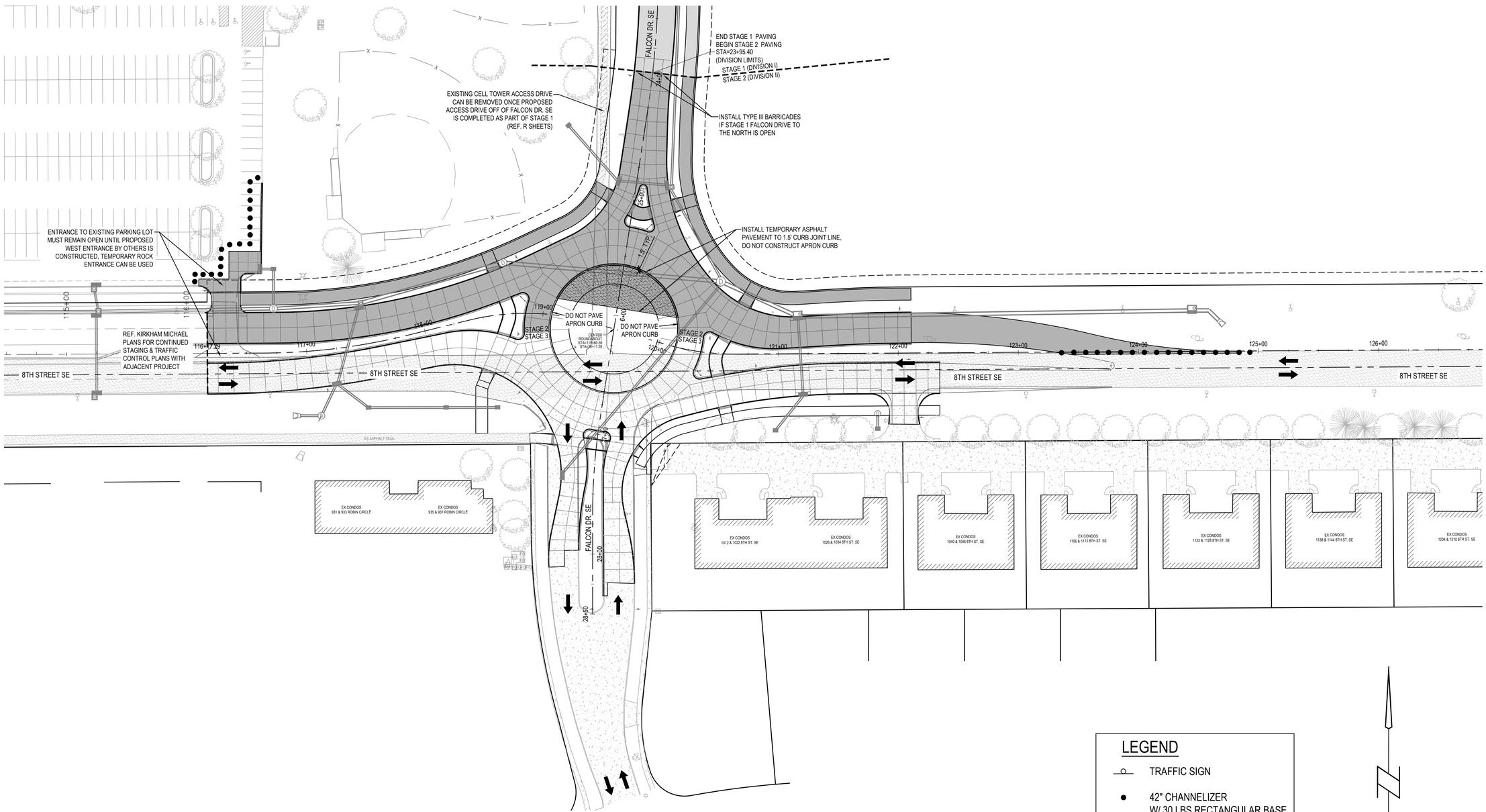

STAGE 2 PAVING & TRAFFIC CONTROL PLAN

LEGEND

- TRAFFIC SIGN
- 42" CHANNELIZER W/ 30 LBS RECTANGULAR BASE
- TYPE III BARRICADE
- DIRECTION OF TRAFFIC
- STAGE 1 PAVING
- STAGE 2 PAVING

GRAPHIC SCALE
40 0 20 40 80

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STAGING & TRAFFIC CONTROL PLAN

REFERENCE NUMBER: 200605

DRAWN BY: EWM

CHECKED BY: JEJ

REVISION DATE:

PROJECT NUMBER: 200605-2

SHEET NUMBER: J0.3

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PRELIMINARY. NOT FOR CONSTRUCTION

DETOUR LEGEND

DETOUR SIGNS

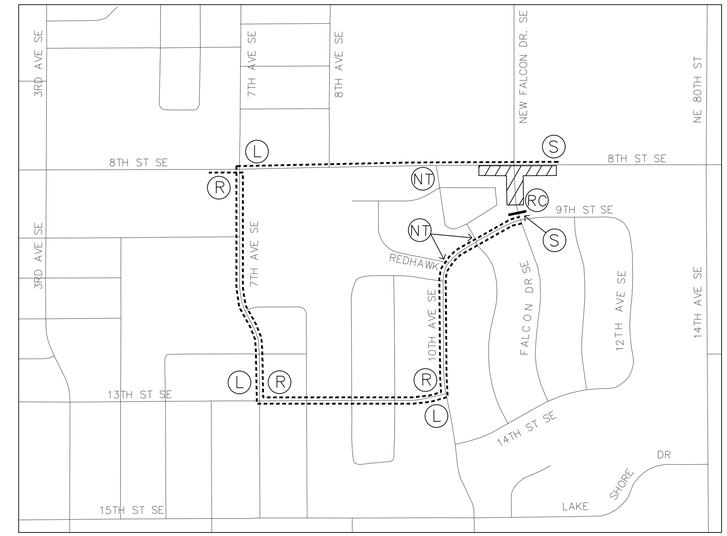
DETOUR M4-8 24"x12"	DETOUR M4-8 24"x12"	DETOUR M4-8 24"x12"
FALCON DR SE SPECIAL 48"x12"	FALCON DR SE SPECIAL 48"x12"	FALCON DR SE SPECIAL 48"x12"
M6-1 21"x15" (L)	M6-1 21"x15" (R)	M6-3 21"x15" (S)

DETOUR ROUTE

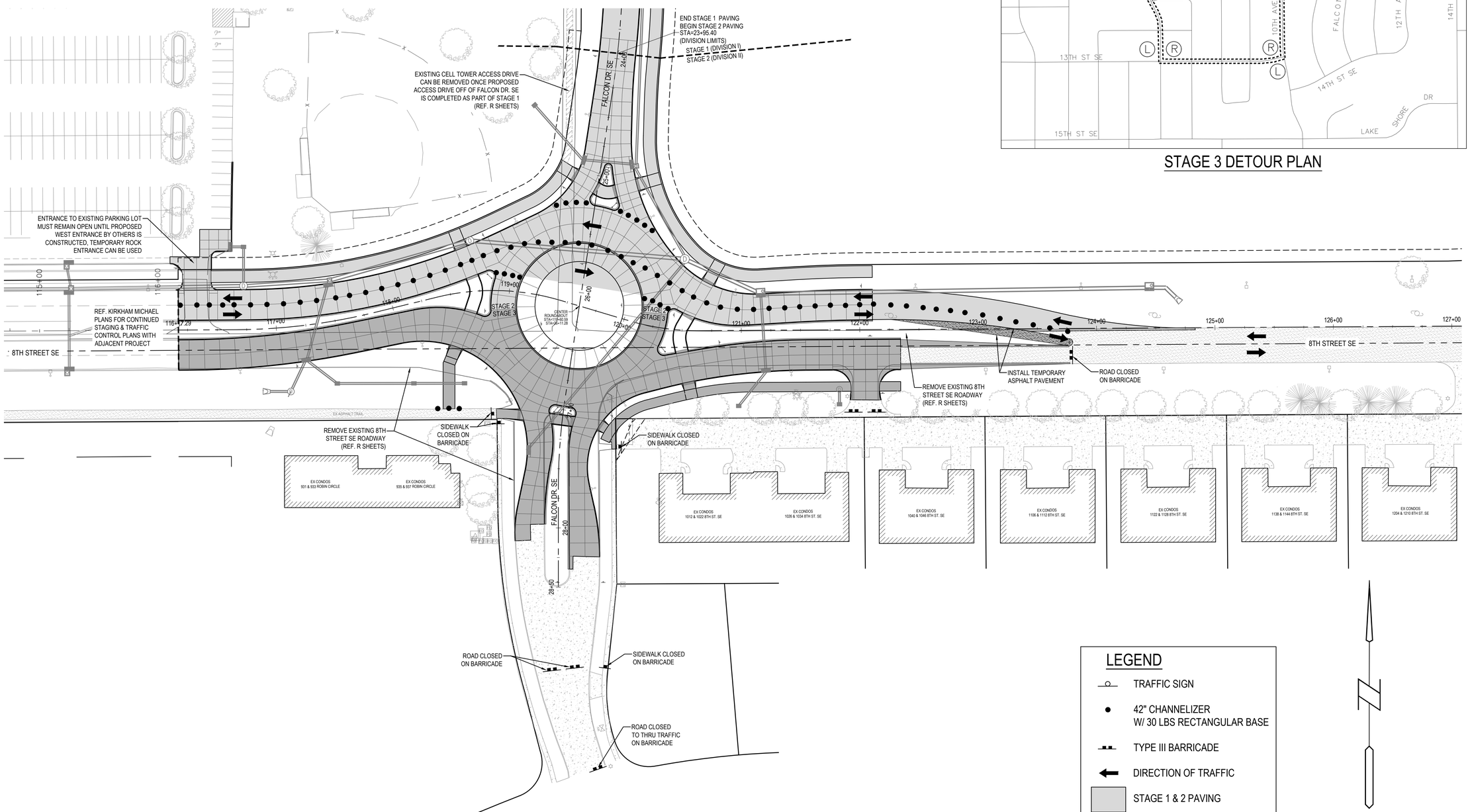
WORK AREA

RC: ROAD CLOSED BARRICADES WITH ORANGE CONSTRUCTION FENCING

NT: NOT A THRU STREET SIGNAGE (FOR PRIVATE DRIVES)



STAGE 3 DETOUR PLAN



STAGE 3 PAVING & TRAFFIC CONTROL PLAN

LEGEND

- TRAFFIC SIGN
- 42" CHANNELIZER W/ 30 LBS RECTANGULAR BASE
- TYPE III BARRICADE
- DIRECTION OF TRAFFIC
- STAGE 1 & 2 PAVING
- STAGE 3 PAVING

GRAPHIC SCALE

40 0 20 40 80

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FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE. CONSTRUCTION PLANS

STAGING & TRAFFIC CONTROL PLAN

REFERENCE NUMBER: 200605

DRAWN BY: EWM

CHECKED BY: JEJ

REVISION DATE:

PROJECT NUMBER: 200605-2

SHEET NUMBER: J0.4

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PRELIMINARY- NOT FOR CONSTRUCTION

DETOUR LEGEND

DETOUR SIGNS

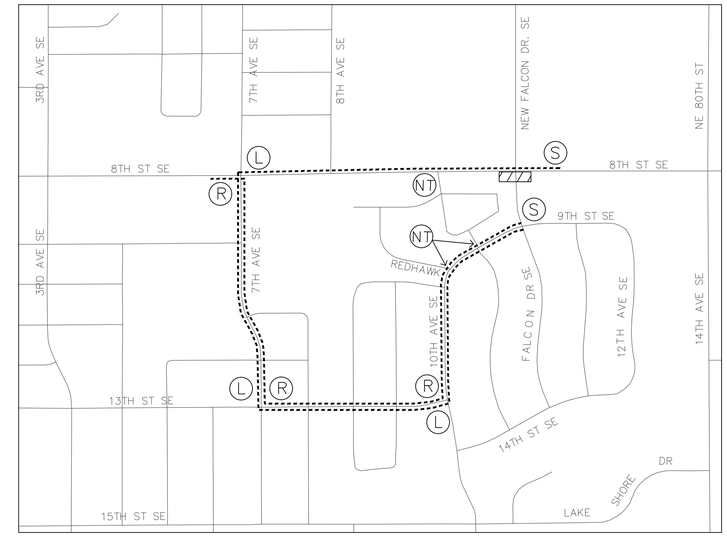
DETOUR M4-8 24"x12"	DETOUR M4-8 24"x12"	DETOUR M4-8 24"x12"
FALCON DR SE SPECIAL 48"x12"	FALCON DR SE SPECIAL 48"x12"	FALCON DR SE SPECIAL 48"x12"
M6-1 21"x15" (L)	M6-1 21"x15" (R)	M6-3 21"x15" (S)

DETOUR ROUTE

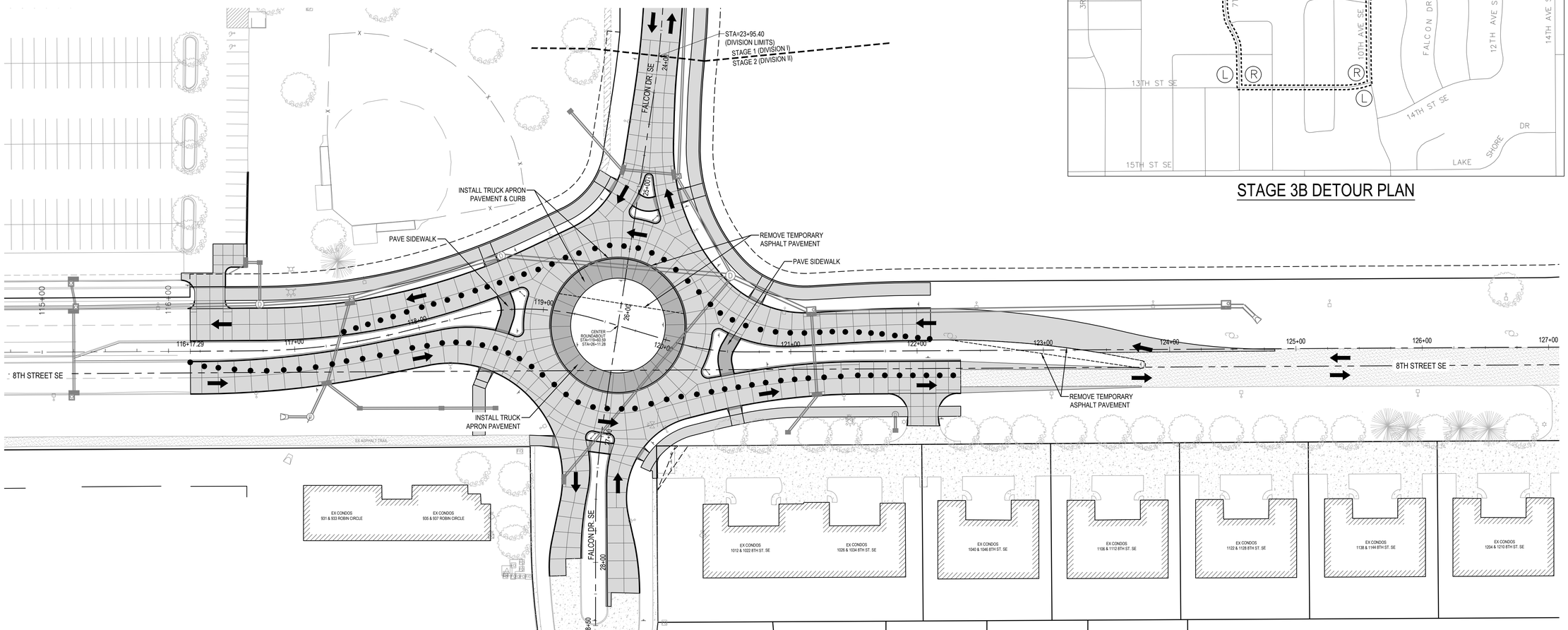
WORK AREA

RC: ROAD CLOSED BARRICADES WITH ORANGE CONSTRUCTION FENCING

NT: NOT A THRU STREET SIGNAGE (FOR PRIVATE DRIVES)



STAGE 3B DETOUR PLAN



STAGE 3B PAVING & TRAFFIC CONTROL PLAN

LEGEND

- TRAFFIC SIGN
- 42" CHANNELIZER W/ 30 LBS RECTANGULAR BASE
- TYPE III BARRICADE
- DIRECTION OF TRAFFIC
- STAGE 1,2 & 3 PAVING
- STAGE 3B PAVING

GRAPHIC SCALE

40 0 20 40 80

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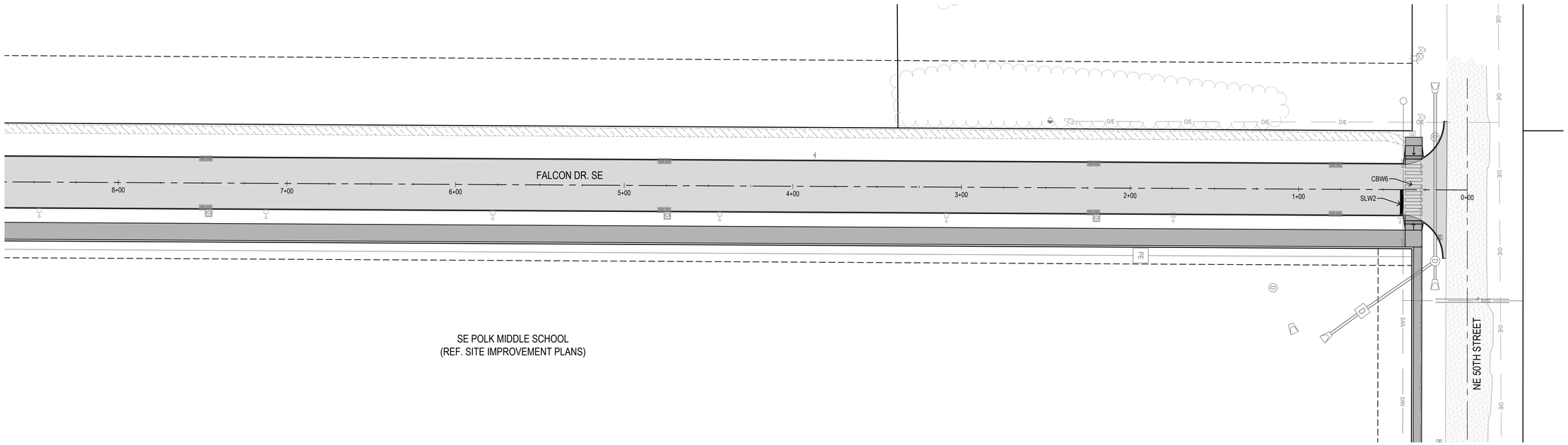

PREFORMED THERMOPLASTIC PAVEMENT MARKING NOTES:

THE FOLLOWING SHALL BE FOLLOWED FOR ALL PREFORMED THERMOPLASTIC PAVEMENT MARKINGS.

1. ALL PAVEMENT MARKINGS SHALL BE SURVEYED AND MARKED OUT BY BISHOP ENGINEERING AT NO COST TO THE CONTRACTOR.
2. ALL PREFORMED THERMOPLASTIC MARKINGS SHALL BE GROOVE CUT.
3. GROOVE CUTS SHALL NOT EXCEED 1" FROM EDGE OF INDIVIDUAL MARKINGS. **GROVE CUT OF ENTIRE STRIPE WITH THE BREAKS IS NOT ALLOWED. GROVE CUTS FOR SYMBOLS SHALL FOLLOW THE SHAPE OF THE SYMBOL, NO LARGE SQUARE GROOVE CUTTING IS ALLOWED.**
4. BRUSH, CLEAN AND AIR-BLAST ALL AREAS AFTER PAVEMENT GROOVE CUTS. IT IS VERY IMPORTANT PAVEMENT IS CLEAN BEFORE APPLICATION OF MATERIAL.
5. APPLY PREMARK COMPATIBLE PRIMER SEALER BEFORE APPLICATION FOR PROPER ADHESION.
6. PRODUCT MUST COMPLY WITH: NO PAVEMENT TEMPERATURE RESTRICTIONS ARE REQUIRED AND PRODUCT MUST BE ABLE TO BE APPLIED WITHOUT PREHEATING PAVEMENT. PRODUCT SHALL HAVE REGULARLY SPACED INDENTS FOR VISUAL CUE DURING APPLICATION.
7. THERMOPLASTIC PAVEMENT MARKING PRE-APPROVED PRODUCT IS:
   - 7.1. PREMARK MARKINGS BY ENNIS-FLINT, 125 MIL THICKNESS.
   - 7.2. ANY SUBSTITUTIONS MUST BE PRE-APPROVED BY BISHOP ENGINEERING PRIOR TO BID DATE.
   - 7.3. NO SUBSTITUTIONS WILL BE ALLOWED AFTER BID DATE.
8. FOR REST OF INSTALLATION PROCESS, FOLLOW MANUFACTURER INSTRUCTIONS FOR PLACEMENT OF MARKINGS. INSTRUCTIONS MUST BE AVAILABLE FROM MANUFACTURER IN EACH PREMARK PACKAGE .

PAVEMENT LINE AND SYMBOL LEGEND

SLW4	SOLID LANE LINE (WHITE)	DCY4	DOUBLE CENTERLINE (YELLOW)	SLY4	SOLID LANE LINE (YELLOW)
BLW4	BROKEN LANE LINE (WHITE)	CHW8	CHANNELIZING LINE (WHITE)	CBW6	CROSSWALK BAR (WHITE)
SLW2	STOP LINE (WHITE)	MNY4	MEDIAN NOSE (YELLOW)	CLW6	CROSSWALK LINE (WHITE)
CCW1	CHANNELIZING CHEVRON (WHITE)	DLW8	DASHED LINE (WHITE)	DLW16	DOTTED LINE (WHITE)
STAW	STRAIGHT ARROW (WHITE)	RTAW	RIGHT TURN ARROW (WHITE)	LTAW	LEFT TURN ARROW (WHITE)
CSLW	COMBINED STRAIGHT & LEFT TURN ARROW (WHITE)			ONLW	ONLY WORD MARK (WHITE)
CSRW(FH)	COMBINED STRAIGHT & LEFT FISH HOOK TURN ARROW (WHITE)			ELW6	EDGE LINE (WHITE)
CSLW(FH)	COMBINED STRAIGHT & RIGHT FISH HOOK TURN ARROW (WHITE)				

GRAPHIC SCALE

30 0 15 30 60

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PAVEMENT MARKINGS

REFERENCE NUMBER: 200605

DRAWN BY: EWM

CHECKED BY: JEJ

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SHEET NUMBER: K1.1

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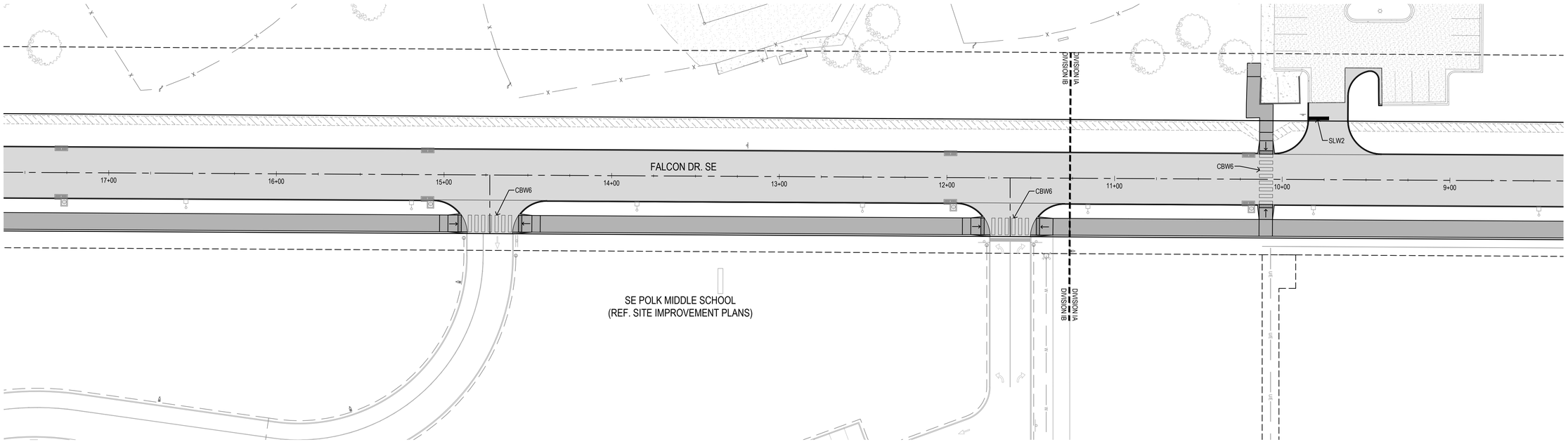

PAVEMENT LINE AND SYMBOL LEGEND

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GRAPHIC SCALE

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PAVEMENT MARKINGS

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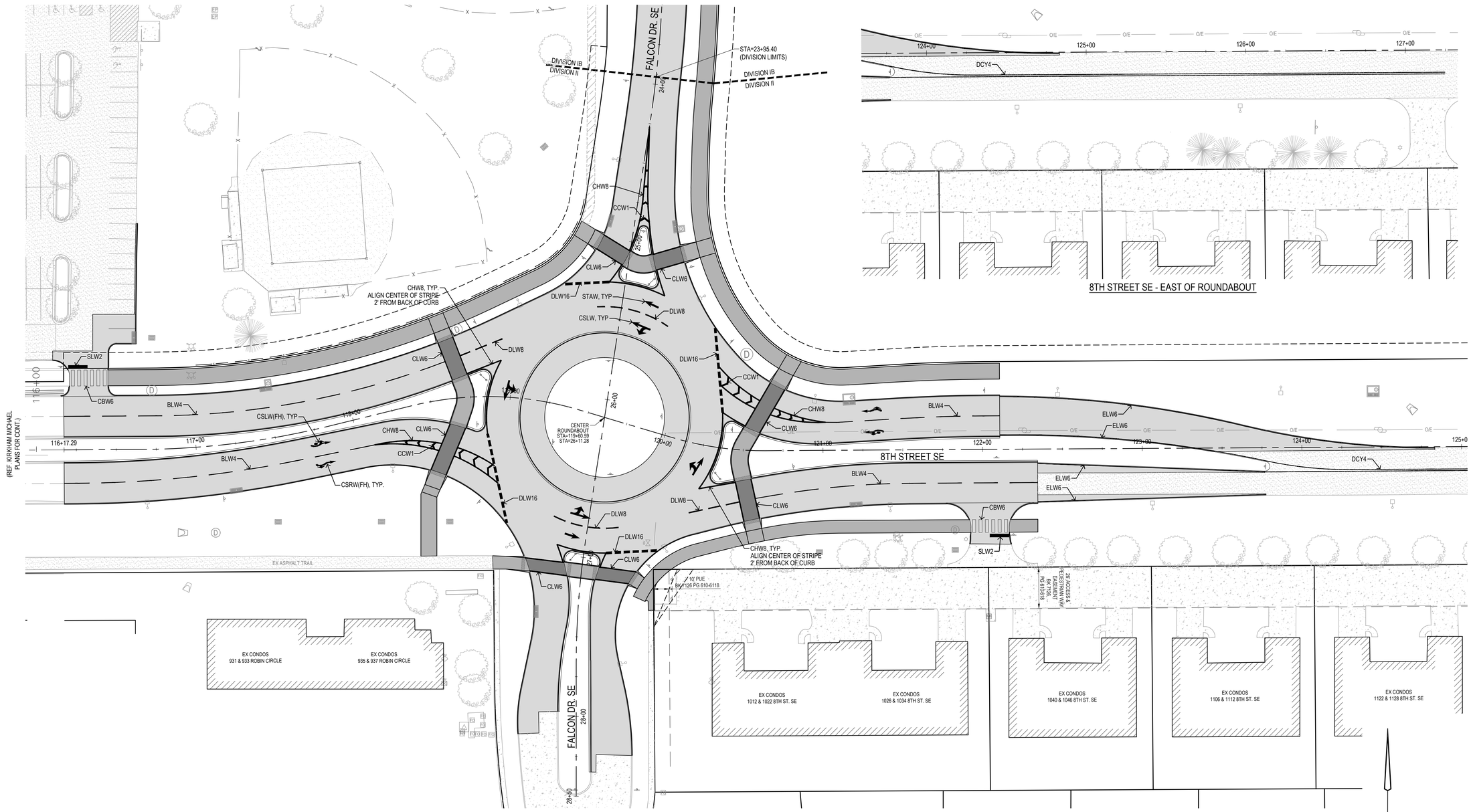

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SLW2	STOP LINE (WHITE)	MNY4	MEDIAN NOSE (YELLOW)	CLW6	CROSSWALK LINE (WHITE)
CCW1	CHANNELIZING CHEVRON (WHITE)	DLW8	DASHED LINE (WHITE)	DLW16	DOTTED LINE (WHITE)
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30 0 15 30 60

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FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE. CONSTRUCTION PLANS

PAVEMENT MARKINGS

REFERENCE NUMBER: 200605

DRAWN BY: EWM

CHECKED BY: JEJ

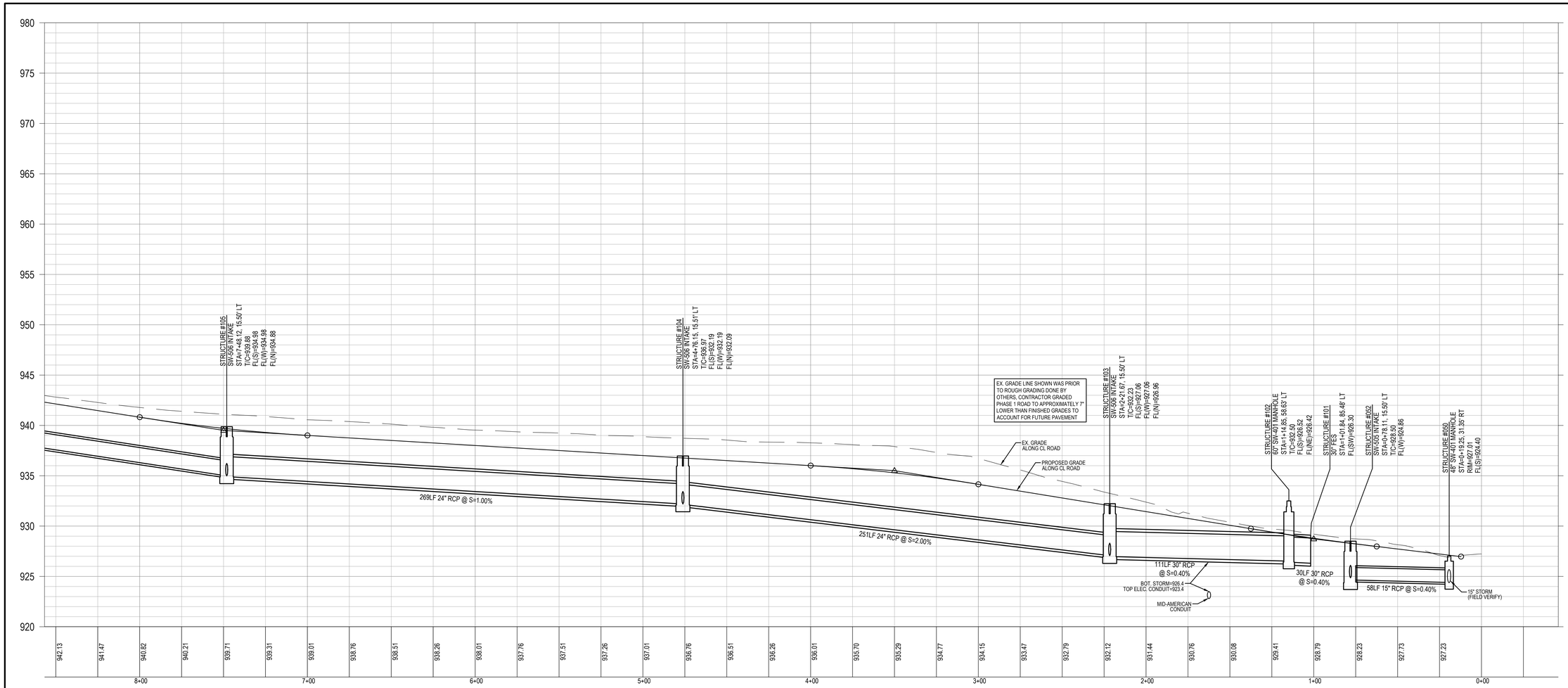
REVISION DATE:

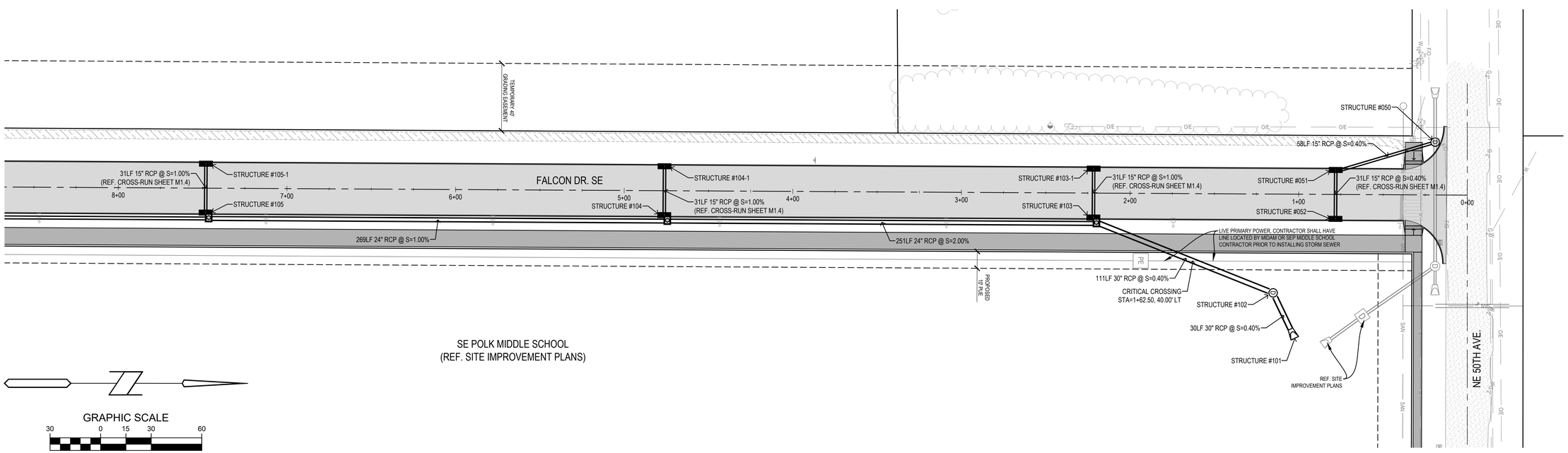
PROJECT NUMBER: 200605-2

SHEET NUMBER: K2.1

4/19/2023 12:39:46 PM L:\LAND PROJECTS 2020\200605-2 SE POLK MS FALCON AND ROUNDABOUT\DWG\K PAVEMENT MARKINGS.DWG

PRELIMINARY. NOT FOR CONSTRUCTION





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FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE.
CONSTRUCTION PLANS
STORM SEWER & UTILITY SHEETS

REFERENCE NUMBER: 200605

DRAWN BY: EWM

CHECKED BY: JEJ

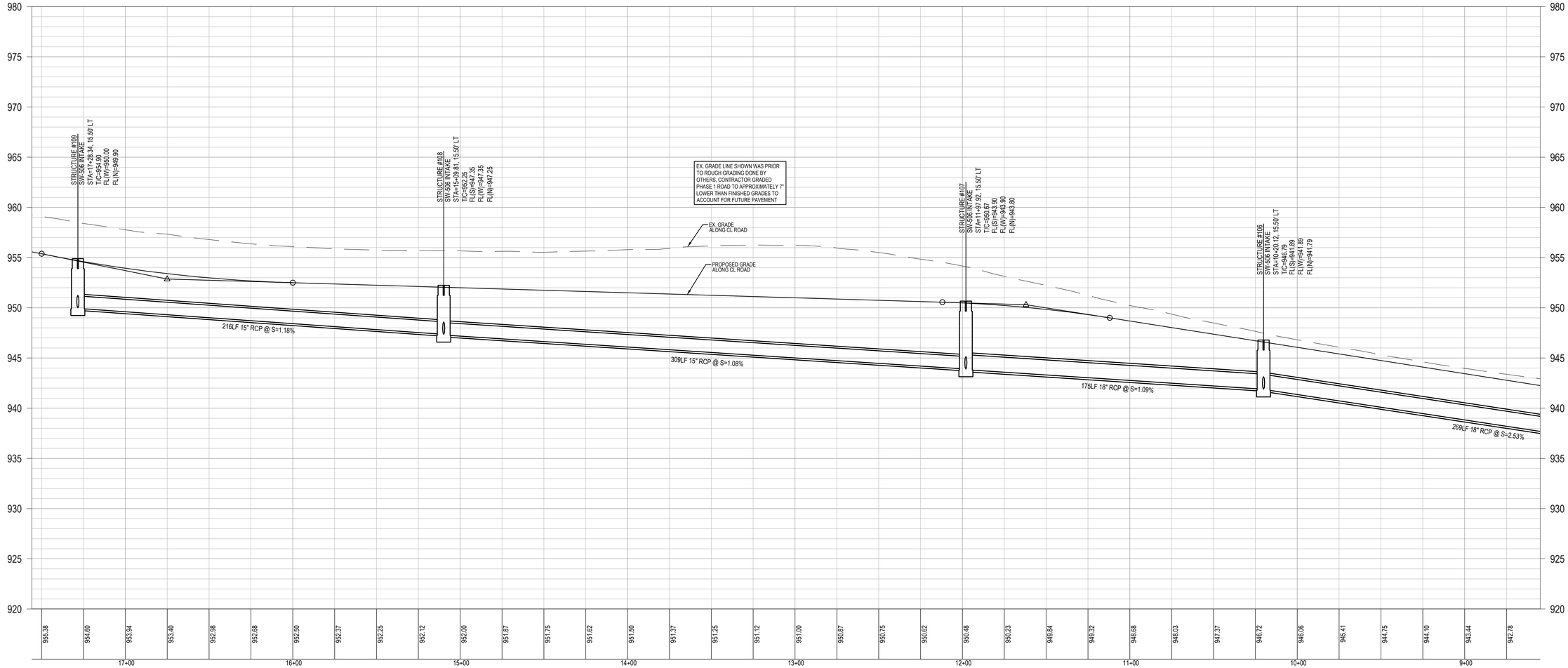
REVISION DATE:

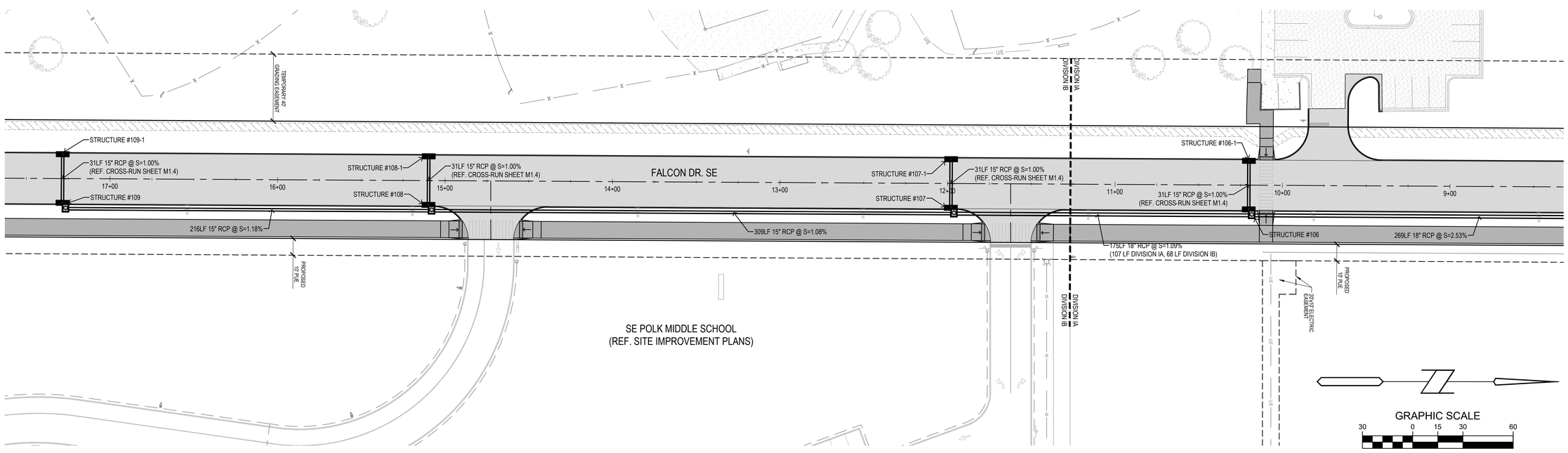
PROJECT NUMBER: 200605-2

SHEET NUMBER: M1.1

4/19/2023 12:41:52 PM L:\LAND PROJECTS 2020\200605-2 SE POLK MS FALCON AND ROUNDABOUT\DWG\M STORM & UTILITY.DWG

PRELIMINARY. NOT FOR CONSTRUCTION





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FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE.
CONSTRUCTION PLANS
STORM SEWER & UTILITY SHEETS

REFERENCE NUMBER: 200605

DRAWN BY: EWM

CHECKED BY: JEJ

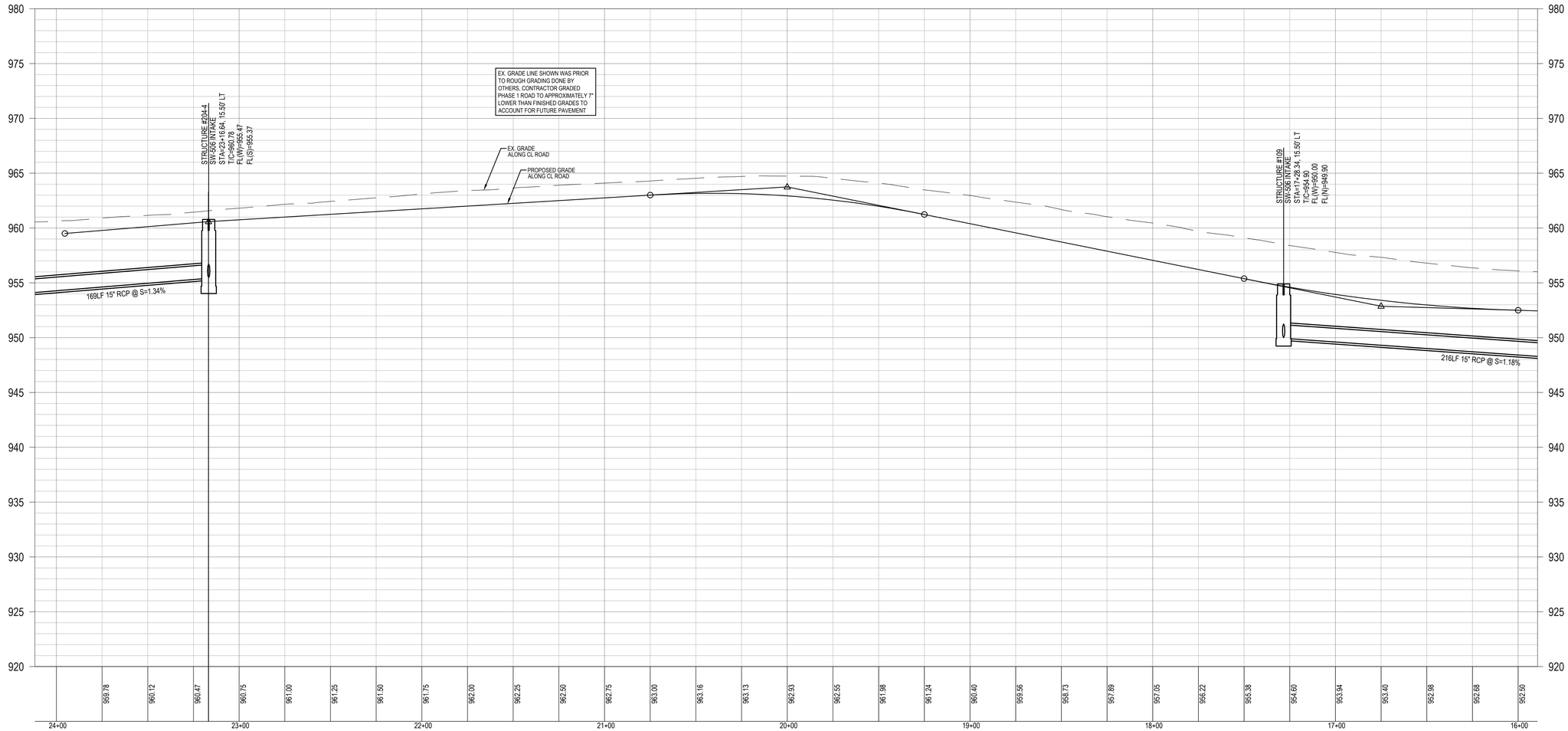
REVISION DATE:

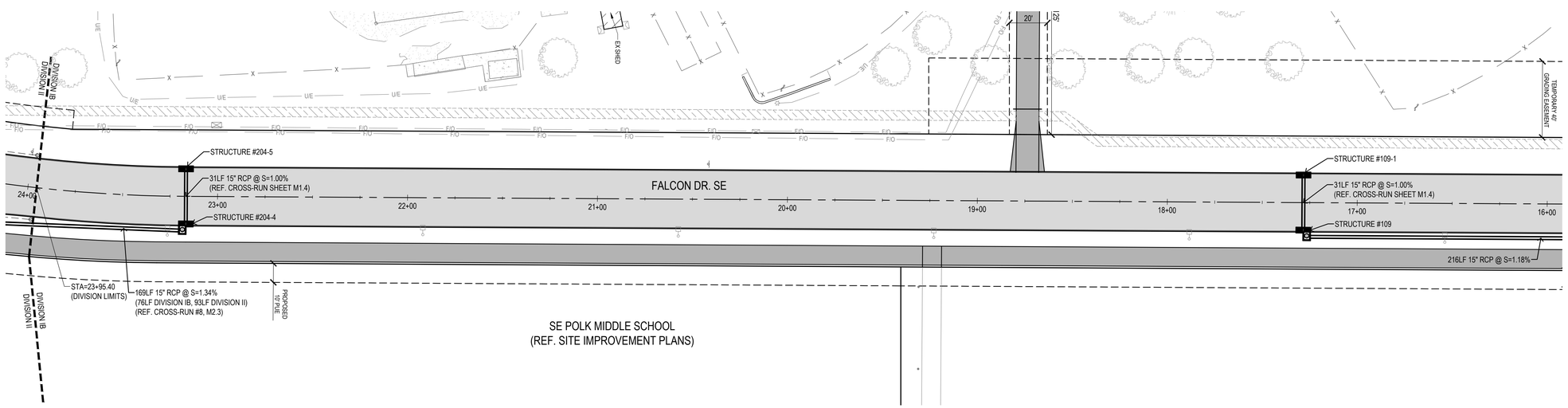
PROJECT NUMBER: 200605-2

SHEET NUMBER: M1.2

4/19/2023 12:43:10 PM L:\LAND PROJECTS 2020\200605-2 SE POLK MS FALCON AND ROUNDABOUT\DWG\M STORM & UTILITY.DWG

PRELIMINARY. NOT FOR CONSTRUCTION





GRAPHIC SCALE
30 0 15 30 60

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FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE.
CONSTRUCTION PLANS
STORM SEWER & UTILITY SHEETS

REFERENCE NUMBER: 200605

DRAWN BY: EWM

CHECKED BY: JEJ

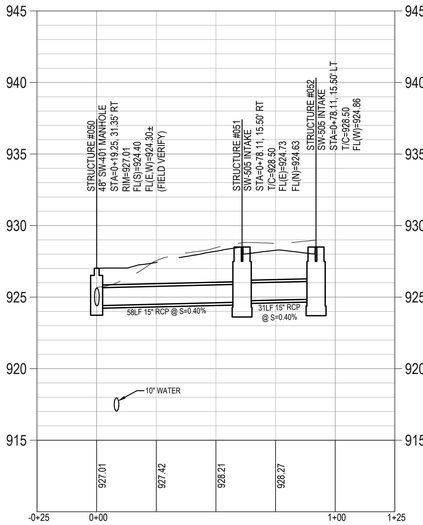
REVISION DATE:

PROJECT NUMBER: 200605-2

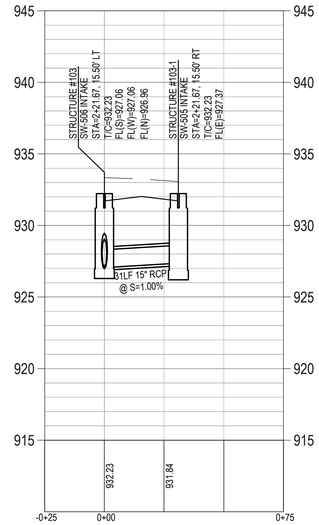
SHEET NUMBER: M1.3

4/19/2023 12:44:26 PM L:\LAND PROJECTS 2020\200605-2 SE POLK MS FALCON AND ROUNDABOUT\DWG\M STORM & UTILITY.DWG

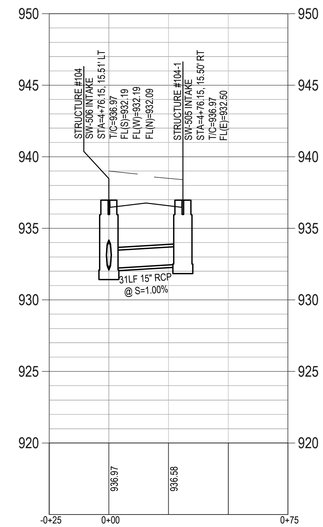
PRELIMINARY- NOT FOR CONSTRUCTION



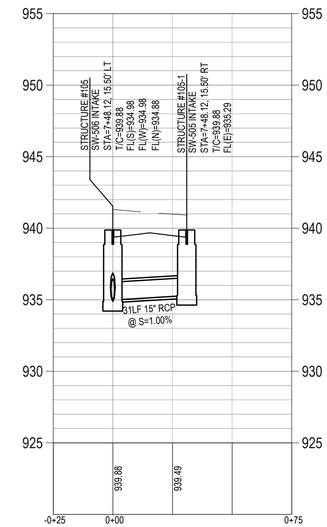
CROSS RUN DETAIL
FALCON DR. SE @ STA 0+78.11
SCALE: 1"=30'



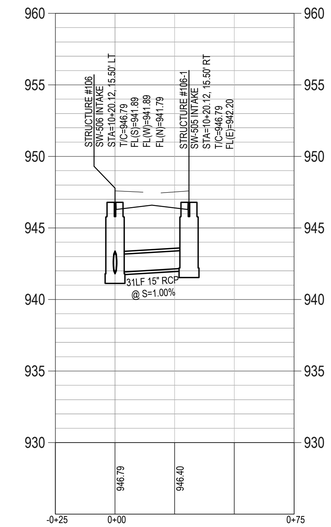
CROSS RUN DETAIL
FALCON DR. SE @ STA 2+21.67
SCALE: 1"=30'



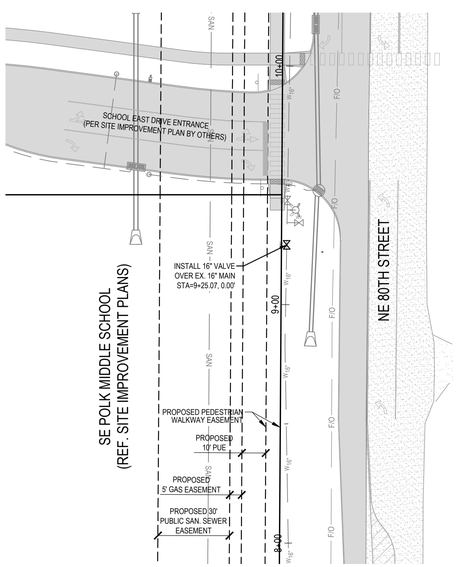
CROSS RUN DETAIL
FALCON DR. SE @ STA 4+76.15
SCALE: 1"=30'



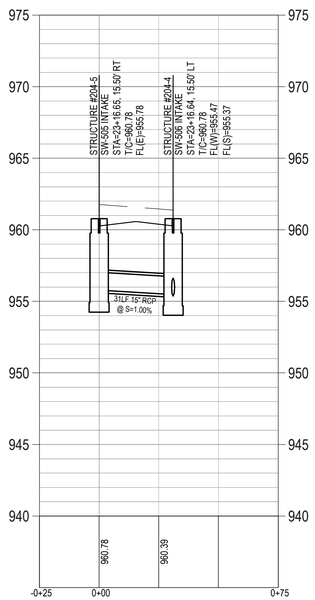
CROSS RUN DETAIL
FALCON DR. SE @ STA 7+48.12
SCALE: 1"=30'



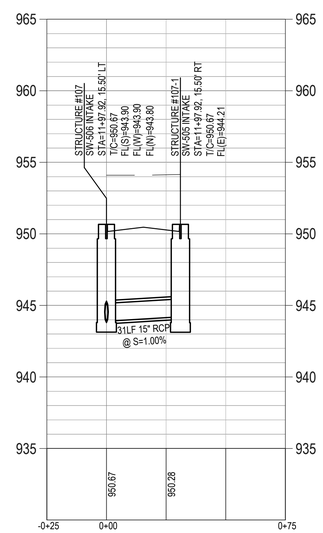
CROSS RUN DETAIL
FALCON DR. SE @ STA 10+20.12
SCALE: 1"=30'



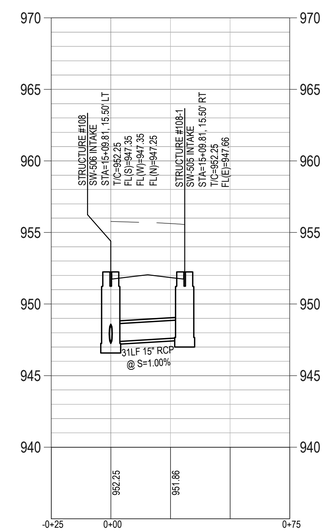
NEW 16" WATER VALVE DETAIL (DIVISION IB)
NE 80TH STREET @ STA 9+25.07
SCALE: 1"=30'



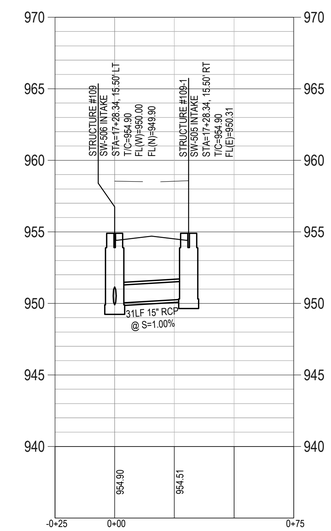
CROSS RUN DETAIL
FALCON DR. SE @ STA 23+16.64
SCALE: 1"=30'



CROSS RUN DETAIL
FALCON DR. SE @ STA 11+97.92
SCALE: 1"=30'



CROSS RUN DETAIL
FALCON DR. SE @ STA 15+09.81
SCALE: 1"=30'



CROSS RUN DETAIL
FALCON DR. SE @ STA 17+28.34
SCALE: 1"=30'

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FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE.
CONSTRUCTION PLANS

STORM SEWER & UTILITY SHEETS

REFERENCE NUMBER: 200605

DRAWN BY: EWM

CHECKED BY: JEJ

REVISION DATE:

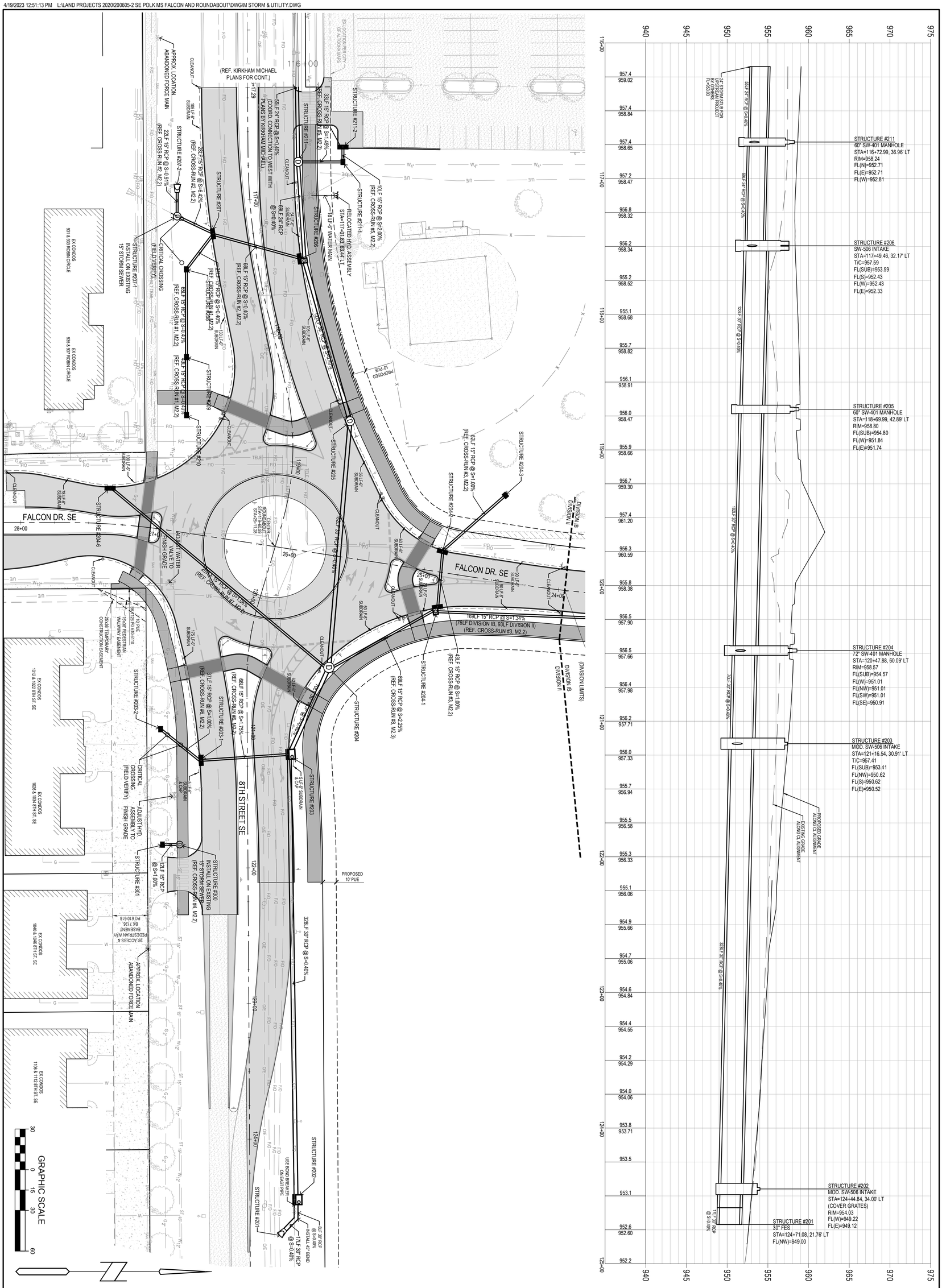
PROJECT NUMBER: 200605-2

SHEET NUMBER: M1.4

4/19/2023 12:50:00 PM L:\LAND PROJECTS 2020\200605-2 SE POLK MS FALCON AND ROUNDABOUT\DWG\M STORM & UTILITY.DWG

PRELIMINARY- NOT FOR CONSTRUCTION

4/19/2023 12:51:13 PM L:\LAND PROJECTS 2020\200605-2 SE POLK MS FALCON AND ROUNDABOUT\DWG\M STORM & UTILITY.DWG



PROJECT NUMBER: 200605-2		REFERENCE NUMBER: 200605	FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE. CONSTRUCTION PLANS
SHEET NUMBER: M2.1		DRAWN BY: EWM	**STORM SEWER & UTILITY SHEETS**
		CHECKED BY: JEJ	
		REVISION DATE:	

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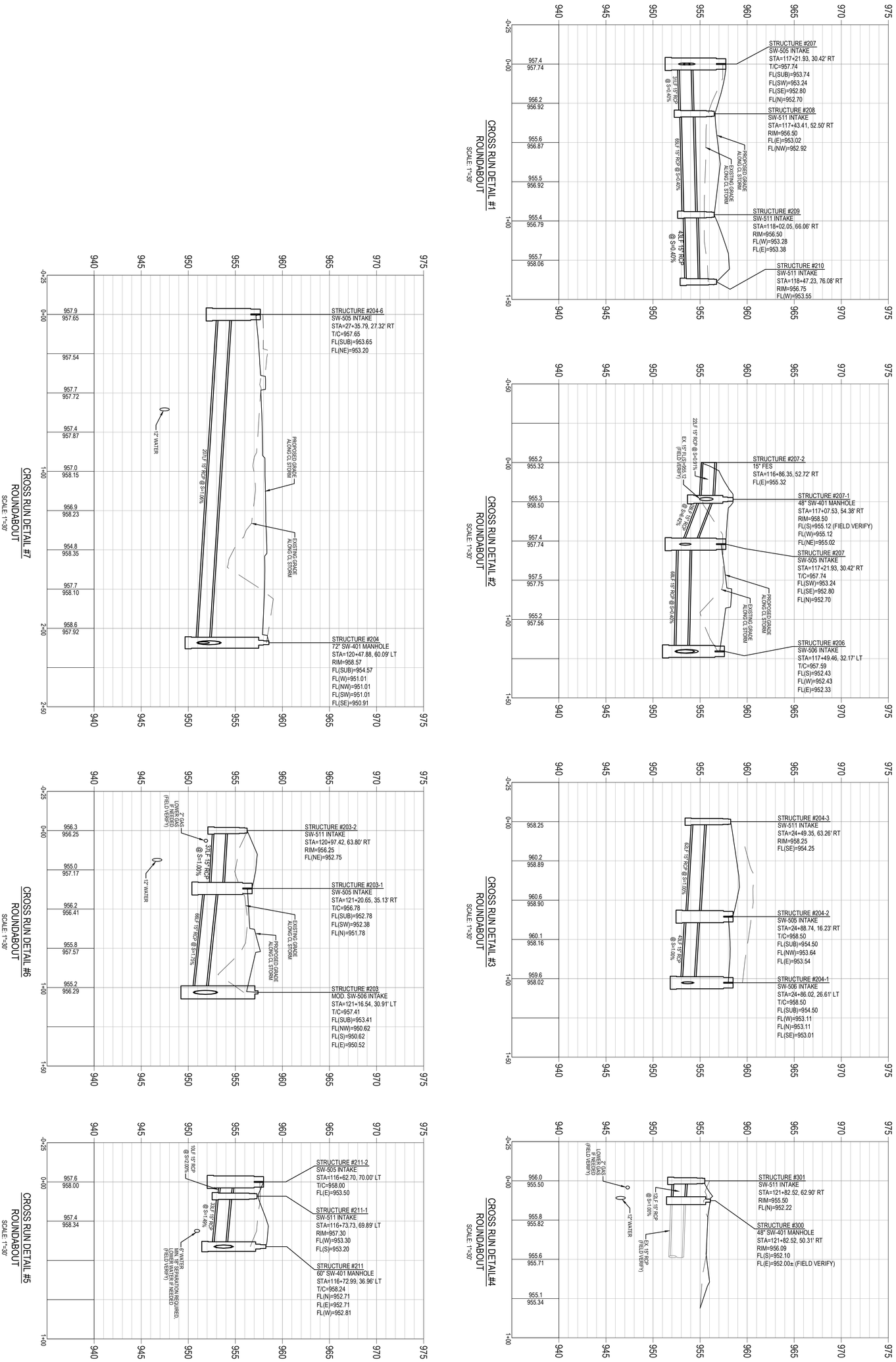

PROJECT NUMBER: 200605-2	REFERENCE NUMBER: 200605
SHEET NUMBER: M2.2	DRAWN BY: EWM
	CHECKED BY: JEJ
	REVISION DATE:

FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE.

CONSTRUCTION PLANS

STORM SEWER & UTILITY SHEETS

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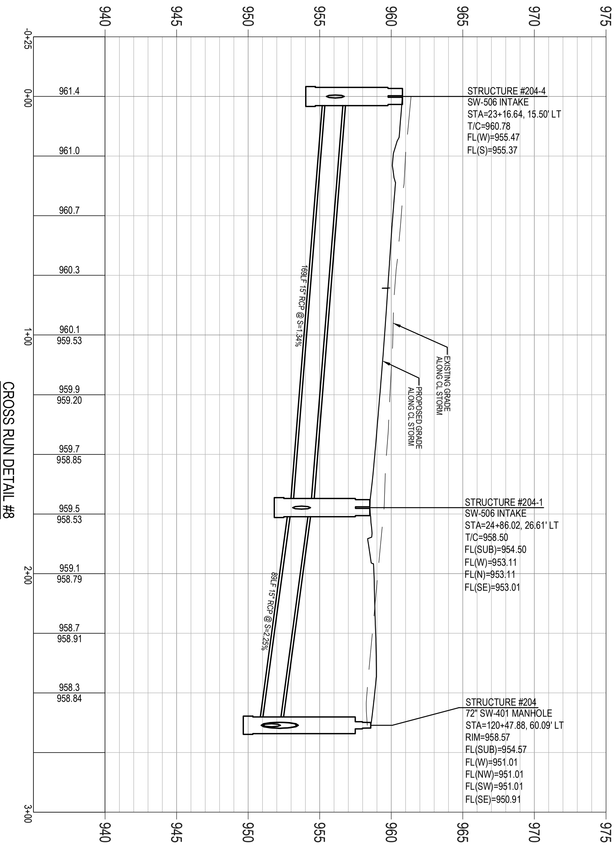

CROSS RUN DETAIL #8
ROUNDABOUT
SCALE 1"=30'

REFERENCE NUMBER:	200605
DRAWN BY:	EWM
CHECKED BY:	JEJ
REVISION DATE:	
PROJECT NUMBER:	200605-2
SHEET NUMBER:	M2.3

FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE.
CONSTRUCTION PLANS

STORM SEWER & UTILITY SHEETS

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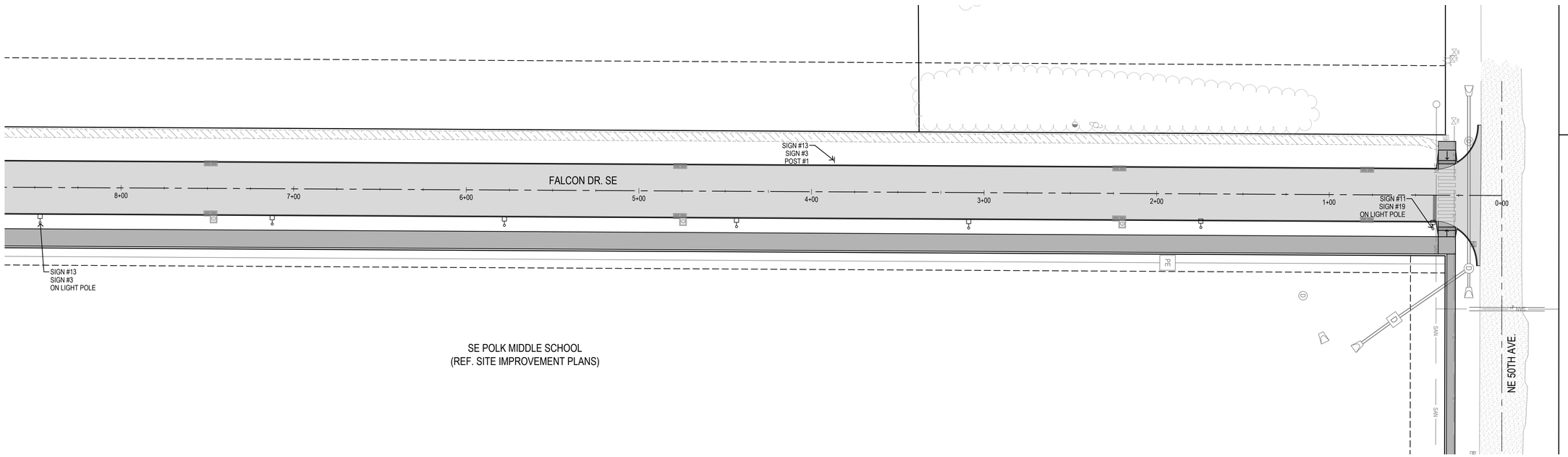
4/19/2023 12:56:56 PM L:\LAND PROJECTS 2020\200605-2 SE POLK MS FALCON AND ROUNDABOUT\DWG\N SIGNAGE.DWG



SIGN LEGEND

SIGN #	MUTCD CODE	DESCRIPTION	SIZE	HEIGHT*	NOTES
1	R1-2	YIELD	30"x30"x30"	84"	
2	N/A	TO TRAFFIC FROM LEFT (PLAQUE)	24"x18"	84"	MODIFIED R2-6P
3	R2-1	SPEED LIMIT (25 MPH)	24"x30"	84"	
4	R6-2R	ONE WAY (VERTICAL)	24"x30"	84"	
5	OM1-2	TYPE 1 OBJECT MARKER	18"x18"	48"	MOUNTED AT 45°
6	D1-1	MODIFIED STREET NAME SIGN W/ ARROW 6" WHITE LETTERS ON BLACK BACKGROUND	VARIESx12"	48"	ARROW ON RIGHT SIDE POINTING UP AND RIGHT
7	R6-4A	ROUNDABOUT DIRECTIONAL	48"x24"	48"	
8	R3-8	ADVANCE INTERSECTION LANE CONTROL	30"x30"	48"	
9	W2-6	INTERSECTION WARNING	30"x30"	84"	
10	W13-1P	ADVISORY SPEED (PLAQUE) (15 MPH)	18"x18"	84"	
11	R1-1	STOP	30"x30"	84"	
12	OM4-2	TYPE 4 OBJECT MARKER	18"x18"	48"	MOUNTED AT 45°
13	R8-3	NO PARKING (SYMBOL)	24"x24"	84"	
14	R6-1R	ONE WAY	36"x12"	48"	
15	R3-2	NO LEFT TURN	24"x24"	84"	
16	S1-1	SCHOOL	36"x36"	84"	
17	W16-7P	DIAGONAL ARROW (PLAQUE)	24"x12"	84"	
18	W16-2aP	200 FT (PLAQUE)	24"x12"	84"	
19	N/A	"STANDARD" ALTOONA STREET NAME SIGN	VARIESx8"	84"	SEE ESTIMATE REFERENCE
20	R4-7	KEEP RIGHT	24"x30"	84"	
21	R4-2L	LEFT LANE ENDS MERGE RIGHT	30"x30"	84"	

*ALL HEIGHTS ARE THE MINIMUM DISTANCE MEASURED FROM THE ELEVATION OF THE TRAVELED WAY TO THE BOTTOM OF THE LOWEST MOUNTED SIGN

TRAFFIC SIGN NOTES:

1. SIGNS SHALL BE MOUNTED ON A 2"x2" SQUARE TUBE GALVANIZED STEEL POLE OR MOUNTED ON LIGHT POLES PER PLANS.
2. POSTS SHALL BE DIRECT BURIED A MINIMUM OF 4 FEET.
3. SIGNS SHALL BE MOUNTED 5 FEET HIGH FROM THE FINISHED GROUND GRADE TO BOTTOM OF THE SIGN.
4. ALL TRAFFIC SIGNS SHALL BE PROVIDED & INSTALLED BY THE CONTRACTOR.
5. TRAFFIC SIGNS MOUNTED ON LIGHT POLES SHALL BE MOUNTED WITH A STAINLESS STEEL BAND. NO DRILLING IS ALLOWED.
6. FOR ALL POSTS CALLED OUT WITH MULTIPLE SIGNS, THE SIGNS SHALL BE IN THE ORDERED SHOWN, FROM TOP TO BOTTOM (EXCEPT WHEN ON OPPOSITE SIDES OF THE SIGN POST).

SIGN POST LEGEND

POST #	DESCRIPTION
1	TELESPAR 2"X2" SQUARE TUBE GALVANIZED STEEL (14 GUAGE MIN.) WITH 7/16" KNOCK-OUT STYLE PERFORATIONS THAT ARE **NOT** PRE-PUNCHED

GRAPHIC SCALE

30 0 15 30 60

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FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE.
CONSTRUCTION PLANS

SIGNAGE PLAN

REFERENCE NUMBER: 200605

DRAWN BY: EWM

CHECKED BY: JEJ

REVISION DATE:

PROJECT NUMBER: 200605-2

SHEET NUMBER: N1.1

PRELIMINARY- NOT FOR CONSTRUCTION

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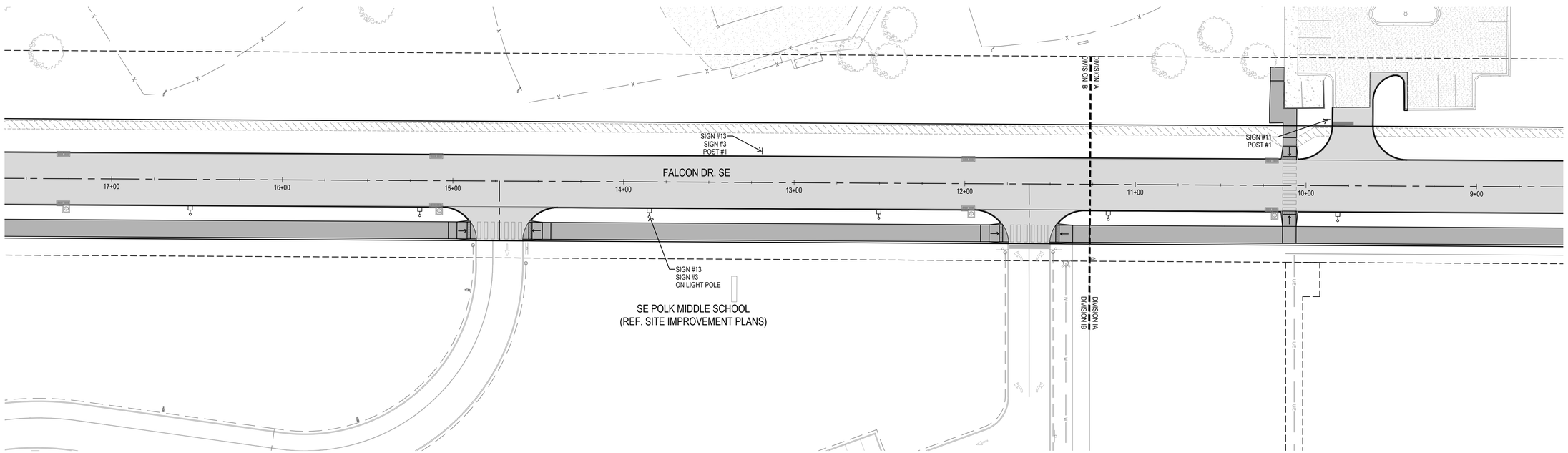

SIGN LEGEND

SIGN #	MUTCD CODE	DESCRIPTION	SIZE	HEIGHT*	NOTES
1	R1-2	YIELD	30"x30"x30"	84"	
2	N/A	TO TRAFFIC FROM LEFT (PLAQUE)	24"x18"	84"	MODIFIED R2-6P
3	R2-1	SPEED LIMIT (25 MPH)	24"x30"	84"	
4	R6-2R	ONE WAY (VERTICAL)	24"x30"	84"	
5	OM1-2	TYPE 1 OBJECT MARKER	18"x18"	48"	MOUNTED AT 45°
6	D1-1	MODIFIED STREET NAME SIGN W/ ARROW 6" WHITE LETTERS ON BLACK BACKGROUND	VARIESx12"	48"	ARROW ON RIGHT SIDE POINTING UP AND RIGHT
7	R6-4A	ROUNDABOUT DIRECTIONAL	48"x24"	48"	
8	R3-8	ADVANCE INTERSECTION LANE CONTROL	30"x30"	48"	
9	W2-6	INTERSECTION WARNING	30"x30"	84"	
10	W13-1P	ADVISORY SPEED (PLAQUE) (15 MPH)	18"x18"	84"	
11	R1-1	STOP	30"x30"	84"	
12	OM4-2	TYPE 4 OBJECT MARKER	18"x18"	48"	MOUNTED AT 45°
13	R8-3	NO PARKING (SYMBOL)	24"x24"	84"	
14	R6-1R	ONE WAY	36"x12"	48"	
15	R3-2	NO LEFT TURN	24"x24"	84"	
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18	W16-2aP	200 FT (PLAQUE)	24"x12"	84"	
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SIGN POST LEGEND

POST #	DESCRIPTION
1	TELESPAR 2"X2" SQUARE TUBE GALVANIZED STEEL (14 GUAGE MIN.) WITH 7/16" KNOCK-OUT STYLE PERFORATIONS THAT ARE **NOT** PRE-PUNCHED

GRAPHIC SCALE

30 0 15 30 60

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FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE.
CONSTRUCTION PLANS

SIGNAGE PLAN

REFERENCE NUMBER: 200605

DRAWN BY: EWM

CHECKED BY: JEJ

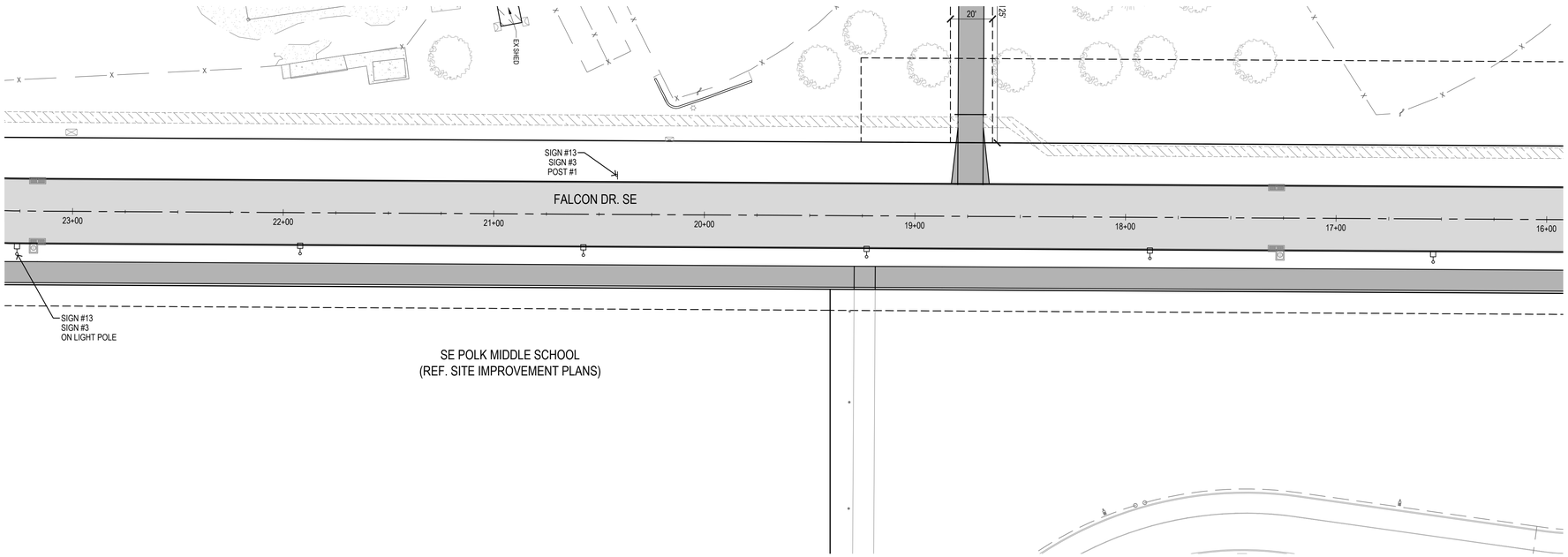
REVISION DATE:

PROJECT NUMBER: 200605-2

SHEET NUMBER: N1.2

PRELIMINARY- NOT FOR CONSTRUCTION

4/19/2023 12:58:15 PM L:\LAND PROJECTS 2020\200605-2 SE POLK MS FALCON AND ROUNDABOUT\DWG\N SIGNAGE.DWG



SIGN LEGEND

SIGN #	MUTCD CODE	DESCRIPTION	SIZE	HEIGHT*	NOTES
1	R1-2	YIELD	30"x30"x30"	84"	
2	N/A	TO TRAFFIC FROM LEFT (PLAQUE)	24"x18"	84"	MODIFIED R2-6P
3	R2-1	SPEED LIMIT (25 MPH)	24"x30"	84"	
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9	W2-6	INTERSECTION WARNING	30"x30"	84"	
10	W13-1P	ADVISORY SPEED (PLAQUE) (15 MPH)	18"x18"	84"	
11	R1-1	STOP	30"x30"	84"	
12	OM4-2	TYPE 4 OBJECT MARKER	18"x18"	48"	MOUNTED AT 45°
13	R8-3	NO PARKING (SYMBOL)	24"x24"	84"	
14	R6-1R	ONE WAY	36"x12"	48"	
15	R3-2	NO LEFT TURN	24"x24"	84"	
16	S1-1	SCHOOL	36"x36"	84"	
17	W16-7P	DIAGONAL ARROW (PLAQUE)	24"x12"	84"	
18	W16-2aP	200 FT (PLAQUE)	24"x12"	84"	
19	N/A	"STANDARD" ALTOONA STREET NAME SIGN	VARIESx8"	84"	SEE ESTIMATE REFERENCE
20	R4-7	KEEP RIGHT	24"x30"	84"	
21	R4-2L	LEFT LANE ENDS MERGE RIGHT	30"x30"	84"	

*ALL HEIGHTS ARE THE MINIMUM DISTANCE MEASURED FROM THE ELEVATION OF THE TRAVELED WAY TO THE BOTTOM OF THE LOWEST MOUNTED SIGN

TRAFFIC SIGN NOTES:

1. SIGNS SHALL BE MOUNTED ON A 2"x2" SQUARE TUBE GALVANIZED STEEL POLE OR MOUNTED ON LIGHT POLES PER PLANS.
2. POSTS SHALL BE DIRECT BURIED A MINIMUM OF 4 FEET.
3. SIGNS SHALL BE MOUNTED 5 FEET HIGH FROM THE FINISHED GROUND GRADE TO BOTTOM OF THE SIGN.
4. ALL TRAFFIC SIGNS SHALL BE PROVIDED & INSTALLED BY THE CONTRACTOR.
5. TRAFFIC SIGNS MOUNTED ON LIGHT POLES SHALL BE MOUNTED WITH A STAINLESS STEEL BAND. NO DRILLING IS ALLOWED.
6. FOR ALL POSTS CALLED OUT WITH MULTIPLE SIGNS, THE SIGNS SHALL BE IN THE ORDERED SHOWN, FROM TOP TO BOTTOM (EXCEPT WHEN ON OPPOSITE SIDES OF THE SIGN POST).

SIGN POST LEGEND

POST #	DESCRIPTION
1	TELESPAR 2"X2" SQUARE TUBE GALVANIZED STEEL (14 GUAGE MIN.) WITH 7/16" KNOCK-OUT STYLE PERFORATIONS THAT ARE **NOT** PRE-PUNCHED

GRAPHIC SCALE

30 0 15 30 60

Bishop Engineering
"Planning Your Successful Development"
3501 104th Street
Des Moines, Iowa 50322-3825
Phone: (515)276-0467 Fax: (515)276-0217
Civil Engineering & Land Surveying Established 1959

FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE.
CONSTRUCTION PLANS

SIGNAGE PLAN

REFERENCE NUMBER: 200605

DRAWN BY: EWM

CHECKED BY: JEJ

REVISION DATE:

PROJECT NUMBER: 200605-2

SHEET NUMBER: N1.3

PRELIMINARY- NOT FOR CONSTRUCTION

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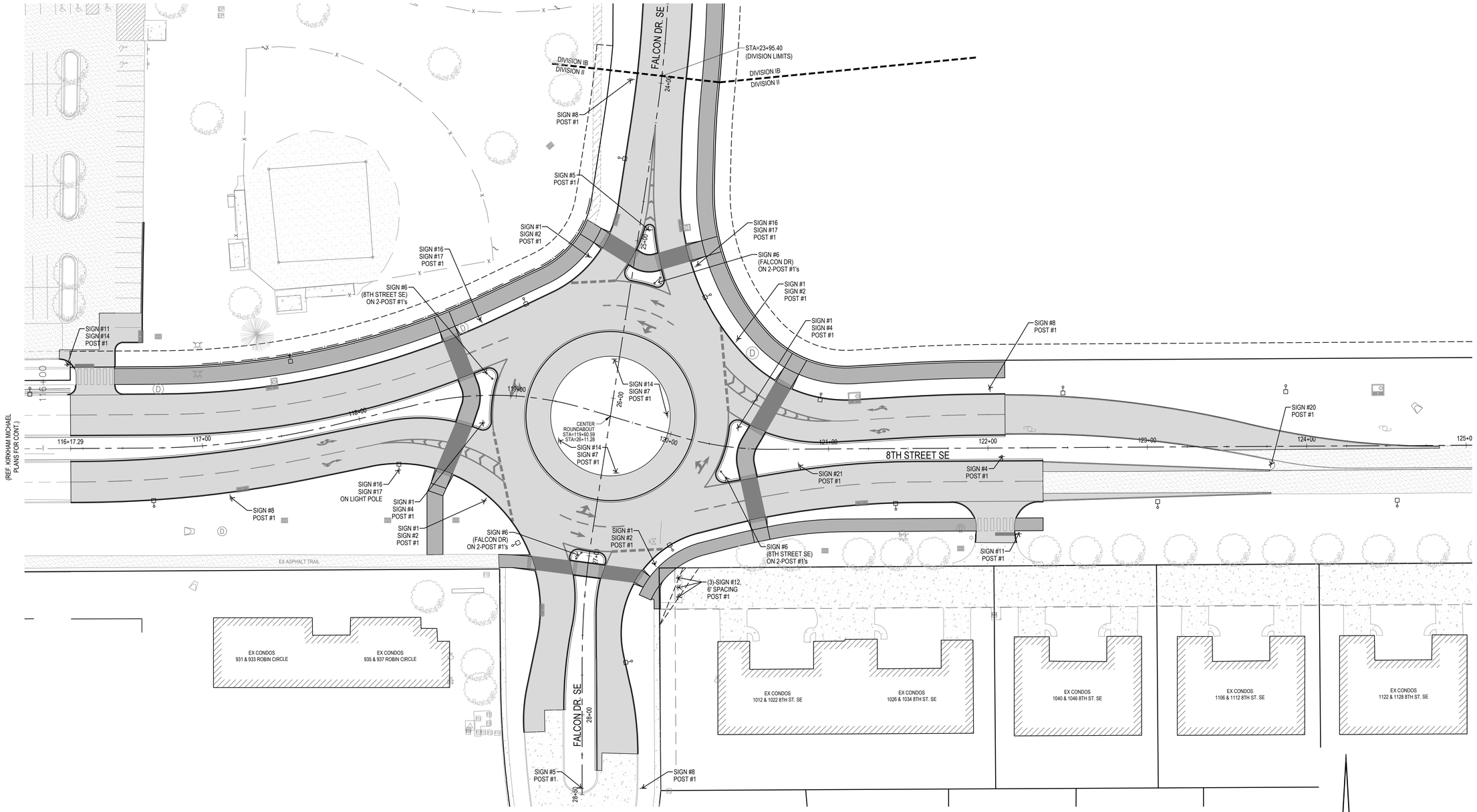

SIGN LEGEND

SIGN #	MUTCD CODE	DESCRIPTION	SIZE	HEIGHT*	NOTES
1	R1-2	YIELD	30"x30"x30"	84"	
2	N/A	TO TRAFFIC FROM LEFT (PLAQUE)	24"x18"	84"	MODIFIED R2-6P
3	R2-1	SPEED LIMIT (25 MPH)	24"x30"	84"	
4	R6-2R	ONE WAY (VERTICAL)	24"x30"	84"	
5	OM1-2	TYPE 1 OBJECT MARKER	18"x18"	48"	MOUNTED AT 45°
6	D1-1	MODIFIED STREET NAME SIGN W/ ARROW 6" WHITE LETTERS ON BLACK BACKGROUND	VARIESx12"	48"	ARROW ON RIGHT SIDE POINTING UP AND RIGHT
7	R6-4A	ROUNDABOUT DIRECTIONAL	48"x24"	48"	
8	R3-8	ADVANCE INTERSECTION LANE CONTROL	30"x30"	48"	
9	W2-6	INTERSECTION WARNING	30"x30"	84"	
10	W13-1P	ADVISORY SPEED (PLAQUE) (15 MPH)	18"x18"	84"	
11	R1-1	STOP	30"x30"	84"	
12	OM4-2	TYPE 4 OBJECT MARKER	18"x18"	48"	MOUNTED AT 45°
13	R8-3	NO PARKING (SYMBOL)	24"x24"	84"	
14	R6-1R	ONE WAY	36"x12"	48"	
15	R3-2	NO LEFT TURN	24"x24"	84"	
16	S1-1	SCHOOL	36"x36"	84"	
17	W16-7P	DIAGONAL ARROW (PLAQUE)	24"x12"	84"	
18	W16-2aP	200 FT (PLAQUE)	24"x12"	84"	
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SIGN POST LEGEND

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GRAPHIC SCALE

30 0 15 30 60

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FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE.
CONSTRUCTION PLANS

SIGNAGE PLAN

REFERENCE NUMBER: 200605

DRAWN BY: EWM

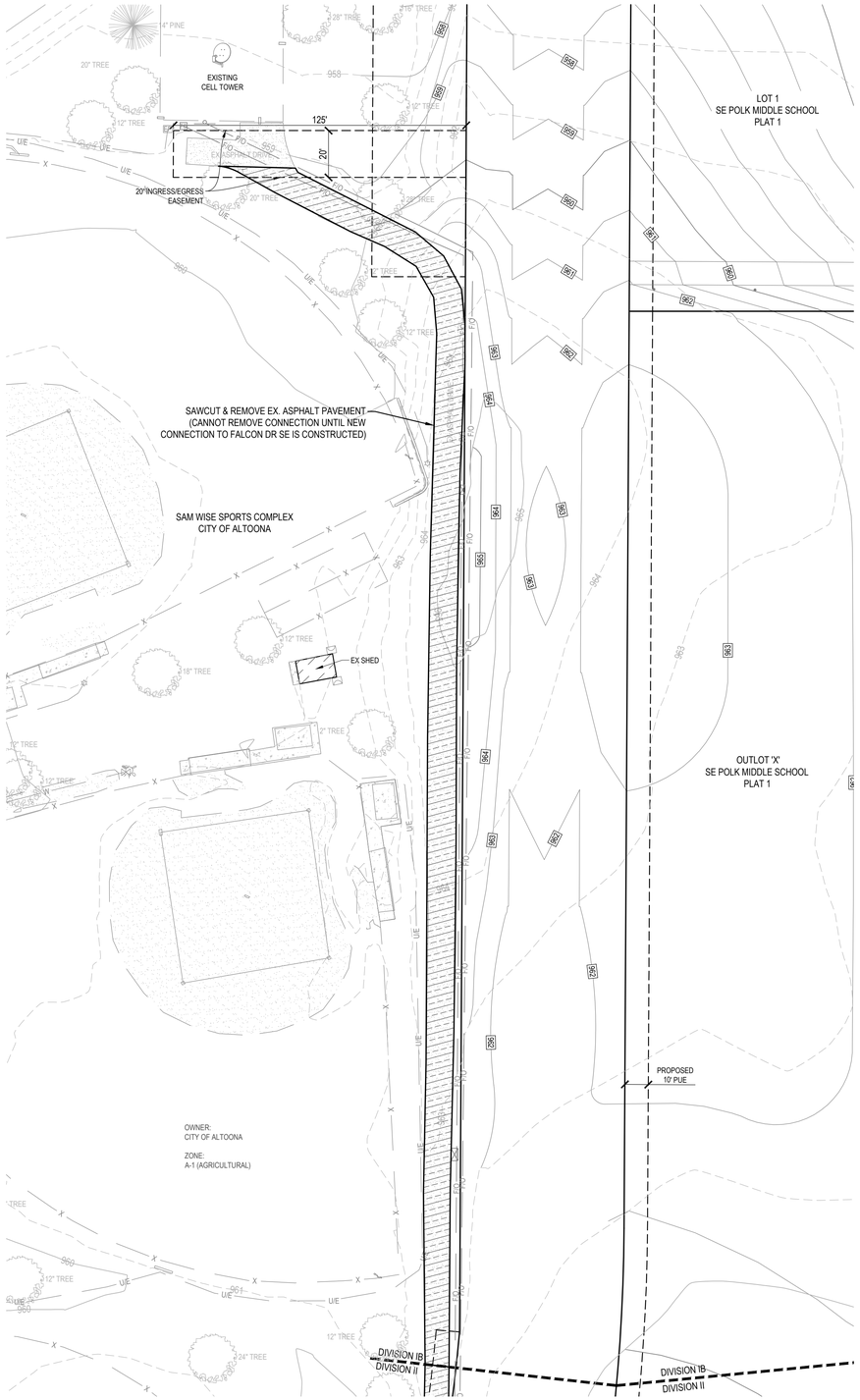
CHECKED BY: JEJ

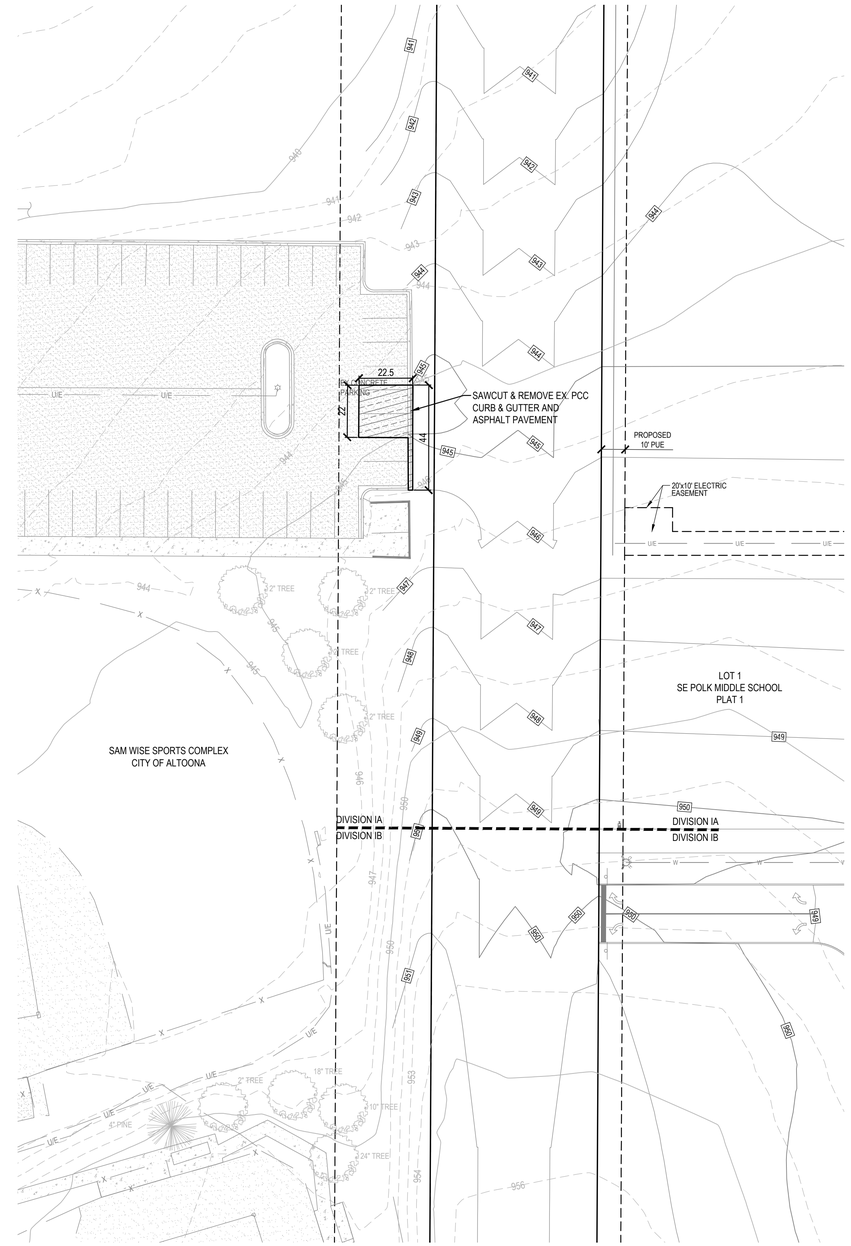
REVISION DATE:

PROJECT NUMBER: 200605-2

SHEET NUMBER: N2.1

PRELIMINARY- NOT FOR CONSTRUCTION





DEMO NOTES:

1. SAWCUT & REMOVE ALL PAVEMENT TO FULL DEPTH OF SLAB.
2. PROTECT ALL EXISTING TREES NOT CALLED OUT FOR REMOVAL AND EXISTING BALL FIELDS WITH 4' ORANGE CONSTRUCTION FENCE, REFERENCE G SHEETS FOR LIMITS.
3. PAVEMENT STRIPING CALLED OUT FOR REMOVAL SHALL BE SANDBLASTED. NO GRINDING WILL BE ALLOWED.
4. REMOVE & SALVAGE ALL EXISTING STREET SIGNS TO THE CITY OF ALTOONA.

GRAPHIC SCALE

30 0 15 30 60

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FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE.
CONSTRUCTION PLANS
REMOVAL PLAN

REFERENCE NUMBER: 200605

DRAWN BY: EWM

CHECKED BY: JEJ

REVISION DATE:

PROJECT NUMBER: 200605-2

SHEET NUMBER: R1.1

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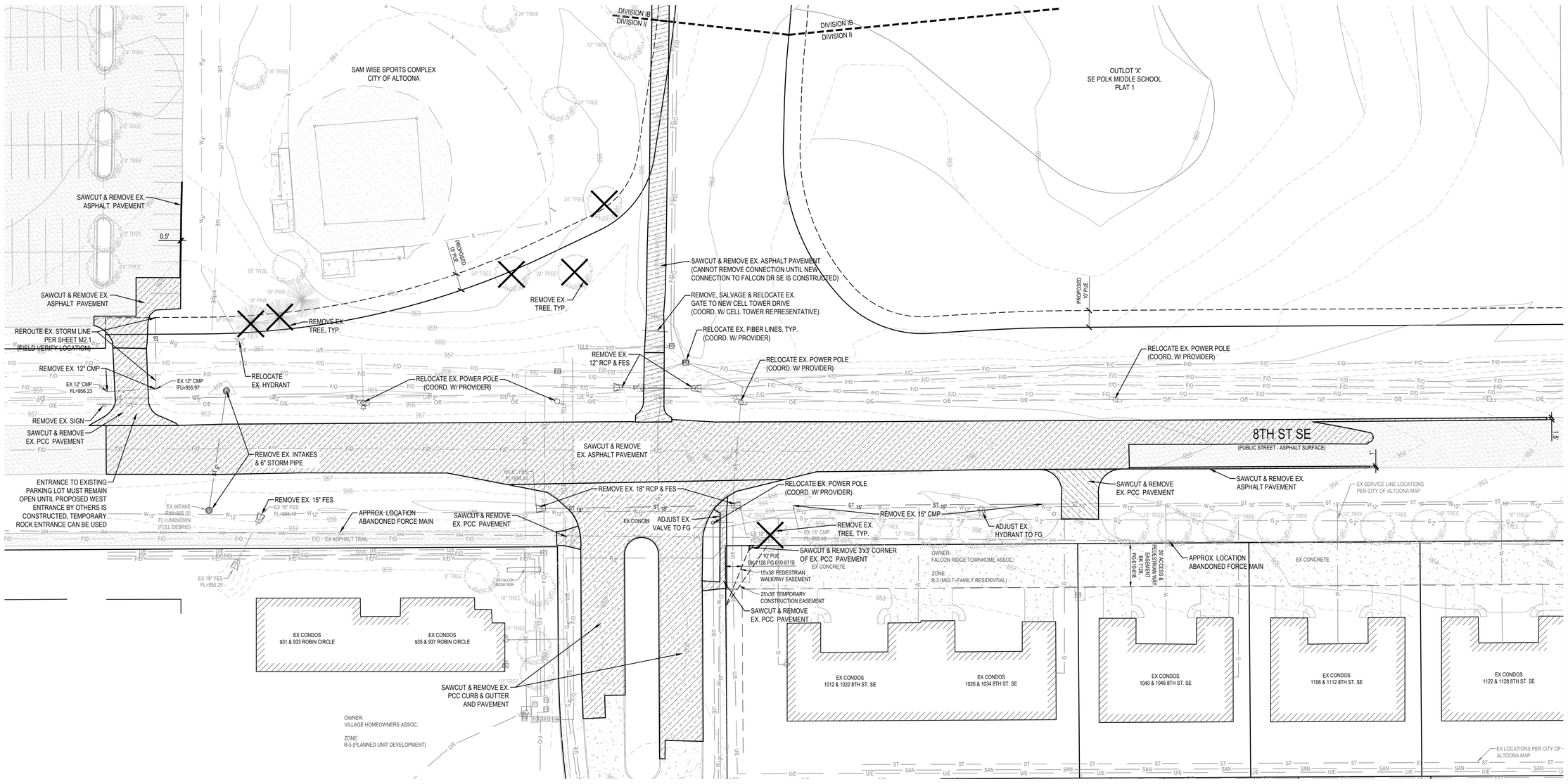
PRELIMINARY- NOT FOR CONSTRUCTION



DEMO NOTES:

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2. PROTECT ALL EXISTING TREES NOT CALLED OUT FOR REMOVAL AND EXISTING BALL FIELDS WITH 4' ORANGE CONSTRUCTION FENCE, REFERENCE G SHEETS FOR LIMITS.
3. PAVEMENT STRIPING CALLED OUT FOR REMOVAL SHALL BE SANDBLASTED. NO GRINDING WILL BE ALLOWED.
4. REMOVE & SALVAGE ALL EXISTING STREET SIGNS TO THE CITY OF ALTOONA.
5. PER CITY THERE IS AN ABAONDONED FORCE MAIN ON THE SOUTH SIDE OF 8TH ST SE, IF ENCOUNTERED DURING CONSTRUCTION CONTRACTOR TO CAP ENDS AND REMOVE AS NEEDED, APPROXIMATE LOCATION SHOWN.

GRAPHIC SCALE

30 0 15 30 60

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FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE. CONSTRUCTION PLANS

REMOVAL PLAN

REFERENCE NUMBER: 200605

DRAWN BY: EWM

CHECKED BY: JEJ

REVISION DATE:

PROJECT NUMBER: 200605-2

SHEET NUMBER: R2.1

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PRELIMINARY- NOT FOR CONSTRUCTION

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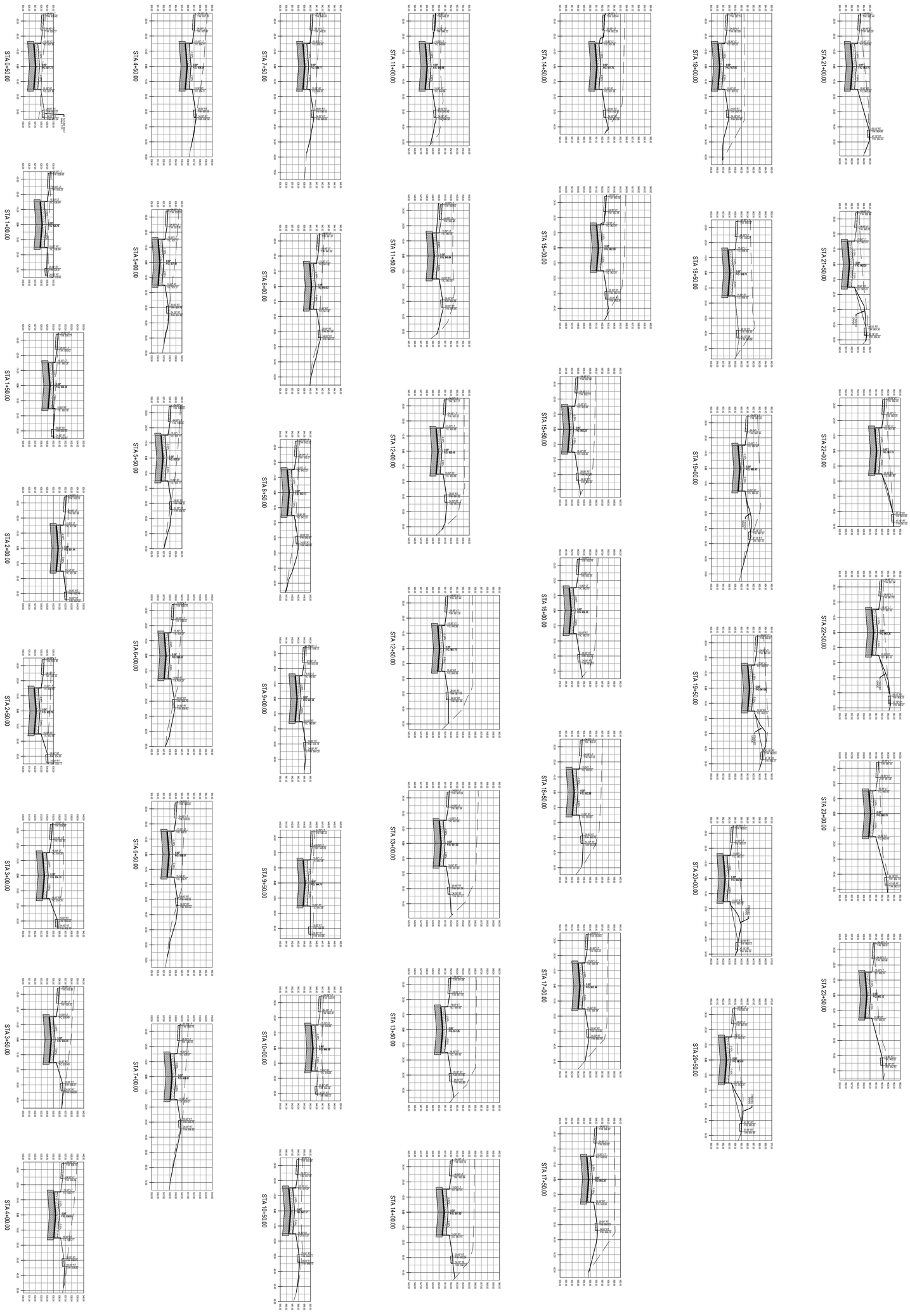

GRAPHIC SCALE
30 0 15 30 60

PROJECT NUMBER:	200605-2
SHEET NUMBER:	W1.1
DRAWN BY:	EWM
CHECKED BY:	JEJ
REVISION DATE:	
REFERENCE NUMBER:	200605

FALCON DR. SE - 8TH ST. SE TO NE 50TH AVE.
CONSTRUCTION PLANS

FALCON DRIVE - CROSS SECTIONS

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