

RIDEGATE EAST FILING NO. 3 STREET AND STORM SEWER PLANS

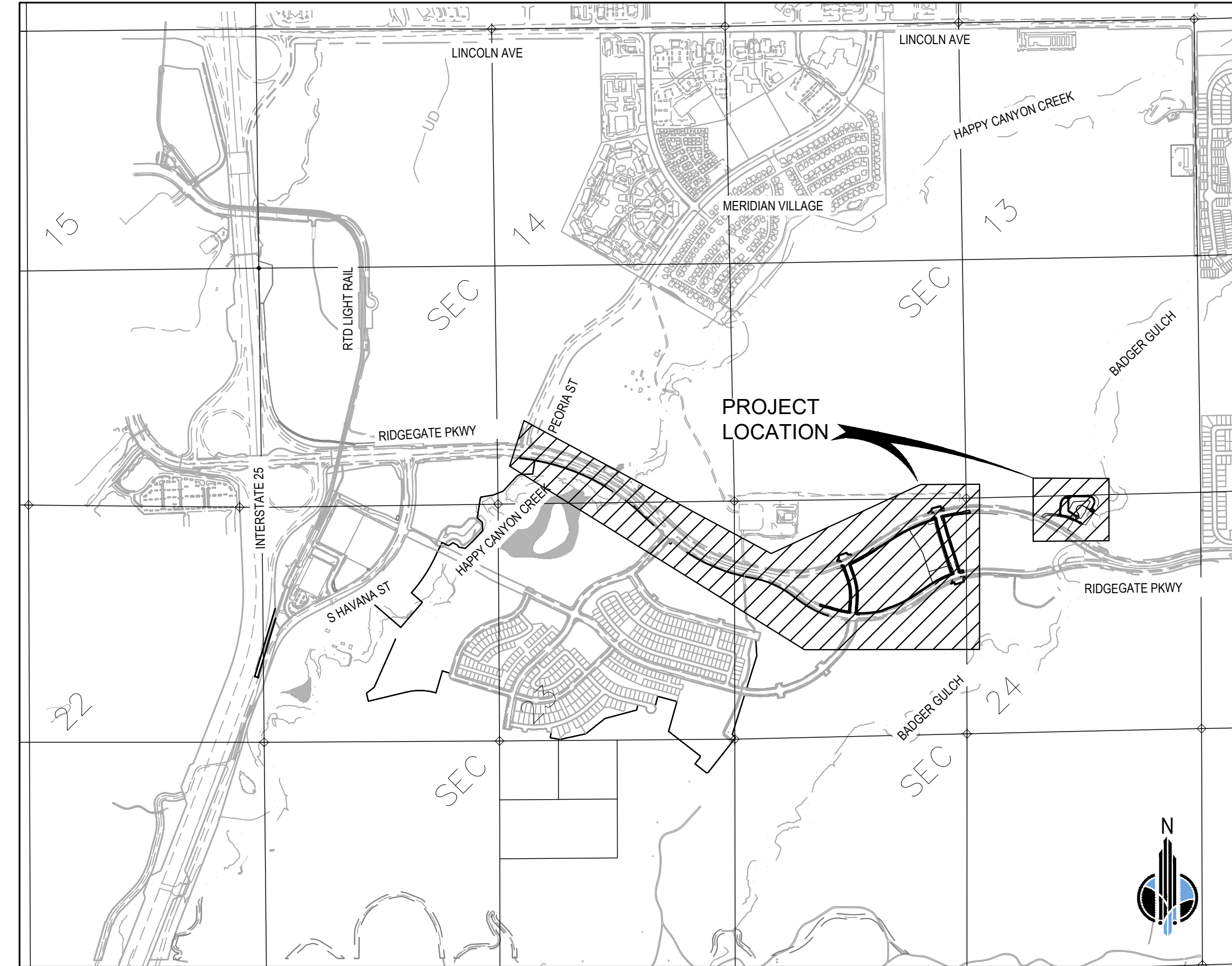
SECTION 24, TOWNSHIP 6 SOUTH, RANGE 67 WEST, 6TH P.M.,
CITY OF LONE TREE, DOUGLAS COUNTY

ABBREVIATION LEGEND

AB	AS-BUILT
BFE	BASE FLOOD ELEVATION
BFV	BUTTERFLY VALVE
BMP	BEST MANAGEMENT PRACTICE
BOP	BOTTOM OF PIPE
BOW	FINISHED GRADE AT BOTTOM OF WALL
BVCE	BEGIN VERTICAL CURVE ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION
C&G	CURB & GUTTER
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONT	CONTINUOUS
CR	CURB RETURN
DIA Ø	DIAMETER
DIP	DUCTILE IRON PIPE
DTL	DETAIL
E	EASTING, EAST
EA	EACH
ECC	ECCENTRIC
EL_ELEV	ELEVATION
EOA	EDGE OF ASPHALT
EW	EDGE OF WALK
ESMT	EASEMENT
EURV	EXCESS URBAN RUNOFF VOLUME
EVCE	END VERTICAL CURVE ELEVATION
EVCS	END VERTICAL CURVE STATION
EX	EXISTING
FH	FIRE HYDRANT
FES	FLARED END SECTION
FG	FINISHED GRADE
FL	FLOWLINE
FO	FIBER OPTIC
FT	FEET
FLG	FLANGE
GB	GRADE BREAK
GESC	GRADING, EROSION, AND SEDIMENT CONTROL
GPM	GALLONS PER MINUTE
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
HGL	HYDRAULIC GRADE LINE
HOA	HOME OWNERS' ASSOCIATION
HP	HIGH POINT
IN	INCH
INV	INVERT
K	RATE OF CURVATURE
KB	KICK BLOCK
L.F.	LINEAR FEET
LP	LOW POINT
LT	LEFT
LVC	LENGTH OF VERTICAL CURVE
MAX	MAXIMUM
MFR	MANUFACTURER
MHFD	MILE HIGH FLOOD DISTRICT
MIN	MINIMUM
MH	MANHOLE
MJ	MECHANICAL JOINT
NAVD	NORTH AMERICAN VERTICAL DATUM
N	NORTHING, NORTH
n	MANNING'S ROUGHNESS COEFFICIENT
NTS	NOT TO SCALE
O.C.	ON CENTER
OHE	OVERHEAD ELECTRIC LINE(S)
P&P	PLAN & PROFILE
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PCR	POINT OF CURB RETURN
PI	POINT OF INTERSECTION
PRC	POINT OF REVERSE CURVE
PSCO	PUBLIC SERVICE COMPANY OF COLORADO (XCEL)
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVE, POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVT	POINT OF VERTICAL TANGENT
PWSD	PARKER WATER AND SANITATION DISTRICT
Q80	DISCHARGE AT 80% CAPACITY
R	RADIUS
RT	RIGHT
REC	RECEPTION
RCP	REINFORCED CONCRETE PIPE
RGI	RIDEGATE INVESTMENTS INC.
RRMD	RAMPART RANGE METROPOLITAN DISTRICT
RT	RIGHT
S	SOUTH
SDMH	STORM DRAIN MANHOLE
SS	SANITARY SEWER
STA	STATION
STM	STORM
SY	SQUARE YARD
TBC	TOP BACK OF CURB
TBR	TO BE REMOVED
TCC	TOP OF CONCRETE
TOW	TOP OF PIPE
TYP	TYPICAL
VERT	VERTICAL
VC	VERTICAL CURVE
VTC	VEHICLE TRACKING CONTROL
W	WEST
W/	WITH
WSEL	WATER SURFACE ELEVATION
XING	CROSSING

LEGEND

	EXISTING 1' INTERVAL CONTOUR
	EXISTING 5' INTERVAL CONTOUR
	100-YEAR FLOODPLAIN
	EXISTING RIGHT-OF-WAY
	EXISTING CURB & GUTTER
	EXISTING EDGE OF PAVEMENT
	EXISTING EASEMENT
	EXISTING FENCE
	EXISTING WATER MAIN, FIRE HYDRANT & GATE VALVE
	EXISTING WATER METER, BUTTERFLY VALVE, REDUCER & BLOWOFF VALVE
	EXISTING WATER WELL & AIR RELEASE VALVE
	EXISTING WATER BENDS/FITTINGS
	EXISTING IRRIGATION
	EXISTING IRRIGATION BOX
	EXISTING SANITARY SEWER & MANHOLE
	EXISTING STORM SEWER, INLET, MANHOLE, FLARED END SECTION & RIPRAP
	EXISTING OVERHEAD ELECTRIC LINE(S) & POLE
	EXISTING UNDERGROUND ELECTRIC LINE
	EXISTING ELECTRIC BOX, ELECTRIC METER, TRANSFORMER & SWITCH CABINET
	EXISTING GAS LINE
	EXISTING GAS LINE
	EXISTING TELEPHONE PEDESTAL & MANHOLE
	EXISTING FIBER OPTIC
	EXISTING TRENCHDRAIN
	EXISTING ELECTRIC, GAS & TELEPHONE MARKER POST
	EXISTING ROADWAY SIGN, STREET LIGHT & TRAFFIC LIGHT
	EXISTING TRAFFIC CONTROL BOX
	EXISTING DRY UTILITY VAULT
	PROPOSED 1' INTERVAL CONTOUR
	PROPOSED 5' INTERVAL CONTOUR
	PROPOSED PROPERTY BOUNDARY
	PROPOSED LOT LINE
	PROPOSED RIGHT-OF-WAY
	PROPOSED ROADWAY CENTERLINE
	PROPOSED ROADWAY CURB & GUTTER
	PROPOSED EDGE OF PAVEMENT
	PROPOSED EASEMENT
	PROPOSED WATER MAIN, GATE VALVE, TEE, & FIRE HYDRANT ASSEMBLY
	PROPOSED WATER METER, BUTTERFLY VALVE, REDUCER & BLOWOFF VALVE
	PROPOSED WATER WELL & AIR RELEASE VALVE
	PROPOSED WATER BENDS/FITTINGS
	PROPOSED IRRIGATION BOX
	PROPOSED IRRIGATION BOX
	PROPOSED CONDUIT TRENCH
	PROPOSED SANITARY SEWER
	PROPOSED STORM SEWER, INLET, MANHOLE & FLARED END SECTION
	PROPOSED UNDERGROUND ELECTRIC LINE
	PROPOSED ELECTRIC BOX, ELECTRIC METER, TRANSFORMER & SWITCH CABINET
	PROPOSED GAS LINE
	PROPOSED TELEPHONE PEDESTAL & MANHOLE
	PROPOSED FIBER OPTIC
	PROPOSED TRENCHDRAIN
	PROPOSED ROADWAY SIGN, STREET LIGHT & TRAFFIC LIGHT
	PROPOSED TRAFFIC CONTROL BOX
	PROPOSED DRY UTILITY VAULT
	TEST HOLE LOCATION
	WETLANDS AREA
	SIGHT TRIANGLE
	BOTTOM OF SWALE



VICINITY MAP
1" = 1,200'

AGENCY LIST

PROPERTY OWNER

RIDEGATE INVESTMENTS, INC.
70 E 55TH ST, 11TH FLOOR
NEW YORK, NY 10022
PH: (212) 752-6164
ATTN: BOB ASSELBERGS

DEVELOPER

COVENTRY DEVELOPMENT CORPORATION
9878 SCHWAB WAY, SUITE 415
LONE TREE, CO 80124
PH: (720) 279-2581
ATTN: JOHN CONNELLY, PE

CITY ENGINEER

CITY OF LONE TREE
PUBLIC WORKS DEPARTMENT
9220 KIMMER DR, SUITE 100
LONE TREE, CO 80124
PH: (720) 509-1240
ATTN: JACOB JAMES, PE

METRO DISTRICT

RAMPART RANGE METROPOLITAN DISTRICT NO. 5
8390 E CRESCENT PARKWAY, SUITE 300
GREENWOOD VILLAGE, CO 80111
PH: (303) 779-4525
ATTN: DENISE DENSLAW

CIVIL ENGINEER

MERRICK & COMPANY
5970 GREENWOOD PLAZA BLVD
GREENWOOD VILLAGE, CO 80111
PH: (303) 751-0741
ATTN: CARSON BESGROVE, PE

FIRE

SOUTH METRO FIRE RESCUE
9195 E MINERAL AVENUE
CENTENNIAL, CO 80112
PH: (720) 989-2249
ATTN: SCOTT STENE

COUNTY

DOUGLAS COUNTY
100 THIRD ST
CASTLE ROCK, CO 80104
PH: (303) 660-7490
ATTN: MATT WILLIAMS, PE

UTILITIES

AT&T
619 W BANNOCK ST, ROOM 342
BOISE, ID 83702
PH: (208) 841-5093
ATTN: JT ANDREWS

CENTURYLINK
7759 S. WHEELING CT.
ENGLEWOOD, CO 80112
PH: (720) 578-5291
ATTN: TRAVIS YOUNG

PARKER WATER & SANITATION DISTRICT
18100 WOODMAN DR
PARKER, CO 80134
PH: (303) 841-2058
ATTN: JAROD BAYLIE

VERIZON
10000 PARK MEADOWS DR
LONE TREE, CO 80124
PH: (303) 390-2466
ATTN: LANE GRADY

XCEL ENERGY
1800 LARIMER ST
DENVER, CO 80202
PH: (303) 628-2708
ATTN: TONY PIETRAS

BENCHMARK

PROJECT BENCHMARK IS RIDEGATE BM 1, A 3.25" DIAMETER BRASS CAP SET ON THE NORTHWEST BRIDGE ABUTMENT OF RIDEGATE PARKWAY STAMPED "RIDEGATE BM 1 2021" AND IS APPROXIMATELY 0.7 MILES EAST ON RIDEGATE PARKWAY FROM THE INTERSECTION OF I-25 AND RIDEGATE PARKWAY IN LONE TREE, COLORADO. THE BENCHMARK IS 1 FOOT FROM THE WEST EDGE OF THE ABUTMENT, 3 FEET NORTH OF THE BACK OF WALK, AND 31 FEET NORTH OF THE WEST BOUND CENTERLINE OF RIDEGATE PARKWAY. ELEVATION IS 5983.0 U.S. SURVEY FEET, NAVD 88 DOUGLAS COUNTY DATUM.

PROJECT COORDINATES ARE MODIFIED COLORADO STATE PLANE CENTRAL ZONE COORDINATES. THE COMBINED FACTOR USED TO MODIFY COORDINATES WAS 1.00032591873.

Sheet List Table	
Sheet Number	Sheet Title
1	COVER
2	GENERAL NOTES
3	STANDARD PLANS & DETAIL LIST
4	TYPICAL SECTIONS 1
5	TYPICAL SECTIONS 2
6	DEMOLITION PLAN 1
7	DEMOLITION PLAN 2
8	DEMOLITION PLAN 3
9	OVERALL UTILITY 1
10	OVERALL UTILITY 2
11	OVERALL UTILITY 3
12	OVERALL UTILITY 4
13	GRADING PLAN 1
14	GRADING PLAN 2
15	GRADING PLAN 3
16	GRADING PLAN 4
17	HIGH NOTE AVE PLAN & PROFILE STA 101+50.00 TO STA 109+00
18	RHAPSODY RD PLAN & PROFILE STA 201+50.00 TO STA 210+00
19	RIDEGATE PKWY STA 112+00 TO STA 122+00
20	RIDEGATE PKWY STA 122+00 TO STA 139+00
21	HIGH NOTE AVE-RIDEGATE PKWY (EASTBOUND) TURN LANE PLAN
22	RHAPSODY RD-RIDEGATE PKWY (EASTBOUND) TURN LANE PLAN
23	HIGH NOTE AVE-RIDEGATE PKWY (WESTBOUND) TURN LANE PLAN
24	RHAPSODY RD-RIDEGATE PKWY (WESTBOUND) TURN LANES PLAN
25	HIGH NOTE AVE-RIDEGATE PKWY (EASTBOUND) INTERSECTION DETAILS
26	RHAPSODY RD-RIDEGATE PKWY (EASTBOUND) INTERSECTION DETAIL 1
27	RHAPSODY RD-RIDEGATE PKWY (EASTBOUND) INTERSECTION DETAIL 2
28	RHAPSODY RD-RIDEGATE PKWY (EASTBOUND) FUTURE INTERSECTION
29	HIGH NOTE AVE-RIDEGATE PKWY (WESTBOUND) INTERSECTION DETAIL 1
30	HIGH NOTE-RIDEGATE PKWY (WESTBOUND) FUTURE INTERSECTION
31	RHAPSODY RD-RIDEGATE PKWY (WESTBOUND) INTERSECTION DETAIL 1
32	RHAPSODY RD-RIDEGATE PKWY (WESTBOUND) FUTURE INTERSECTION
33	SIGNAGE & STRIPING PLAN 1
34	SIGNAGE & STRIPING PLAN 2

ROADWAY DESIGN DATA			
ROADWAY NAME	RIDEGATE PKWY	HIGH NOTE AVE	RHAPSODY RD
ROADWAY CLASSIFICATION	COUPLET	RESIDENTIAL COLLECTOR	RESIDENTIAL COLLECTOR
DESIGN SPEED (MPH)	45	35	35
POSTED SPEED LIMIT (MPH)	35-45	25	25
DESIGN VEHICLE	SU-40	SU-40	SU-40
TRAFFIC VOLUME (ADT)			
MINIMUM CENTERLINE CURVE RADIUS (FT)	1100	510	510
MAXIMUM GRADE	6%	6%	6%
MINIMUM GRADE	1%	1%	1%
MIN. K-VALUE CREST VERT. CURVE	61	29	29
MIN. K-VALUE SAG VERT. CURVE	79	49	49

35	SIGNAGE & STRIPING PLAN 3
36	SIGNAGE & STRIPING PLAN 4
37	SIGNAGE & STRIPING PLAN 5
38	TRAFFIC SIGNAL GENERAL NOTES
39	TABULATION OF TRAFFIC SIGNAL ITEMS
40	TABULATION OF TRAFFIC SIGNAL DEVICES
41	TABULATION OF TRAFFIC SIGNAL ITEMS
42	TABULATION OF TRAFFIC SIGNAL ITEMS
43	TABULATION OF TRAFFIC SIGNAL ITEMS
44	INTERIM TRAFFIC SIGNAL PLANS
45	INTERIM TRAFFIC SIGNAL PLANS
46	INTERIM TRAFFIC SIGNAL PLANS
47	INTERIM TRAFFIC SIGNAL PLANS
48	INTERIM TRAFFIC SIGNAL PLANS
49	INTERIM TRAFFIC SIGNAL PLANS
50	INTERIM TRAFFIC SIGNAL PLANS
51	INTERIM TRAFFIC SIGNAL PLANS
52	FINAL TRAFFIC SIGNAL PLANS
53	FINAL TRAFFIC SIGNAL PLANS
54	FINAL TRAFFIC SIGNAL PLANS
55	INTERCONNECTION PLAN
56	INTERCONNECTION PLAN
57	INTERCONNECTION PLAN
58	INTERCONNECTION PLAN
59	INTERCONNECTION PLAN
60	INTERCONNECTION PLAN
61	INTERCONNECTION PLAN
62	STORM SEWER (HIGH NOTE AVE) PLAN & PROFILE
63	STORM SEWER (RHAPSODY RD) PLAN & PROFILE
64	POND 21 PLAN & PROFILE
65	POND 21 OUTLET STRUCTURE DETAILS
66	POND 21 MICROPOOL DETAILS
67	POND 21 FOREBAY DETAILS
68	POND 21 SPILLWAY DETAILS
69	DOUGLAS COUNTY DETAILS 1
70	DOUGLAS COUNTY DETAILS 2
71	DOUGLAS COUNTY DETAILS 3
72	DOUGLAS COUNTY DETAILS 4
73	DOUGLAS COUNTY DETAILS 5
74	DOUGLAS COUNTY DETAILS 6
75	CITY OF LONE TREE DETAILS 1
76	CITY OF LONE TREE DETAILS 2
77	CITY OF DENVER DETAILS 1
78	CITY OF DENVER DETAILS 2

RIDEGATE EAST FILING NO. 3
STREET AND STORM SEWER
PLANS
COVER



JOB NO.: 65121240
DATE: 7/13/2023
SHEET: 1 OF 78

City of Lone Tree

These construction plans have been reviewed by the City of Lone Tree for street and drainage improvements only.

Engineering Division Acceptance Block

File Location: D:\DEN\Projects\5097-702-RRWD_Overall_East\1240-Cover.dwg Plot Date: 7/13/2023 5:51 PM Last Saved By: NBR001

File Location: \\DEN\Projects\5097-02-BRWD_Overall_East\Projects\1240-Couplet_Roadway_Design\Design\CDs\Civil\ROAD AND STORM\1240-COVER.dwg Plot Date: 7/13/2023 5:51 PM Last Saved By: NBROWN

GENERAL CONSTRUCTION NOTES

- ALL CONTRACTOR AND SUBCONTRACTORS SHALL HAVE A SET OF APPROVED CONSTRUCTION DOCUMENTS. THE APPROPRIATE EDITION OF THE GOVERNING JURISDICTION DESIGN AND CONSTRUCTION STANDARDS, THE STORM WATER MANAGEMENT PLAN, AND ALL REQUIRED PERMITS ON SITE AT ALL TIMES.
- ALL (SANITARY SEWER, STORM SEWER, UNDERDRAIN, WATER LINE, OR STREET) CONSTRUCTION SHALL CONFORM TO THE APPROPRIATE EDITION OF THE GOVERNING JURISDICTION STANDARDS AND SPECIFICATIONS.
- THE ENGINEER MAKES NO REPRESENTATION OR GUARANTEE REGARDING EARTHWORK QUANTITIES OR THAT THE EARTHWORK FOR THIS PROJECT WILL BALANCE DUE TO VARIOUS FIELD CONDITIONS, CHANGING SOIL TYPES, ALLOWABLE CONSTRUCTION TOLERANCES, AND CONSTRUCTION METHODS THAT ARE BEYOND THE CONTROL OF THE ENGINEER.
- MERRICK & COMPANY IS NOT RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, SAFETY PRECAUTIONS, OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK. MERRICK WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL CALL THE NATIONWIDE UTILITY CONTACT NUMBER (811) OR LOCAL UTILITY LOCATE SERVICE, TO REQUEST LOCATES OF ALL UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF ANY LAND DISTURBING ACTIVITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES, INCLUDING DEPTH. UTILITY LOCATIONS ARE APPROXIMATE ONLY AND ARE NOT RELIABLE FOR CONSTRUCTION PURPOSES. THE UTILITIES SHOWN ON THE PLANS ARE FROM THE BEST AVAILABLE INFORMATION AND MAY NOT INCLUDE ALL UTILITIES THAT EXIST ON THE PROJECT SITE. THE CONTRACTOR SHALL PARTICIPATE IN THE RESOLUTION OF ANY CONFLICTS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY SITE CONDITIONS, EXISTING TOPOGRAPHIC DATA, AND LOCATIONS OF ALL UTILITIES PRIOR TO INITIATING CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES ON THE PROJECT SITE. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN OR NOT ON THE PROJECT PLANS, SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL COST TO THE OWNER. NOTIFY ENGINEER AND OWNER OF ANY DISCREPANCIES FOUND PRIOR TO INITIATING ANY WORK.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS NECESSARY TO COMPLETE THE WORK AND SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. A COPY OF ALL PERMITS SHALL BE MAINTAINED ON-SITE AT ALL TIMES.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT LISTED BELOW:
 *GEOTECHNICAL EVALUATION RIDGEGATE PARKWAY COUPLETT ROADS PAVEMENT SECTIONS LONE TREE, COLORADO REVISED, DATED JANUARY 24, 2023.
 GEOTECHNICAL EVALUATION RIDGEGATE EAST INFRASTRUCTURE IMPROVEMENTS RIDGEGATE PARKWAY WIDENING PAVEMENTS LONE TREE, COLORADO BY GROUND ENGINEERING, DATED JANUARY 9, 2018.
- THE CONTRACTOR IS RESPONSIBLE FOR SAFETY OF ALL PERSONNEL AND EQUIPMENT ON THE PROJECT SITE AT ALL TIMES, AND IS NOT LIMITED TO NORMAL WORKING HOURS. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH REGULATIONS.
- TRAFFIC CONTROL STANDARDS FOR THIS PROJECT SHALL COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. A TRAFFIC CONTROL PLAN APPROVED BY OWNER FOR ON-SITE ACTIVITY AND/OR THE LOCAL ENTITY EXERCISING JURISDICTION OVER PUBLIC RIGHTS OF WAY SHALL BE OBTAINED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- THERE SHALL BE NO WORK PERFORMED ON WEEKENDS OR HOLIDAYS, UNLESS ACCEPTED AND APPROVED IN WRITING AND IN ADVANCE BY THE OWNER, ENGINEER, AND LOCAL JURISDICTION.
- ALL WASTE MATERIALS SHALL BE PROPERLY DISPOSED OF IN AN APPROVED LANDFILL PERMITTED TO ACCEPT THAT PARTICULAR TYPE OF WASTE.
- DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER OR HIS DESIGNATED REPRESENTATIVE MAY CAUSE THE WORK TO BE DEEMED UNACCEPTABLE.
- INSTALL INITIAL SEDIMENTATION AND EROSION CONTROL MEASURES PRIOR TO INITIATING ANY WORK ON THE PROJECT SITE. MAINTAIN ALL EROSION CONTROL MEASURES UNTIL FINAL STABILIZATION AND REVEGETATION IS APPROVED BY THE COUNTY AND/OR CITY.
- THE PROJECT PLANS AND SPECIFICATIONS ARE INTENDED TO PROVIDE THE COMPLETED PROJECT IN A COMPLETE AND OPERABLE CONDITION. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND PROVIDE ALL LABOR NECESSARY TO COMPLETE THE PROJECT IN A NEAT AND WORKMANLIKE MANNER, INCLUDING ALL INCIDENTALS NECESSARY TO COMPLETE THE WORK, WITHOUT ADDITIONAL COST TO THE OWNER.
- NOTIFY INSPECTORS OF ALL WORK ACTIVITY AT LEAST 24 HOURS IN ADVANCE.
- ANY INSPECTION BY THE GOVERNING AGENCY OR THE ENGINEER, SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH THE APPLICABLE CODES AND AGENCY REQUIREMENTS.
- ANY DISRUPTION IN UTILITIES SHALL BE COORDINATED AT LEAST 24 HOURS IN ADVANCE WITH THE UTILITY OWNER, PROJECT OWNER, EMERGENCY PROVIDERS, ALL IMPACTED LOCAL RESIDENTS, AND IMPACTED BUSINESS OWNERS. METHOD OF NOTIFICATION SHALL BE SUBJECT TO APPROVAL OF THE PROJECT OWNER AND AFFECTED UTILITY OWNER.
- MAINTAIN EMERGENCY VEHICLE ACCESS TO AND THROUGH THE PROJECT SITE AT ALL TIMES.
- THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF EXISTING UTILITIES AND SURFACE CONDITIONS DISTURBED BY CONSTRUCTION ACTIVITIES TO THE SATISFACTION OF THE OWNER, PROPERTY OWNER, AFFECTED UTILITY, OR LOCAL JURISDICTION. ALL SURFACE AND UTILITY RESTORATION SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. ALL SURFACE RESTORATION SHALL BE REPLACED WITH LIKE KIND, SIZE, AND TYPE OF IMPROVEMENT THAT EXISTED PRIOR TO INITIATING CONSTRUCTION.
- THE PROJECT PLANS AND SPECIFICATIONS AS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, FOR AND ON BEHALF OF MERRICK AND COMPANY, REPRESENT THE FINAL CONSTRUCTION DOCUMENTS FOR THIS PROJECT. THE USE OF ANY ELECTRONIC OR OTHER MEDIA PURPORTING TO REPRESENT THE FINAL CONSTRUCTION DOCUMENTS FOR THIS PROJECT SHALL NOT BE RELIED UPON AS FINAL CONSTRUCTION DOCUMENTS. SHOULD THERE BE A CONFLICT BETWEEN SEALED DRAWINGS AND ELECTRONIC OR OTHER MEDIA FILES, THE SEALED DRAWINGS SHALL GOVERN. EACH USER OF ANY ELECTRONIC OR OTHER MEDIA WAIVES AND RELEASES MERRICK FROM ALL ACTIONS, CLAIMS, DAMAGES, ACTIONS, OBLIGATIONS, AND LIABILITIES OF ANY KIND OR NATURE WITH RESPECT TO THE ELECTRONIC OR OTHER MEDIA FILES.
- NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL CREATE, NOR SHALL BE CONSTRUED TO CREATE, ANY CONTRACTUAL RELATIONSHIP BETWEEN THE ENGINEER AND THE CONTRACTOR OR ANY SUBCONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROMPTLY NOTIFYING THE ENGINEER OF ANY PROBLEMS OR POTENTIAL PROBLEMS IN CONFORMANCE TO THE DESIGN LINE AND GRADE FOR ANY ELEMENT OF THE CONSTRUCTION. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROMPTLY NOTIFYING THE ENGINEER OF SITE CONDITIONS THAT DIFFER FROM THOSE SHOWN ON THE APPROVED PLANS.
- IN THE EVENT THE CONTRACTOR ALLOWS, AUTHORIZES, APPROVES OR CONSTRUCTS ITEMS THAT DIFFER FROM THE APPROVED PLAN, SPECIFICATIONS, OR OTHER CONTRACT DOCUMENTS, WITHOUT WRITTEN APPROVAL BY THE ENGINEER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY LIABILITY ARISING FROM SUCH CHANGES.

EXISTING SUBSURFACE UTILITY NOTES

- THE EXISTING SUBSURFACE UTILITIES DEPICTED IN THESE PLANS ARE IN ACCORDANCE WITH THEIR ACHIEVED QUALITY LEVELS AS DEFINED BY THE AMERICAN SOCIETY OF CIVIL ENGINEERS STANDARD 38-02, "STANDARD GUIDELINE FOR COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."
- THE SUBSURFACE UTILITY ENGINEERING NOTIFICATION AND INVESTIGATION WAS PERFORMED BETWEEN 4/03/2023 AND 4/23/2023. MERRICK WILL NOT BE HELD LIABLE FOR ANY CHANGES IN FIELD CONDITIONS BEYOND THE DATES IN WHICH THE SUBSURFACE UTILITY INVESTIGATION WAS COMPLETED.
- THE FOLLOWING UTILITIES WERE NOT INCLUDED AS PART OF THE SUBSURFACE UTILITY ENGINEERING INVESTIGATION: LANDSCAPE IRRIGATION SYSTEMS, UTILITY SERVICES TO RESIDENCES OR BUSINESSES, UNDERGROUND STORAGE TANKS, SEPTIC TANKS, WELLS, AND TRAFFIC DETECTION DEVICES.
- THE CONTRACTOR SHALL COMPLY WITH ARTICLE 1.5 OF TITLE 9, CRS ("EXCAVATION REQUIREMENTS") WHEN EXCAVATING OR GRADING IS PLANNED IN THE AREA OF UNDERGROUND UTILITY FACILITIES. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITIES AT LEAST TWO (2) BUSINESS DAYS, NOT INCLUDING THE ACTUAL DAY OF NOTICE, PRIOR TO COMMENCING SUCH OPERATIONS. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT PHONE NO. 811, TO HAVE LOCATIONS OF UNCC REGISTERED LINES MARKED BY MEMBER COMPANIES. ALL OTHER UNDERGROUND FACILITIES SHALL BE LOCATED BY CONTACTING THE RESPECTIVE OWNER. UTILITY SERVICE LATERALS SHALL ALSO BE LOCATED PRIOR TO BEGINNING EXCAVATION OR GRADING. THE CONTRACTOR SHALL LOCATE NON-MEMBER UTILITIES, SUCH AS STORM SEWER AND DITCH FACILITIES, AS NECESSARY TO PREVENT DAMAGE THERETO.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL LOCATIONS OF EXISTING STRUCTURES AND UTILITIES SHOWN ON THE PLANS AND TO ASCERTAIN WHETHER ANY OTHER STRUCTURES AND UTILITIES MAY EXIST. THE CONTRACTOR ASSUMES RESPONSIBILITY FOR THE PROTECTION OF ALL UTILITIES DURING THE WORK. REPAIR OF DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

CITY OF LONE TREE GENERAL NOTES

- THE CITY OF LONE TREE ENGINEER'S SIGNATURE AFFIXED TO THIS DOCUMENT INDICATES THE ENGINEERING DIVISION HAS REVIEWED THE DOCUMENT AND FOUND IT IN GENERAL CONFORMANCE WITH THE CITY OF LONE TREE SUBDIVISION RESOLUTION OR APPROVED VARIANCES TO THOSE REGULATIONS. THE CITY OF LONE TREE ENGINEER, THROUGH ACCEPTANCE OF THIS DOCUMENT, ASSUMES NO RESPONSIBILITY, OTHER THAN STATED ABOVE, FOR THE COMPLETENESS AND/OR ACCURACY OF THESE DOCUMENTS. THE OWNER AND ENGINEER UNDERSTAND THAT THE RESPONSIBILITY FOR THE ENGINEERING ADEQUACY OF THE FACILITIES DEPICTED IN THIS DOCUMENT LIES SOLELY WITH THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE IS AFFIXED TO THIS DOCUMENT.
- ALL ROADWAY CONSTRUCTION SHALL CONFORM TO CURRENT DOUGLAS COUNTY ROADWAY DESIGN AND CONSTRUCTION STANDARDS.
- ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE CITY OF LONE TREE ENGINEERING DIVISION. THE CITY RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF LONE TREE PUBLIC WORKS, INSPECTION SECTION, (303) 662-8112, A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO STARTING CONSTRUCTION, AND/OR BEFORE RESTARTING CONSTRUCTION AFTER A SHUTDOWN OF MORE THAN TEN (10) DAYS.
- LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ACTUAL CONSTRUCTION. FOR INFORMATION, CONTACT: UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT (800) 922-1987 OR 811.
- THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY (SIGNED BY BOTH DESIGN ENGINEER AND CITY OF LONE TREE) OF THE CONSTRUCTION PLANS AND GESC REPORT AND PLAN, AND ONE (1) COPY OF THE DOUGLAS COUNTY ROADWAY DESIGN AND CONSTRUCTION STANDARDS AT THE JOB SITE AT ALL TIMES.
- ALL PROPOSED STREET CUTS TO EXISTING PAVEMENTS FOR UTILITIES, STORM SEWER, OR OTHER PURPOSES ARE LISTED AND REFERENCED BELOW:
 RIDGEGATE PARKWAY
- A ROW/CONSTRUCTION PERMIT MUST BE OBTAINED BEFORE ANY WORK WITHIN EXISTING OR PROPOSED PUBLIC ROW. THE PERMIT APPLICATION MUST BE SUBMITTED TO THE CITY OF LONE TREE ENGINEER FOR REVIEW/PROCESSING A MINIMUM OF SEVEN (7) DAYS PRIOR TO REQUESTED START FOR THE WORK IN THE ROW.
- A PLAN FOR TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE SUBMITTED TO THE CITY OF LONE TREE ENGINEER FOR ACCEPTANCE WITH THE PERMIT APPLICATION. AN EXCAVATION OR PUBLIC IMPROVEMENTS CONSTRUCTION PERMIT WILL NOT BE ISSUED WITHOUT AN APPROVED TRAFFIC CONTROL PLAN FOR TRAFFIC CONTROL DURING CONSTRUCTION.
- THE CONSTRUCTION PLANS SHALL BE CONSIDERED VALID FOR TWO (2) YEARS FROM THE DATE OF CITY OF LONE TREE ACCEPTANCE/APPROVAL. IF APPLICABLE CONSTRUCTION PERMITS HAVE NOT BEEN OBTAINED, AND CONSTRUCTION STARTED WITHIN THAT TIME, THESE PLANS SHALL BE VOID AND WILL BE SUBJECT TO RE-REVIEW AND RE-ACCEPTANCE BY THE CITY OF LONE TREE.
- CONTRACTOR SHALL NOTIFY THE CITY OF LONE TREE ENGINEER INSPECTOR WHEN WORKING OUTSIDE OF THE PUBLIC RIGHT-OF-WAY ON ANY FACILITY WHICH WILL BE CONVEYED TO THE CITY, MILE HIGH FLOOD DISTRICT, OR OTHER SPECIAL DISTRICT FOR MAINTENANCE (STORM SEWER, ENERGY DISSIPATORS, DETENTION OUTLET STRUCTURES, OR OTHER DRAINAGE INFRASTRUCTURES). FAILURE TO NOTIFY ENGINEERING INSPECTOR TO ALLOW THEM TO INSPECT THE CONSTRUCTION MAY RESULT IN NON-ACCEPTANCE OF THE FACILITIES/INFRASTRUCTURE BY CITY AND/OR MILE HIGH FLOOD DISTRICT.

CITY OF LONE TREE SIGNAGE AND STRIPING NOTES

- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT VERSION OF THE FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE "COLORADO SUPPLEMENTAL MUTCD" AND THE DOUGLAS COUNTY "ROAD AND CONSTRUCTION STANDARDS MANUAL". FURTHER SPECIFICATIONS AND ILLUSTRATIONS ARE LOCATED IN THE COLORADO DIVISION OF HIGHWAYS "M AND S STANDARDS".
- DELINEATION OF ROADWAYS SHALL BE AS SPECIFIED IN THE COLORADO "M AND S MANUAL."
- SPECIAL CARE SHALL BE TAKEN IN SIGN LOCATION TO ENSURE AN UNOBSTRUCTED VIEW OF EACH SIGN. STREET NAME SIGNS SHALL BE MOUNTED SO THAT THEY CAN BE SEEN FROM ALL DIRECTIONS OF TRAVEL.
- INSTALLATION OF SIGNS SHALL CONFORM TO THE MUTCD MOUNTING HEIGHT REQUIREMENTS, INCLUDING A 7-FOOT MINIMUM HEIGHT FROM THE BOTTOM OF THE LOWEST SIGN PANEL TO THE TOP GRADE OF SIDEWALK.
- ALL NEWLY INSTALLED TRAFFIC SIGNS SHALL MEET THE MINIMUM RETRO-REFLECTIVITY AND ILLUMINATION STANDARDS AS SET FORTH BY THE MUTCD (LATEST EDITION). THESE MINIMUM REQUIREMENTS SHALL FALL UNDER THE REQUIREMENTS OF THE TWO (2) YEAR WARRANTY PERIOD FOR NEW CONSTRUCTION.
- DIAMOND GRADE MATERIAL SHALL BE USED ON ALL STOP SIGNS.
- THE CONTRACTOR INSTALLING SIGNS IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES. LONE TREE PUBLIC WORKS SHALL BE CONTACTED A MINIMUM OF 72 HOURS PRIOR TO INSTALLATION AT 303-662-8112.
- FOLLOWING INSTALLATION, THE CONTRACTOR SHALL NOTIFY THE CITY OF LONE TREE PUBLIC WORKS DEPARTMENT, 303-662-8112. A FIELD INSPECTION OF LOCATION AND INSTALLATION OF ALL SIGNS SHALL BE PERFORMED BY PUBLIC WORKS. ALL DISCREPANCIES IDENTIFIED DURING THE FIELD INSPECTION MUST BE CORRECTED BEFORE THE TWO-YEAR WARRANTY PERIOD WILL BEGIN.
- SIGNAGE AND STRIPING HAS BEEN DETERMINED BY INFORMATION AVAILABLE AT THE TIME OF REVIEW. PRIOR TO INITIATION OF THE WARRANTY PERIOD, LONE TREE RESERVES THE RIGHT TO REQUIRE MODIFICATIONS TO EXISTING OR INSTALLATION OF ADDITIONAL SIGNAGE AND/OR STRIPING IF THEY DETERMINE THAT AN UNFORESEEN CONDITION WARRANTS SUCH MODIFICATION ACCORDING TO THE MUTCD OR THE CDOT M AND S STANDARDS. ALL SIGNAGE AND STRIPING SHALL FALL UNDER THE REQUIREMENTS OF THE TWO (2) YEAR WARRANTY PERIOD FOR NEW CONSTRUCTION.
- FINAL STRIPING AND CROSSWALK LAYOUT TO BE APPROVED BY THE CITY OF LONE TREE PRIOR TO INSTALLATION. LONE TREE PUBLIC WORKS SHALL BE CONTACTED A MINIMUM OF 72 HOURS PRIOR TO INSTALLATION AT 303-662-8112.
- CROSSWALKS SHALL: BE CONSTRUCTED USING 125 MIL PREFORMED THERMOPLASTIC, LINE UP WITH THE CURB RAMPS AT BOTH ENDS, AND BE CENTERED ON LANE LINES SO AS TO BE STRADDLED BY VEHICLES.
- ALL PAVEMENT MARKINGS SHALL BE AS FOLLOWS:
 FOR CONCRETE SURFACE: METHYL METHACRYLATE OR EPOXY PAINT
 FOR ASPHALT SURFACE: PAINT, 125 MIL (PER CDOT SPECIFICATIONS) PREFORMED THERMOPLASTIC, INLAID MARKING TAPE, METHYL METHACRYLATE, OR EPOXY PAINT
 TURN ARROWS AND ONLYS: 125 MIL PREFORMED THERMOPLASTIC
- ALL PAVEMENT MARKING SHALL BE PRECEDED BY THE APPROPRIATE SURFACE PREPARATION.
- ANY SIGNAGE AND/OR OTHER TRAFFIC CONTROL DEVICES REMOVED SHALL BE RETURNED TO THE CITY OF LONE TREE.
- TYPE III LIGHTED BARRICADES SHALL BE SET AT ENDS OF ROADWAYS, SEPARATING FINISHED AND UNFINISHED CONSTRUCTION AREAS AND WILL BE MAINTAINED BY THE CONTRACTOR/DEVELOPER.
- SEE CITY OF LONE TREE "STREET SIGN DETAILS" FOR ADDITIONAL INTERSECTION STREET SIGNAGE REQUIREMENTS.

STORM SEWER NOTES

- THE CONTRACTOR MUST KEEP ALL POLLUTANTS, INCLUDING TRENCH BACKFILL MATERIAL, OIL/GREASE, ETC. FROM WASHING INTO THE STORM SEWER SYSTEM.
- THE BACKFILL OF ALL TRENCHES SHALL BE COMPACTED TO THE APPLICABLE SPECIFICATIONS AND ALL COMPACTION TEST RESULTS SHALL BE SUBMITTED TO THE OWNER FOR FINAL ACCEPTANCE.
- ALL MAINLINE STORM AND SANITARY SEWER PIPES SHALL BE INSTALLED WITH BEDDING AS SPECIFIED ON STANDARD DETAILS.
- ALL STORM SEWER PIPE, AT A MINIMUM, SHALL BE CLASS III REINFORCED CONCRETE PIPE, ASTM C76 WITH PREMIUM GASKETED JOINTS CONFORMING TO ASTM C443 AS SPECIFIED ON THE PLAN AND PROFILE SHEETS OR UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL BE AWARE THAT IF DEBRIS IS DROPPED INTO MANHOLES AND OTHER STRUCTURES, IT SHALL BE IMMEDIATELY REMOVED TO ELIMINATE THE POSSIBILITY OF PROPERTY DAMAGE DUE TO THE DEBRIS CAUSING BACK-UP INTO PRIVATE PROPERTIES. IF AND WHEN IT IS DETERMINED THAT DEBRIS CAUSED A BACKUP, THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR DAMAGES.
- ALL MANHOLES AND OTHER STRUCTURES SHALL BE BUILT TO FINISHED GRADE.
- MARKER POSTS SHALL BE INSTALLED WITH ALL MANHOLES LOCATED OUTSIDE OF PAVED SURFACES.

ROADWAY NOTES

- WHERE EXISTING ASPHALT PAVEMENT IS TO BE REMOVED (FROM PAVEMENT CUTS AND/OR WHERE NEW PAVEMENT IS TO BE EXTENDED FROM EXISTING PAVEMENT), THE CONTRACTOR SHALL STRAIGHT SAW CUT OR BLADE CUT THE EXISTING ASPHALT PAVEMENT TO PROVIDE A CLEAN EDGE. SEE THE CITY OF LONE TREE ASPHALT PAVEMENT PATCHBACK DETAIL FOR ADDITIONAL INFORMATION.
- ALL CONSTRUCTION WITHIN THE CITY OF LONE TREE RIGHT-OF-WAY REQUIRES THAT THE CONTRACTOR OBTAIN THE PROPER PERMITS FROM THE CITY.
- THE CONTRACTOR SHALL SUBMIT HIS OWN CONSTRUCTION SEQUENCE AND TRAFFIC CONTROL PLAN FOR REVIEW AND ACCEPTANCE BY THE OWNER AND CITY OF LONE TREE.
- THE CONTRACTOR SHALL CONTACT THE CITY OF LONE TREE, (303)622-8112, PUBLIC WORKS DEPARTMENT BEFORE STARTING ANY WORK TO COORDINATE LANE CLOSURES AND SIGNING REQUIREMENTS.

												DRWCHKD										DATE				
																									REV	REVISION DESCRIPTION

DESIGN BY: CD
 DRAWN BY: NB
 CHECKED BY: CB
 APPROVED BY: CB

RIDGEGATE EAST FILING NO. 3
 STREET AND STORM SEWER
 PLANS
 GENERAL NOTES

ISSUED FOR REVIEW
 FOR AND ON BEHALF OF MERRICK & COMPANY

City of Lone Tree
 These construction plans have been reviewed by the City of Lone Tree for street and drainage improvements only.
 Engineering Division Acceptance Block

JOB NO.: 65121240
 DATE: 7/13/2023
 SHEET: 2 OF 78

THE CITY OF DENVER, COLORADO, HAS REVIEWED THIS DOCUMENT FOR CONFORMANCE WITH THE CITY OF DENVER STANDARDS AND SPECIFICATIONS FOR THE CITY OF DENVER. THIS REVIEW IS LIMITED TO THE TECHNICAL ASPECTS OF THE DOCUMENT AND DOES NOT CONSTITUTE AN ENDORSEMENT OR WARRANTY OF ANY KIND. THE CITY OF DENVER SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE PROJECT. THE CITY OF DENVER SHALL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE PROJECT. THE CITY OF DENVER SHALL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE PROJECT.

DOUGLAS COUNTY ROADWAY DESIGN AND CONSTRUCTION STANDARDS

DETAIL NUMBER	DRAWING NAME
<input type="checkbox"/> SP.1	CUL-DE-SAC & URBAN LOCAL TYPE I
<input type="checkbox"/> SP.2	URBAN LOCAL TYPE II
<input type="checkbox"/> SP.3	ENTRY STREET, SCHOOL ACCESS & COMMERCIAL AND INDUSTRIAL
<input type="checkbox"/> SP.3a	ENTRY STREET WITH MEDIAN
<input type="checkbox"/> SP.4	URBAN COLLECTOR
<input type="checkbox"/> SP.5	MINOR ARTERIAL
<input type="checkbox"/> SP.6	MAJOR ARTERIAL - 4 LANE
<input type="checkbox"/> SP.7	MAJOR ARTERIAL - 6 LANE
<input type="checkbox"/> SP.8	RURAL LOCAL ROAD TYPE I (GRAVEL SHOULDERS)
<input type="checkbox"/> SP.9	RURAL LOCAL ROAD TYPE II (MOUNTABLE CURB AND GUTTER)
<input type="checkbox"/> SP.10	RURAL LOCAL ROAD TYPE III
<input type="checkbox"/> SP.11	RURAL LOCAL ROAD TYPE IV
<input type="checkbox"/> SP.12	RURAL COLLECTOR (NO PRIVATE DRIVE ACCESS)
<input type="checkbox"/> SP.13	RURAL ARTERIAL - 2 LANE (NO PRIVATE DRIVE ACCESS)
<input type="checkbox"/> SP.14	RURAL ARTERIAL - 4 LANE (NO PRIVATE DRIVE ACCESS)
<input type="checkbox"/> SP.15	35-ACRE PRIVATE RURAL ROAD
<input checked="" type="checkbox"/> SP.16	ROADWAY NOTES
<input checked="" type="checkbox"/> SP.17	CURB & GUTTERS AND SIDEWALKS
<input type="checkbox"/> SP.18a	CURB RAMP & DETECTABLE WARNING AREA NOTES
<input type="checkbox"/> SP.18b	CURB RAMP WITH PANEL DETECTABLE WARNING AREA INSTALLATION
<input type="checkbox"/> SP.18c, SP.18d	CURB RAMP WITH PAVEMENT DETECTABLE WARNING AREA INSTALLATION
<input type="checkbox"/> SP.19a	DIAGONAL CURB RAMP FOR CURB RETURN RADIUS OF 20' TO 30'
<input type="checkbox"/> SP.19b	PERPENDICULAR CURB RAMP FOR CURB RETURN RADIUS OF 35' TO 50'
<input type="checkbox"/> SP.20	MID-BLOCK CURB RAMP
<input checked="" type="checkbox"/> SP.21	CROSSSPAN
<input checked="" type="checkbox"/> SP.22	CURB OPENING
<input checked="" type="checkbox"/> SP.23a	TRENCH DRAIN
<input type="checkbox"/> SP.23b	TRENCH DRAIN WITH TRAFFIC SIGNAL CONDUIT
<input type="checkbox"/> SP.23c	TRAFFIC SIGNAL CONDUIT
<input checked="" type="checkbox"/> SP.24	TRENCH DRAIN CLEANOUT
<input checked="" type="checkbox"/> SP.25	TRENCH DRAIN 90° CORNER
<input checked="" type="checkbox"/> SP.26	BACK TO BACK TRENCH DRAIN CLEANOUTS
<input type="checkbox"/> SP.27	MEDIAN PLANTER LAYOUT
<input type="checkbox"/> SP.28	MEDIAN PLANTER DETAILS
<input type="checkbox"/> SP.29	MEDIAN COVER MATERIAL
<input type="checkbox"/> SP.30	MEDIAN NOSE DETAIL
<input type="checkbox"/> SP.31	CONCRETE JOINTS
<input type="checkbox"/> SP.32	CONCRETE JOINTS
<input type="checkbox"/> SP.33a, SP.33b, SP.33c, SP.33d	TYPICAL CONCRETE JOINT LAYOUT
<input checked="" type="checkbox"/> SP.34a, SP.34b, SP.34c, SP.34d	CURB INLET - TYPE R (5', 10', OR 15' IN LENGTH)
<input checked="" type="checkbox"/> SP.35a, SP.35b, SP.35c	INLET - TYPE C
<input checked="" type="checkbox"/> SP.36a, SP.36b, SP.36c	INLET - TYPE D
<input type="checkbox"/> SP.37a, SP.37b	GRADED INLET TYPE 13
<input type="checkbox"/> SP.38a, SP.38b	COMBINATION INLET TYPE 13/DENVER TYPE 16- SINGLE NO. 16 OPEN THROAT INLET ADJUSTABLE CURB BOX
<input type="checkbox"/> SP.39a, SP.39b	COMBINATION INLET TYPE 13/DENVER TYPE 16- DOUBLE NO. 16 OPEN THROAT INLET ADJUSTABLE CURB BOX
<input type="checkbox"/> SP.40a, SP.40b	COMBINATION INLET TYPE 13/DENVER TYPE 16- TRIPLE NO. 16 OPEN THROAT INLET ADJUSTABLE CURB BOX
<input type="checkbox"/> SP.41a, SP.41b	COMBINATION INLET TYPE 13/DENVER TYPE 16- SINGLE, DOUBLE & TRIPLE NO. 16 INLET VALLEY
<input type="checkbox"/> SP.42a, SP.42b	COMBINATION INLET TYPE 13/DENVER TYPE 16- NO. 16 INLET GRATE & FRAME AND ADJUSTABLE CURB BOX
<input checked="" type="checkbox"/> SP.43a, SP.43b, SP.43c, SP.43d, SP.43e, SP.43f	MANHOLES
<input type="checkbox"/> SP.44a, SP.44b, SP.44c, SP.44d	TYPE "P" MANHOLE
<input checked="" type="checkbox"/> SP.45	MANHOLE AND INLET STEPS
<input checked="" type="checkbox"/> SP.46a, SP.46b	PIPE INSTALLATION IN TRENCH
<input type="checkbox"/> SP.47a, SP.47b	PIPE INSTALLATION IN TRENCH FOR STREET CUT
<input type="checkbox"/> SP.48	ROADSIDE DITCH SECTION
<input type="checkbox"/> SP.49	URBAN ROADSIDE SWALE
<input checked="" type="checkbox"/> SP.50a, SP.50b	HEADWALLS FOR PIPE CULVERTS
<input checked="" type="checkbox"/> SP.51a, SP.51b, SP.51c	WINGWALLS
<input type="checkbox"/> SP.52a, SP.52b, SP.52c, SP.52d, SP.52e	CONCRETE OR METAL END SECTIONS
<input type="checkbox"/> SP.53a, SP.53b	RESIDENTIAL SIDEWALK CURB CHASE
<input type="checkbox"/> SP.54	RANGE BOX
<input type="checkbox"/> SP.55a, SP.55b	MAILBOX SUPPORT
<input type="checkbox"/> SP.56	EMERGENCY OVERFLOW CHANNEL (IN DRAINAGE TRACT)
<input checked="" type="checkbox"/> SP.57	MANHOLE RING AND COVER ADJUSTMENT
<input type="checkbox"/> SP.58	CURB TRANSITION TO DITCH
<input type="checkbox"/> SP.59	CURB CUT
<input checked="" type="checkbox"/> SP.60a, SP.60b	PIPE CONNECTION DETAIL
<input checked="" type="checkbox"/> SP.61	TRENCH DRAIN CONNECTION TO INLET OR MANHOLE
<input checked="" type="checkbox"/> SP.62	ASPHALT STREET CUT/PATCHING

CITY OF LONE TREE STANDARD DETAILS

DETAIL NUMBER	DRAWING NAME
<input type="checkbox"/> N/A	MEDIAN NOSE DETAIL
<input type="checkbox"/> N/A	MEDIAN NOSE SIGNAGE
<input type="checkbox"/> N/A	CURB RETURN DETAIL
<input checked="" type="checkbox"/> N/A	STREET CUT AND PATCH SPECIFICATION
<input type="checkbox"/> ST-02	STREET CUT CONCRETE PAVEMENT
<input type="checkbox"/> ST-01	STREET CUT ASPHALT
<input checked="" type="checkbox"/> SN-01	STREET NAME SIGN DETAILS
<input checked="" type="checkbox"/> SN-02	STREET NAME SIGN DETAILS
<input checked="" type="checkbox"/> SN-03	STREET NAME SIGN DETAILS
<input checked="" type="checkbox"/> MH-1	MANHOLE LID COVER

CITY AND COUNTY OF DENVER TRANSPORTATION STANDARDS AND DETAILS

DETAIL NUMBER	DRAWING NAME
<input checked="" type="checkbox"/> 7.1	CURB RAMP TYPE 1
<input checked="" type="checkbox"/> 7.2a / b	CURB RAMP TYPE 2
<input checked="" type="checkbox"/> 7.3	CURB RAMP TYPE 3
<input checked="" type="checkbox"/> 7.4	CURB RAMP TYPE 4
<input checked="" type="checkbox"/> 7.6a / b	CURB RAMP TRUNCATED DOME PLACEMENT OPTIONS
<input checked="" type="checkbox"/> 7.7	CURB RAMP TYPICAL SECTION
<input checked="" type="checkbox"/> 7.8	TYPICAL SIDEWALK TRANSITIONS TO CURB RAMP LANDING

COLORADO DEPARTMENT OF TRANSPORTATION M PLANS LIST

PLAN NUMBER	M STANDARD TITLE	PAGE NUMBER
<input type="checkbox"/> M-100-1	STANDARD SYMBOLS (3 SHEETS)	1-3
<input type="checkbox"/> M-100-2	ACRONYMS AND ABBREVIATIONS (4 SHEETS)	4-7
<input type="checkbox"/> M-203-1	APPROACH ROADS	8
<input type="checkbox"/> M-203-2	DITCH TYPES	9
<input type="checkbox"/> M-203-11	SUPERELEVATION CROWNED AND DIVIDED HIGHWAYS (3 SHEETS)	10-12
<input type="checkbox"/> M-203-12	SUPERELEVATION STREETS (2 SHEETS)	13-14
<input type="checkbox"/> M-206-1	EXCAVATION AND BACKFILL FOR STRUCTURES (2 SHEETS)	15-16
<input type="checkbox"/> M-206-2	EXCAVATION AND BACKFILL FOR BRIDGES (2 SHEETS)	17-18
<input type="checkbox"/> M-208-1	TEMPORARY EROSION CONTROL (11 SHEETS)	19-30
<input type="checkbox"/> M-210-1	MAILBOX SUPPORTS (2 SHEETS)	31-32
<input type="checkbox"/> M-214-1	PLANTING DETAILS	33
<input type="checkbox"/> M-216-1	SOIL RETENTION COVERING (2 SHEETS)	33
<input type="checkbox"/> M-412-1	CONCRETE PAVEMENT JOINTS (5 SHEETS)	34-38
<input type="checkbox"/> M-510-1	STRUCTURAL PLATE PIPE H-20 LOADING	39
<input type="checkbox"/> M-601-1	SINGLE CONCRETE BOX CULVERT (2 SHEETS)	40-41
<input type="checkbox"/> M-601-2	DOUBLE CONCRETE BOX CULVERT (2 SHEETS)	42-43
<input type="checkbox"/> M-601-3	TRIPLE CONCRETE BOX CULVERT (2 SHEETS)	44-45
<input type="checkbox"/> M-601-10	HEADWALL FOR PIPES	46
<input type="checkbox"/> M-601-11	TYPE "S" SADDLE HEADWALLS FOR PIPE	47
<input type="checkbox"/> M-601-12	HEADWALLS AND PIPE OUTLET PAVING	48
<input type="checkbox"/> M-601-20	WINGWALLS FOR PIPE OR BOX CULVERTS	49
<input type="checkbox"/> M-603-1	METAL PIPE (4 SHEETS)	50-53
<input checked="" type="checkbox"/> M-603-2	REINFORCED CONCRETE PIPE	54
<input type="checkbox"/> M-603-3	PRECAST CONCRETE BOX CULVERT	55
<input type="checkbox"/> M-603-4	CORRUGATED POLYETHYLENE PIPE (AASHTO M294)	56
<input type="checkbox"/> M-603-5	POLYVINYL CHLORIDE (PVC) PIPE (AASHTO M304)	57
<input type="checkbox"/> M-603-6	STEEL REINFORCED POLYETHYLENE RIBBED PIPE (AASHTO MP 20)	58-59
<input type="checkbox"/> M-603-10	CONCRETE AND METAL END SECTIONS (2 SHEETS)	60
<input type="checkbox"/> M-604-10	INLET, TYPE C	60
<input type="checkbox"/> M-604-11	INLET, TYPE D	61
<input type="checkbox"/> M-604-12	CURB INLET TYPE R (2 SHEETS)	62-63
<input type="checkbox"/> M-604-13	CONCRETE INLET TYPE 13	64
<input type="checkbox"/> M-604-20	MANHOLES (3 SHEETS)	65-67
<input type="checkbox"/> M-604-25	VANE GRATE INLET (5 SHEETS)	68-72
<input type="checkbox"/> M-605-1	SUBSURFACE DRAINS	73
<input type="checkbox"/> M-606-1	GUARDRAIL TYPE 3 W-BEAM (20 SHEETS)	74-92
<input type="checkbox"/> M-606-1	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 3 W-BEAM 31 INCHES (20 SHEETS)	93-96
<input type="checkbox"/> M-606-13	GUARDRAIL TYPE 7 F-SHAPE BARRIER (4 SHEETS)	97-99
<input type="checkbox"/> M-606-14	PRECAST TYPE 7 CONCRETE BARRIER (3 SHEETS)	99-102
<input type="checkbox"/> M-606-15	GUARDRAIL TYPE 9 SINGLE SLOPE BARRIER (11 SHEETS)	103-105
<input type="checkbox"/> M-607-1	WIRE FENCES AND GATES (3 SHEETS)	106
<input type="checkbox"/> M-607-2	CHAIN LINK FENCE (3 SHEETS)	107-109
<input type="checkbox"/> M-607-3	BARRIER FENCE	110
<input type="checkbox"/> M-607-4	DEER FENCE, GATES, AND GAME RAMPS (5 SHEETS)	111-119
<input type="checkbox"/> M-607-10	PICKET SNOW FENCE	120-125
<input type="checkbox"/> M-607-15	ROAD CLOSURE GATE (9 SHEETS)	126-129
<input type="checkbox"/> M-608-1	CURB RAMPS (10 SHEETS)	130-131
<input type="checkbox"/> M-609-1	CURBS, GUTTERS, AND SIDEWALKS (4 SHEETS)	132-135
<input type="checkbox"/> M-611-1	CATTLE GUARD (2 SHEETS)	136-138
<input type="checkbox"/> M-611-2	DEER GUARD (2 SHEETS)	139-140
<input type="checkbox"/> M-613-1	ROADWAY LIGHTING (4 SHEETS)	141
<input type="checkbox"/> M-614-1	RUMBLE STRIPS (3 SHEETS)	142
<input type="checkbox"/> M-614-2	SAND BARREL ARRAYS (2 SHEETS)	143
<input type="checkbox"/> M-615-1	EMBANKMENT PROTECTOR TYPE 3	144
<input type="checkbox"/> M-615-2	EMBANKMENT PROTECTOR TYPE 5	145-146
<input type="checkbox"/> M-616-1	INVERTED SIPHON	147
<input type="checkbox"/> M-620-1	FIELD LABORATORY CLASS 1	148
<input type="checkbox"/> M-620-2	FIELD LABORATORY CLASS 2 (2 SHEETS)	149-150
<input type="checkbox"/> M-620-11	FIELD OFFICE CLASS 1	
<input type="checkbox"/> M-620-12	FIELD OFFICE CLASS 2	
<input type="checkbox"/> M-629-1	SURVEY MONUMENTS (2 SHEETS)	

COLORADO DEPARTMENT OF TRANSPORTATION S PLANS LIST

PLAN NUMBER	M STANDARD TITLE	PAGE NUMBER
<input type="checkbox"/> S-612-1	DELINEATOR INSTALLATIONS (8 SHEETS)	151-157
<input type="checkbox"/> S-613-1	ROADWAY LIGHTING (8 SHEETS)	151-157
<input type="checkbox"/> S-614-1	GROUND SIGN PLACEMENT (2 SHEETS)	158-159
<input type="checkbox"/> S-614-2	CLASS I SIGNS	160
<input type="checkbox"/> S-614-3	CLASS II SIGNS	161
<input type="checkbox"/> S-614-4	CLASS III SIGNS (3 SHEETS)	162-164
<input type="checkbox"/> S-614-5	BREAK-AWAY SIGN SUPPORT DETAILS FOR GROUND SIGNS (2 SHEETS)	165-166
<input type="checkbox"/> S-614-6	CONCRETE FOOTINGS AND SIGN ISLANDS FOR CLASS III SIGNS (2 SHEETS)	167-168
<input type="checkbox"/> S-614-8	TUBULAR STEEL SIGN SUPPORT DETAILS (7 SHEETS)	169-173
<input type="checkbox"/> S-614-9	PEDESTRIAN PUSH BUTTON POST ASSEMBLY	174
<input type="checkbox"/> S-614-10	MARKER ASSEMBLY INSTALLATIONS	175
<input type="checkbox"/> S-614-11	MILEPOST SIGN DETAIL FOR HIGH SNOW AREAS	176
<input type="checkbox"/> S-614-12	STRUCTURE NUMBER INSTALLATION (2 SHEETS)	177
<input type="checkbox"/> S-614-14	FLASHING BEACON AND SIGN INSTALLATIONS (3 SHEETS)	178-180
<input type="checkbox"/> S-614-20	TYPICAL POLE MOUNT SIGN INSTALLATIONS	181
<input type="checkbox"/> S-614-21	CONCRETE BARRIER SIGN POST INSTALLATIONS	182
<input type="checkbox"/> S-614-22	TYPICAL MULTI-SIGN INSTALLATIONS	183
<input type="checkbox"/> S-614-40	TYPICAL TRAFFIC SIGNAL INSTALLATION DETAILS (5 SHEETS)	184-188
<input type="checkbox"/> S-614-40A	ALTERNATIVE TRAFFIC SIGNAL INSTALLATION DETAILS (4 SHEETS)	189-192
<input type="checkbox"/> S-614-41	TEMPORARY SPAN WIRE SIGNALS	193
<input type="checkbox"/> S-614-42	CABINET FOUNDATION DETAIL (4 SHEETS)	194-197
<input type="checkbox"/> S-614-43	TRAFFIC LOOP AND MISCELLANEOUS SIGNAL DETAILS (10 SHEETS)	198-207
<input type="checkbox"/> S-614-44	PEDESTAL POLE SIGNALS (2 SHEETS)	
<input type="checkbox"/> S-614-50	STATIC SIGN MONOTUBE STRUCTURES (12 SHEETS)	208-219
<input type="checkbox"/> S-614-60	DYNAMIC SIGN MONOTUBE STRUCTURES (14 SHEETS)	220-233
<input type="checkbox"/> S-627-1	PAVEMENT MARKINGS (8 SHEETS)	234-238
<input type="checkbox"/> S-630-1	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION (24 SHEETS)	239-258
<input type="checkbox"/> S-630-2	BARRICADES, DRUMS, CONCRETE BARRIERS (TEMP) AND VERTICAL PANELS	259
<input type="checkbox"/> S-630-3	FLASHING BEACON (PORTABLE) DETAILS	260
<input type="checkbox"/> S-630-4	STEEL SIGN SUPPORT (TEMPORARY) INSTALLATION DETAILS (2 SHEETS)	261-262
<input type="checkbox"/> S-630-5	PORTABLE RUMBLE STRIPS (TEMPORARY) (2 SHEETS)	263-264
<input type="checkbox"/> S-630-6	EMERGENCY PULL-OFF AREA (TEMPORARY)	265
<input type="checkbox"/> S-630-7	ROLLING ROADBLOCKS FOR TRAFFIC CONTROL (3 SHEETS)	266-268

STANDARD DRAWINGS APPLICABLE TO THIS PROJECT ARE INDICATED BY A MARKED BOX. ■



DESIGN BY:	CD
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CHECKED BY:	CB
APPROVED BY:	CB
DATE	DRWNCHKD/APPR

RIDGEGATE EAST FILING NO. 3
STREET AND STORM SEWER
PLANS
STANDARD PLANS & DETAIL LIST

ISSUED FOR REVIEW
FOR AND ON BEHALF OF MERRICK & COMPANY

City of Lone Tree

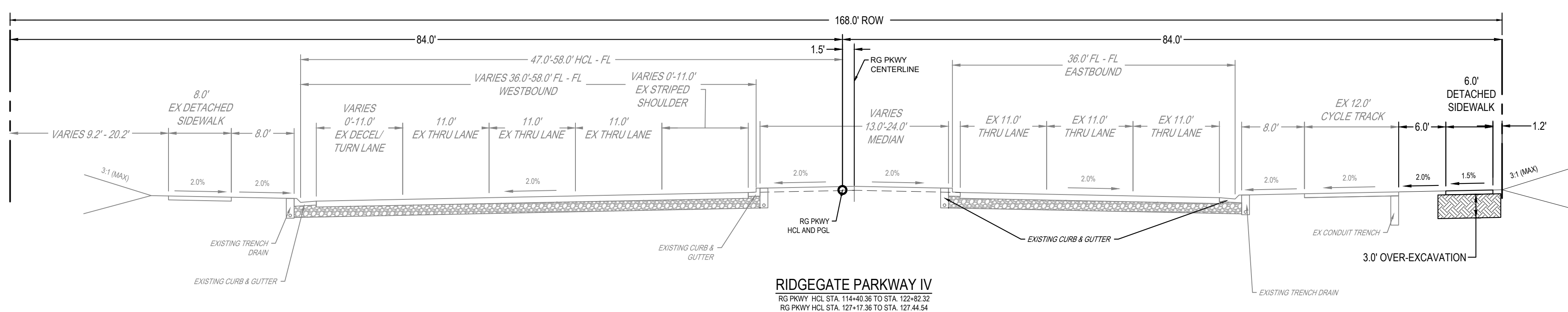
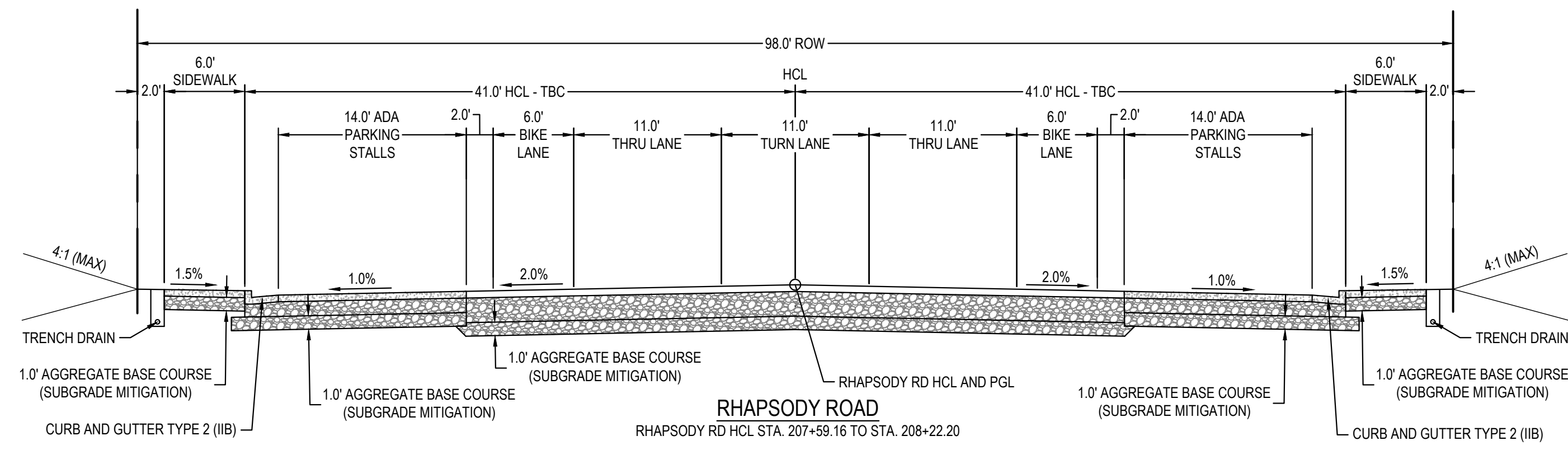
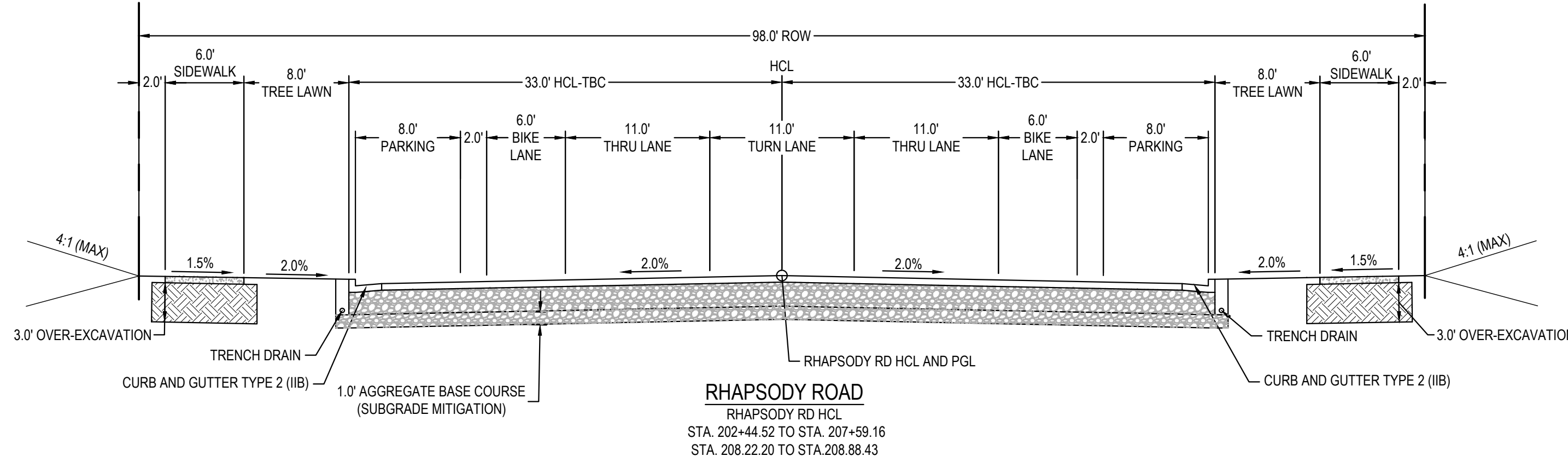
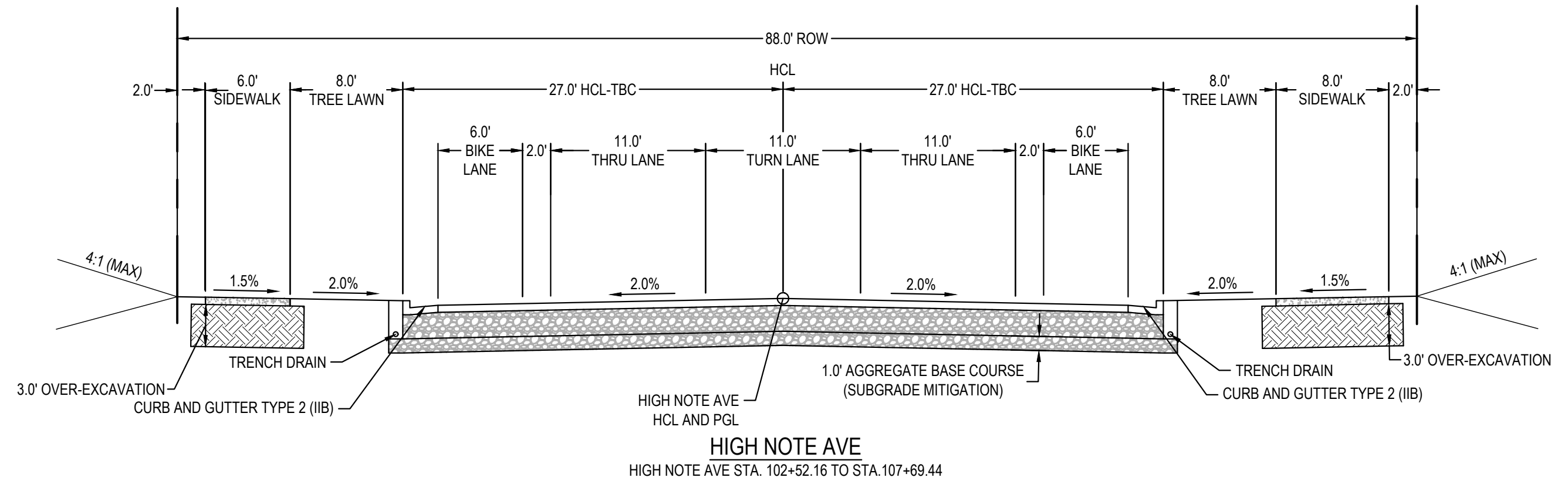
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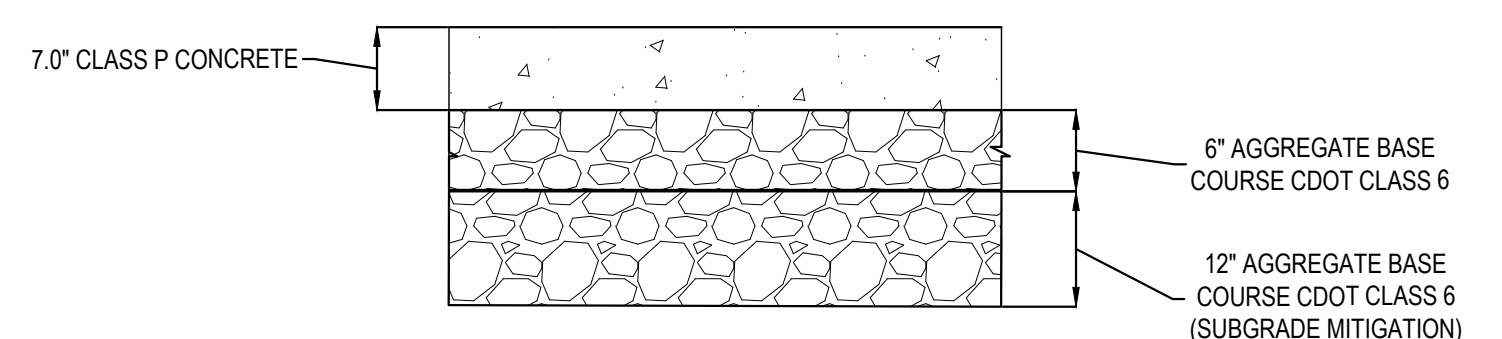
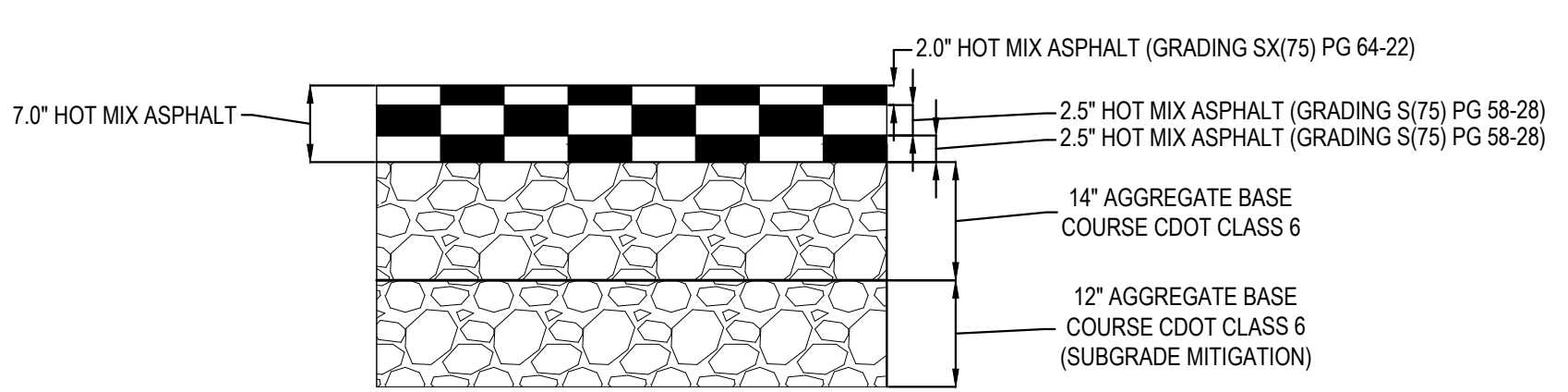
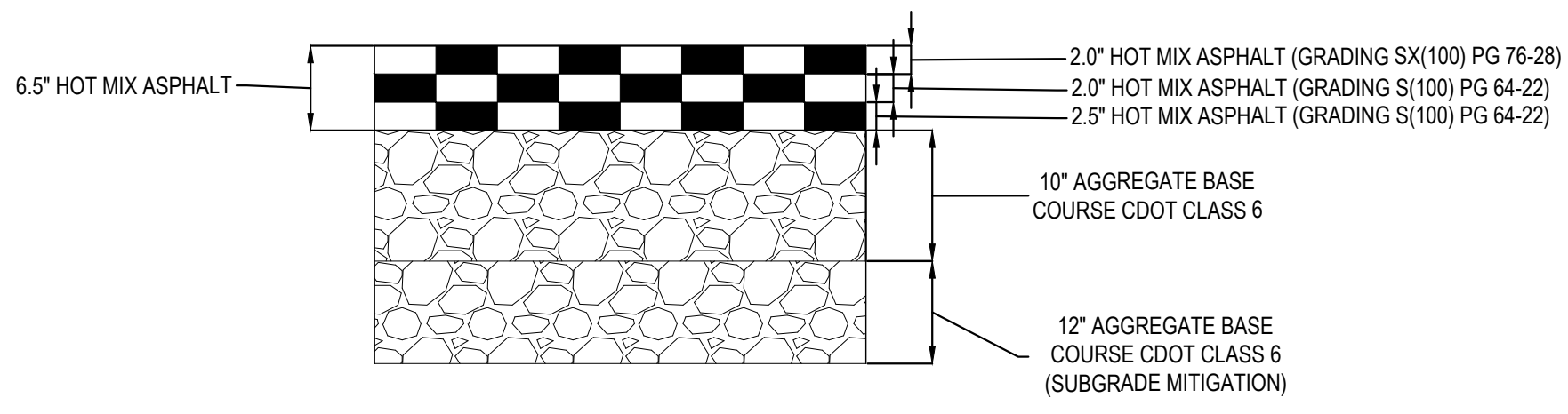
JOB NO.:	65121240
DATE:	7/13/2023
SHEET:	3 OF 78

THE NEW ORANGE COUNTY ENGINEERING DEPARTMENT IS AN INSTRUMENT OF SERVICE PROVIDED BY MERRICK AND COMPANY, INC. A REGISTERED PROFESSIONAL ENGINEERING FIRM. THIS PLAN IS A PART OF A PROJECT AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN CONSENT OF MERRICK AND COMPANY, INC. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.

File Location: C:\DEN\Projects\509-02-RRWD Overall\Projects\1240-Couplet Roadway Design\Design\Civil\Road and Storm\1240-TYPICAL SECTIONS.dwg PLOT Date: 7/13/2023 5:52 PM Last Saved By: NBROWN



- TYPICAL SECTION NOTES:**
1. TYPICAL SECTIONS ARE NOT INTENDED TO PROVIDE DETAILED CONSTRUCTION INFORMATION. SEE REMAINDER OF THESE PLANS FOR ACTUAL DIMENSIONS, LOCATIONS, AND ELEVATIONS.
 2. TYPICAL ROADWAY CROSS SLOPE IS 2.0%. SEE ROADWAY PLANS FOR ADDITIONAL CROSS SLOPE INFORMATION.
 3. TYPICAL SECTIONS ARE SHOWN IN THE DIRECTION OF ASCENDING STATIONING.
 4. THE OVER-EXCAVATION LIMITS SHALL EXTEND 1 FOOT BEYOND THE BACK OF CURB AND 1 FOOT BEYOND EACH EDGE OF SIDEWALK.
 5. SEE DOUGLAS COUNTY DETAIL SP.62 FOR TIE-IN OF NEW DEPTH ASPHALT PAVEMENT.



NOTE: PAVEMENT DESIGN AND SUBGRADE MITIGATION PER GEOTECHNICAL EVALUATION RIDGEGATE PARKWAY STATION ROADS, PREPARED BY GROUND ENGINEERING CONSULTANTS DECEMBER 20, 2019 AND THE LETTER BY GROUND ENGINEERING CONSULTANTS DATED MARCH 21, 2023. SUBJECT: CONTINUED APPLICABILITY OF 2019 GROUND REPORT TO HIGH NOTE AVENUE EAST OF HAVANA STREET, RIDGEGATE PARKWAY STATION ROADS, LONE TREE, COLORADO.

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City of Lone Tree

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DRAWN BY:	NB			
CHECKED BY:	CB			
APPROVED BY:	CB			

RIDGEGATE EAST FILING NO. 3
 STREET AND STORM SEWER
 PLANS

TYPICAL SECTIONS 1

JOB NO.: 65121240

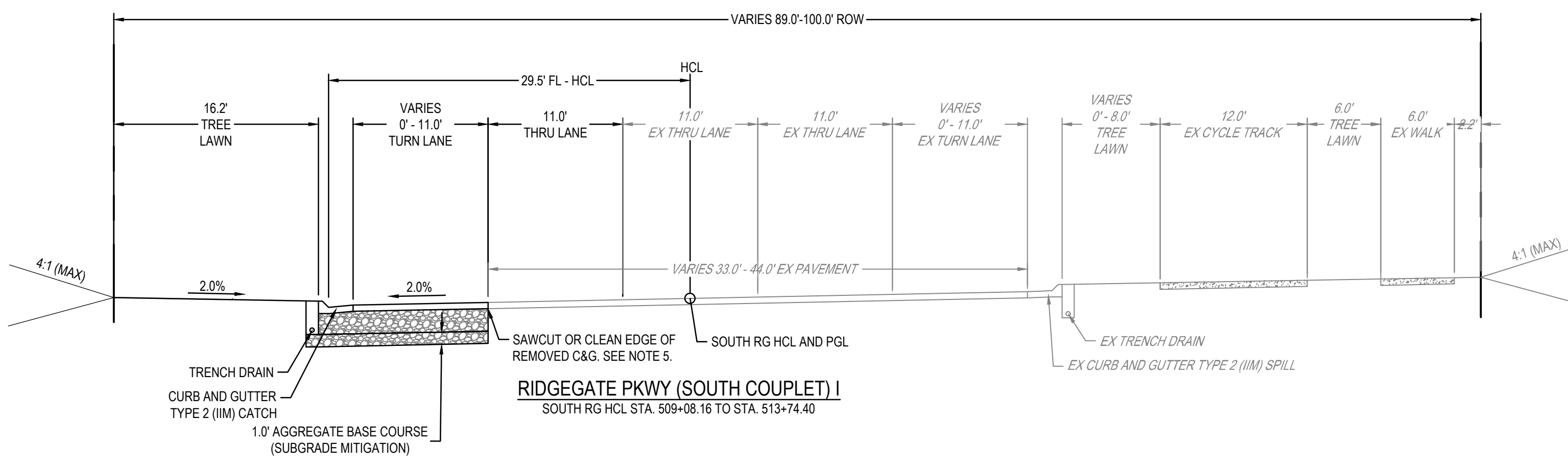
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SHEET: 4 OF 78

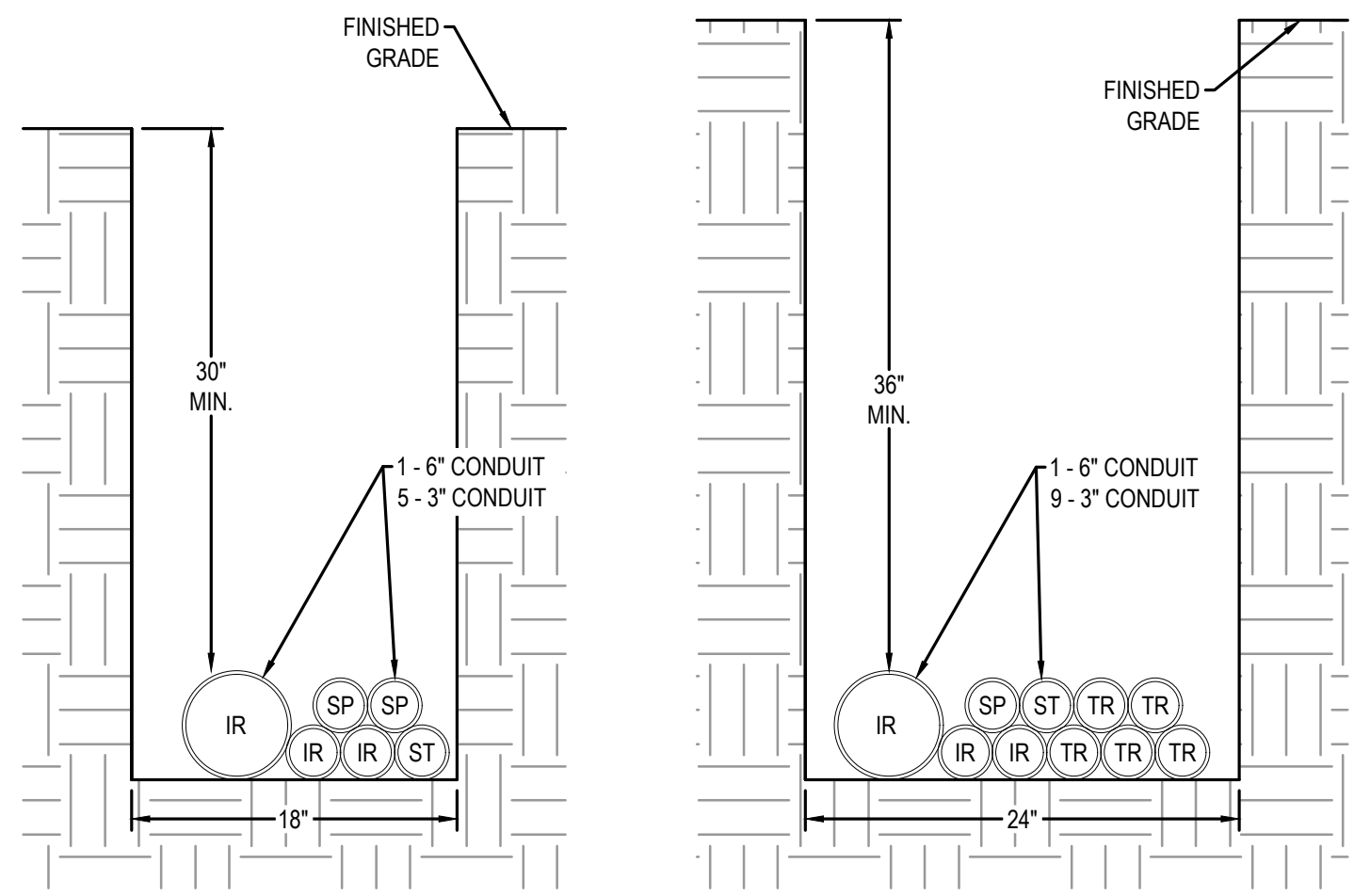
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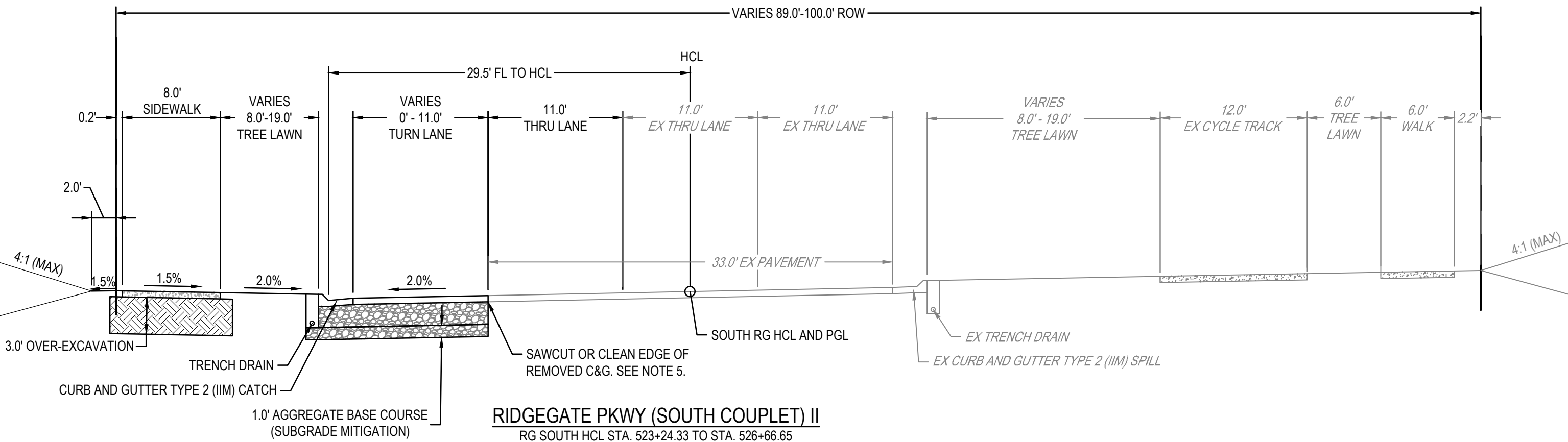
RIDGEGATE PKWY (SOUTH COUPLET) I
SOUTH RG HCL STA. 509+08.16 TO STA. 513+74.40



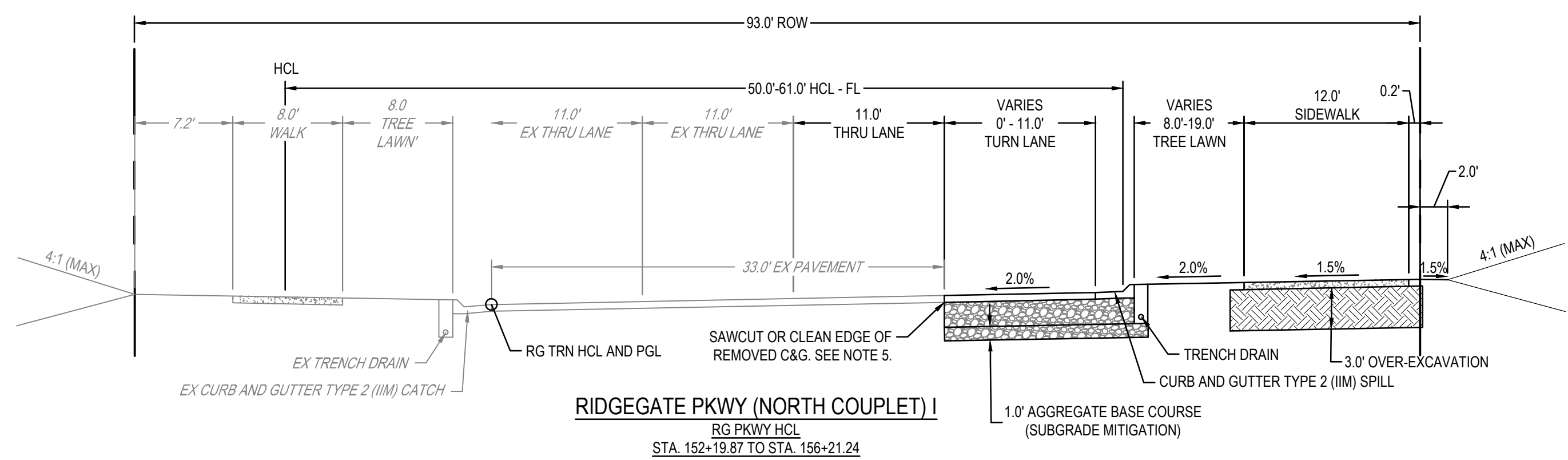
CONDUIT TRENCH DETAIL A
NTS

CONDUIT TRENCH DETAIL B
NTS

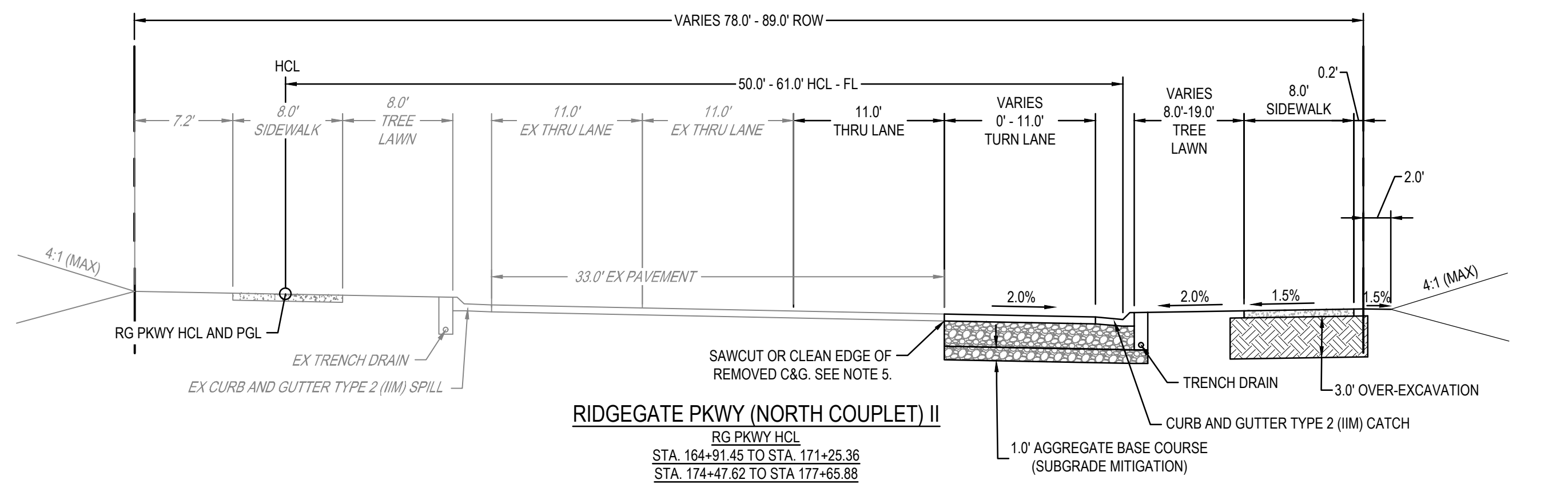
- CONDUIT TRENCH NOTES:**
- ALL CONDUIT SHALL BE SCHEDULE 40 PVC.
 - INSTALL 2" PVC PIPE MARKER AT CONDUIT ENDS AT LEAST 3' ABOVE GRADE.
 - INSTALL #14 AWG LOCATE WIRE AND A NYLON PULL STRING IN EACH CONDUIT.
 - BACKFILL WITH NATIVE MATERIAL AND COMPACT TO A MINIMUM 95 PERCENT OF THE MAXIMUM DRY DENSITY AT MOISTURE CONTENTS WITHIN 2 PERCENT OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D1557.
- CONDUIT LEGEND:**
- IR = IRRIGATION
 - SP = SPARE
 - ST = STREET LIGHTING
 - TR = TRAFFIC SIGNAL



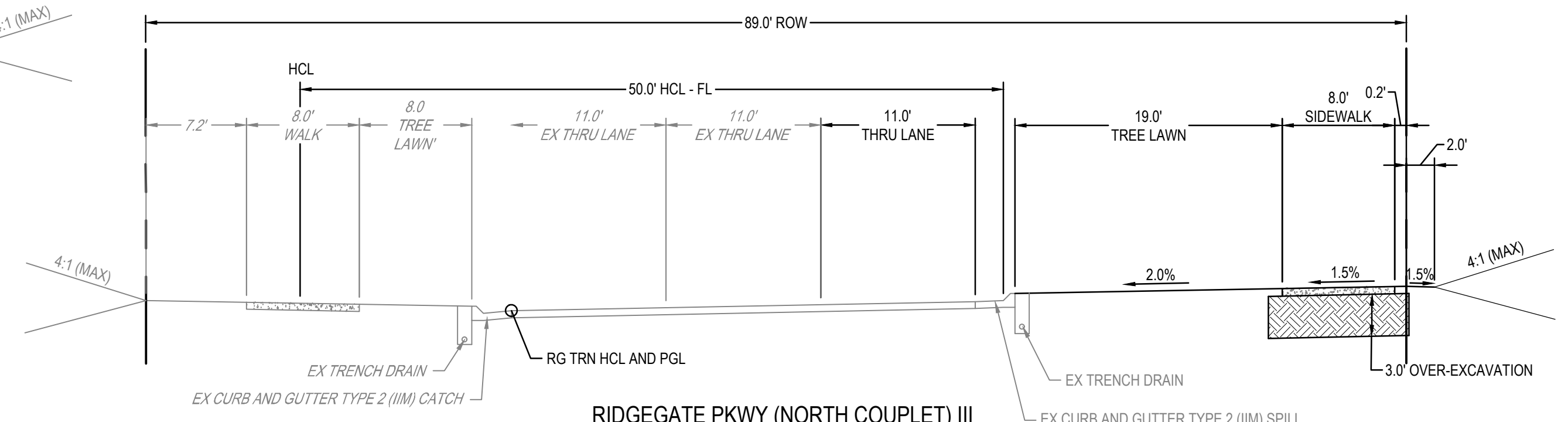
RIDGEGATE PKWY (SOUTH COUPLET) II
RG SOUTH HCL STA. 523+24.33 TO STA. 526+66.65



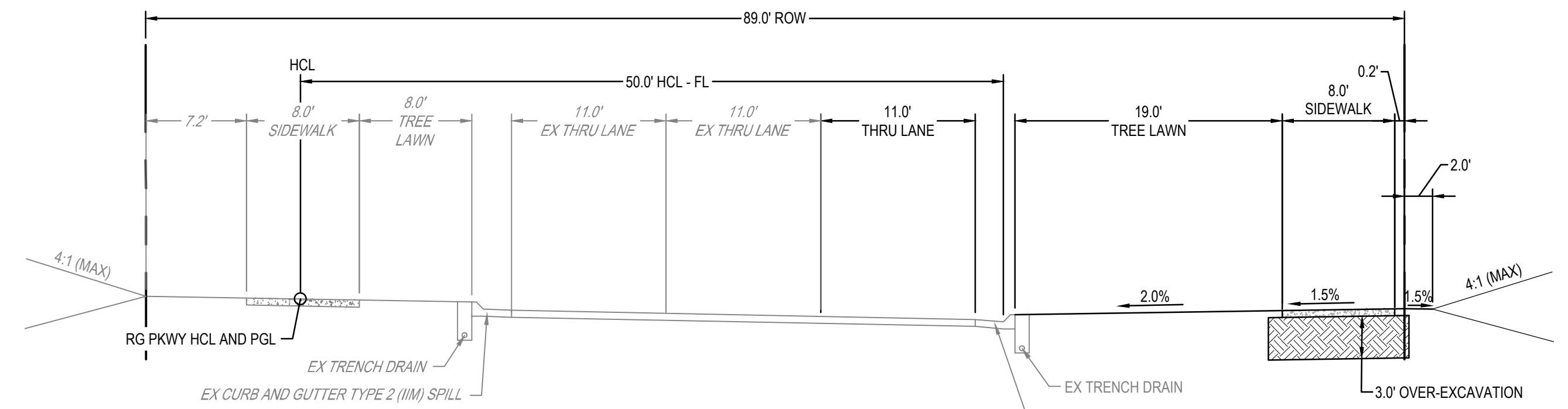
RIDGEGATE PKWY (NORTH COUPLET) I
RG PKWY HCL STA. 152+19.87 TO STA. 156+21.24



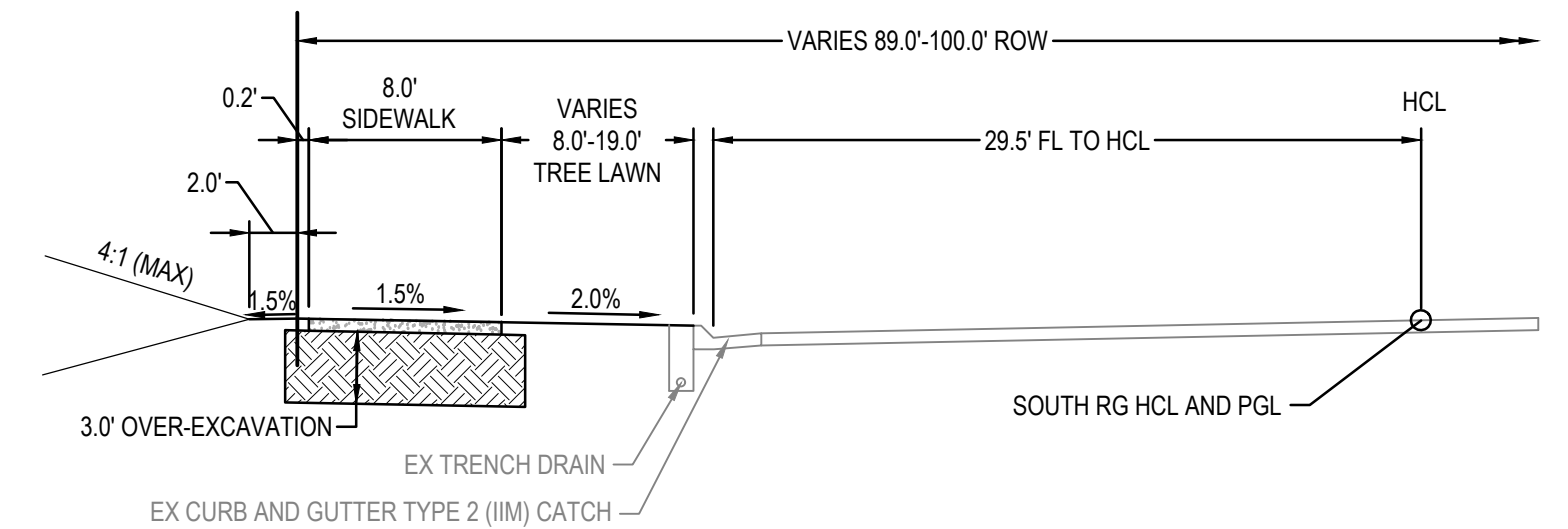
RIDGEGATE PKWY (NORTH COUPLET) II
RG PKWY HCL STA. 164+91.45 TO STA. 171+25.36
STA. 174+47.62 TO STA. 177+65.88



RIDGEGATE PKWY (NORTH COUPLET) III
RG PKWY HCL STA. 156+21.24 TO STA. 159+50



RIDGEGATE PKWY (NORTH COUPLET) IV
RG PKWY HCL STA. 159+50 TO STA. 163+97.26



RIDGEGATE PKWY (SOUTH COUPLET) III
RG SOUTH HCL STA. 513+74.40 TO STA. 523+24.33

- TYPICAL SECTION NOTES:**
- TYPICAL SECTIONS ARE NOT INTENDED TO PROVIDE DETAILED CONSTRUCTION INFORMATION. SEE REMAINDER OF THESE PLANS FOR ACTUAL DIMENSIONS, LOCATIONS, AND ELEVATIONS.
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 - SEE DOUGLAS COUNTY DETAIL SP.62 FOR TIE-IN OF NEW DEPTH ASPHALT PAVEMENT.

City of Lone Tree

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Engineering Division Acceptance Block



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DRAWN BY:	NB		
CHECKED BY:	CB		
APPROVED BY:	CB		

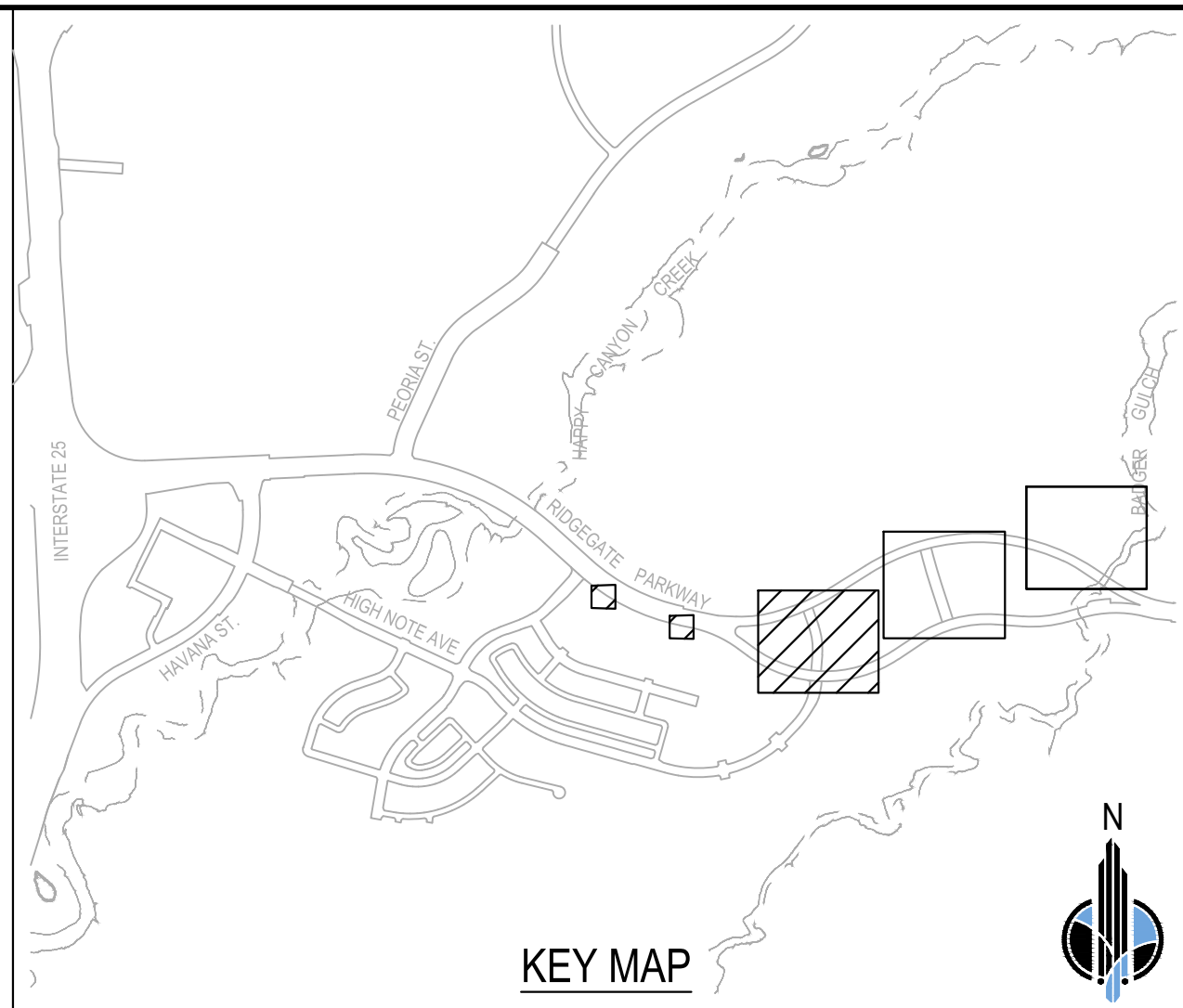
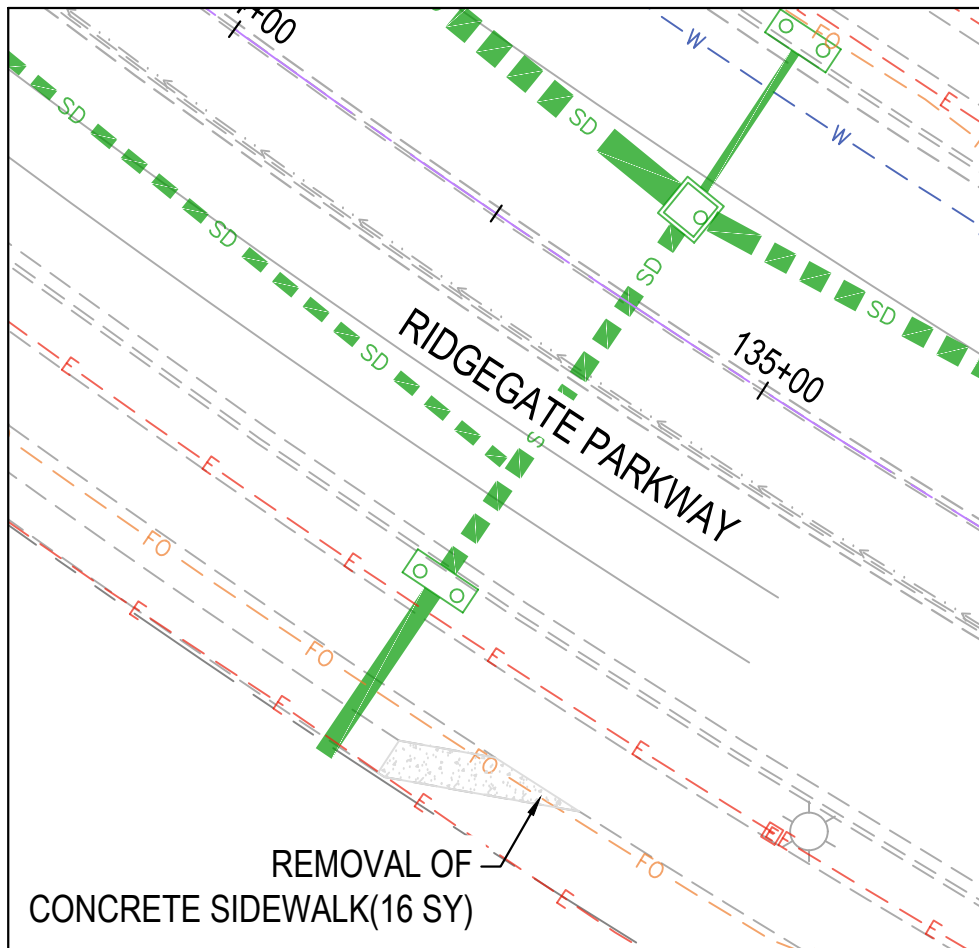
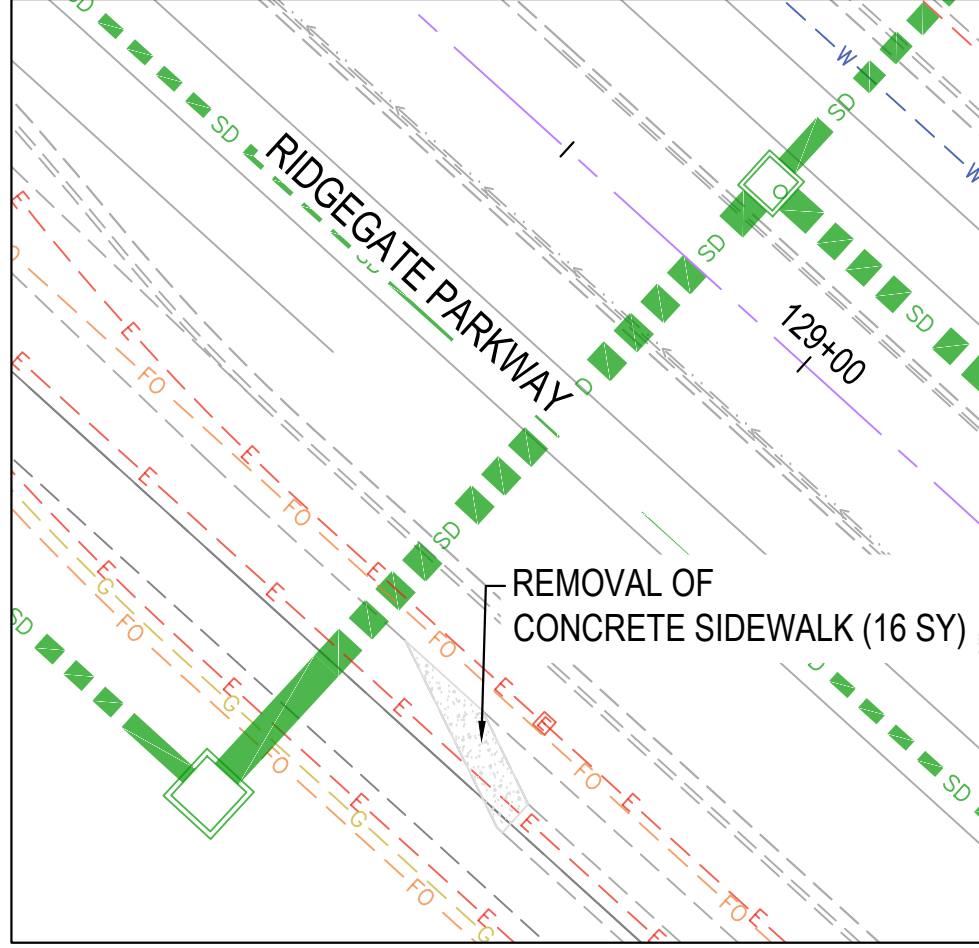
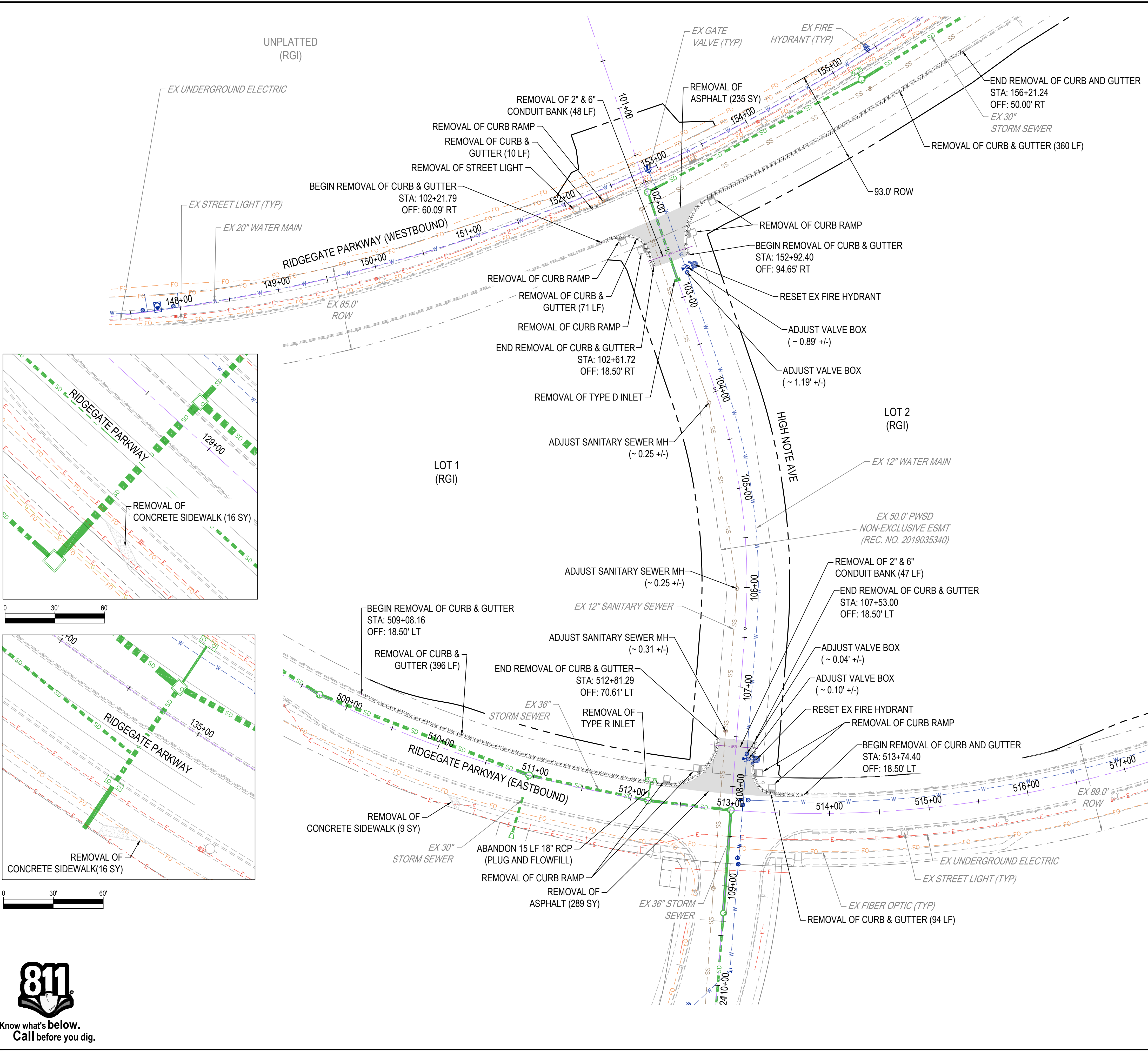
RIDGEGATE EAST FILING NO. 3
STREET AND STORM SEWER PLANS
TYPICAL SECTIONS 2

JOB NO.: 65121240
DATE: 7/14/2023
SHEET: 5 OF 78

ISSUED FOR REVIEW
 FOR AND ON BEHALF OF MERRICK & COMPANY

THE CITY OF LONE TREE, ILLINOIS, HAS REVIEWED THESE PLANS AND FOUND THEM TO BE IN SUBSTANTIAL ACCORDANCE WITH THE CITY ENGINEERING DEPARTMENT'S STANDARD SPECIFICATIONS FOR CONSTRUCTION. THIS REVIEW IS LIMITED TO THE TECHNICAL ASPECTS OF THE PLANS AND DOES NOT CONSTITUTE A GUARANTEE OR WARRANTY OF ANY KIND. THE CITY OF LONE TREE, ILLINOIS, IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THESE PLANS OR FOR ANY DAMAGE TO PERSONS OR PROPERTY ARISING FROM THE USE OF THESE PLANS.

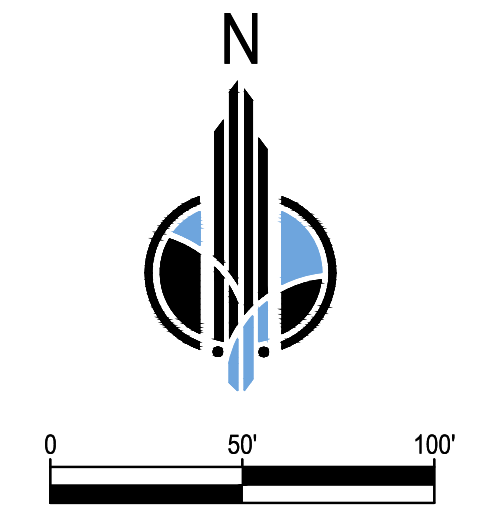
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- DEMOLITION NOTES:**
- REMOVAL OF FENCE OR RESET FENCE TO BE DONE BY OTHERS PRIOR TO START OF CONSTRUCTION.
 - REMOVAL OF SIGNAGE AND STRIPING TO BE FOUND ON SIGNAGE AND STRIPING SHEETS.

DEMO LEGEND

[Solid Grey Box]	REMOVAL OF ASPHALT PAVEMENT
[Dashed Line Box]	REMOVAL OF CURB AND GUTTER AND PIPE



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RIDGEGATE EAST FILING NO. 3
 STREET AND STORM SEWER
 PLANS
 DEMOLITION PLAN 1

City of Lone Tree

These construction plans have been reviewed by the City of Lone Tree for street and drainage improvements only.

Engineering Division Acceptance Block

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JOB NO.: 65121240	DATE: 7/13/2023	SHEET: 6 OF 78
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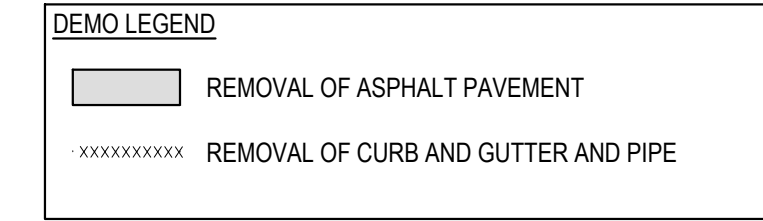
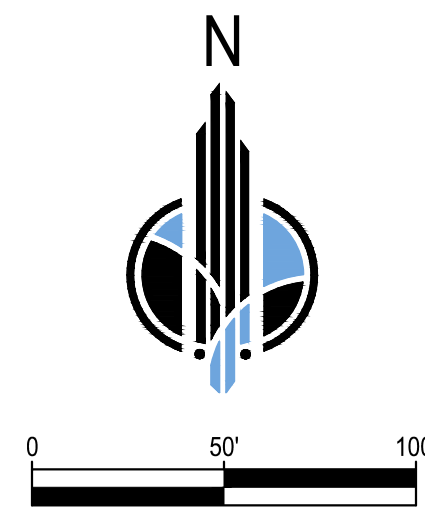
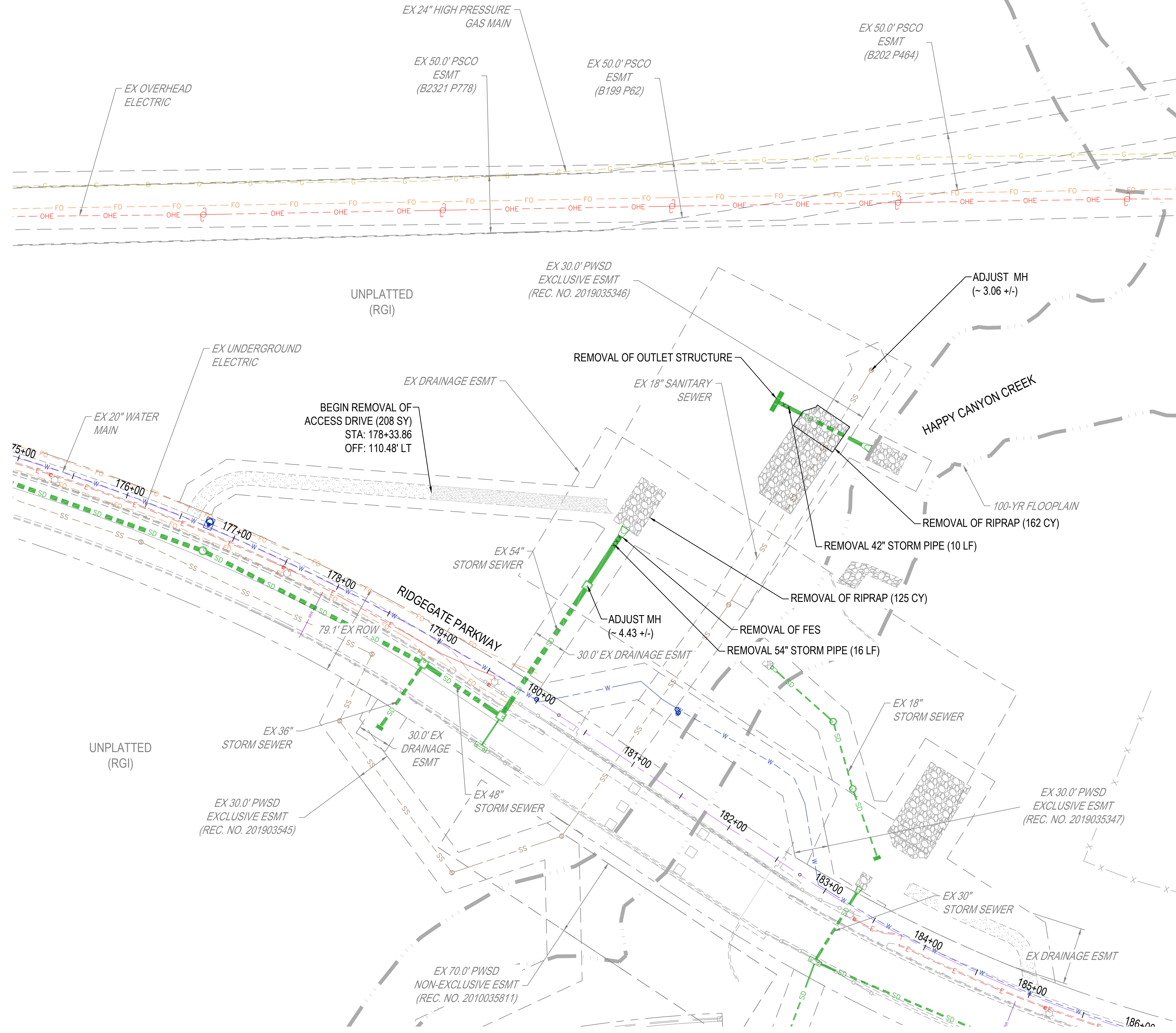
811
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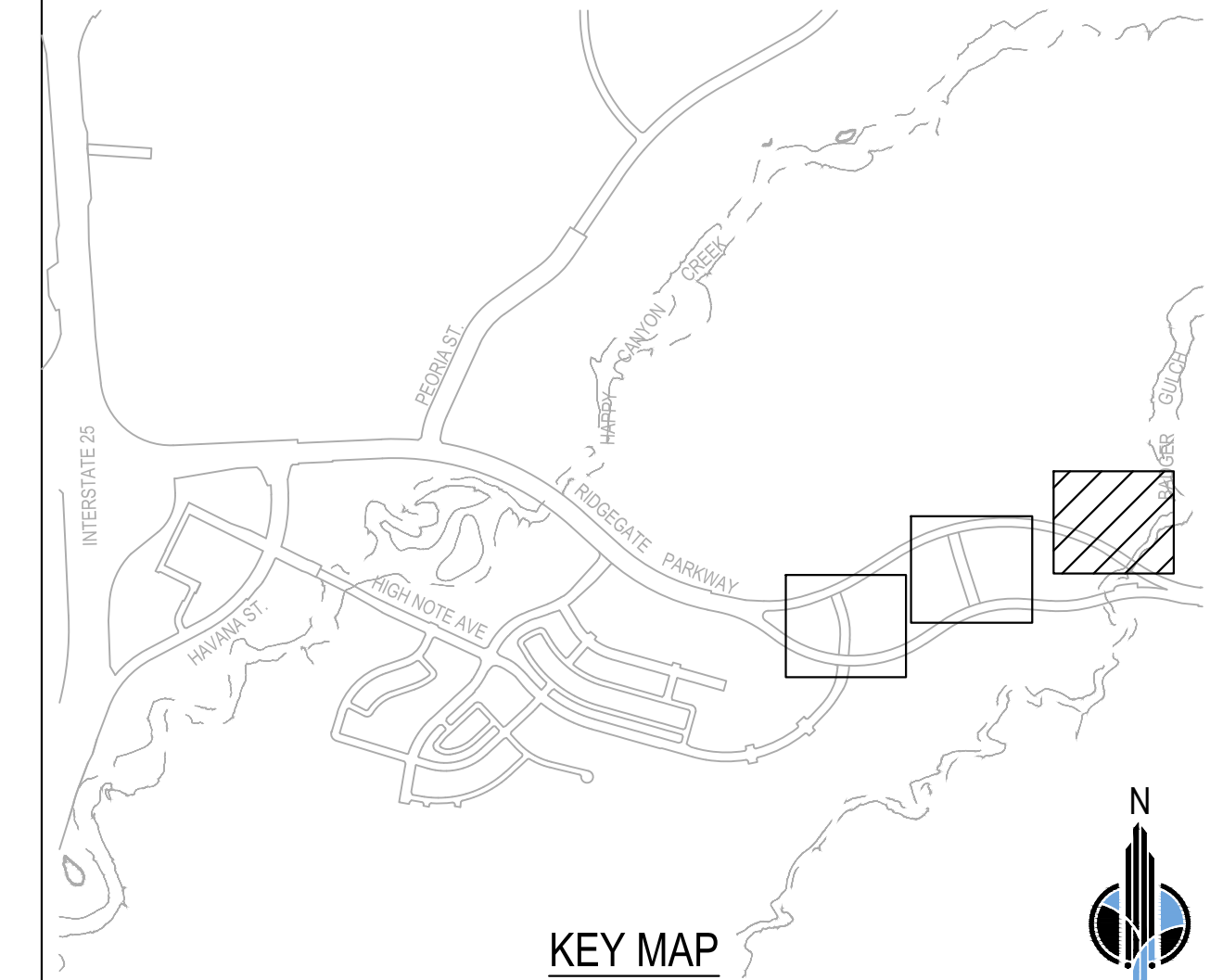
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RIDGEGATE EAST FILING NO. 3
STREET AND STORM SEWER
PLANS
DEMOLITION PLAN 3

ISSUED FOR REVIEW
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City of Lone Tree

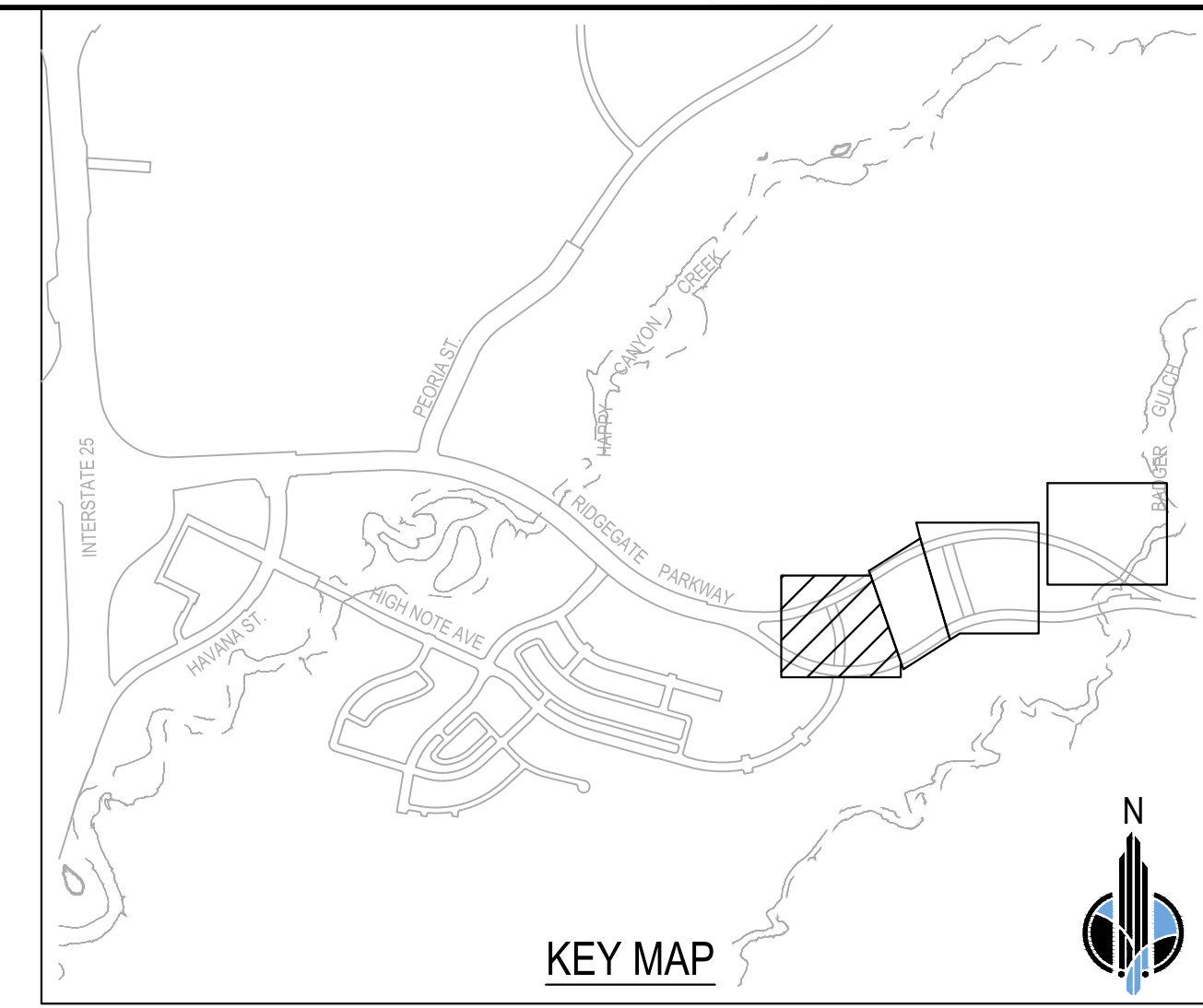
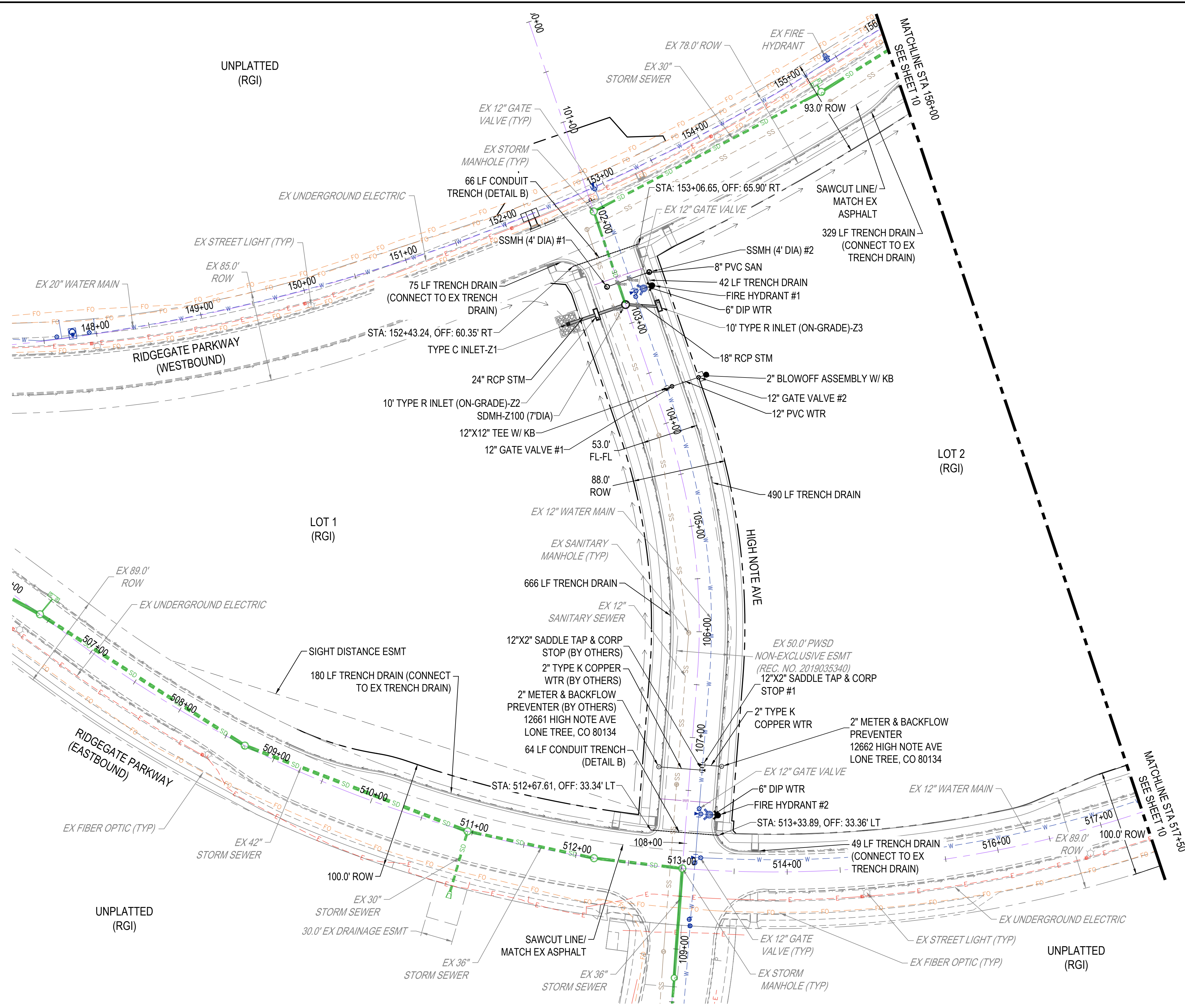
These construction plans have been reviewed by the City of Lone Tree for street and drainage improvements only.

Engineering Division Acceptance Block

JOB NO.: 65121240
DATE: 7/13/2023
SHEET: 8 OF 78

THE CITY OF LONE TREE, ILLINOIS, HAS REVIEWED THESE CONSTRUCTION PLANS AND SPECIFICATIONS FOR CONFORMANCE WITH THE CITY OF LONE TREE, ILLINOIS, SUBSURFACE UTILITY ENGINEERING STANDARDS. THE CITY OF LONE TREE, ILLINOIS, DOES NOT WARRANT THE ACCURACY OF THE INFORMATION PROVIDED HEREON. THE USER OF THESE CONSTRUCTION PLANS AND SPECIFICATIONS SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AUTHORITIES.

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- EXISTING SUBSURFACE UTILITY NOTES:**
- "QUALITY LEVEL A" DATA POINTS INDICATED BY SYMBOL
 - ALL "QUALITY LEVEL A" ELEVATIONS ARE TO THE TOP OF UTILITY UNLESS OTHERWISE NOTED.
 - THE SANITARY SEWER AND STORM DRAINAGE FACILITIES ARE "QUALITY LEVEL C". ALL OTHER SUBSURFACE UTILITIES DEPICTED AT ASCE 38 "QUALITY LEVEL B" UNLESS OTHERWISE NOTED.
 - THE FOLLOWING UTILITIES WERE NOT INCLUDED AS PART OF THE SUBSURFACE UTILITY ENGINEERING INVESTIGATION: LANDSCAPE IRRIGATION SYSTEMS, UTILITY SERVICES TO RESIDENCES OR BUSINESSES, UNDERGROUND STORAGE TANKS, SEPTIC TANKS, WELLS, AND TRAFFIC DETECTION DEVICES.
 - GREYED BACK IMPROVEMENTS WITHIN LOTS 2-4 WITHOUT LABELS ARE FUTURE BY OTHERS.

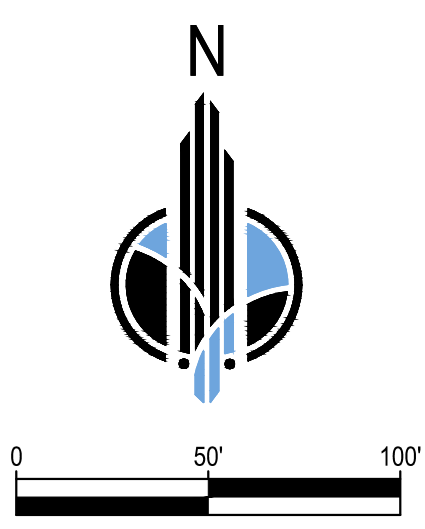
EXISTING SUBSURFACE UTILITY DATA								
TEST HOLE ID	UTILITY OWNER	UTILITY TYPE	SIZE (INCH)	UTILITY MATERIAL	NORTHING	EASTING	DEPTH (GROUND TO TOP) (FT)	UTILITY ELEVATION
101	PWSD	STORM SEWER	36"	RCP	1615367.23	3186092.48	6.5	
102	COLT	WATER	12"	PVC	1615371.02	3186103.33	4	
103	COLT	SAN SEWER	-	-	1615343.30	3186089.05	-	
104	COLT	WATER	12"	PVC	1615346.11	3186111.85	3.7	
105	COLT	SAN SEWER	-	-	1615862.02	3187120.35	-	
106	COLT	WATER	12"	PVC	1615885.34	3187147.03	6.3	
107	XCEL	ELECTRIC	1"	DIRECT BURY	1615727.66	3187126.05	9.6	
108	XCEL	ELECTRIC	1"	DIRECT BURY	1615548.10	3187181.99	4.3	
109	XCEL	ELECTRIC	1"	DIRECT BURY	1615263.47	3187230.34	4.3	
110	COLT	WATER	12"	PVC	1615326.64	3187621.59	4.9	
111	COLT	ELECTRIC	1.5"	PVC	1616044.97	3187504.20	4	
112	COLT	ELECTRIC	1.5"	PVC	1615982.72	3188061.59	3.5	

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CHECKED BY:	CB			
APPROVED BY:	CB			

RIDGEGATE EAST FILING NO. 3
 STREET AND STORM SEWER
 PLANS
 OVERALL UTILITY 1

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City of Lone Tree

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Engineering Division Acceptance Block

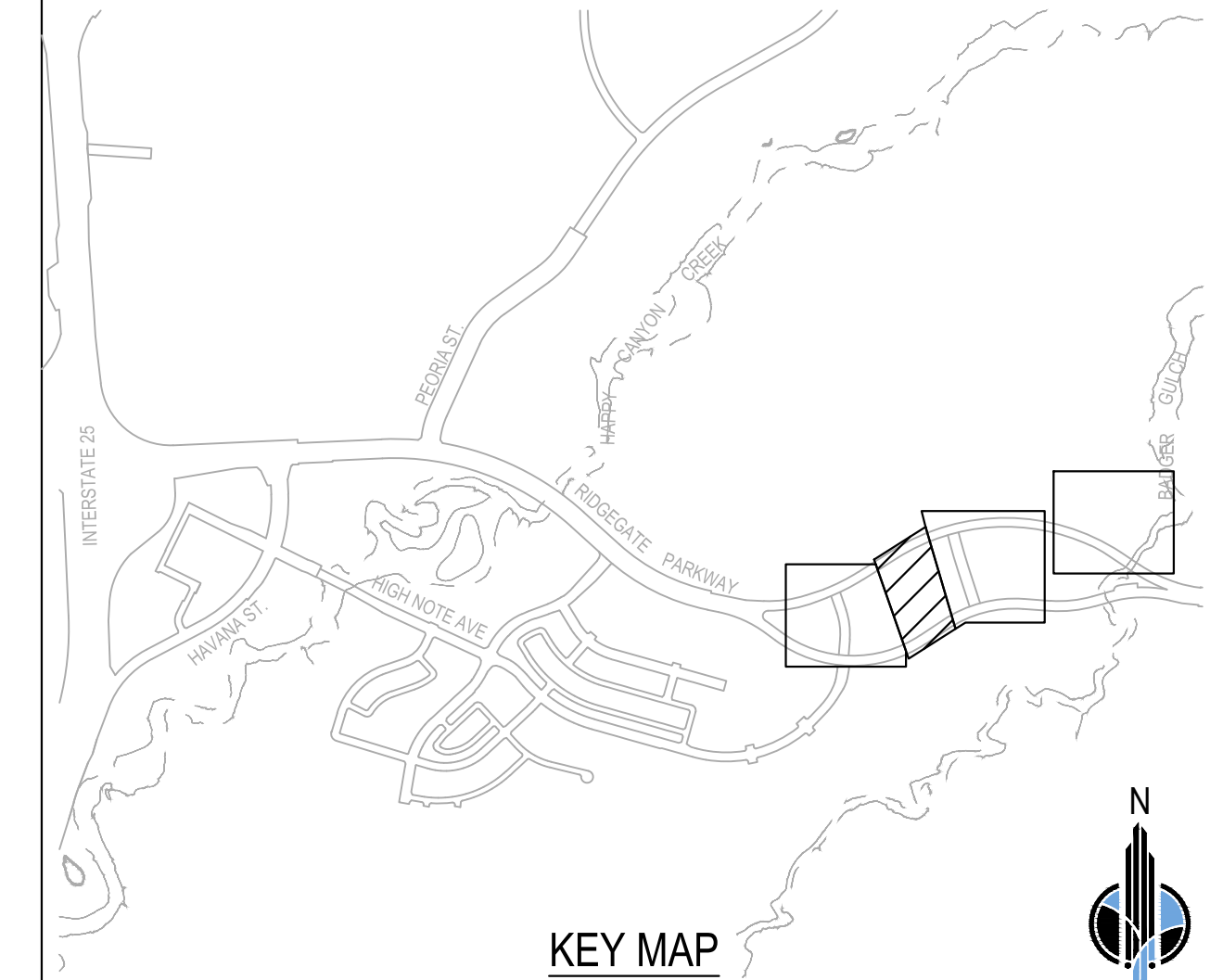
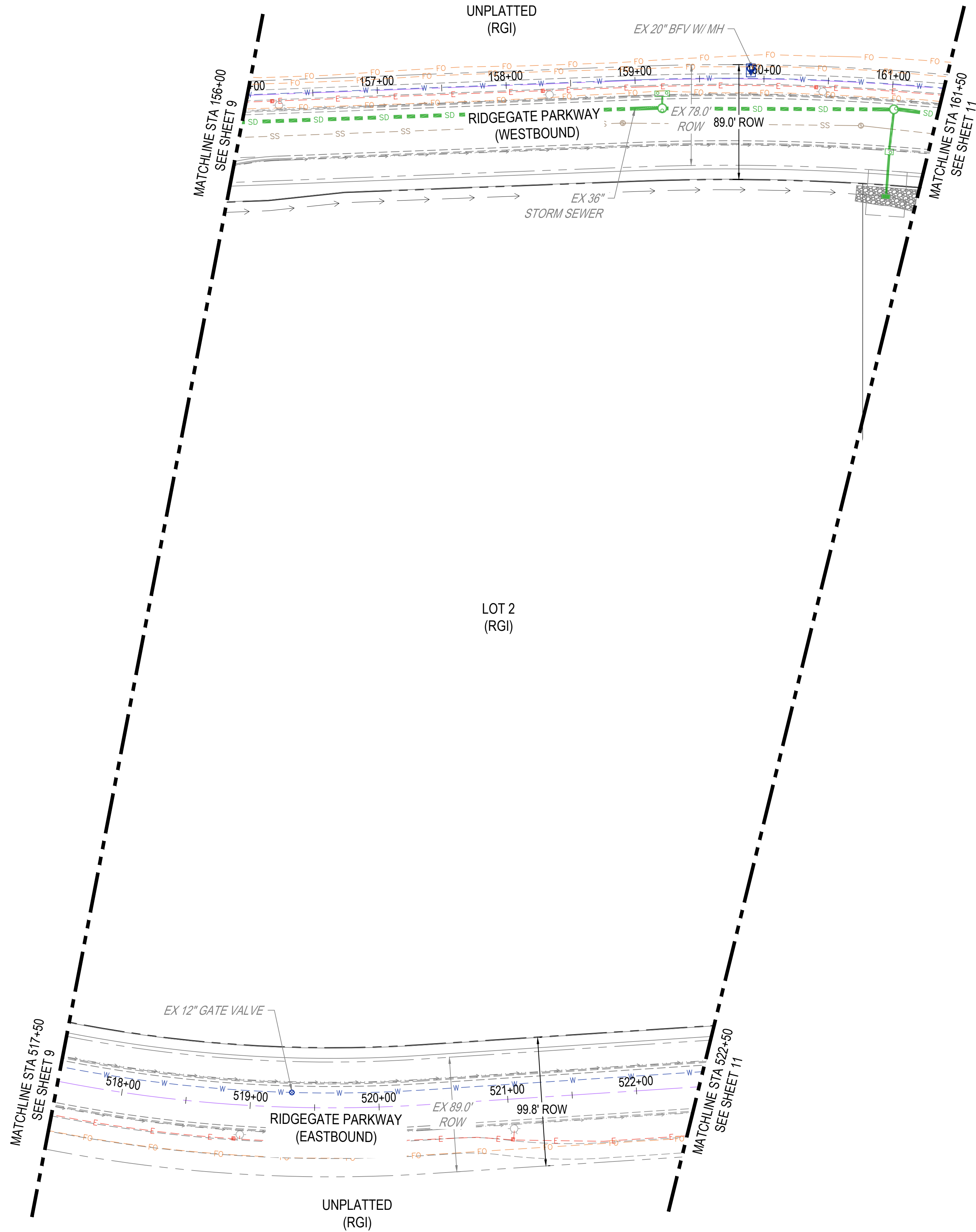
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 DATE: 7/13/2023
 SHEET: 9 OF 78

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109	XCEL	ELECTRIC	1"	DIRECT BURY	1615263.47	3187230.34	4.3	
110	COLT	WATER	12"	PVC	1615326.64	3187621.59	4.9	
111	COLT	ELECTRIC	1.5"	PVC	1616044.97	3187504.20	4	
112	COLT	ELECTRIC	1.5"	PVC	1615982.72	3188061.59	3.5	

DESIGN BY:	CD
DRAWN BY:	NB
CHECKED BY:	CB
APPROVED BY:	CB

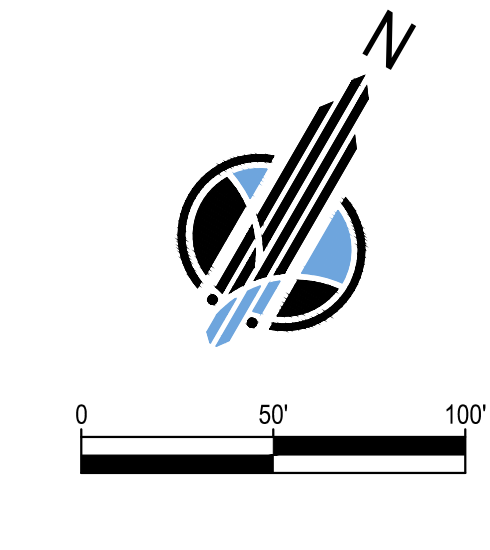
RIDGEGATE EAST FILING NO. 3	REV	DATE	DESCRIPTION
STREET AND STORM SEWER PLANS			
OVERALL UTILITY 2			

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RIDGEGATE EAST FILING NO. 3	REV	DATE	DESCRIPTION
STREET AND STORM SEWER PLANS			
OVERALL UTILITY 2			

ISSUED FOR REVIEW

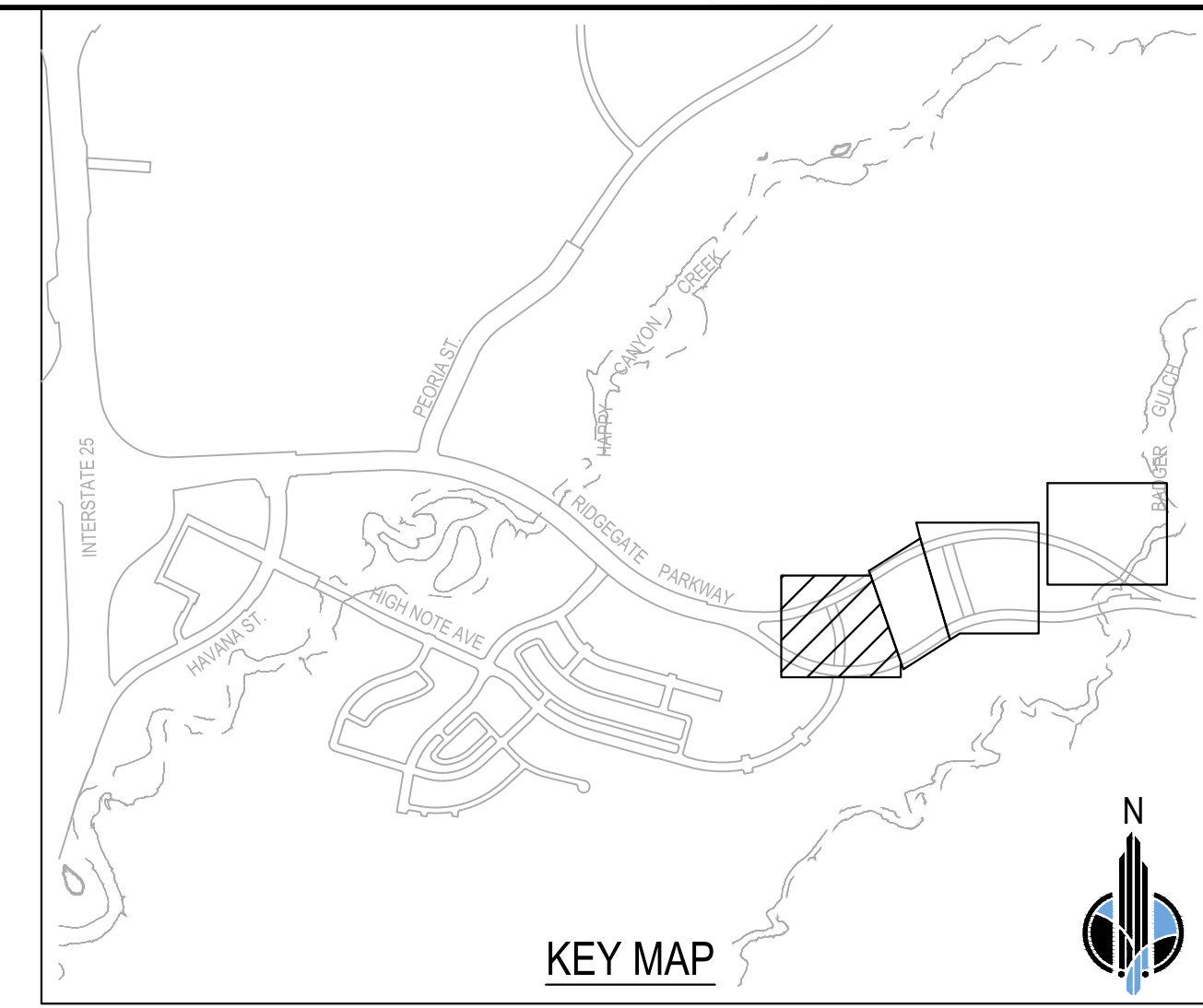
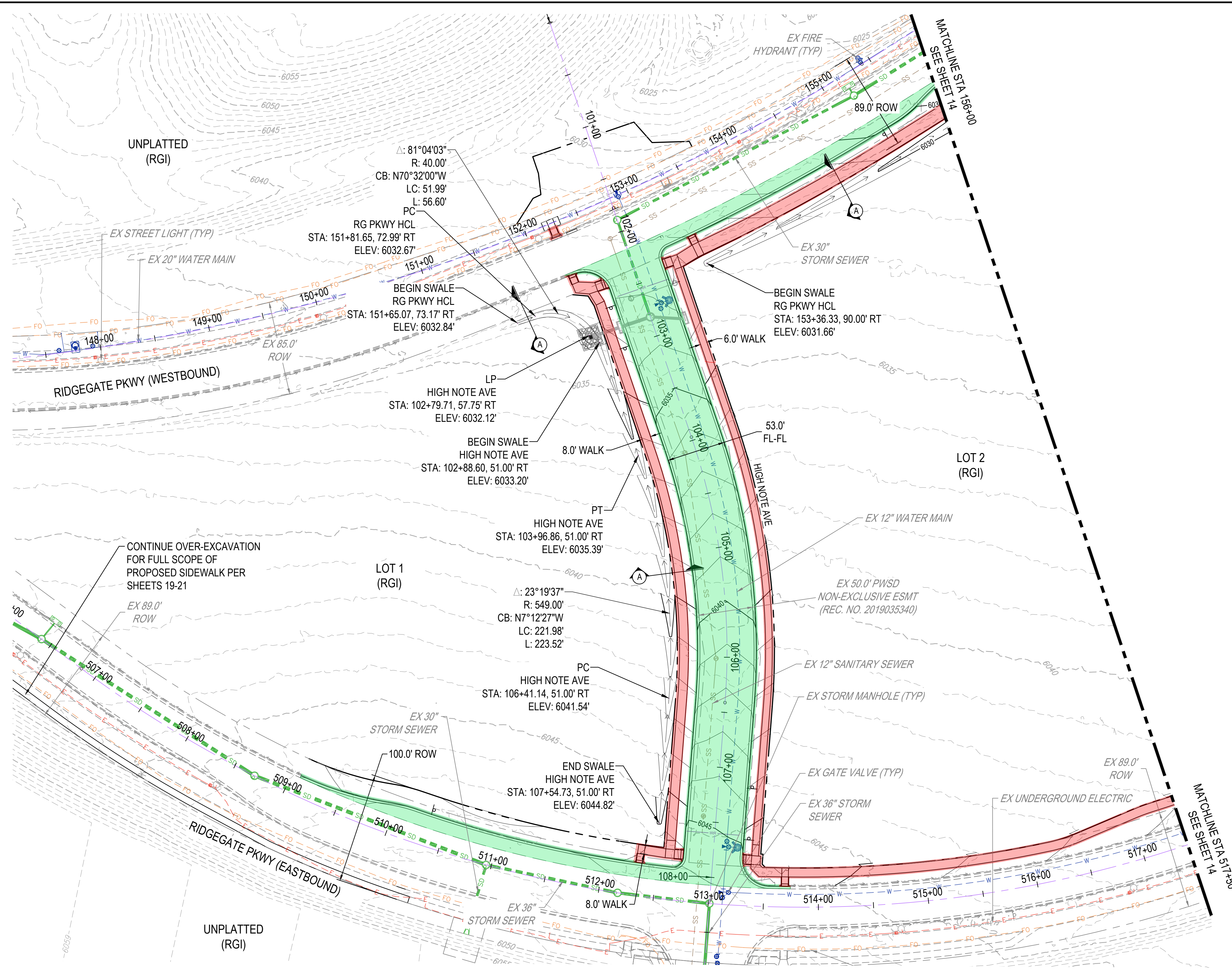
JOB NO.: 65121240

DATE: 7/13/2023

SHEET: 10 OF 78

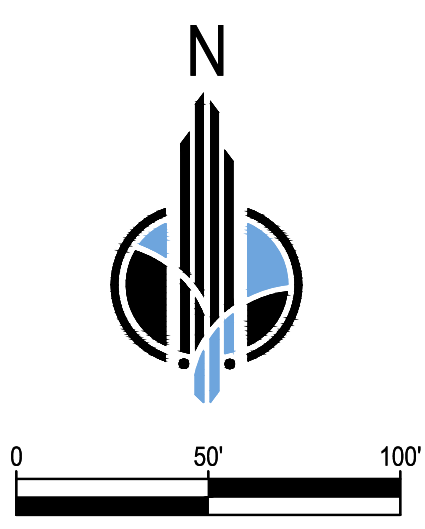
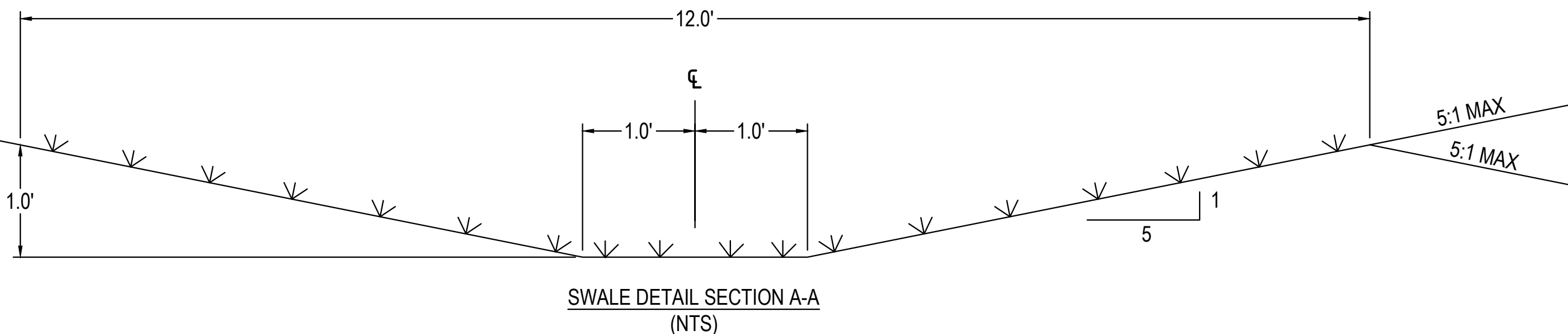
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GRADING NOTES:
1. SPOT ELEVATIONS ARE TO FINISHED GRADE.

SUBGRADE PREPARATION LEGEND	
	AGGREGATE BASE COURSE LIMIT
	OVER-EXCAVATION LIMITS



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RIDGEGATE EAST FILING NO. 3
STREET AND STORM SEWER
PLANS
GRADING PLAN 1

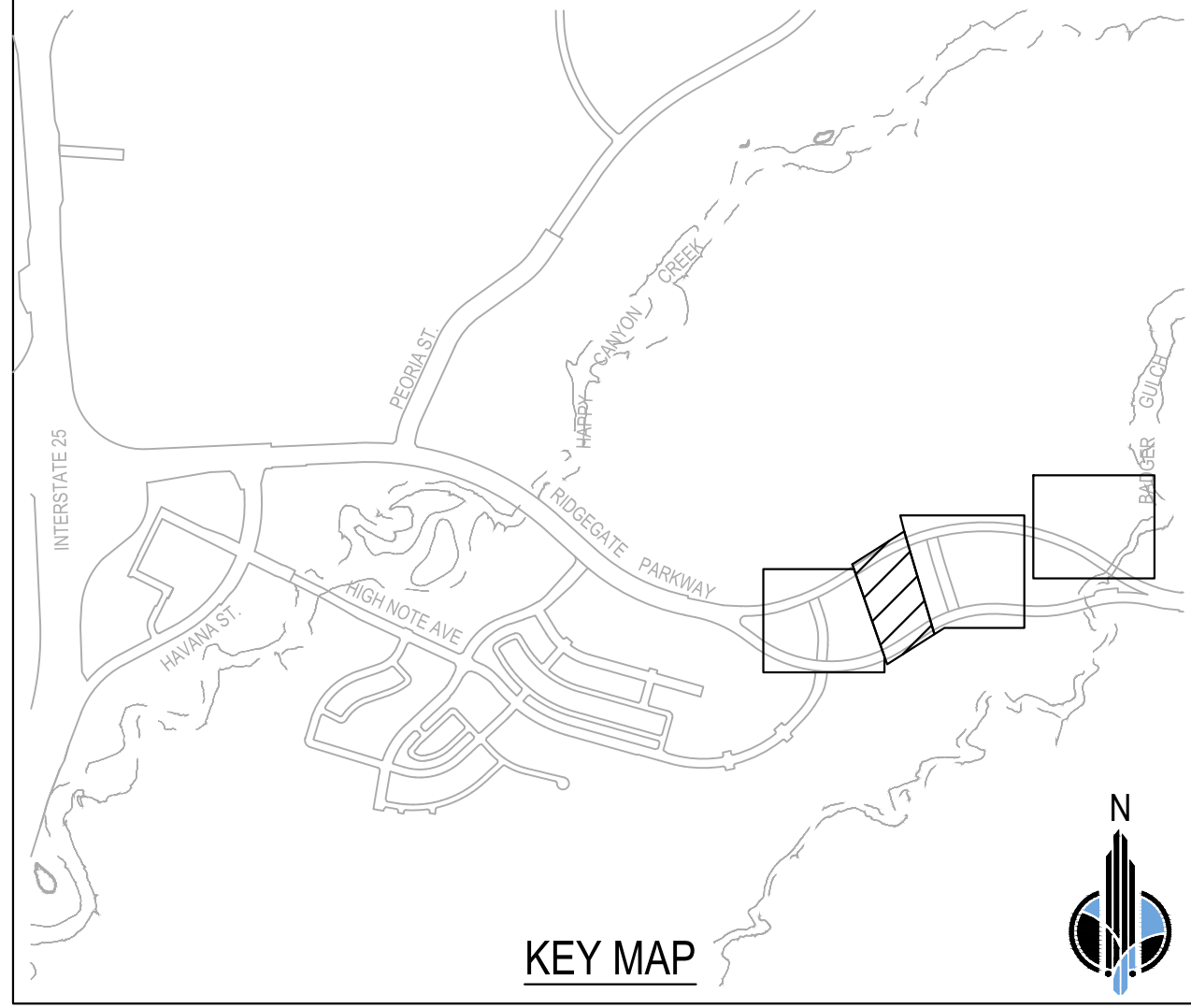
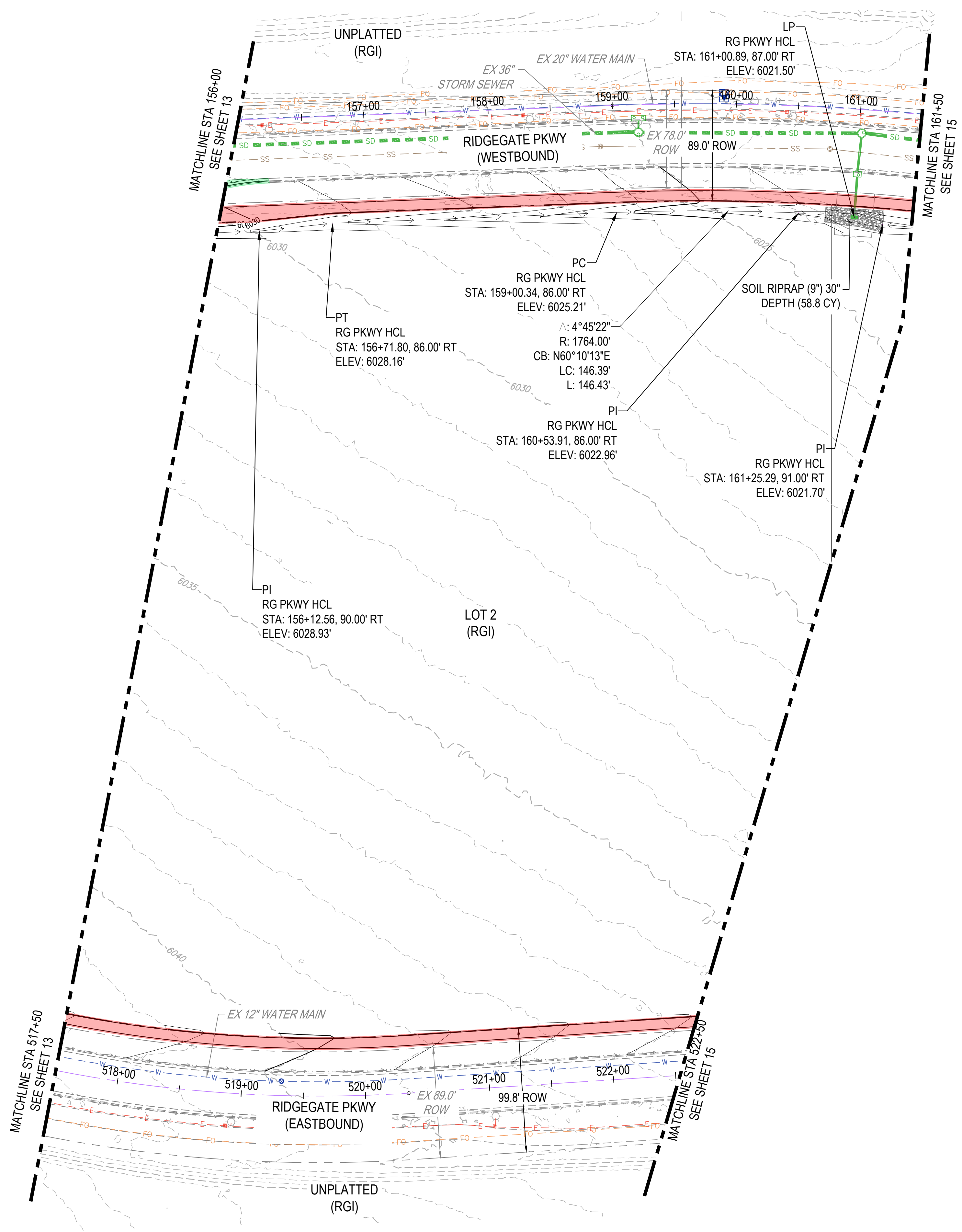
JOB NO.: 65121240
DATE: 7/13/2023
SHEET: 13 OF 78

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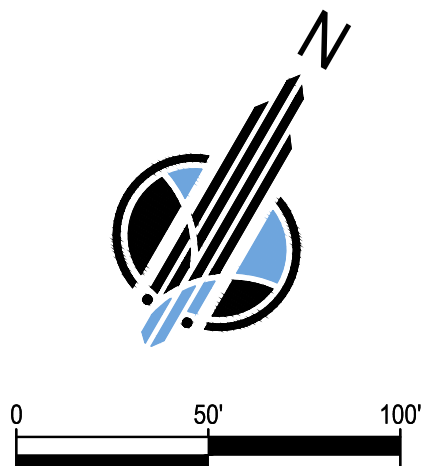
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SUBGRADE PREPARATION LEGEND

	AGGREGATE BASE COURSE LIMIT
	OVER-EXCAVATION LIMITS



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**RIDGEGATE EAST FILING NO. 3
 STREET AND STORM SEWER
 PLANS**

GRADING PLAN 2

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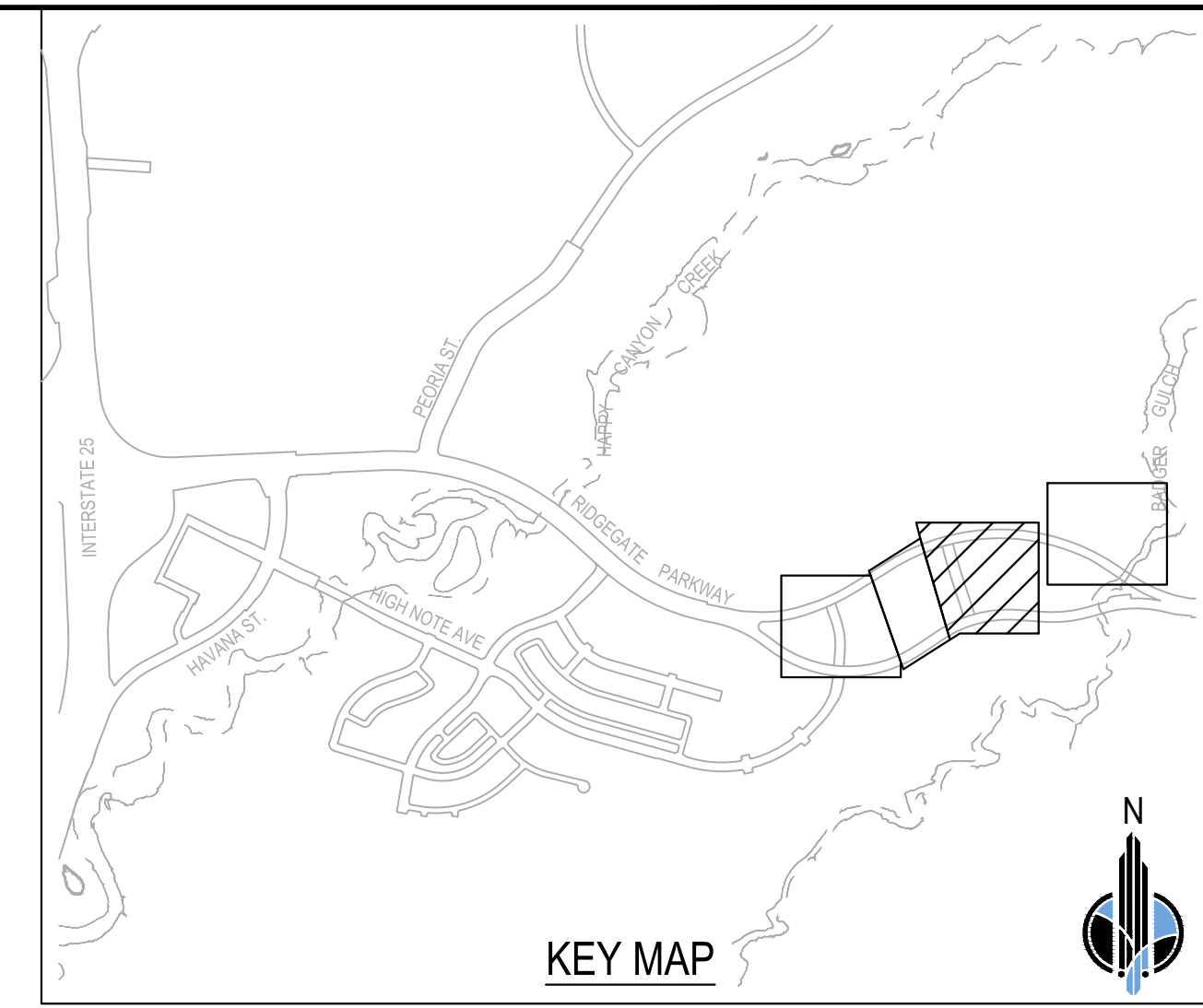
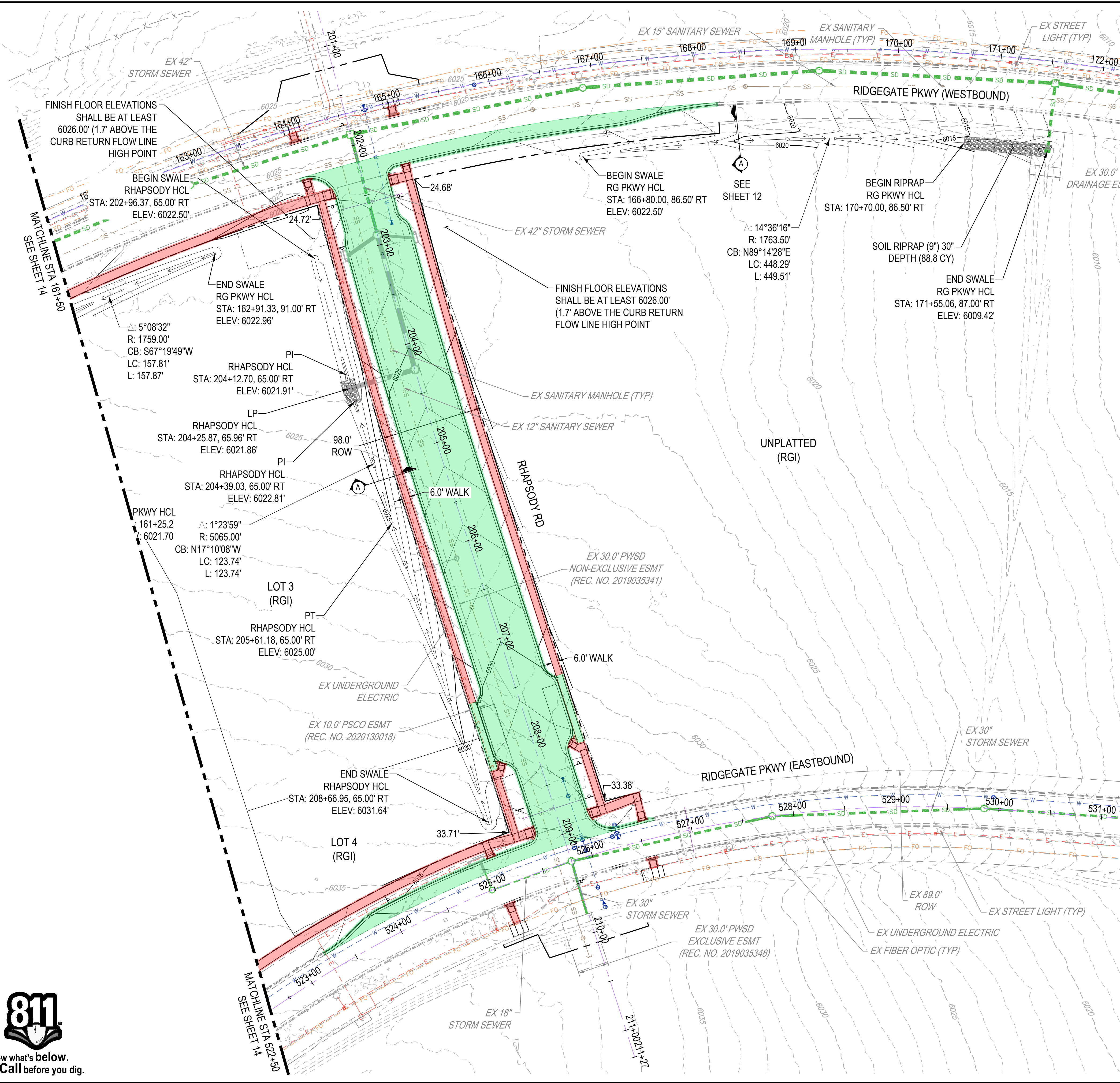
JOB NO.: 65121240
 DATE: 7/13/2023
 SHEET: 14 OF 78

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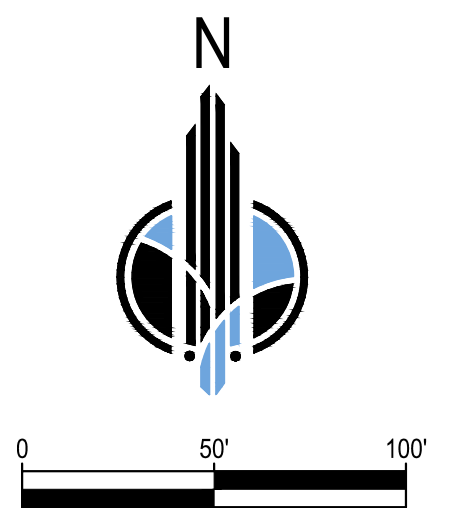
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SUBGRADE PREPARATION LEGEND

	AGGREGATE BASE COURSE LIMIT
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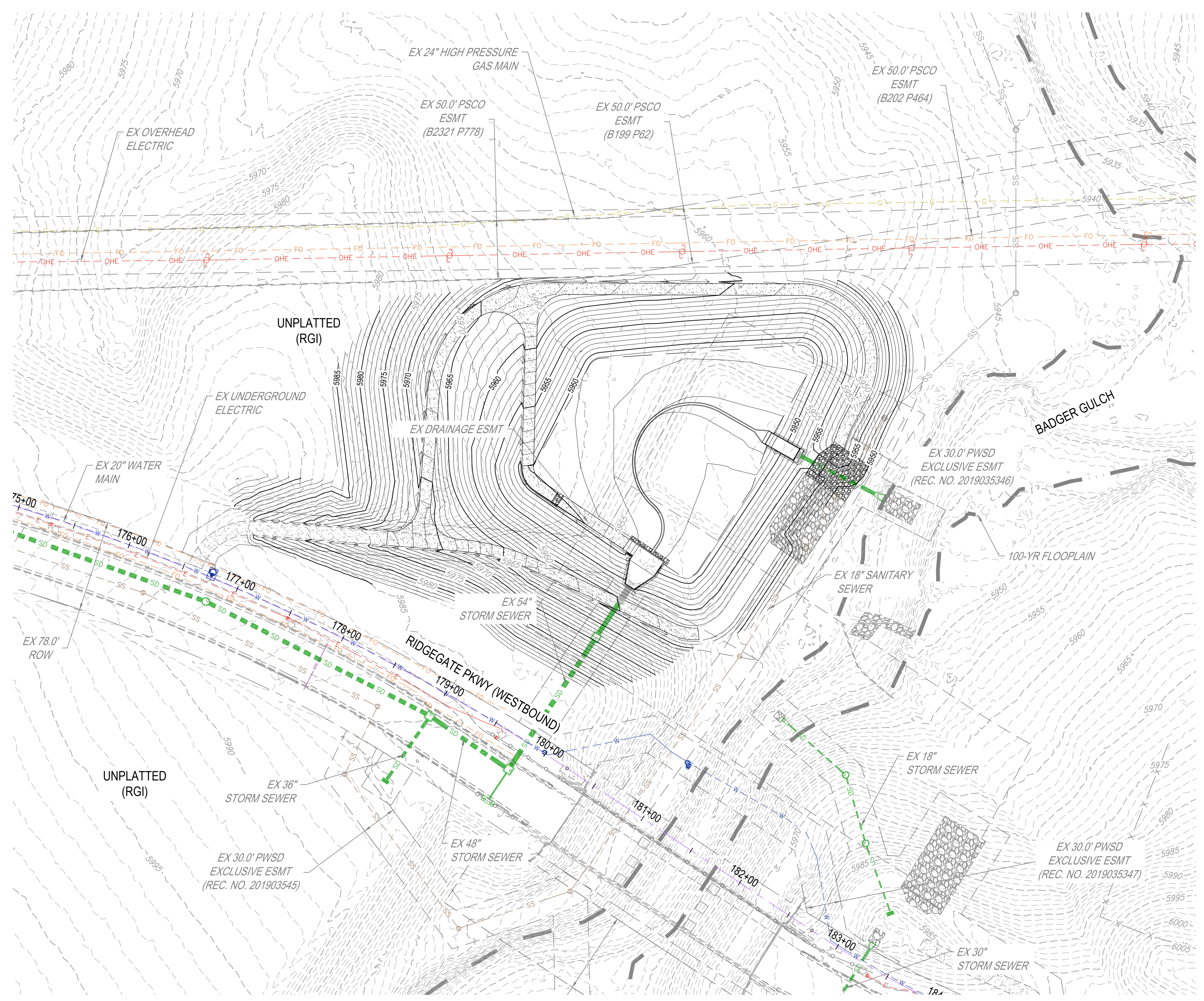
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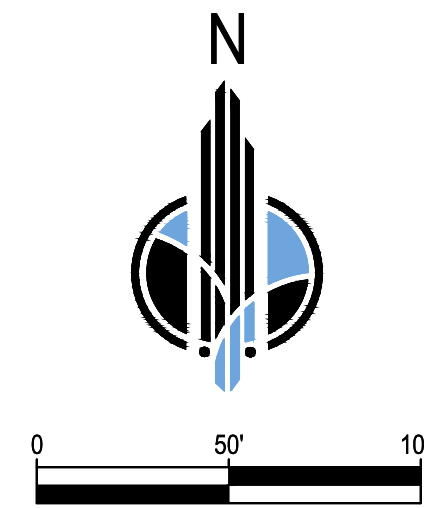
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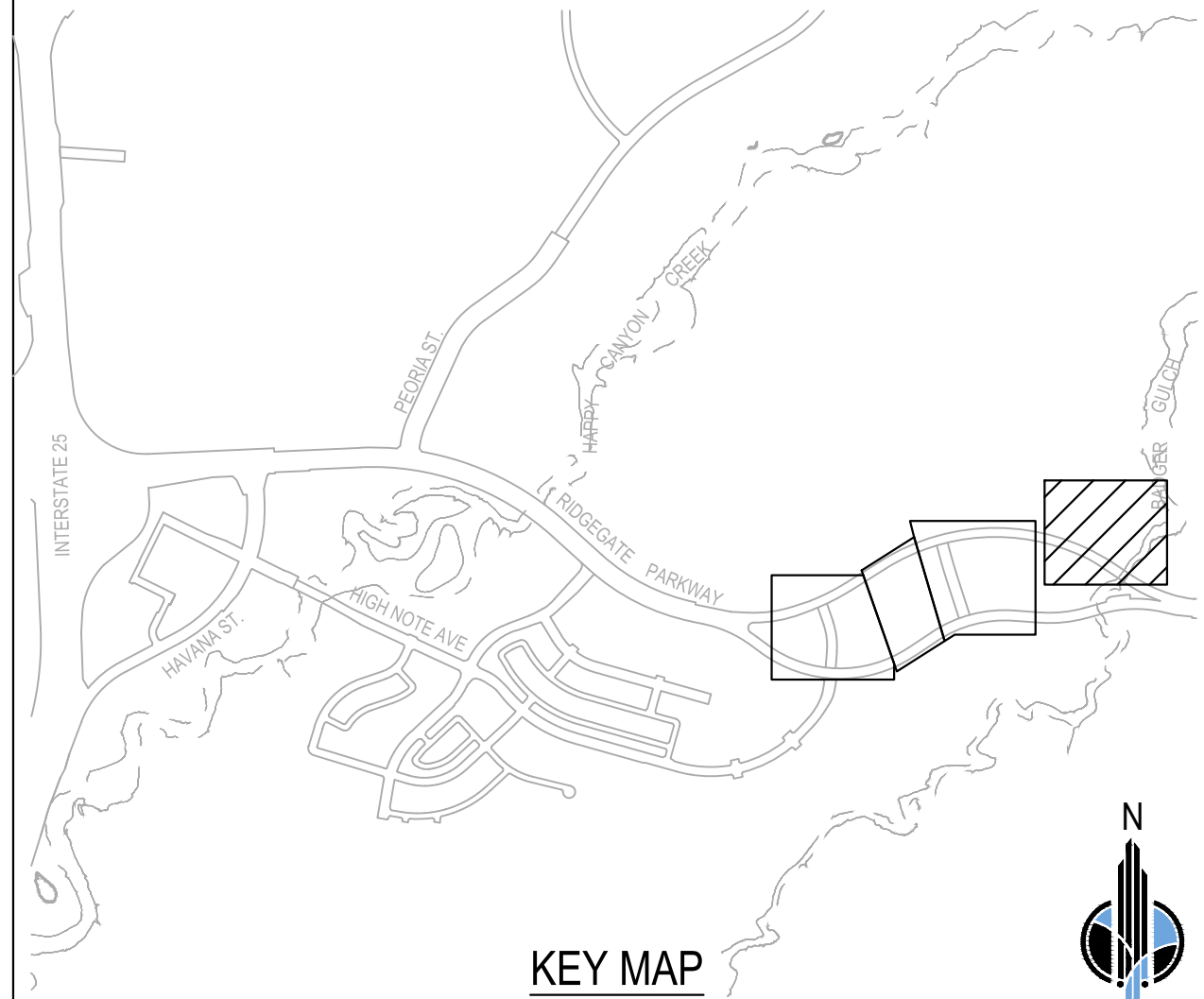
SUBGRADE PREPARATION LEGEND	
	AGGREGATE BASE COURSE LIMIT
	OVER-EXCAVATION LIMITS



City of Lone Tree

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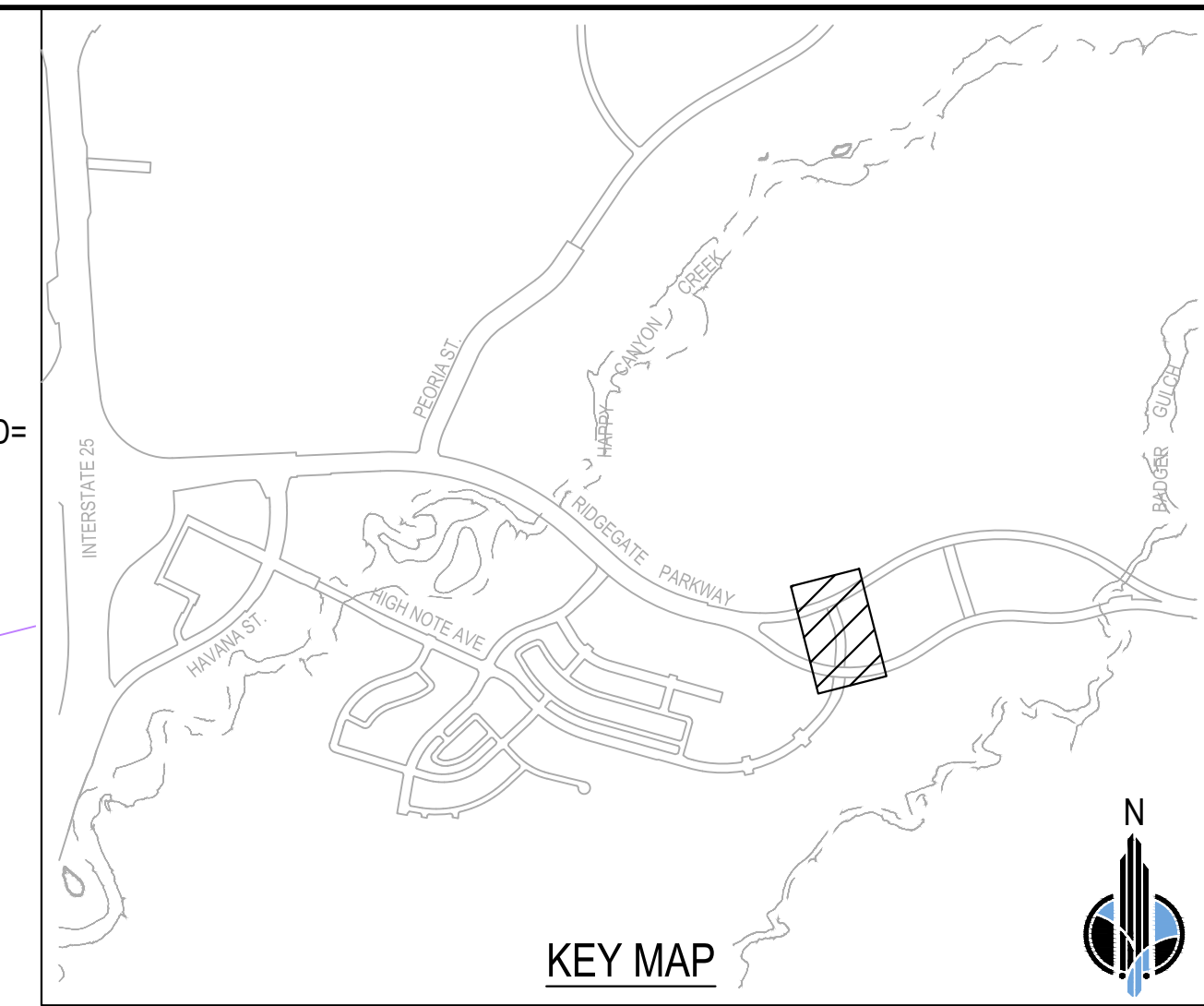
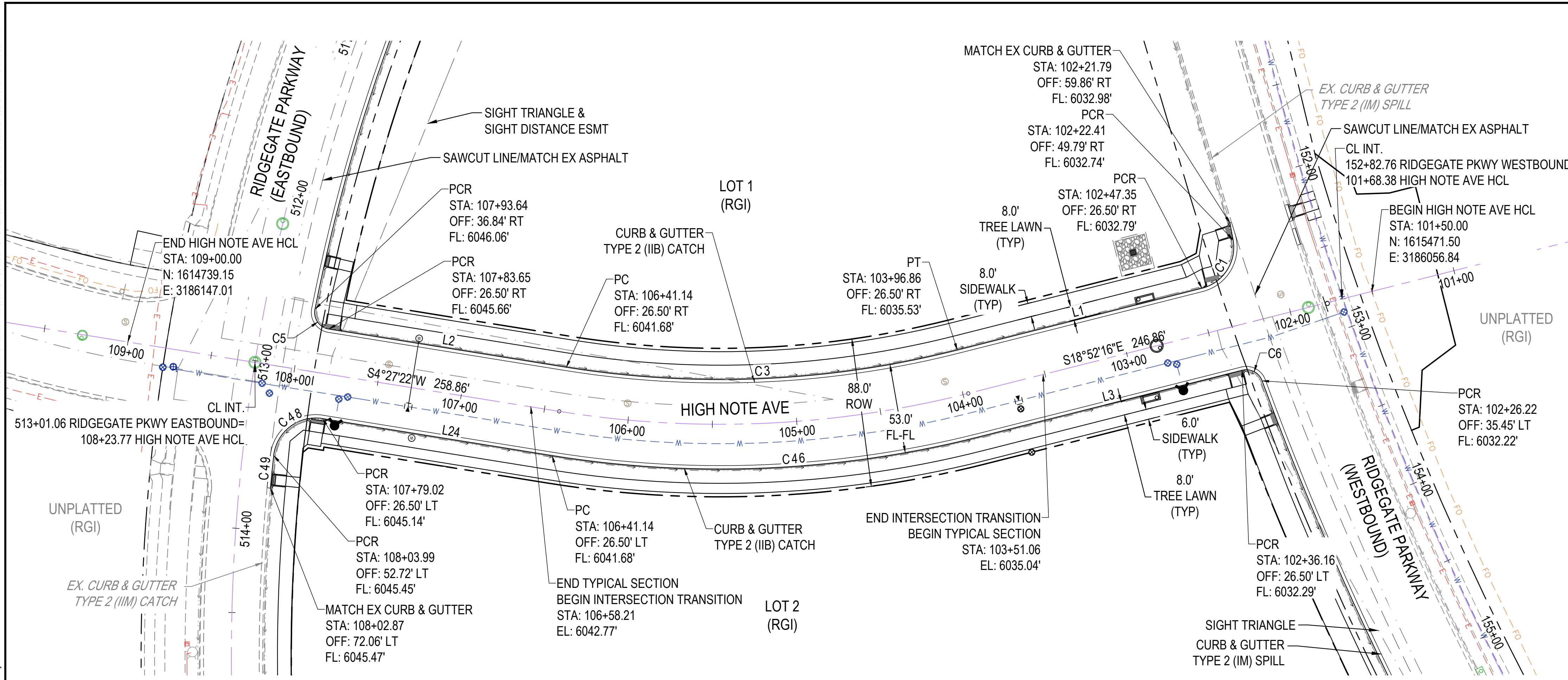
RIDGEGATE EAST FILING NO. 3
STREET AND STORM SEWER
PLANS

GRADING PLAN 4

JOB NO.:	65121240
DATE:	7/13/2023
SHEET:	16 OF 78

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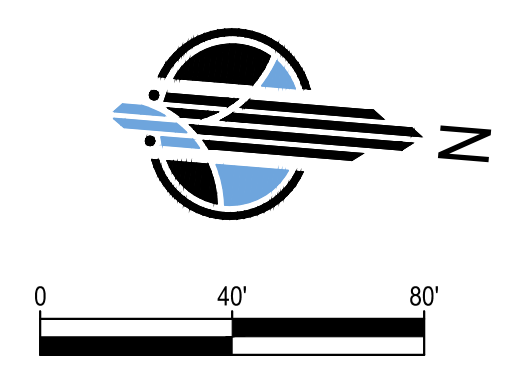


ROADWAY NOTES:

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- ALL LINE AND CURVE TABLE DATA REFERENCES FLOWLINE AT CURB AND GUTTER AND EDGE OF ASPHALT WHERE CURB AND GUTTER IS NOT PROPOSED.

CURVE #	LENGTH	DELTA	RADIUS	CRD LENGTH	CRD RADIUS
C1	37.56'	86° 05' 15"	25.00'	34.13	S61° 54' 53"E
C3	233.49'	23° 19' 37"	573.50'	231.88	S7° 12' 27"E
C5	16.05'	91° 58' 21"	10.00'	14.38	S50° 26' 32"W
C6	14.66'	83° 58' 59"	10.00'	13.38	S23° 07' 14"W
C46	255.07'	23° 19' 37"	626.50'	253.31	S7° 12' 27"E
C48	40.49'	92° 47' 39"	25.00'	36.21	S41° 56' 28"E
C49	19.37'	1° 01' 35"	1081.50'	19.37	S88° 51' 04"E

LINE #	BEARING	LENGTH
L1	S18° 52' 16"E	149.51'
L2	S4° 27' 22"W	142.50'
L3	S18° 52' 16"E	160.70'
L24	S4° 27' 22"W	137.88'



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RIDGEGATE EAST FILING NO. 3
 STREET AND STORM SEWER
 PLANS

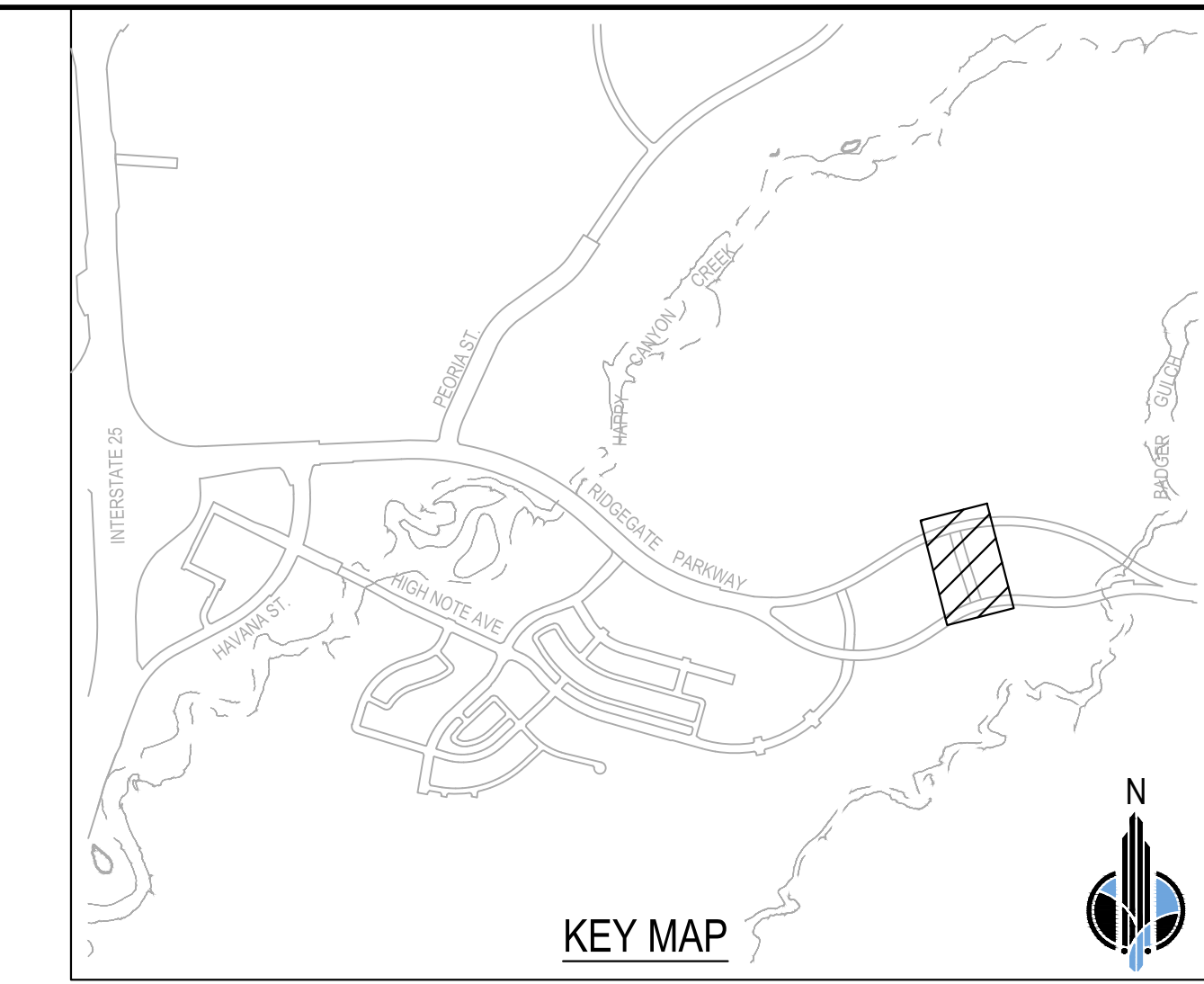
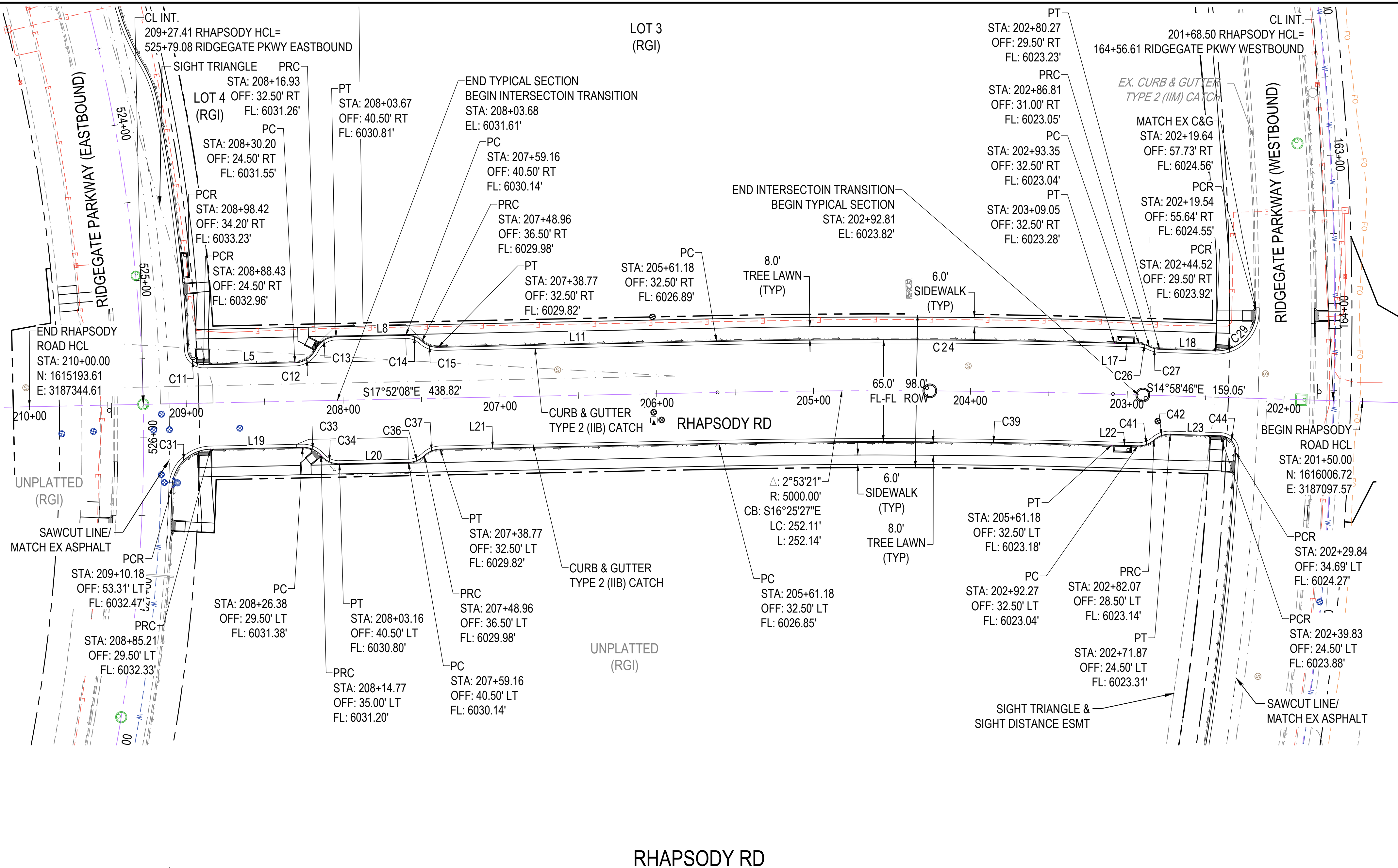
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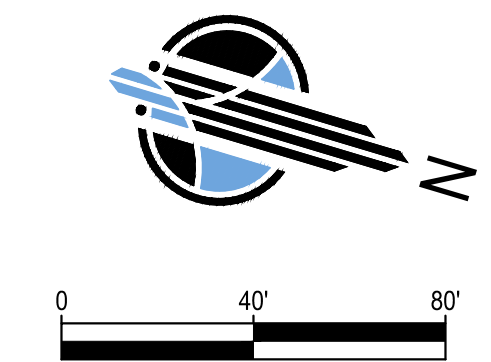
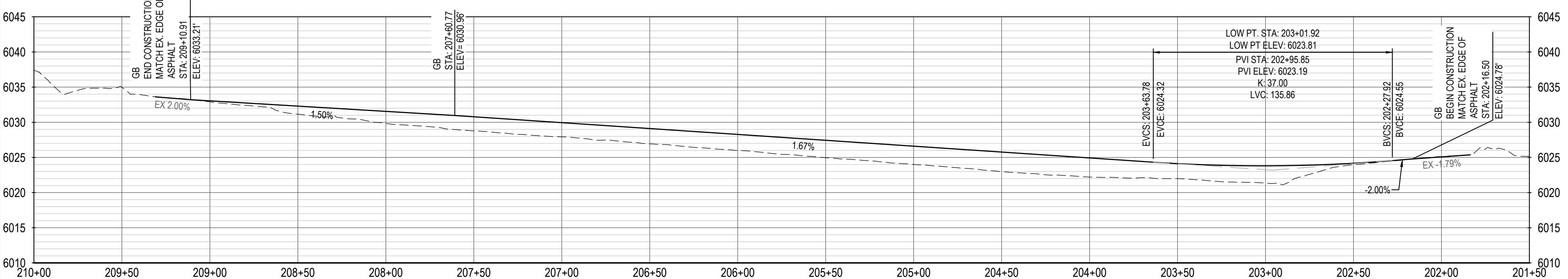
JOB NO.: 65121240
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CURVE TABLE						LINE TABLE		
CURVE #	LENGTH	DELTA	RADIUS	CRD LENGTH	CRD RADIUS	LINE #	BEARING	LENGTH
C11	15.41'	88° 15' 56"	10.00'	13.93	N26° 15' 48"E	L5	N17° 52' 08"W	58.23'
C12	16.28'	62° 10' 55"	15.00'	15.49	N48° 57' 35"W	L8	N17° 52' 08"W	44.50'
C13	16.28'	62° 10' 55"	15.00'	15.49	N48° 57' 35"W	L11	N17° 52' 08"W	177.58'
C14	11.21'	42° 50' 00"	15.00'	10.95	N3° 32' 53"E	L17	N14° 58' 46"W	15.70'
C15	11.21'	42° 50' 00"	15.00'	10.95	N3° 32' 53"E	L18	N14° 58' 46"W	35.76'
C24	253.78'	2° 56' 45"	4936.03'	253.75	N16° 25' 27"W	L19	N17° 52' 08"W	58.83'
C26	6.77'	25° 50' 58"	15.00'	6.71	N2° 03' 36"W	L20	N17° 52' 08"W	44.00'
C27	6.77'	25° 50' 34"	15.00'	6.71	N2° 03' 29"W	L21	N17° 52' 08"W	177.58'
C29	40.41'	92° 37' 19"	25.00'	36.15	N61° 17' 28"W	L22	N14° 58' 46"W	16.78'
C31	38.08'	87° 16' 06"	25.00'	34.50	N61° 30' 10"W	L23	N14° 58' 46"W	32.04'
C33	13.27'	50° 42' 13"	15.00'	12.85	N7° 28' 59"E			
C34	13.27'	50° 42' 13"	15.00'	12.85	N7° 28' 59"E			
C36	11.21'	42° 50' 00"	15.00'	10.95	N39° 17' 08"W			
C37	11.21'	42° 49' 58"	15.00'	10.95	N39° 17' 09"W			
C39	250.50'	2° 53' 21"	4967.50'	250.47	N16° 25' 27"W			
C41	11.21'	42° 50' 00"	15.00'	10.95	N36° 23' 46"W			
C42	11.21'	42° 50' 00"	15.00'	10.95	N36° 23' 46"W			
C44	15.90'	91° 06' 38"	10.00'	14.28	S30° 34' 35"W			



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STREET AND STORM SEWER PLANS

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JOB NO.: 65121240

DATE: 7/13/2023

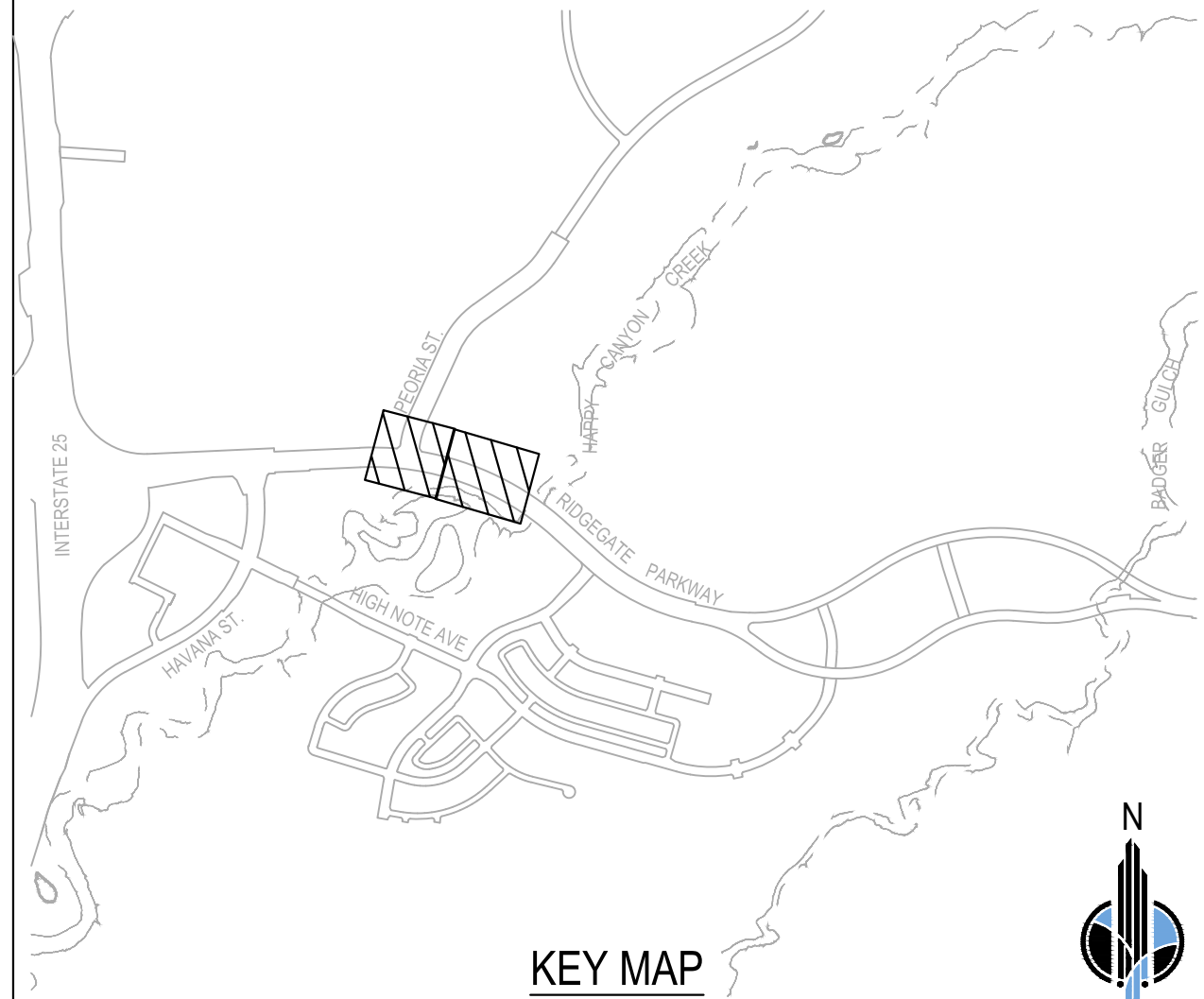
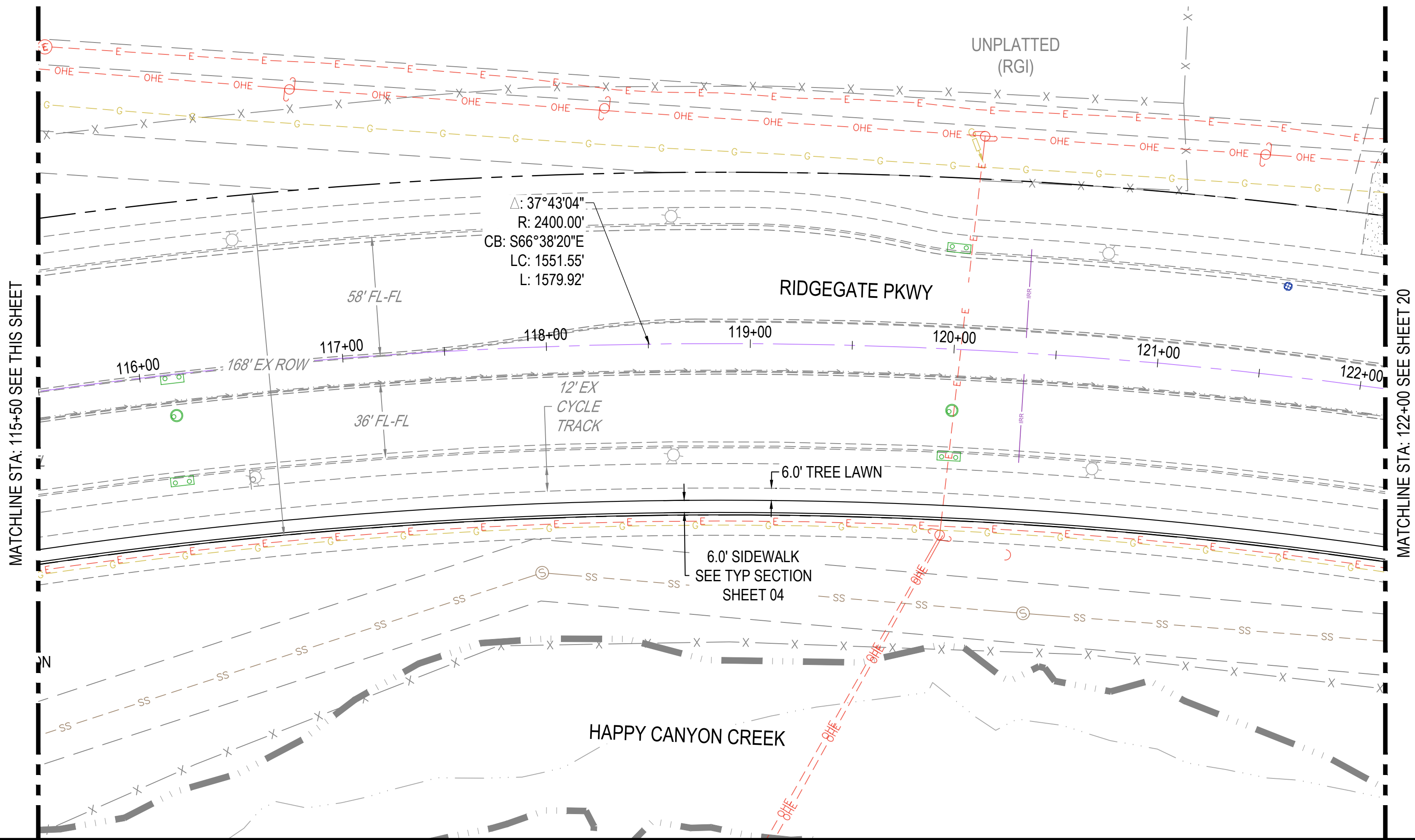
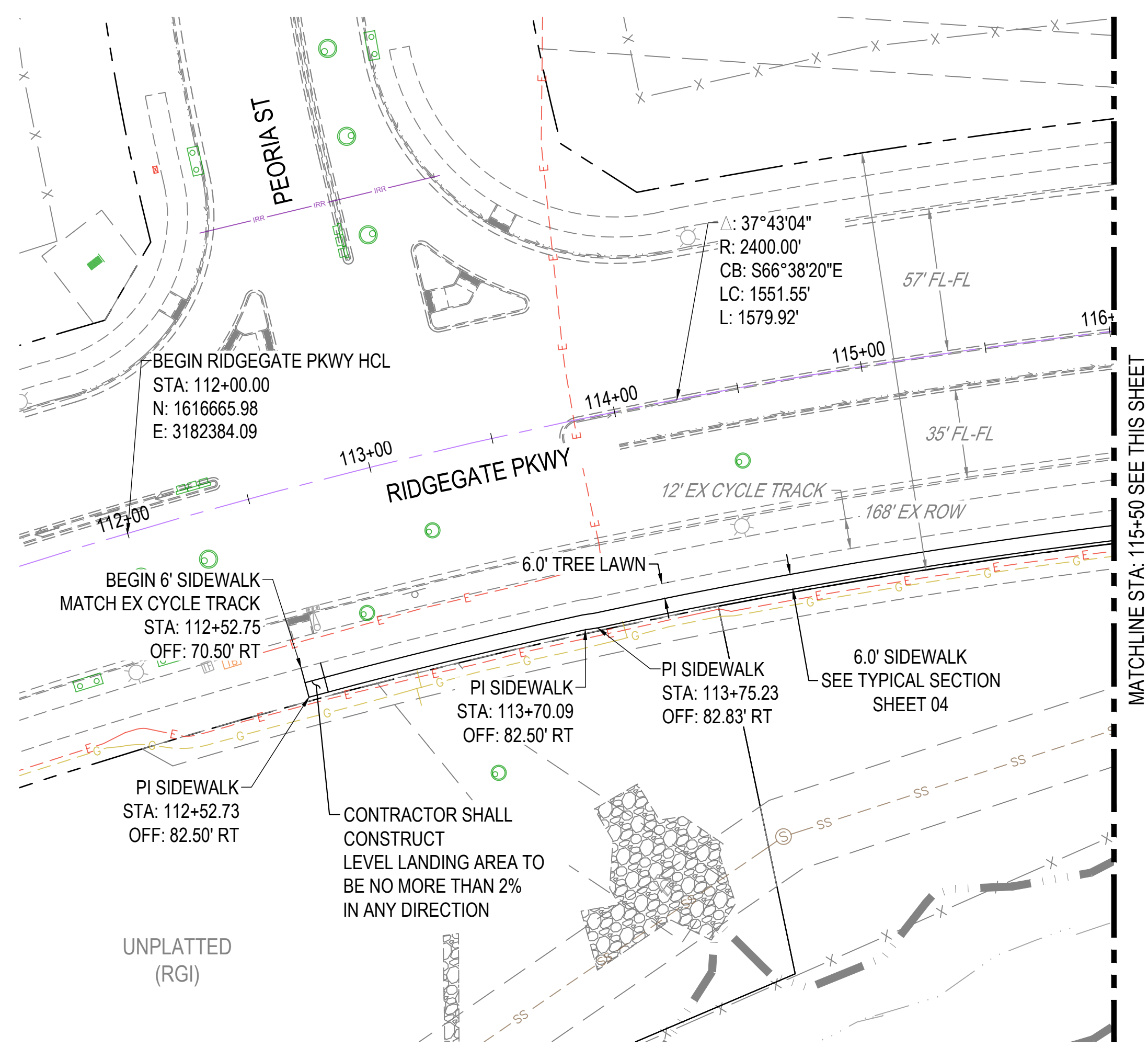
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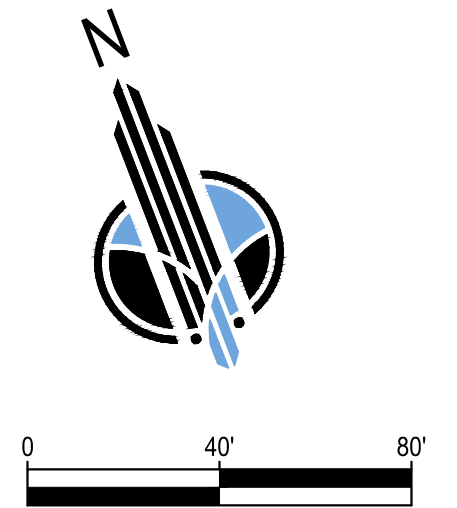
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City of Lone Tree

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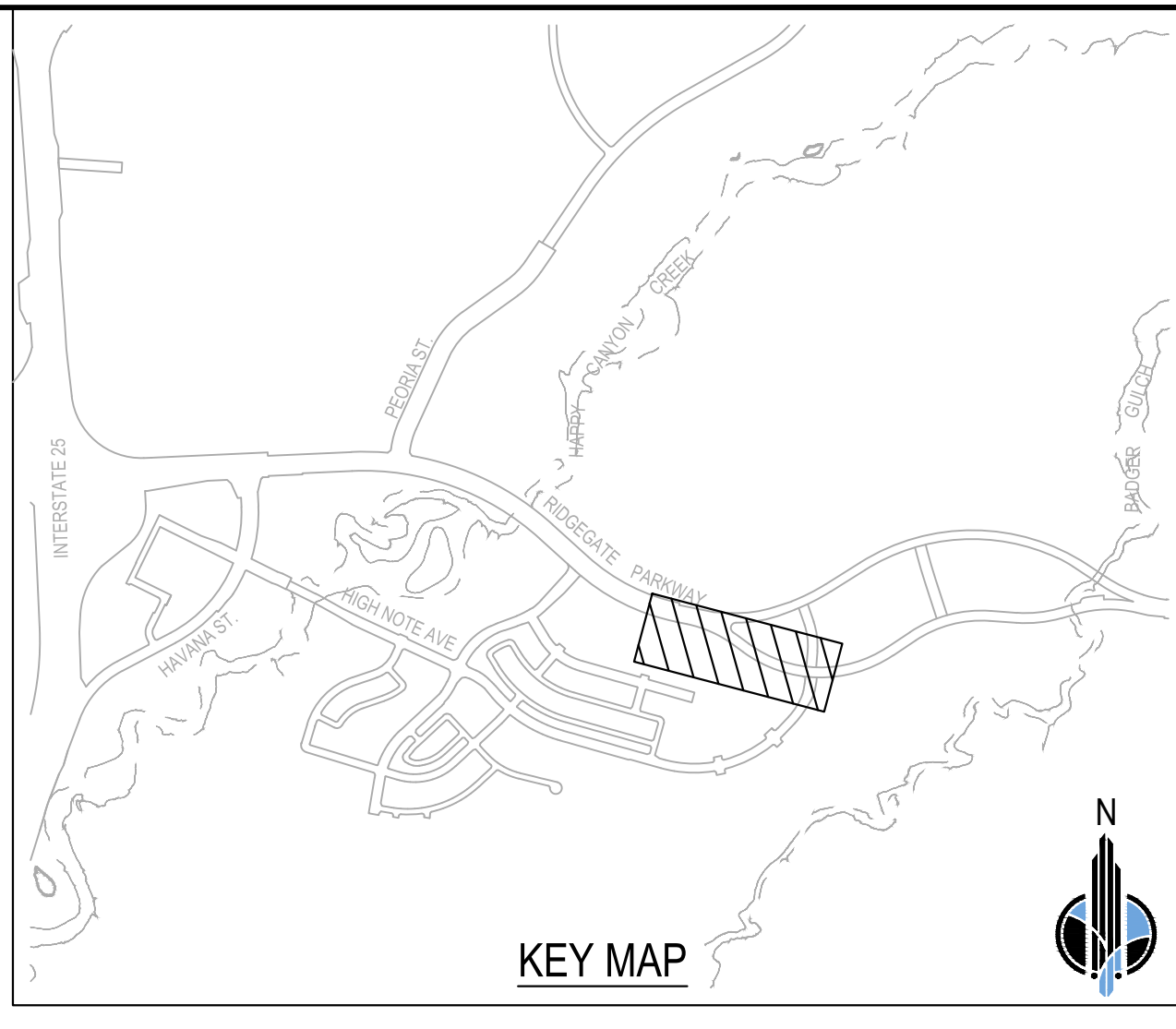
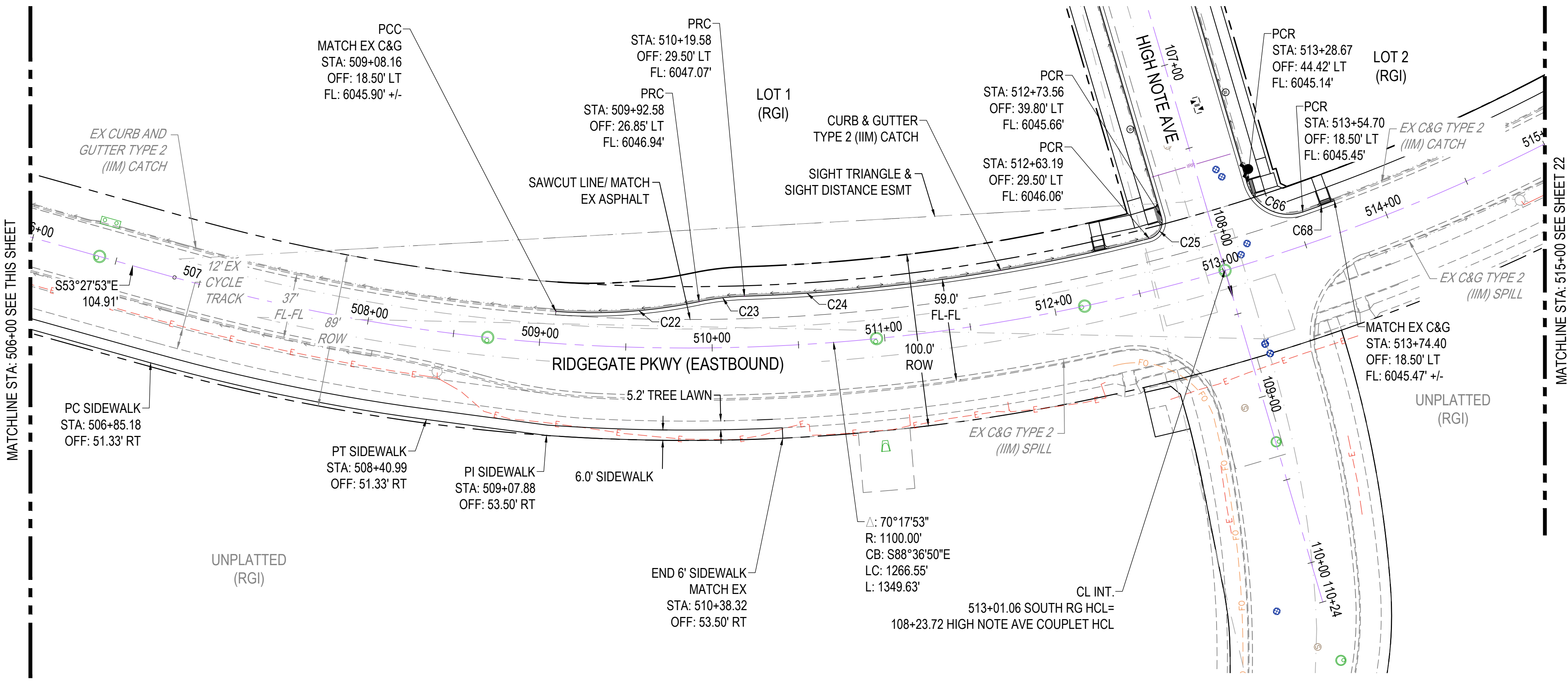
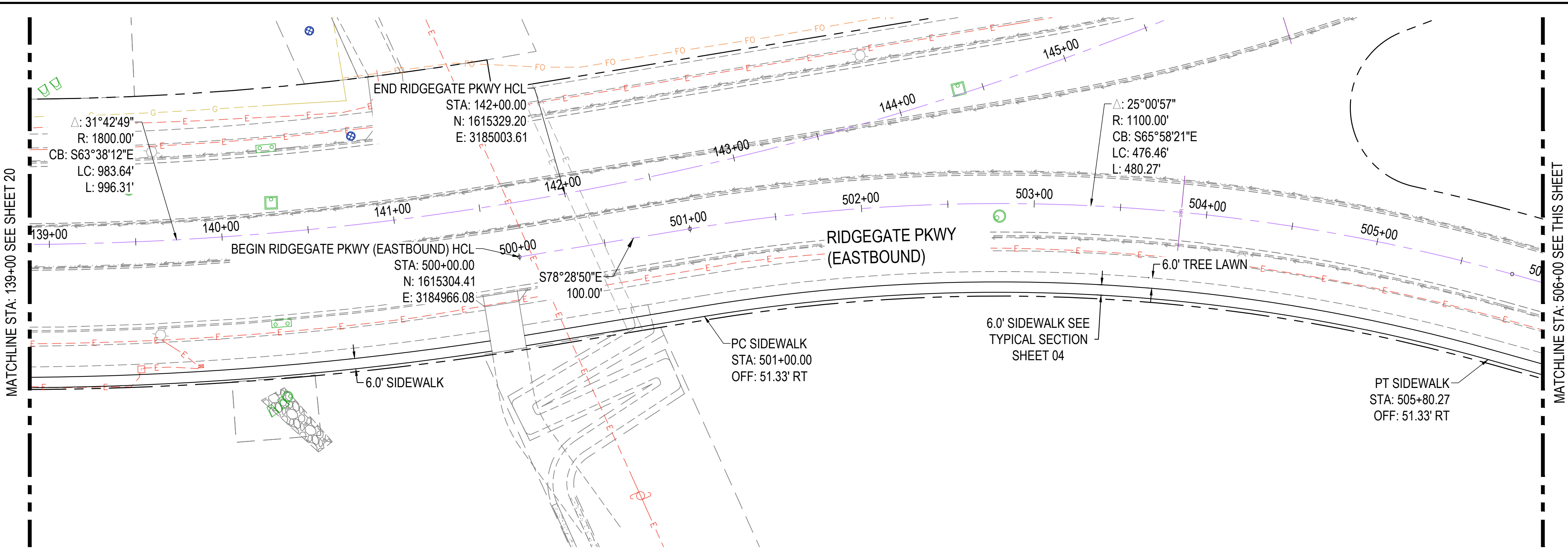
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JOB NO.:	65121240	DATE:	7/14/2023	SHEET:	19 OF 78
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RIDGEGATE EAST FILING NO. 3 STREET AND STORM SEWER PLANS					
RIDGEGATE PKWY STA 112+00 TO STA 122+00					
DESIGN BY:	CD	DATE:		REV	DESCRIPTION
DRAWN BY:	NB				
CHECKED BY:	CB				
APPROVED BY:	CB				
					DATE
					DRWN/CHKD/APPR



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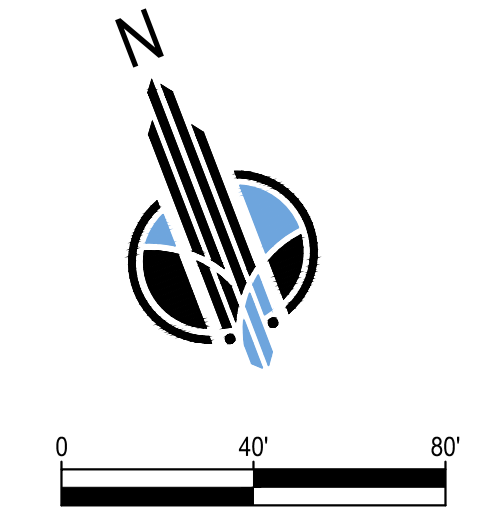
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CURVE TABLE					
CURVE #	LENGTH	DELTA	RADIUS	CRD LENGTH	CRD RADIUS
C22	83.35'	15° 55' 07"	300.00'	83.08	S73° 02' 18"E
C23	26.48'	10° 06' 53"	150.00'	26.45	N75° 56' 25"W
C24	237.07'	12° 41' 19"	1070.50'	236.59	S77° 13' 38"E
C25	16.04'	91° 54' 39"	10.00'	14.38	N50° 28' 23"E
C66	40.49'	92° 47' 39"	25.00'	36.21	S41° 56' 28"E
C68	19.37'	1° 01' 34"	1081.50'	19.37	S88° 51' 04"E



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RIDGEGATE EAST FILING NO. 3
STREET AND STORM SEWER PLANS
HIGH NOTE AVE-RIDGEGATE PKWY (EASTBOUND) TURN LANE PLAN

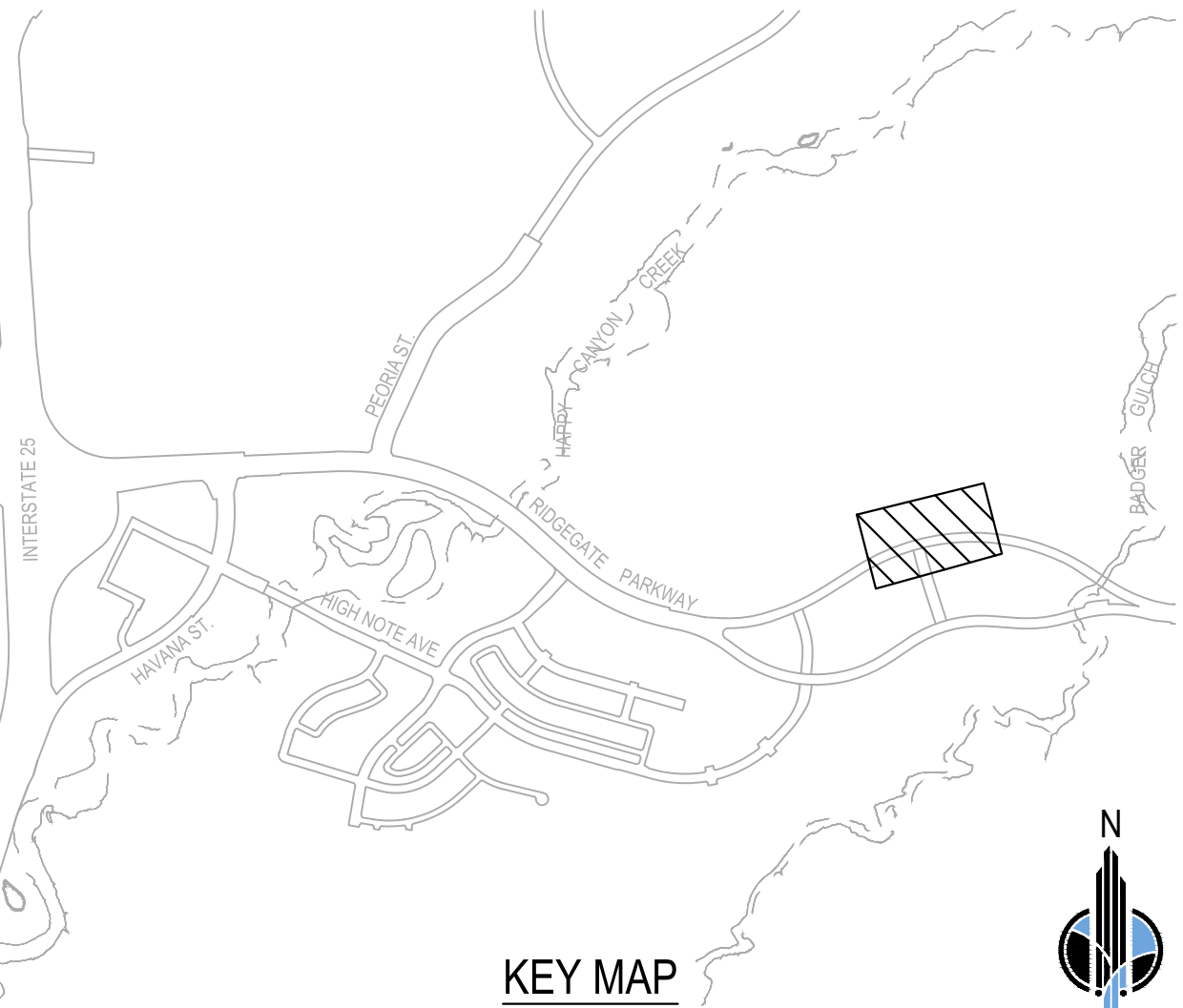
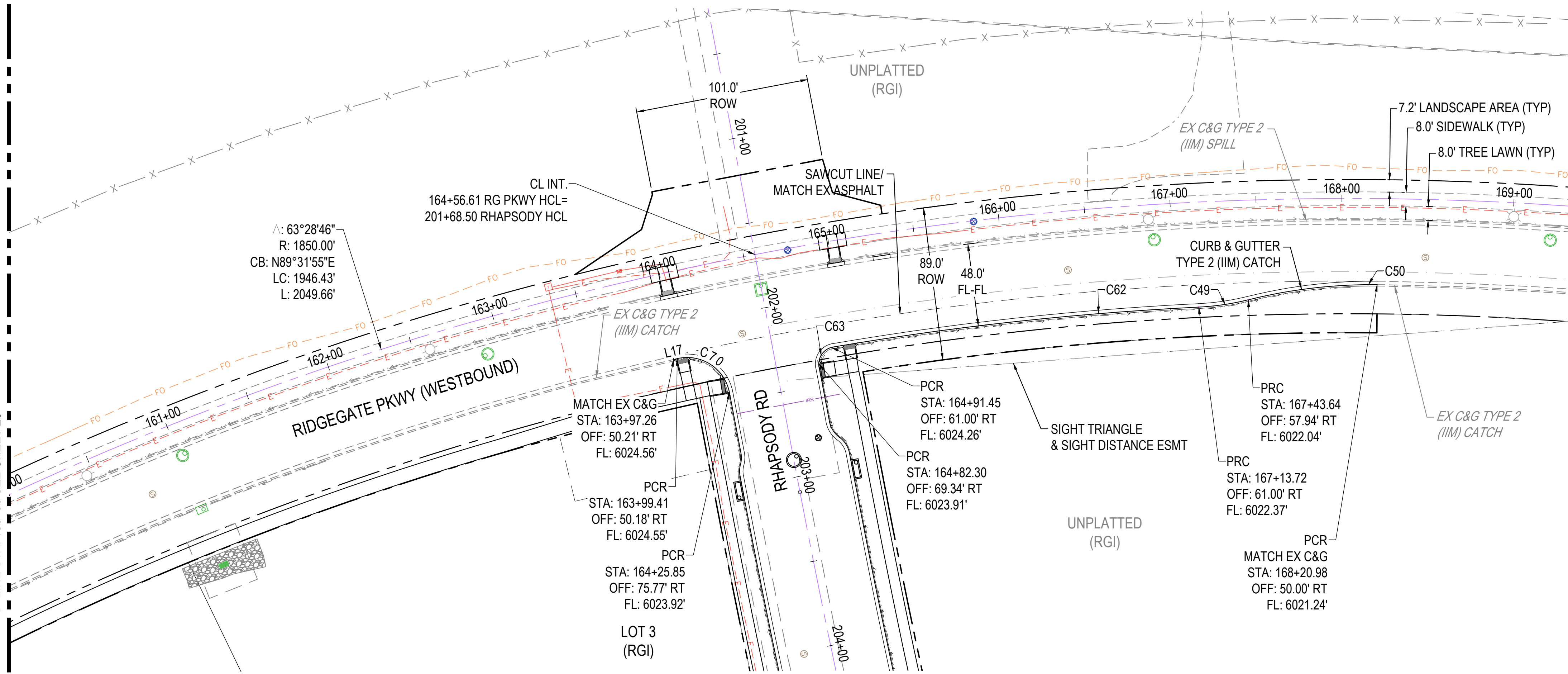
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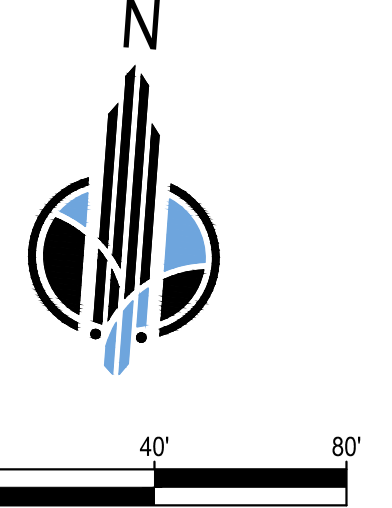
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- ROADWAY NOTES:
1. ALL STATIONS, OFFSETS, AND ELEVATIONS ARE TO FLOWLINE UNLESS OTHERWISE NOTED.
 2. ALL LINE AND CURVE TABLE DATA REFERENCES FLOWLINE AT CURB AND GUTTER AND EDGE OF ASPHALT WHERE CURB AND GUTTER IS NOT PROPOSED.

CURVE TABLE					
CURVE #	LENGTH	DELTA	RADIUS	CRD LENGTH	CRD RADIUS
C49	29.16'	11° 08' 23"	150.00'	29.12	N77° 24' 48"E
C50	15.70'	2° 59' 57"	300.00'	15.70	S84° 48' 05"W
C62	213.93'	6° 51' 05"	1789.00'	213.80	S79° 33' 27"W
C63	15.90'	91° 06' 38"	10.00'	14.28	S30° 34' 35"W
C70	40.41'	92° 37' 19"	25.00'	36.15	N61° 17' 28"W

LINE TABLE		
LINE #	BEARING	LENGTH
L17	S72° 23' 53"W	2.09'



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RIDGEGATE EAST FILING NO. 3
 STREET AND STORM SEWER
 PLANS
 RHAPSODY RD-RIDGEGATE PKWY
 (WESTBOUND) TURN LANES PLAN

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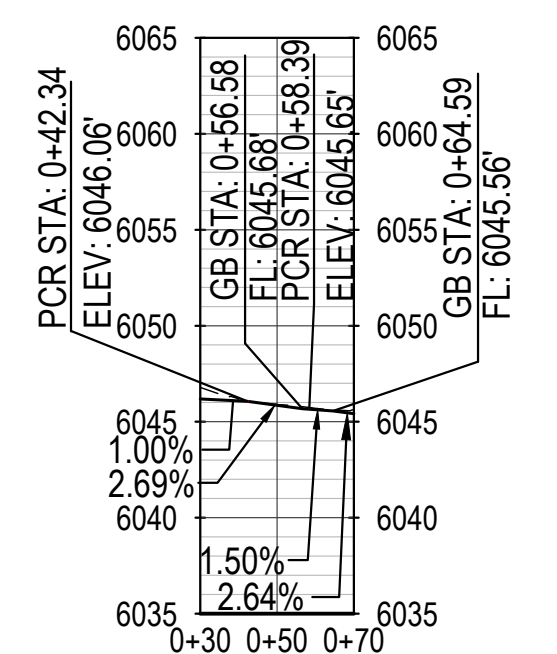
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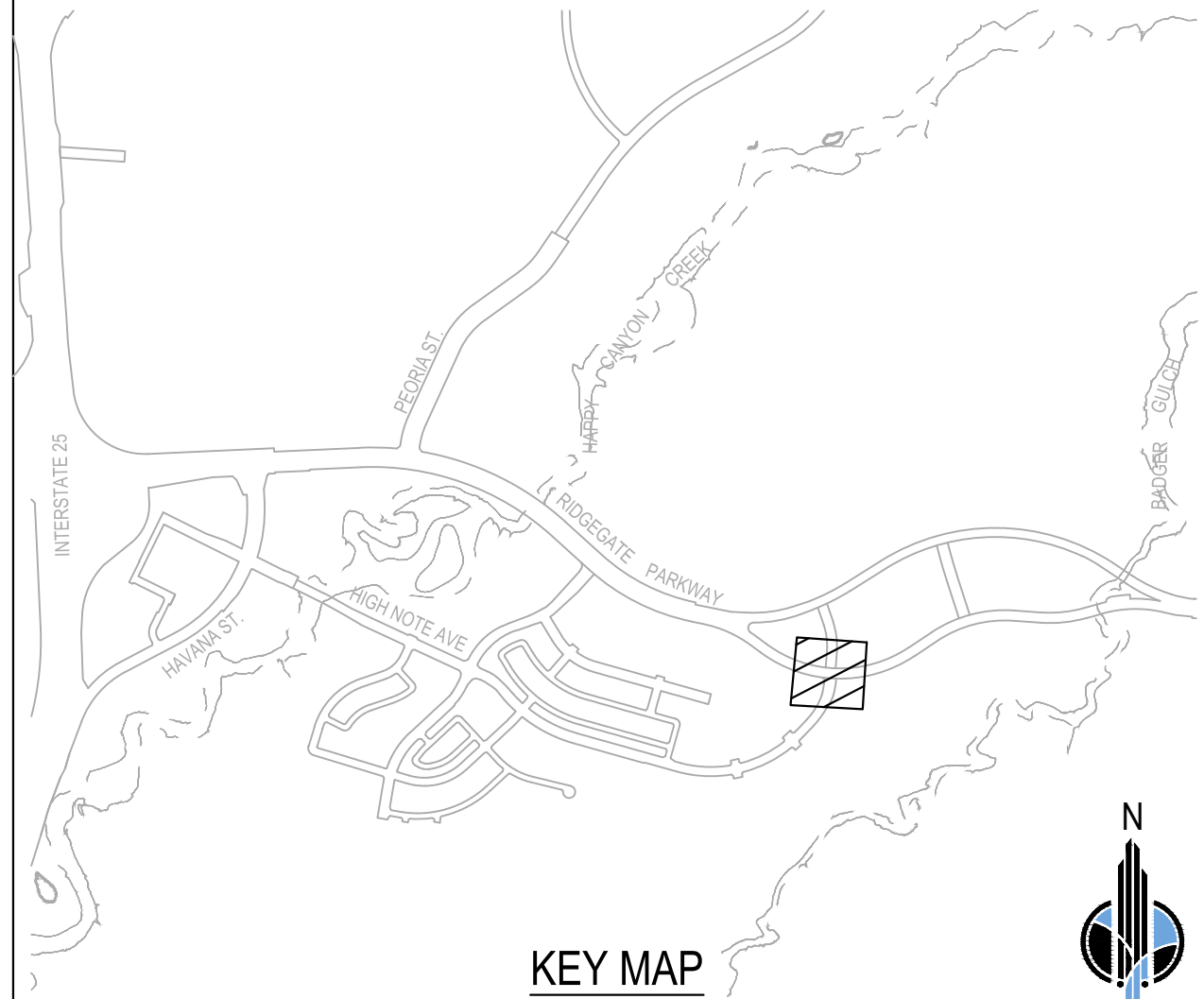
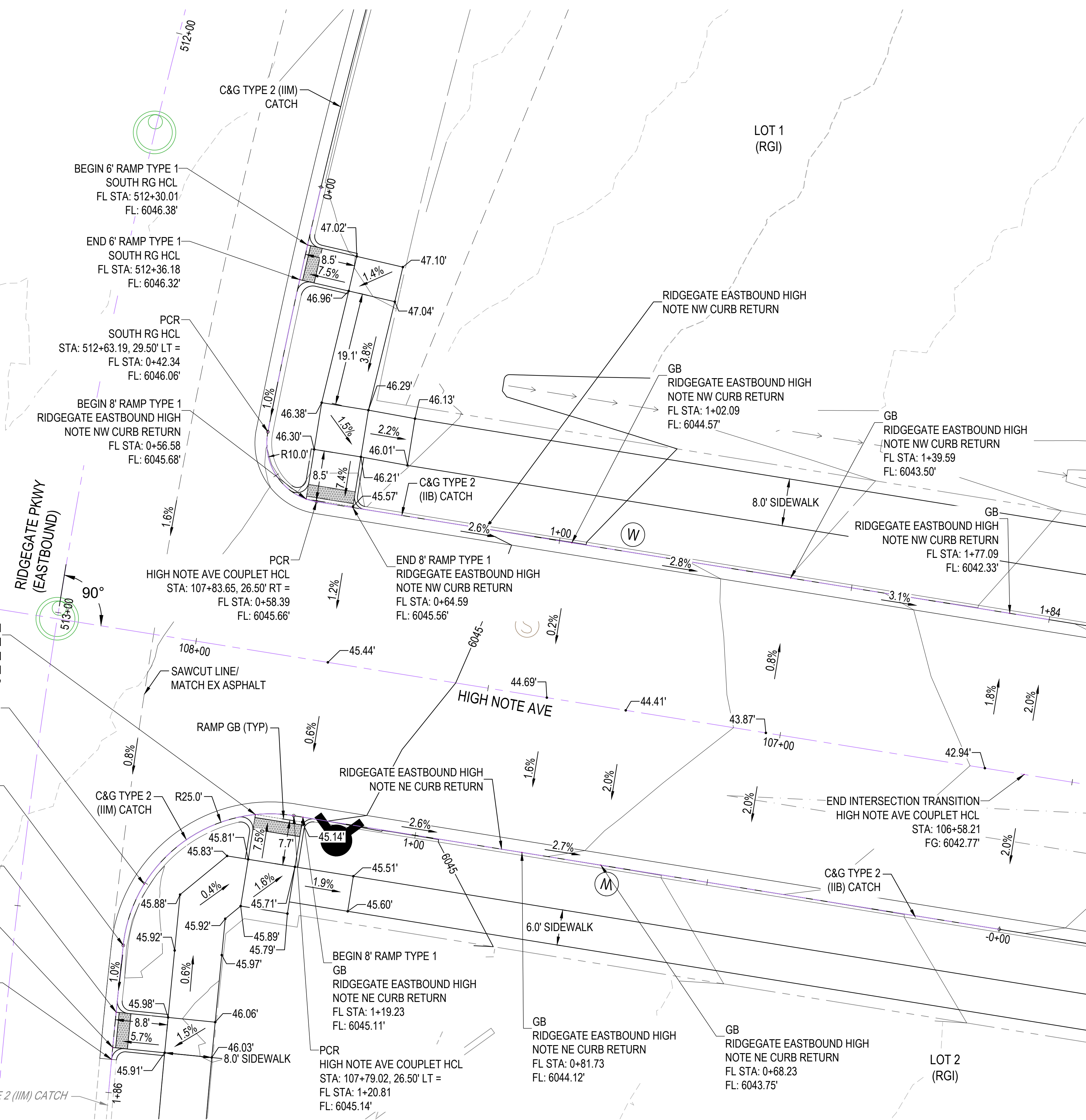
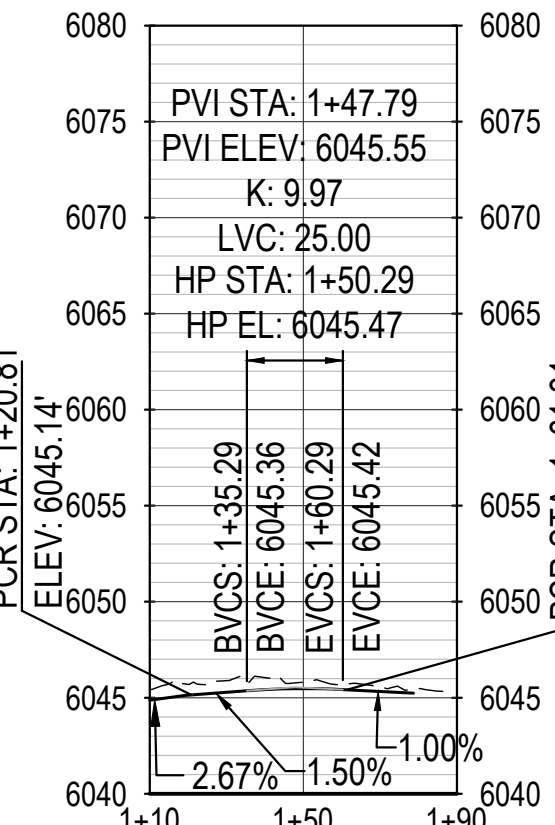
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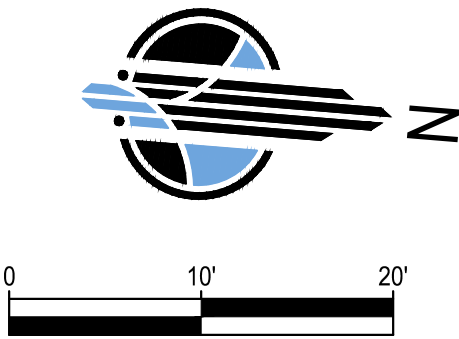
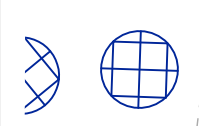
RIDGEGATE EASTBOUND HIGH NOTE NW CURB RETURN



RIDGEGATE EASTBOUND HIGH NOTE NE CURB RETURN



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STREET AND STORM SEWER PLANS
HIGH NOTE AVE-RIDGEGATE PKWY (EASTBOUND) INTERSECTION DETAILS

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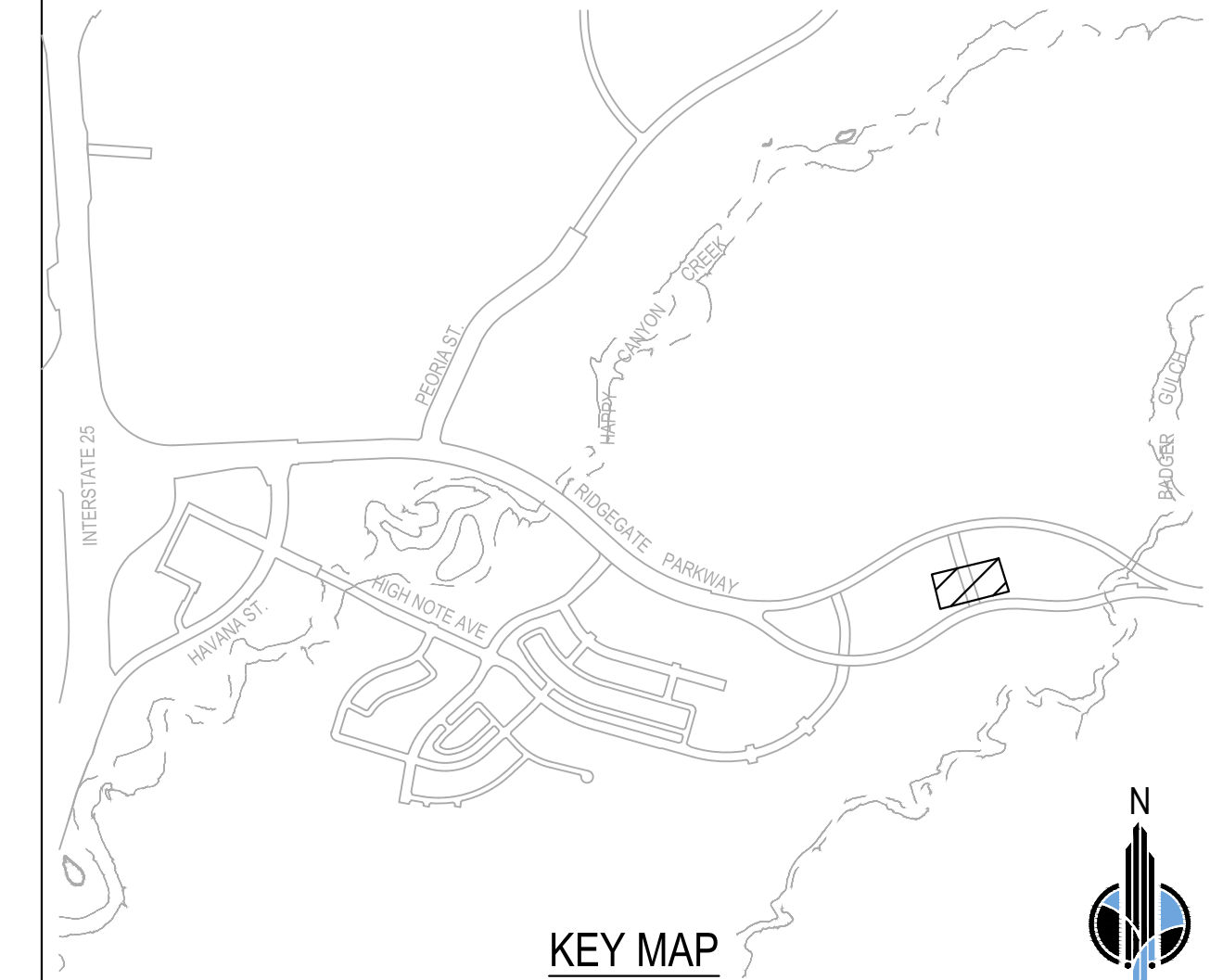
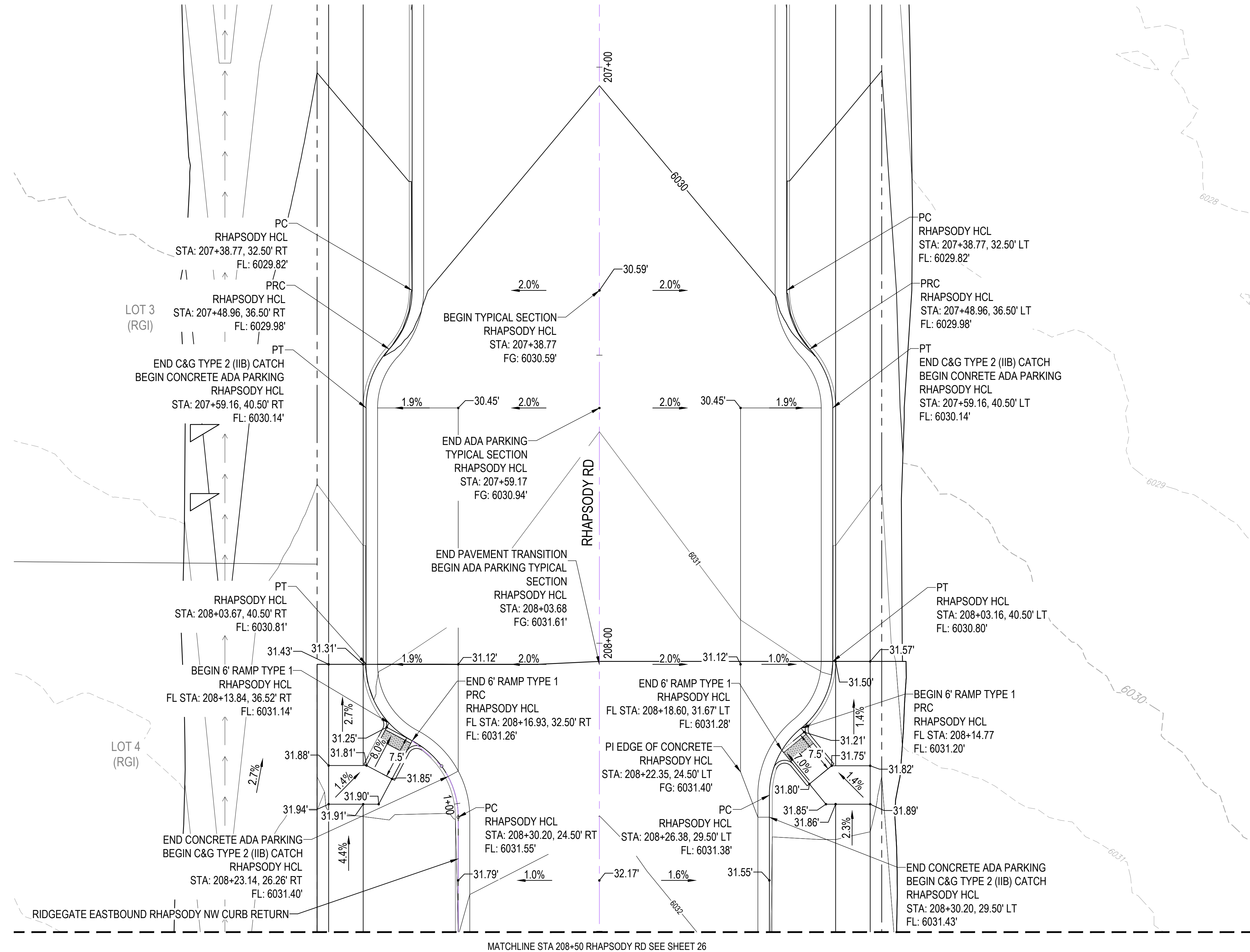
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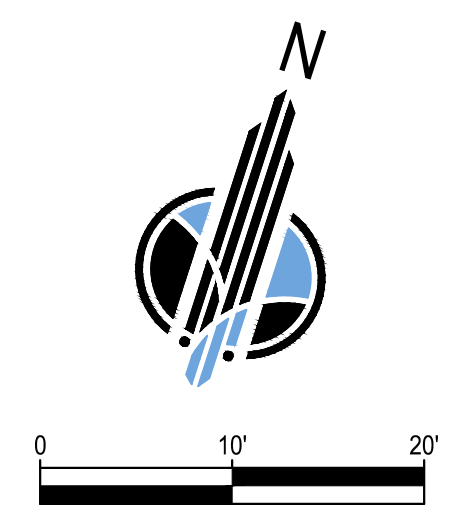
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RIDGEGATE EAST FILING NO. 3
 STREET AND STORM SEWER
 PLANS
 RHAPSODY RD-RIDGEGATE PKWY
 (EASTBOUND) INTERSECTION DETAIL 2

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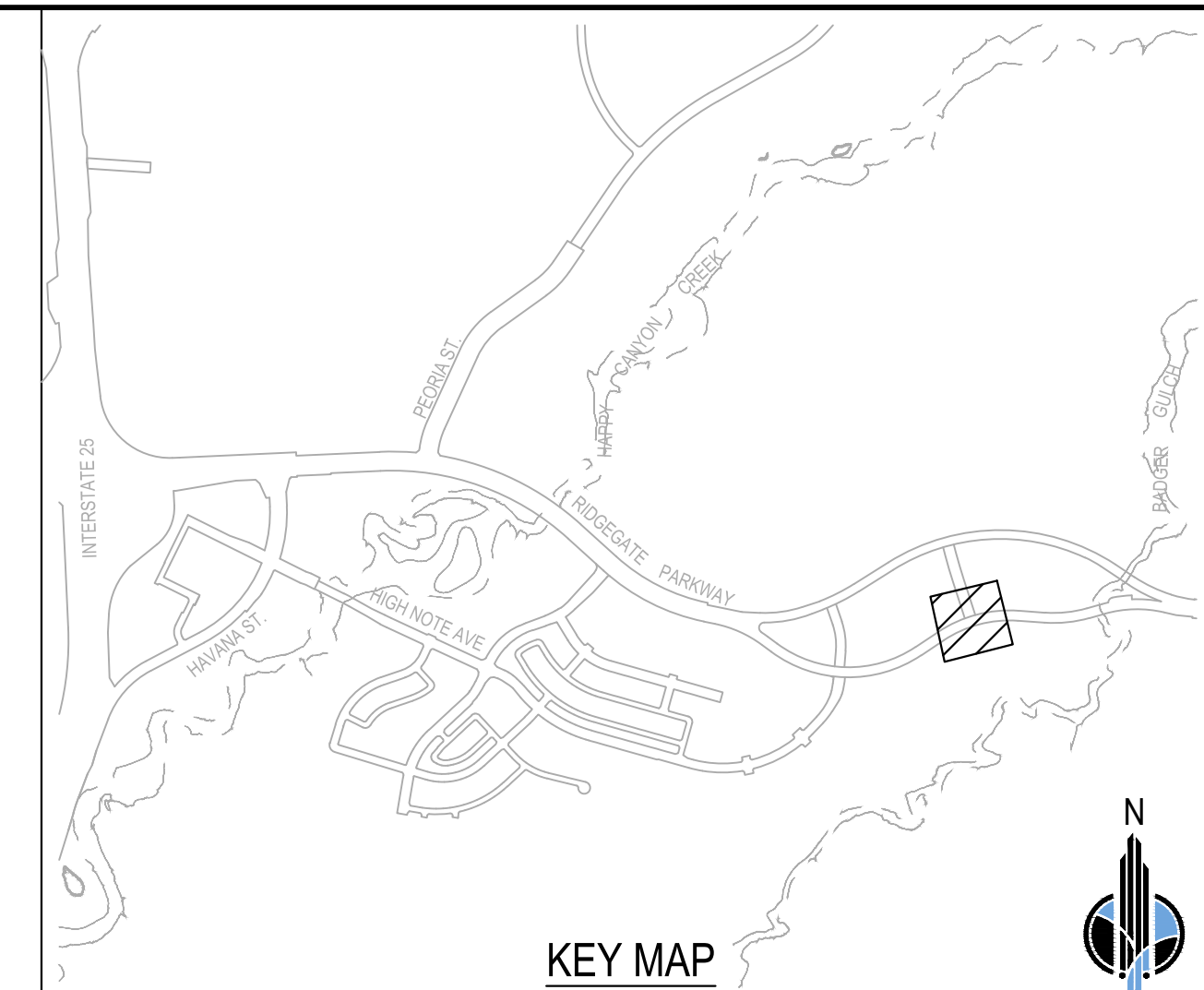
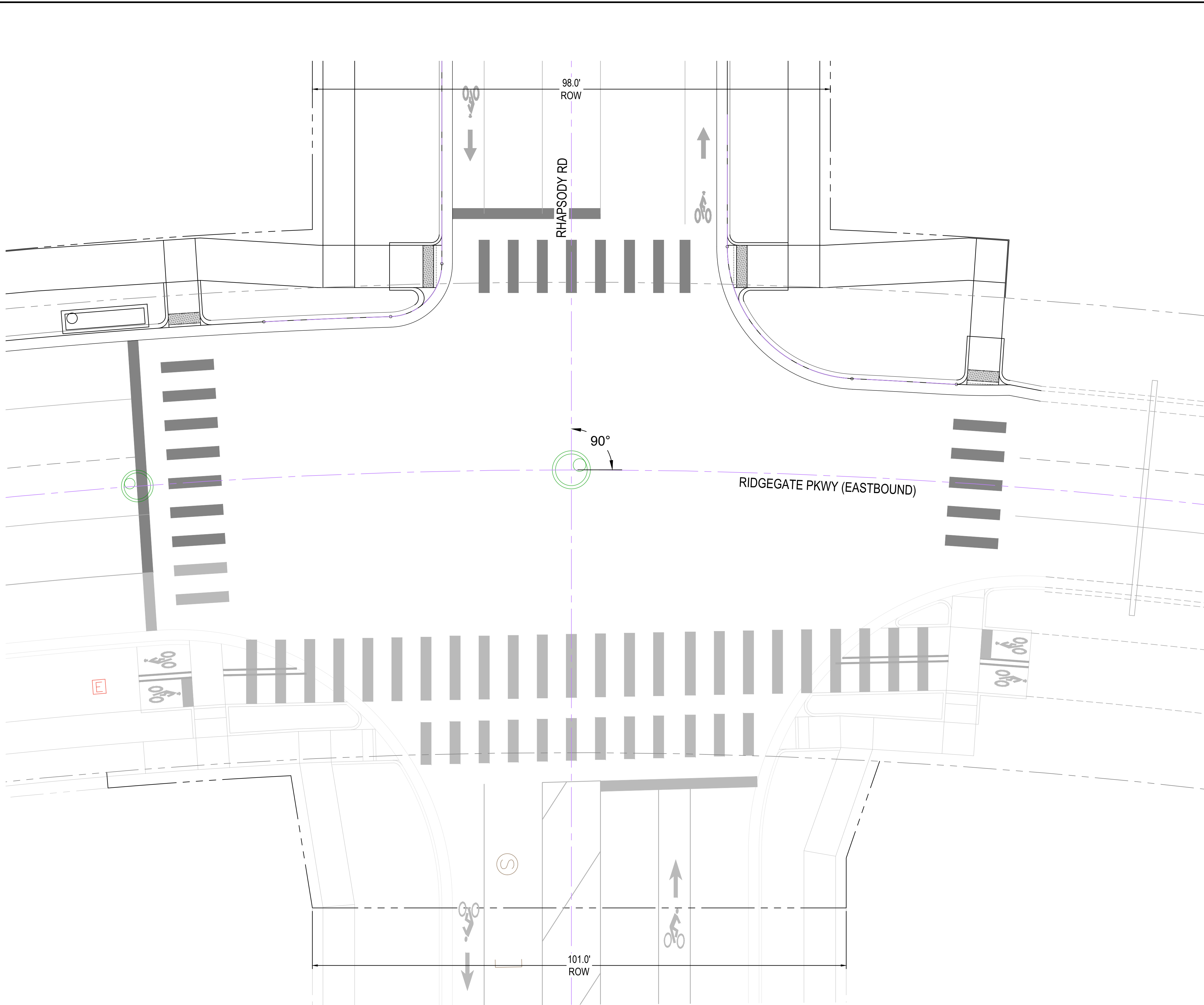
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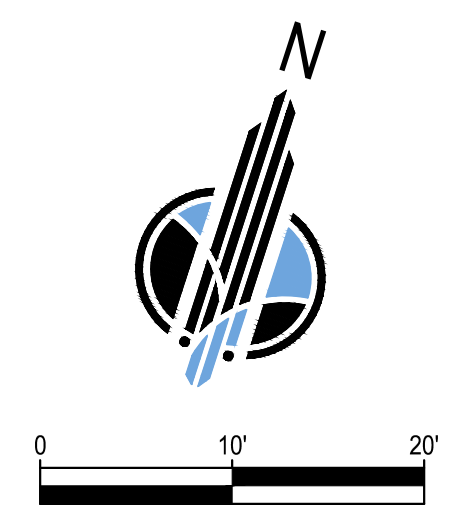
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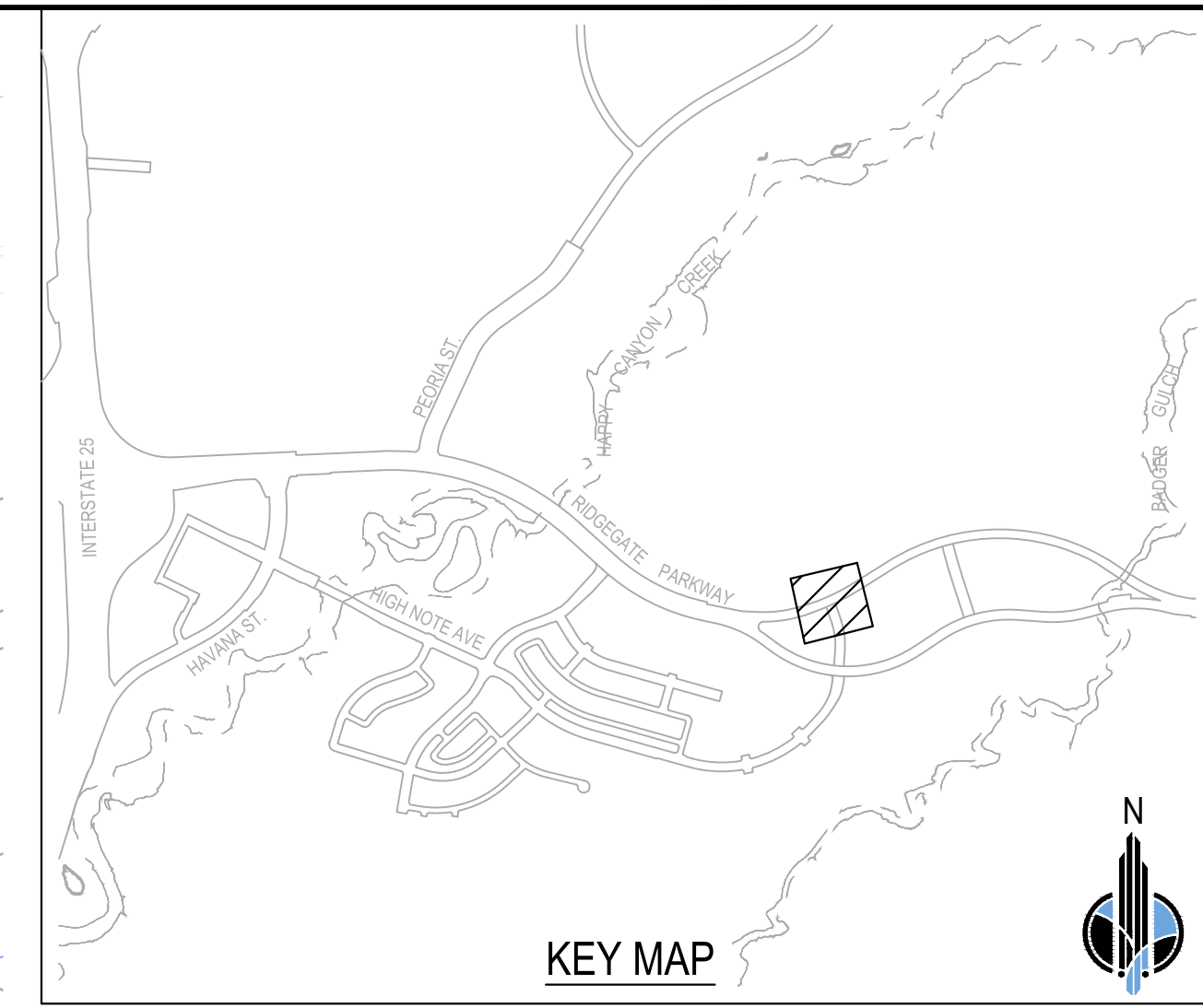
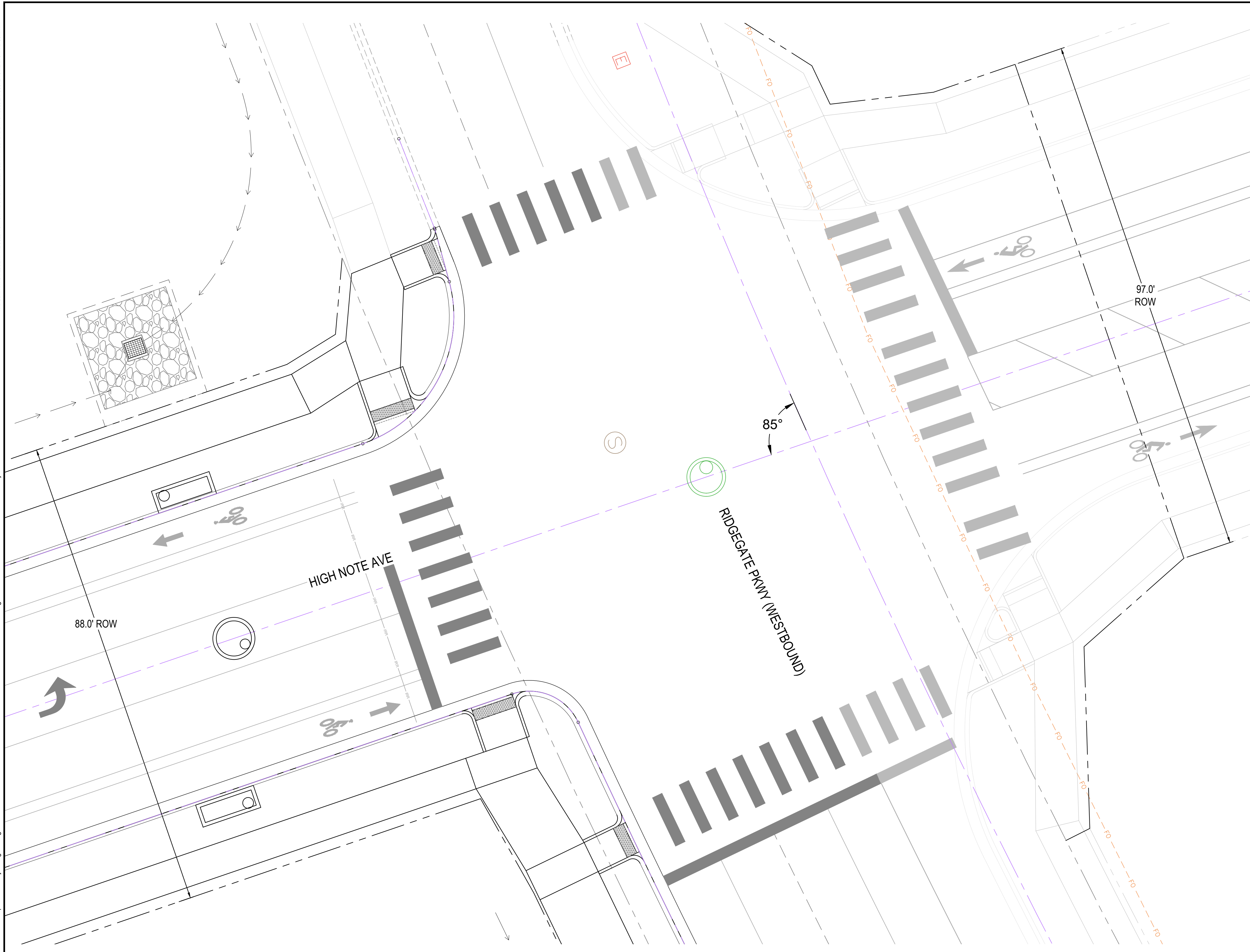
RIDGEGATE EAST FILING NO. 3
 STREET AND STORM SEWER
 PLANS
 RHAPSODY RD-RIDGEGATE PKWY
 (EASTBOUND) FUTURE INTERSECTION

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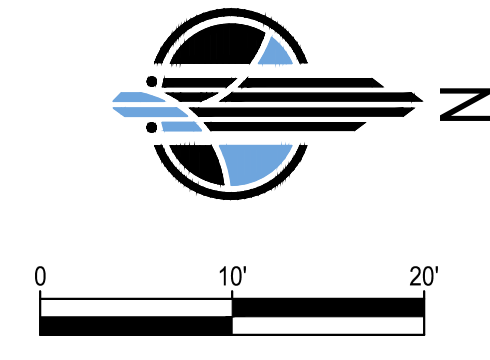
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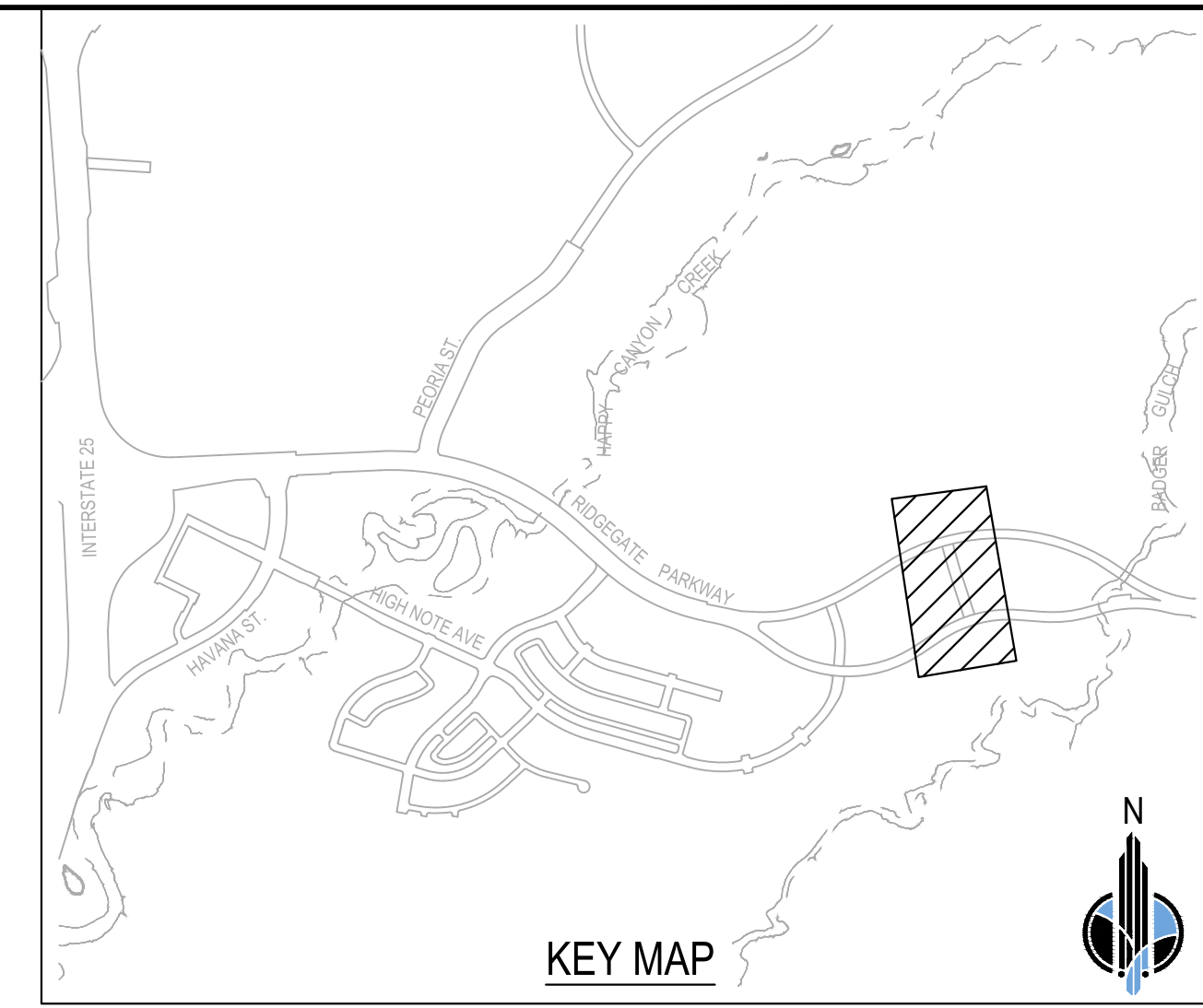
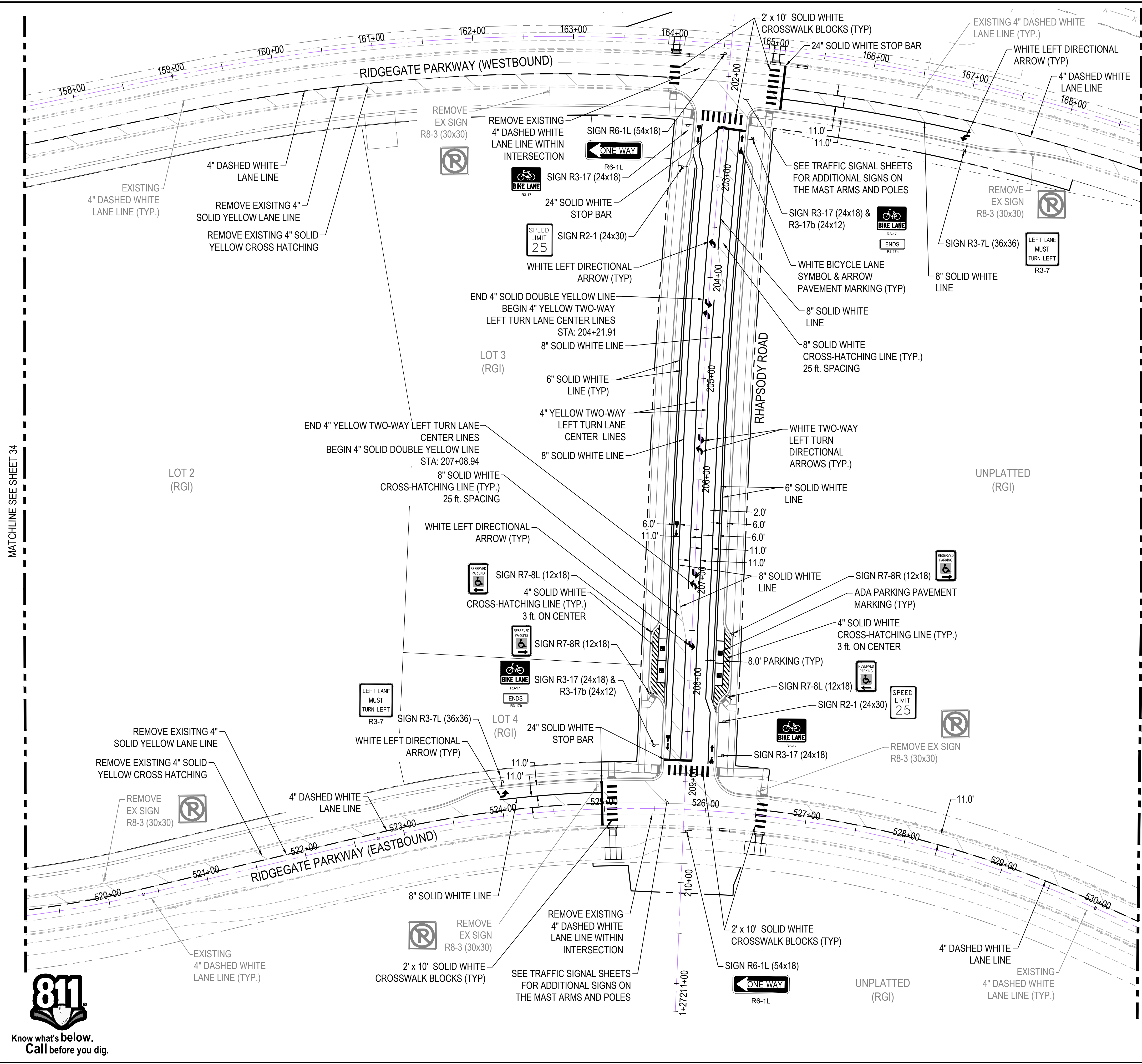
RIDGEGATE EAST FILING NO. 3
STREET AND STORM SEWER
PLANS
HIGH NOTE-RIDGEGATE PKWY
(WESTBOUND) FUTURE INTERSECTION

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SIGNAGE AND STRIPING NOTES:

- STRIPING PLAN TO BE COORDINATED WITH, AND APPROVED BY, THE CITY OF LONE TREE AND DOUGLAS COUNTY PRIOR TO PLACEMENT OF PAVEMENT MARKINGS.

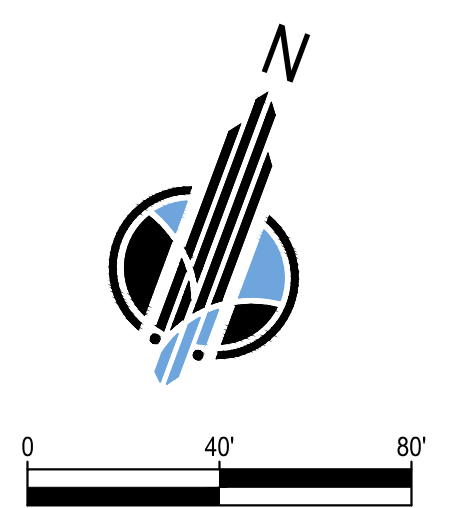


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RIDGEGATE EAST FILING NO. 3
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 SIGNAGE & STRIPING PLAN 3

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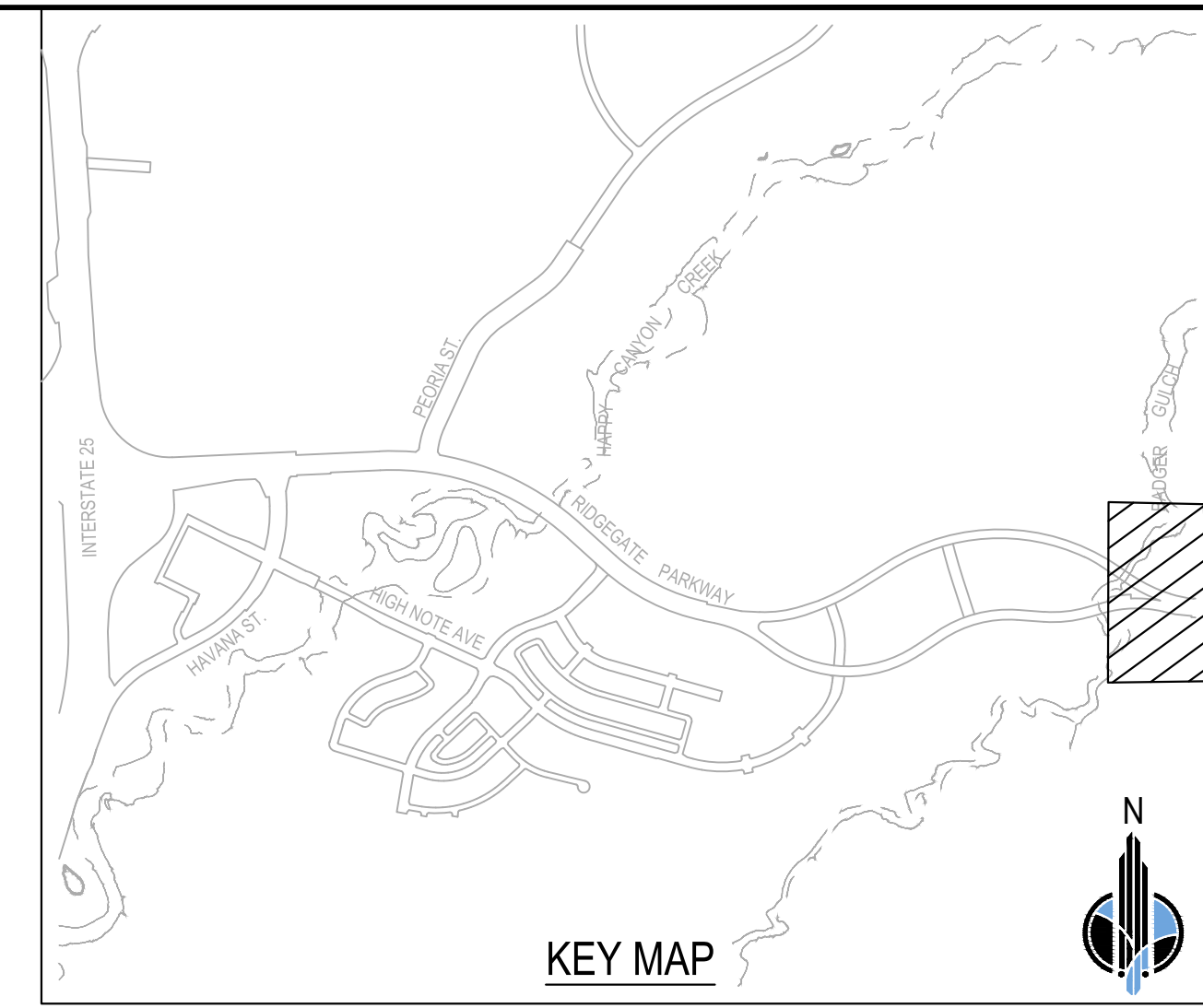
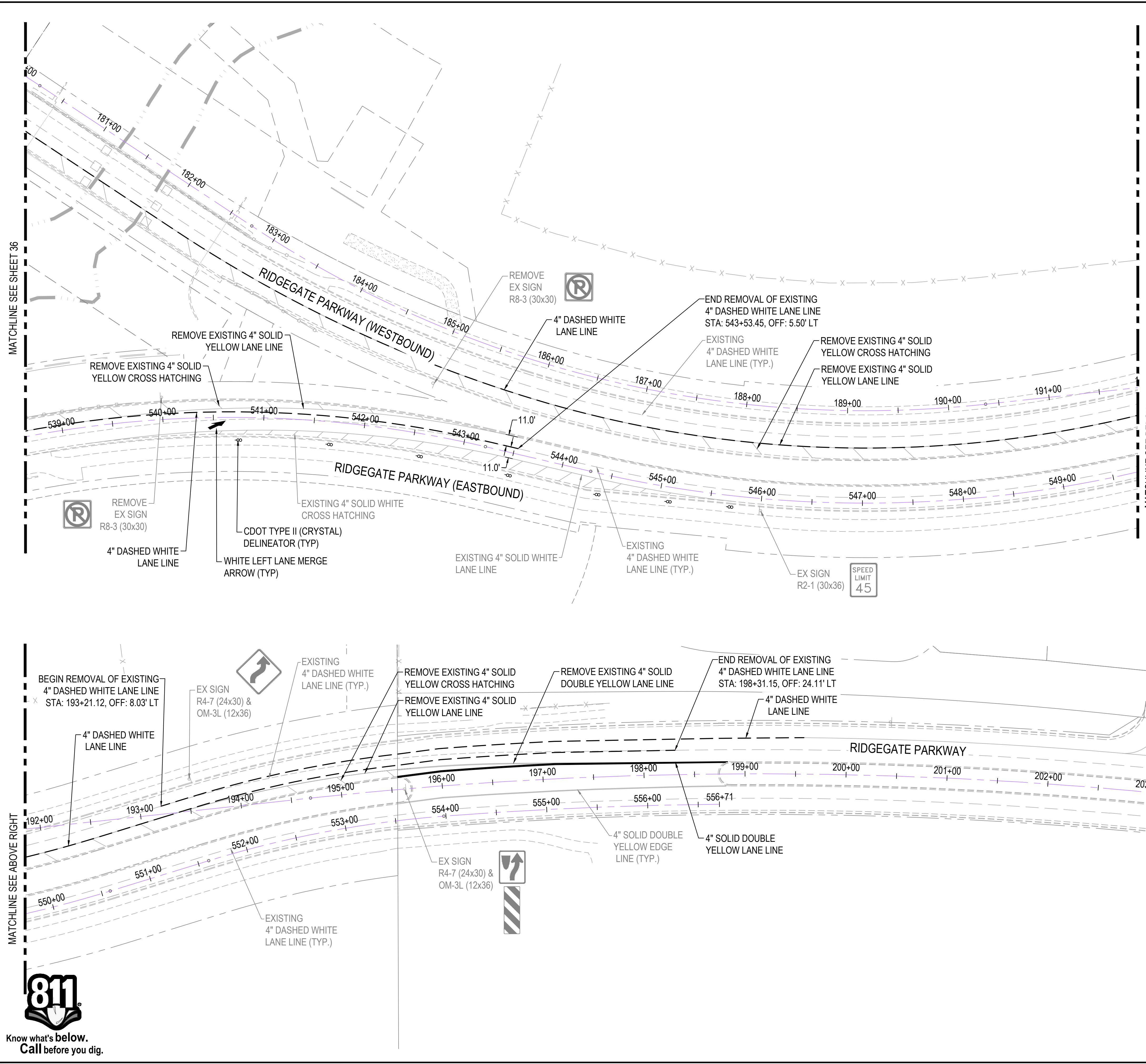
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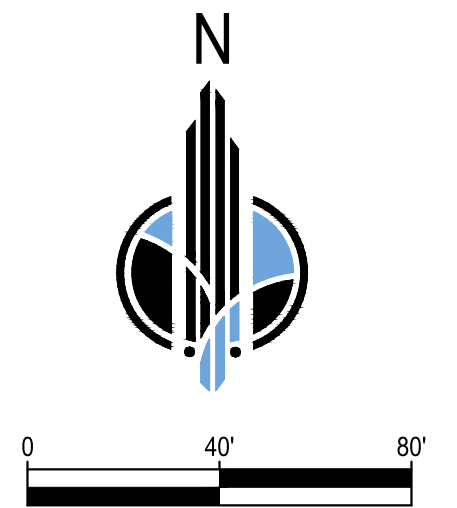
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TABULATION OF TRAFFIC SIGNAL ITEMS

LONE TREE ITEM NO.	ITEM DESCRIPTION	UNITS	FINAL CONDITION			TOTALS-FUTURE	COMMENTS
			WESTBOUND RIDGEGATE PKWY & HIGH NOTE AVE	WESTBOUND RIDGEGATE PKWY & RHAPSODY RD	EASTBOUND RIDGEGATE PKWY & RHAPSODY RD		
1	REMOVAL OF PULL BOX	EACH	1	1	1	3	
2	POTHOLING	HOUR					
3	RESET PEDESTRIAN SIGNAL HEAD	EACH	1	1	1	3	
4	RESET PEDESTAL POLE	EACH	1	1	1	3	
5	RESET PEDESTRIAN PUSH BUTTON STATION	EACH	2	2	2	6	
6	PVC CONDUIT (2" - TRENCHED)	LF	30	35	0	65	
7	PVC CONDUIT (2" - BORED)	LF					
8	PVC CONDUIT (3" - TRENCHED)	LF	30	35	0	65	
9	PVC CONDUIT (3" - BORED)	LF					
10	PULL BOX (TYPE MEDIUM)	EACH	1	1		2	(13"X24"X12")
11	PULL BOX (TYPE LARGE)	EACH					(17"X30"X12")
12	PULL BOX (TYPE VAULT)	EACH					(30"X48"X18")
13	LUMINAIRE (LED) (16,000 LUMENS)	EACH					
14	SERVICE METER CABINET	EACH					
15	DRILLED SHAFT (36 INCH)	LF					
16	DRILLED SHAFT (42 INCH)	LF					
17	SIGN PANEL (CLASS I)	SF	38.5	38.5	53.4	130.4	
18	PEDESTRIAN SIGNAL FACE (16)(COUNTDOWN)	EACH	2	2	2	6	
19	TRAFFIC SIGNAL FACE (12-12-12)	EACH	4	4	8	16	INCLUDES BACKPLATES WITH YELLOW REFLECTIVE TAPE; SEE SIGNAL EQUIPMENT GENERAL NOTE NO.1
20	TRAFFIC SIGNAL FACE (12-12-12-12)	EACH					
21	BLANK OUT SIGN (LED) (SINGLE FACED)	EACH			1	1	
22	FIRE PREEMPTION UNIT AND TIMER	EACH	1	1	1	3	
23	PEDESTRIAN PUSH BUTTON STATION	EACH	2	2	4	8	ADA TYPE; INCLUDES PUSH BUTTON SIGNS
24	PEDESTRIAN PUSH BUTTON POST ASSEMBLY	EASH					
25	MICROWAVE VEHICLE RADAR DETECTOR	EACH			2	2	FOR BICYCLE DETECTION
26	VEHICLE/BICYCLE/PEDESTRIAN DETECTION CAMERA	EACH					GRIDSMArt (4 DOME CAMERAS - PRESENCE DETECTION, 4 TRADITIONAL CAMERAS - ADVANCE DETECTION)
27	TRAFFIC SIGNAL CONTROLLER AND CABINET	EACH					INCLUDES UNINTERRUPTED POWER SUPPLY; SEE SIGNAL EQUIPMENT GENERAL NOTE NO.7
28	TRAFFIC SIGNAL PEDESTAL POLE	EACH	1	1	1	3	
29	TRAFFIC SIGNAL-LIGHT POLE STEEL (30' MAST ARM)	EACH					
30	TRAFFIC SIGNAL-LIGHT POLE STEEL (50' MAST ARM)	EACH					
31	TRAFFIC SIGNAL-LIGHT POLE STEEL (55' MAST ARM)	EACH					
32	TRAFFIC SIGNAL-LIGHT POLE STEEL (NO MAST ARM)	EACH					
33	TRAFFIC SIGNAL MAST ARM (INSTALL ONLY)	EACH	1	1	1	3	STRAIGHT ARM TYPE
34	TRAFFIC SIGNAL-LIGHT POLE STEEL (FUTURE MAST ARM)	EACH					
35	TRAFFIC SIGNAL MAST ARM (FUTURE 30' ARM) (FURNISH ONLY)	EACH					STRAIGHT ARM TYPE

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City of Lone Tree

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<p>6400 South Fiddlers Green Circle, Suite 1500 Greenwood Village, CO 80111 Phone: 303.721.1440 www.FHUENG.com</p>	
RIDGEGATE EAST FILING NO. 3 TRAFFIC SIGNAL PLANS	TABULATION OF TRAFFIC SIGNAL DEVICES
ISSUED FOR REVIEW	
JOB NO.: 65121240	DATE: 7/13/2023
SHEET: 40 OF 78	
	RRF TCB XX XX DESIGN BY: DRAWN BY: CHECKED BY: APPROVED BY:
	REV/REVISION DESCRIPTION DATE DRAWN/CHKD/APPR

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INTERIM PROPOSED INDICATIONS AND BRACKETING

DIRECTION OF TRAVEL	SIGNAL FACE MOUNT	FACE NO.	SIGNAL PHASE	INDICATION SIZE AND TYPE (ALL LED)													
				CIRCULAR			ARROW				BIKE			PEDESTRIAN			
				R	Y	G	R	Y	FY	G	R	Y	G	HAND/MAN			
WESTBOUND RIDGEGATE PARKWAY AT HIGH NOTE AVENUE	MA-1 (NE)	1	3				12"	12"	12"	12"							
	POLE (NE)	2	3	12"	12"	12"											
	PED. POLE (NE)	3	8P														16"X16"
	POLE (SE)	4	8P														16"X16"
	PED. POLE (SE)	5	6P														16"X16"
	POLE (SW)	6	6P														16"X16"
	PED. POLE (SW)	7	6	12"	12"	12"											
	PED. POLE (SW)	8	8P														16"X16"
	MA-4 (NW)	9	6	12"	12"	12"											
	MA-4 (NW)	10	6	12"	12"	12"											
	MA-4 (NW)	11	6	12"	12"	12"											
	POLE (NW)	12	3				12"	12"	12"	12"							
	POLE (NW)	13	6	12"	12"	12"											
	POLE (NW)	14	8P														16"X16"
WESTBOUND RIDGEGATE PARKWAY AT RHAPSODY ROAD	MA-5 (NE)	1	3				12"	12"	12"	12"							
	POLE (NE)	2	3	12"	12"	12"											
	PED. POLE (NE)	3	8P														16"X16"
	POLE (SE)	4	8P														16"X16"
	PED. POLE (SE)	5	6P														16"X16"
	POLE (SW)	6	6P														16"X16"
	PED. POLE (SW)	7	6	12"	12"	12"											
	PED. POLE (SW)	8	8P														16"X16"
	MA-8 (NW)	9	6	12"	12"	12"											
	MA-8 (NW)	10	6	12"	12"	12"											
	MA-8 (NW)	11	6	12"	12"	12"											
	POLE (NW)	12	3				12"	12"	12"	12"							
	POLE (NW)	13	6	12"	12"	12"											
	POLE (NW)	14	8P														16"X16"

DIRECTION OF TRAVEL	SIGNAL FACE MOUNT	FACE NO.	SIGNAL PHASE	INDICATION SIZE AND TYPE (ALL LED)													
				CIRCULAR			ARROW				BIKE			PEDESTRIAN			
				R	Y	G	R	Y	FY	G	R	Y	G	HAND/MAN			
EASTBOUND RIDGEGATE PARKWAY AT HIGH NOTE AVENUE	MA-9 (NE)	1	8	12"	12"	12"											
	POLE (NE)	2	8	12"	12"	12"											
	POLE (NE)	3	2P														16"X16"
	PED. POLE (NE)	4	2	12"	12"	12"											16"X16"
	PED. POLE (NE)	5	8P														16"X16"
	MA-10 (SE)	6	2	12"	12"	12"											
	MA-10 (SE)	7	2	12"	12"	12"											
	MA-10 (SE)	8	2	12"	12"	12"											
	MA-10 (SE)	9	OLA				12"	12"		12"							
	POLE (SE)	10	7				12"	12"	12"	12"							
	POLE (SE)	11	8P														16"X16"
	POLE (SE)	12	2B								12"	12"	12"				
	PED. POLE (SE)	13	2B								12"	12"	12"				
	PED. POLE (SE)	14	2P														16"X16"
EASTBOUND RIDGEGATE PARKWAY AT RHAPSODY ROAD	MA-11 (SW)	15	7				12"	12"	12"	12"							
	MA-11 (SW)	16	4	12"	12"	12"											
	POLE (SW)	17	2P														16"X16"
	POLE (SW)	18	4	12"	12"	12"											
	PED. POLE (SW)	19	2B								12"	12"	12"				
	PED. POLE (SW)	20	2B								12"	12"	12"				
	PED. POLE (SW)	21	4P														16"X16"
	POLE (NW)	22	4P														16"X16"
	PED. POLE (NW)	23	2P														16"X16"
	PED. POLE (NW)	24	8	12"	12"	12"											
	POLE (NE)	1	2P														16"X16"
	PED. POLE (NE)	2	2	12"	12"	12"											
	PED. POLE (NE)	3	4P														16"X16"
	MA-14 (SE)	4	2	12"	12"	12"											
MA-14 (SE)	5	2	12"	12"	12"												
MA-14 (SE)	6	2	12"	12"	12"												
POLE (SE)	7	7				12"	12"	12"	12"								
POLE (SE)	8	2	12"	12"	12"												
POLE (SE)	9	4P														16"X16"	
MA-15 (SW)	10	7				12"	12"	12"	12"								
POLE (SW)	11	7	12"	12"	12"												
PED. POLE (SW)	12	4P														16"X16"	
POLE (NW)	13	4P														16"X16"	
PED. POLE (NW)	14	2P														16"X16"	

NOTES:

- REFER TO TRAFFIC SIGNAL PLAN SHEETS FOR HEAD PLACEMENT LOCATIONS.
- ALL NEW MAST ARMS SHALL BE STRAIGHT TYPE.
- SIGNAL POLE MANUFACTURER SHALL VERIFY TRAFFIC SIGNAL POLE AND MAST ARM STRUCTURAL DESIGN TO SUPPORT PROPOSED LOADINGS.



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RIDGEGATE EAST FILING NO. 3
TRAFFIC SIGNAL PLANS

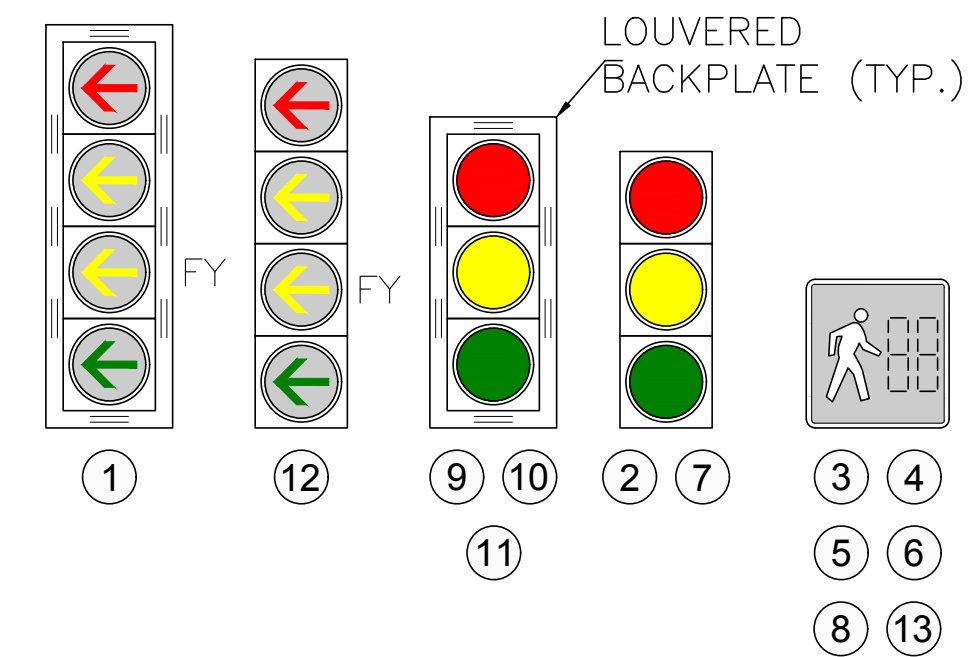
TABULATION OF TRAFFIC
SIGNAL ITEMS

ISSUED FOR REVIEW

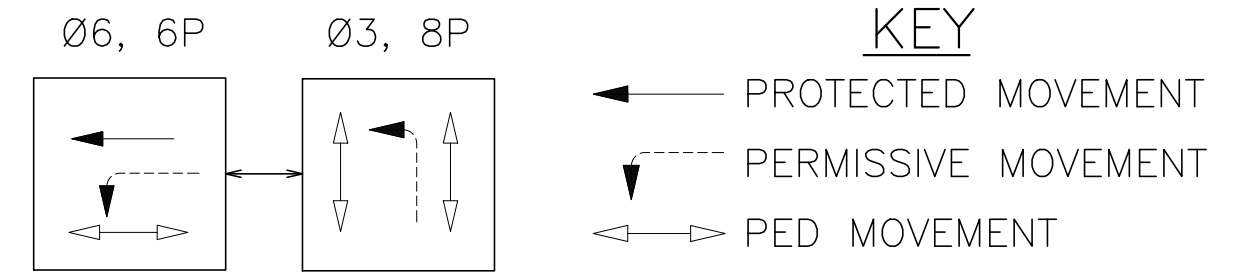
JOB NO.: 65121240
DATE: 7/13/2023
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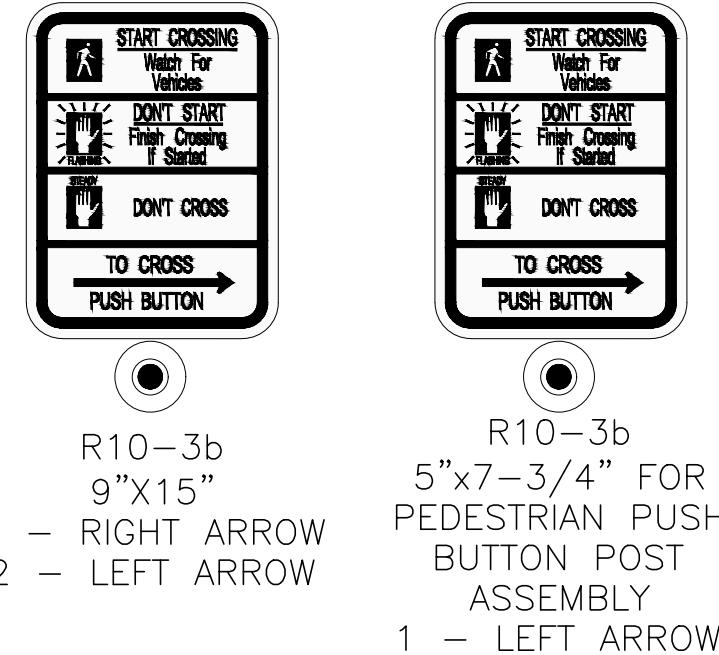
TRAFFIC SIGNAL HEADS



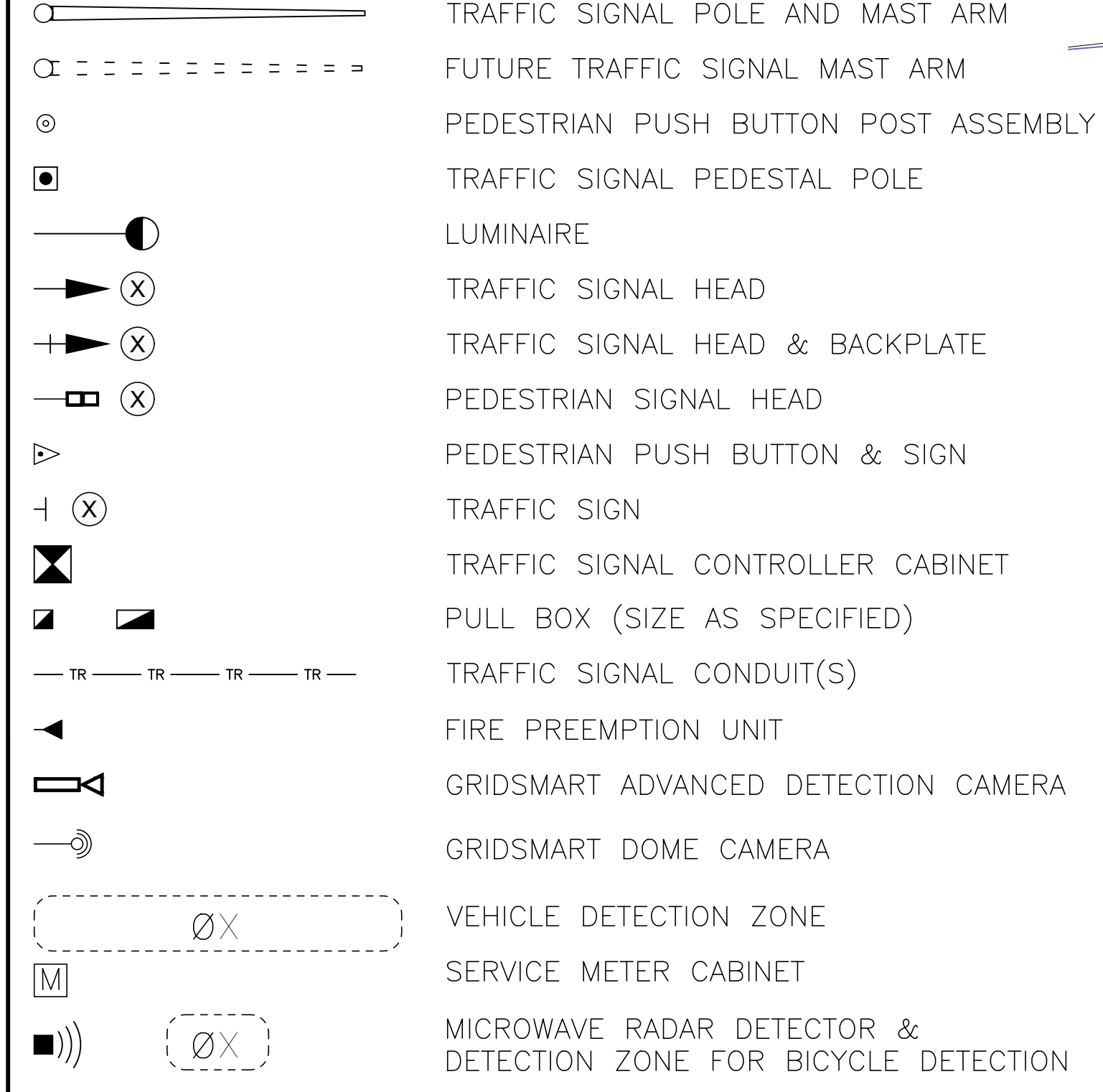
SIGNAL PHASING DIAGRAM



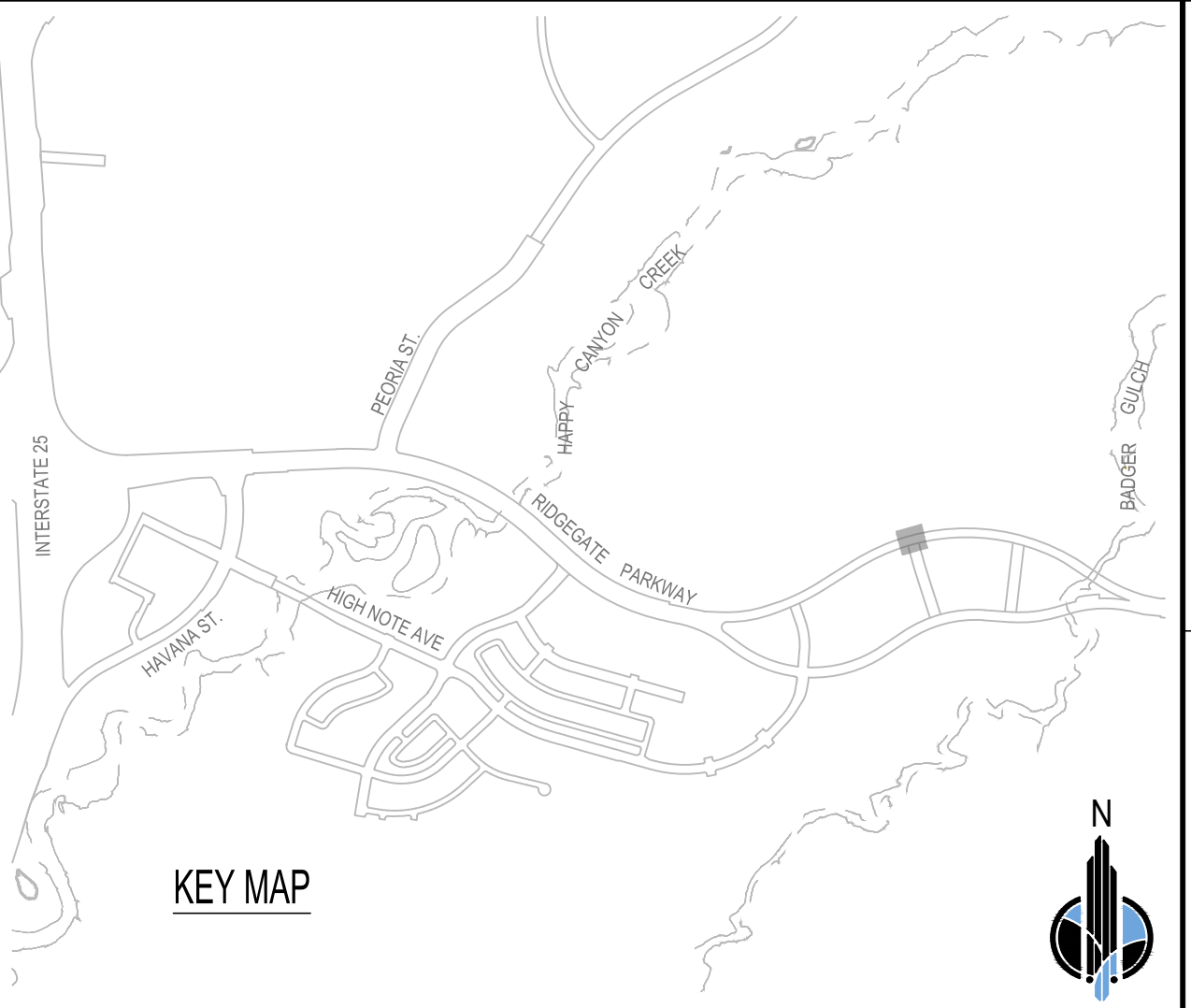
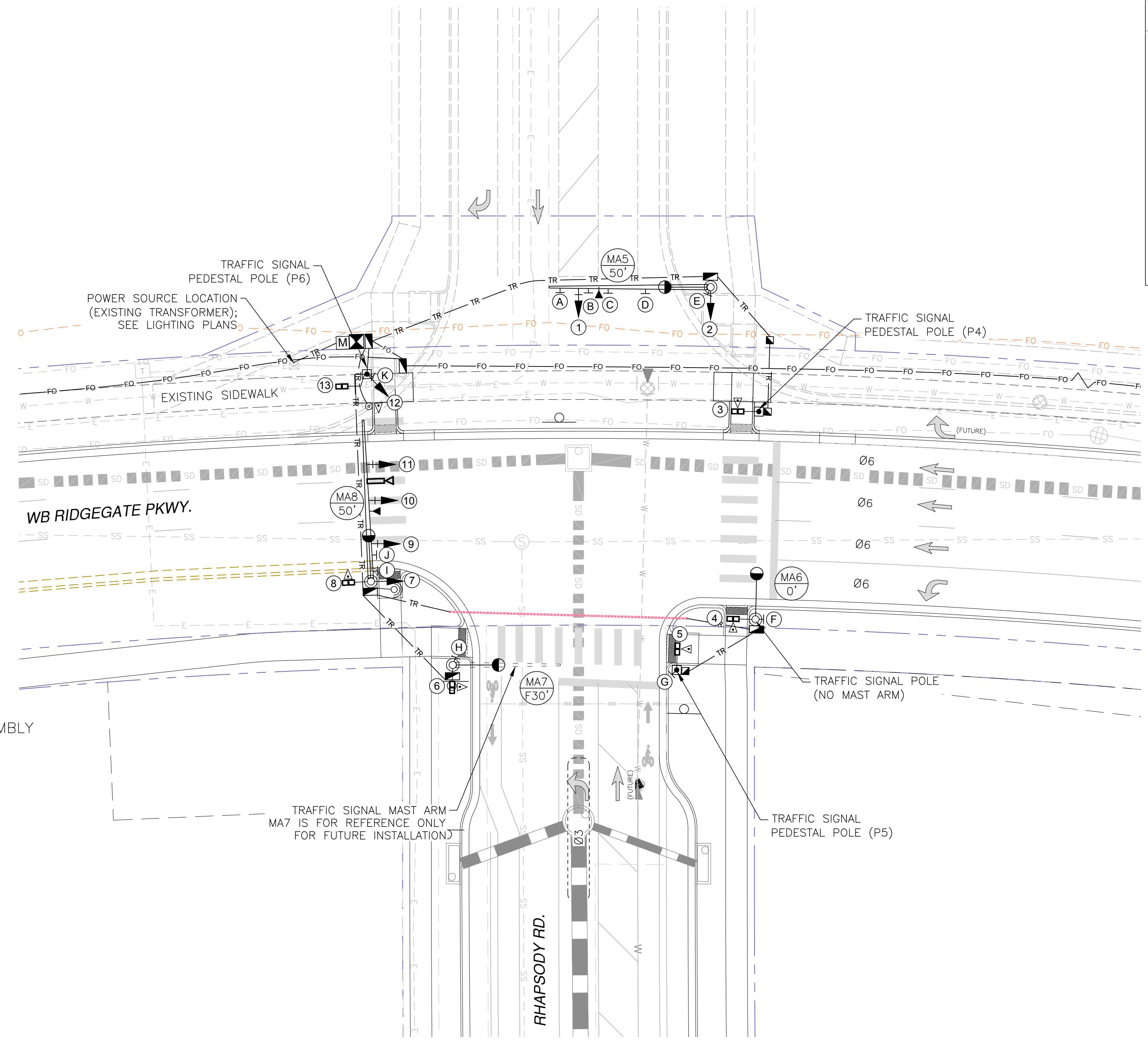
PEDESTRIAN PUSH BUTTON STATIONS



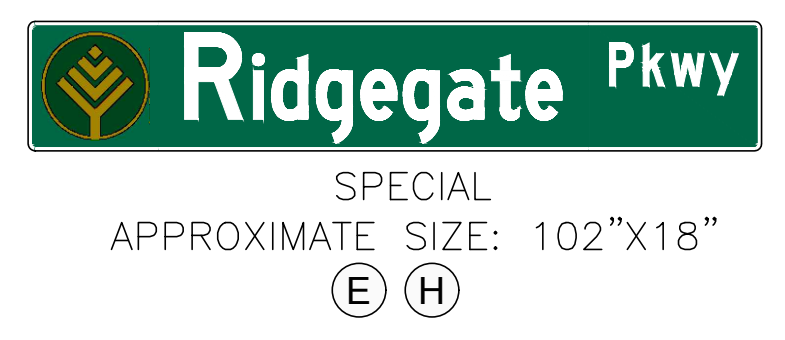
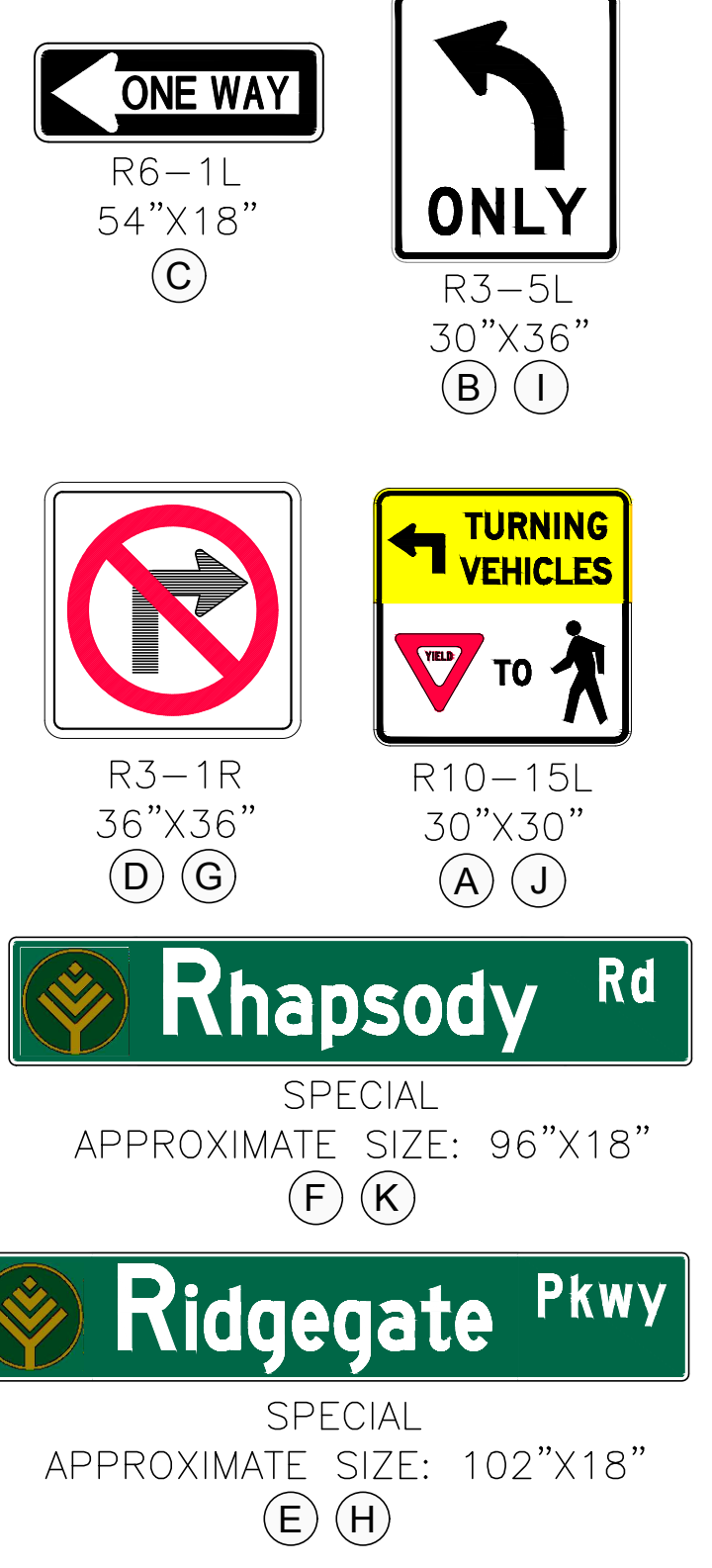
TRAFFIC SIGNAL SYMBOLS



FUTURE 4TH LEG OF INTERSECTION



TRAFFIC SIGNS



ISIG-03

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RIDGEGATE EAST FILING NO. 3
 TRAFFIC SIGNAL PLANS
 INTERIM TRAFFIC SIGNAL PLANS

ISSUED FOR REVIEW

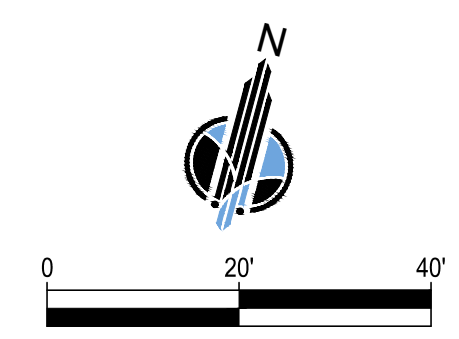
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DATE: 7/13/2023

SHEET: 46 OF 78



LANE USE ARROWS ARE SHOWN FOR INFORMATION ONLY



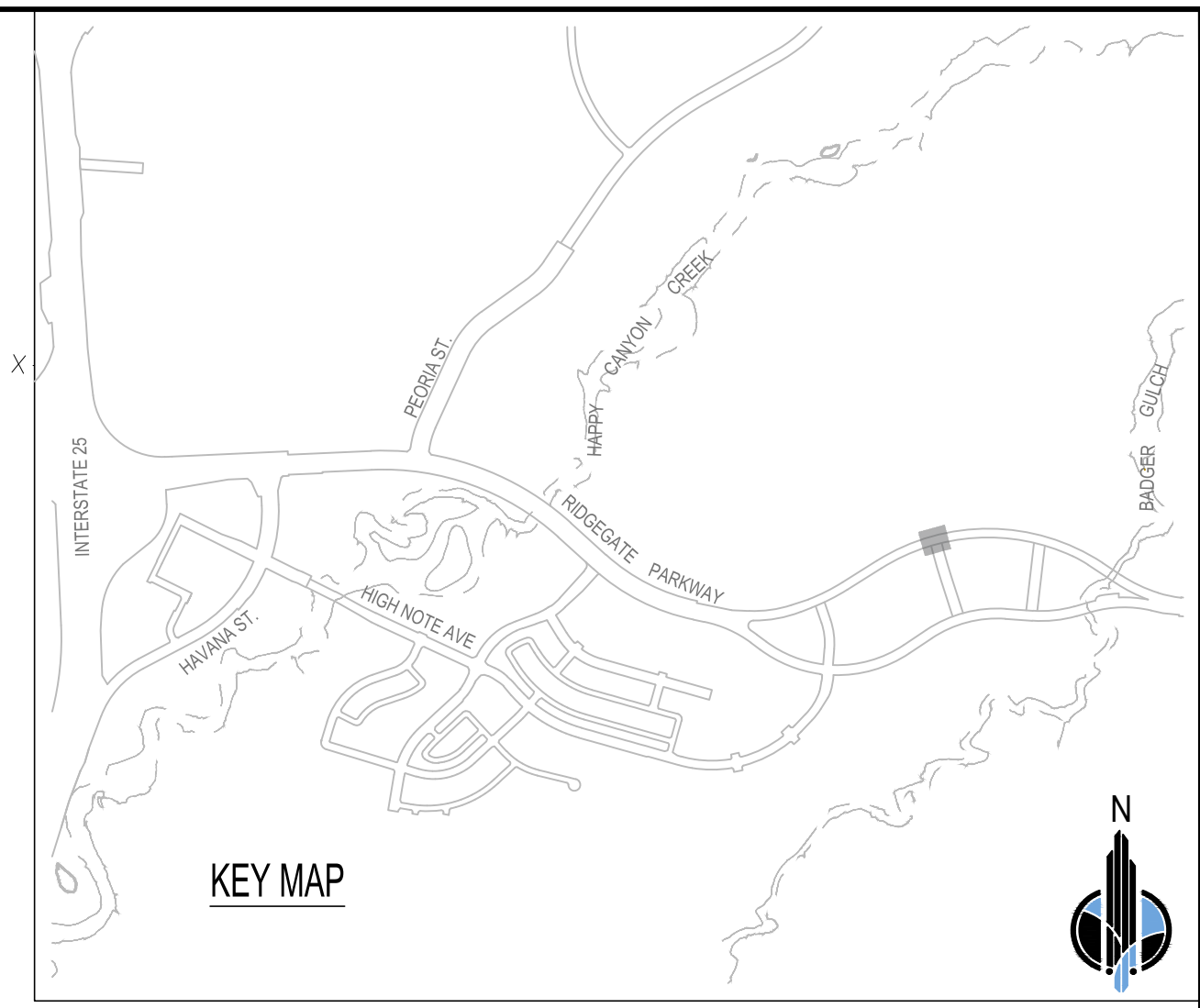
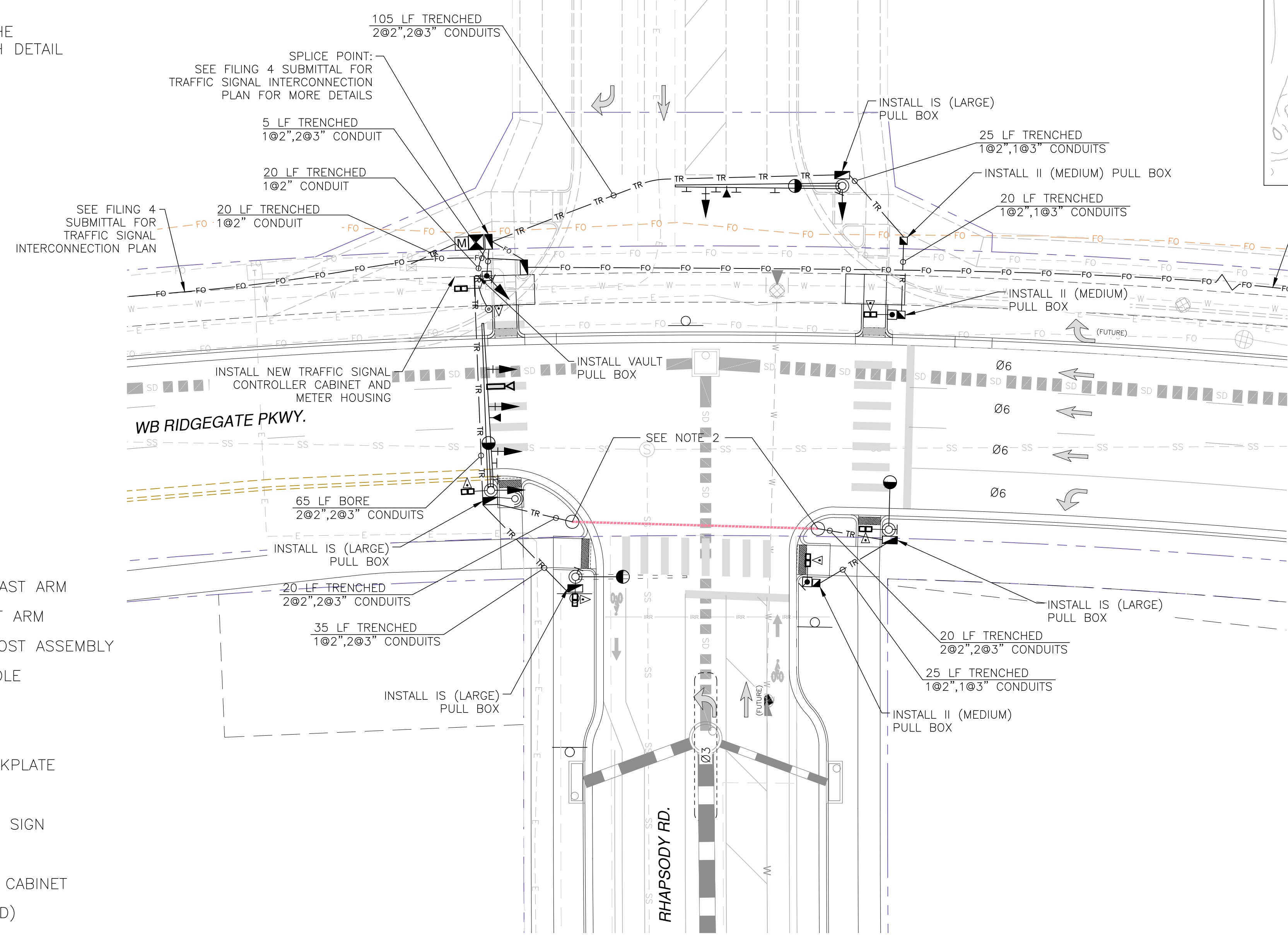
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NOTES:

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- CONTRACTOR SHALL CONNECT NEW CONDUITS TO EXISTING CONDUITS IDENTIFIED IN MERRICK'S CONDUIT TRENCH DETAIL B VIA A SLEEVING METHOD APPROVED BY THE CITY OF LONE TREE OR THEIR CONSTRUCTION MANAGEMENT REPRESENTATIVE. CONTRACTOR SHALL INSTALL NEW TRAFFIC SIGNAL CABLES THROUGH THE EXISTING CONDUITS IDENTIFIED IN CONDUIT TRENCH DETAIL B AS T12 - TRAFFIC SIGNAL

FUTURE 4TH LEG OF INTERSECTION

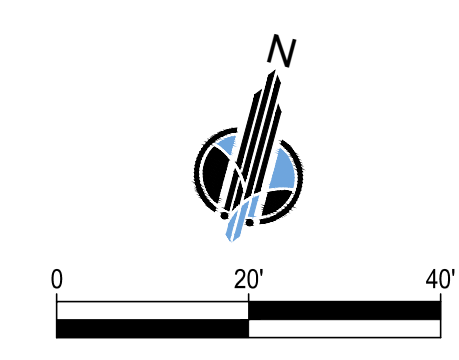


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TRAFFIC SIGNAL SYMBOLS

- TRAFFIC SIGNAL POLE AND MAST ARM
- FUTURE TRAFFIC SIGNAL MAST ARM
- PEDESTRIAN PUSH BUTTON POST ASSEMBLY
- TRAFFIC SIGNAL PEDESTAL POLE
- LUMINAIRE
- TRAFFIC SIGNAL HEAD
- TRAFFIC SIGNAL HEAD & BACKPLATE
- PEDESTRIAN SIGNAL HEAD
- PEDESTRIAN PUSH BUTTON & SIGN
- TRAFFIC SIGN
- TRAFFIC SIGNAL CONTROLLER CABINET
- PULL BOX (SIZE AS SPECIFIED)
- TRAFFIC SIGNAL CONDUIT(S)
- FIRE PREEMPTION UNIT
- GRIDSMART ADVANCED DETECTION CAMERA
- GRIDSMART DOME CAMERA
- VEHICLE DETECTION ZONE
- SERVICE METER CABINET
- MICROWAVE RADAR DETECTOR & DETECTION ZONE FOR BICYCLE DETECTION

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ISIG-04

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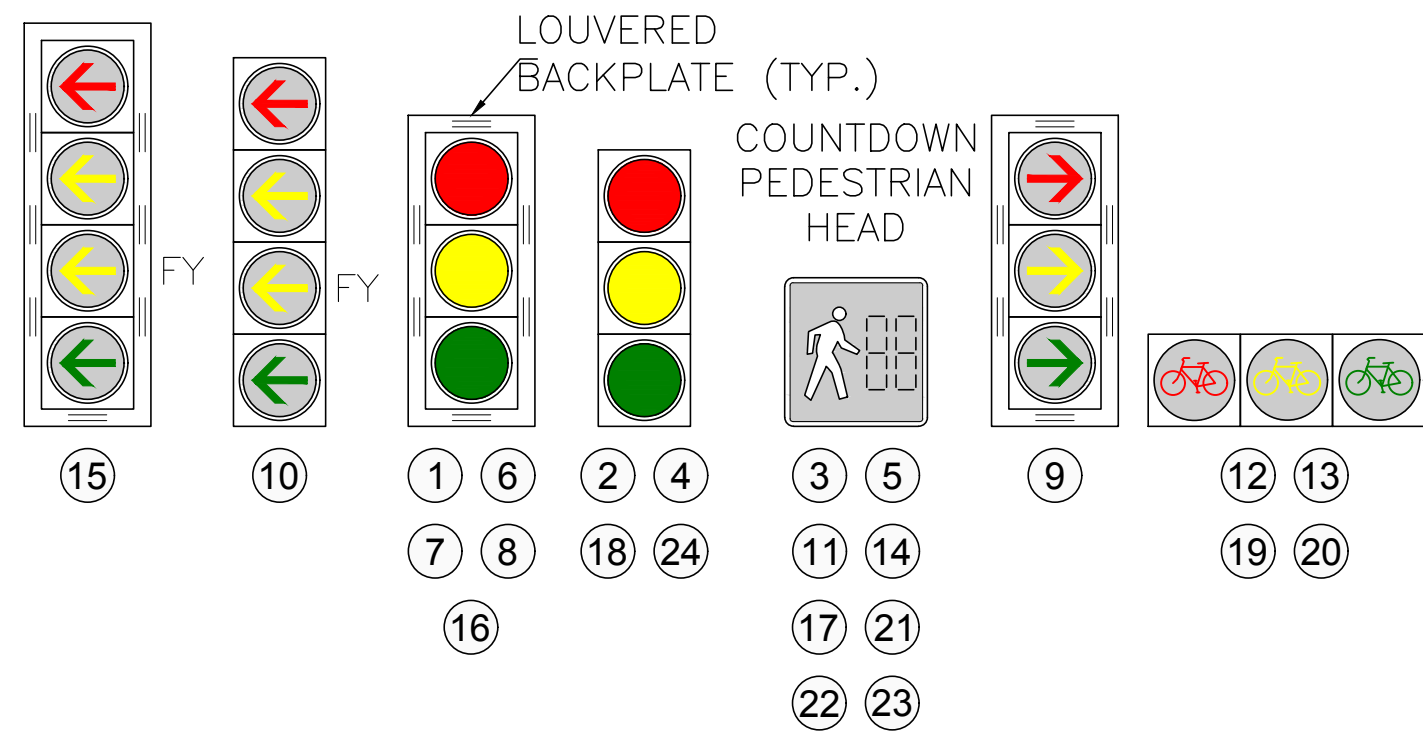
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DRAWN BY:	TCB	REV/REVISION DESCRIPTION:	
CHECKED BY:	XX	DATE:	
APPROVED BY:	XX	REV/REVISION DESCRIPTION:	
RIDGEGATE EAST FILING NO. 3 TRAFFIC SIGNAL PLANS		DATE:	
INTERIM TRAFFIC SIGNAL PLANS		REV/REVISION DESCRIPTION:	
ISSUED FOR REVIEW		DATE:	
JOB NO.:	65121240	DATE:	7/13/2023
SHEET:	47	OF	78

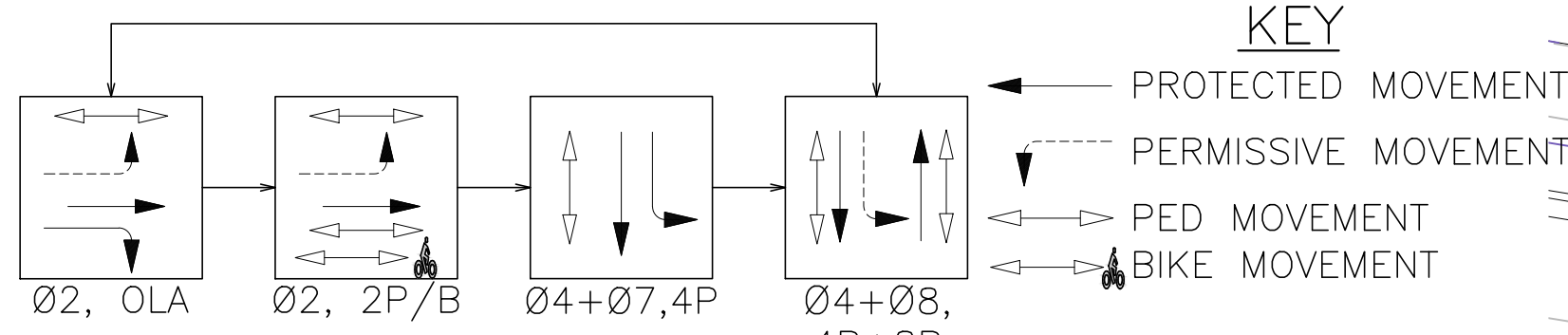
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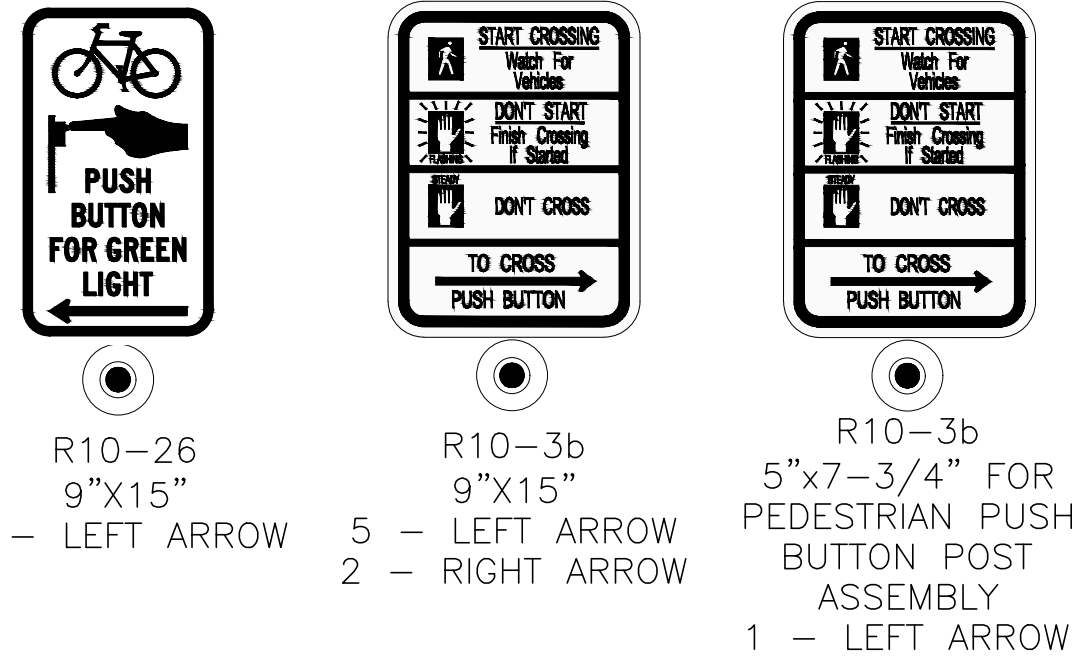
TRAFFIC SIGNAL HEADS



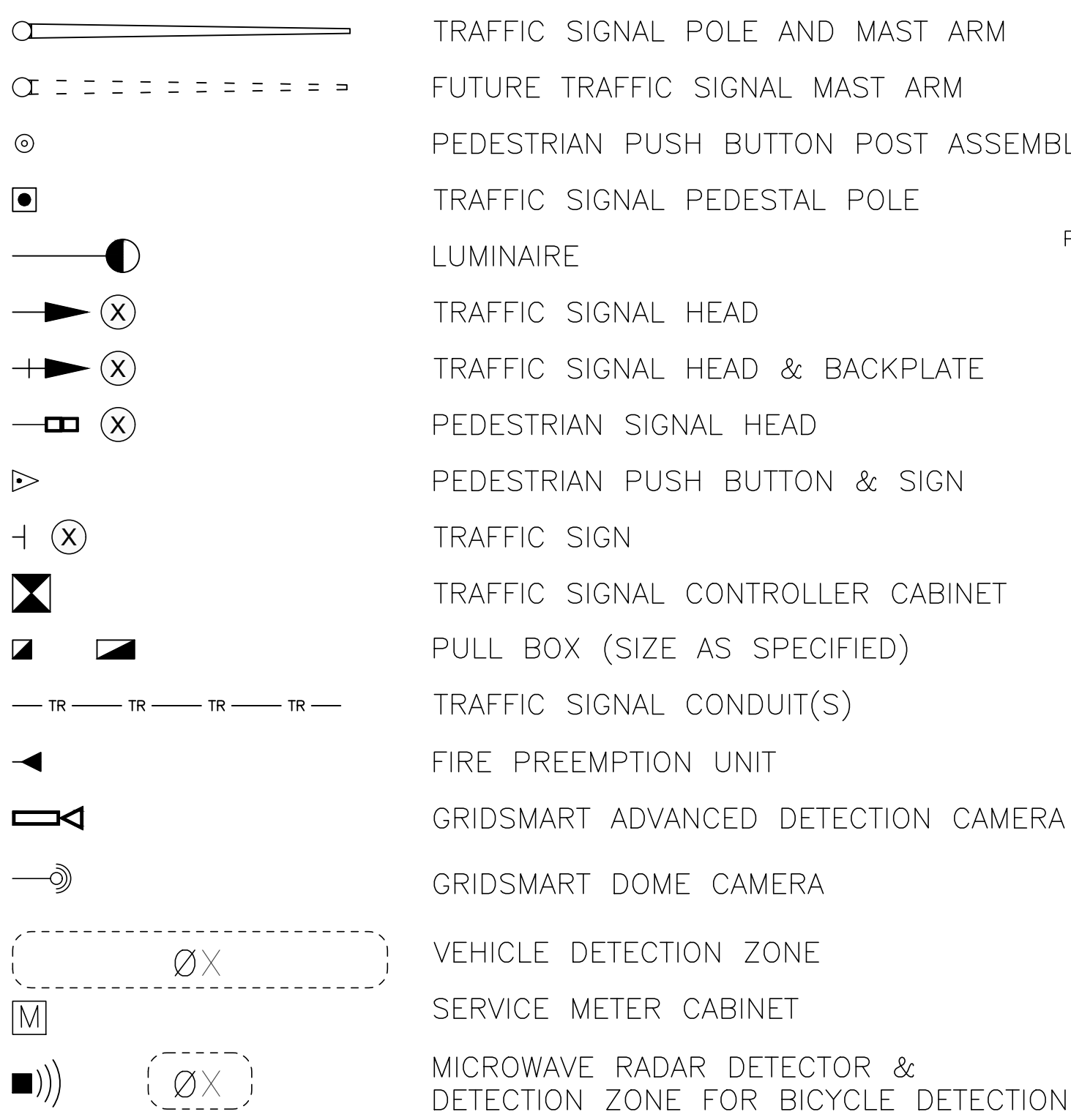
SIGNAL PHASING DIAGRAM



PEDESTRIAN AND BICYCLIST PUSH BUTTON STATIONS

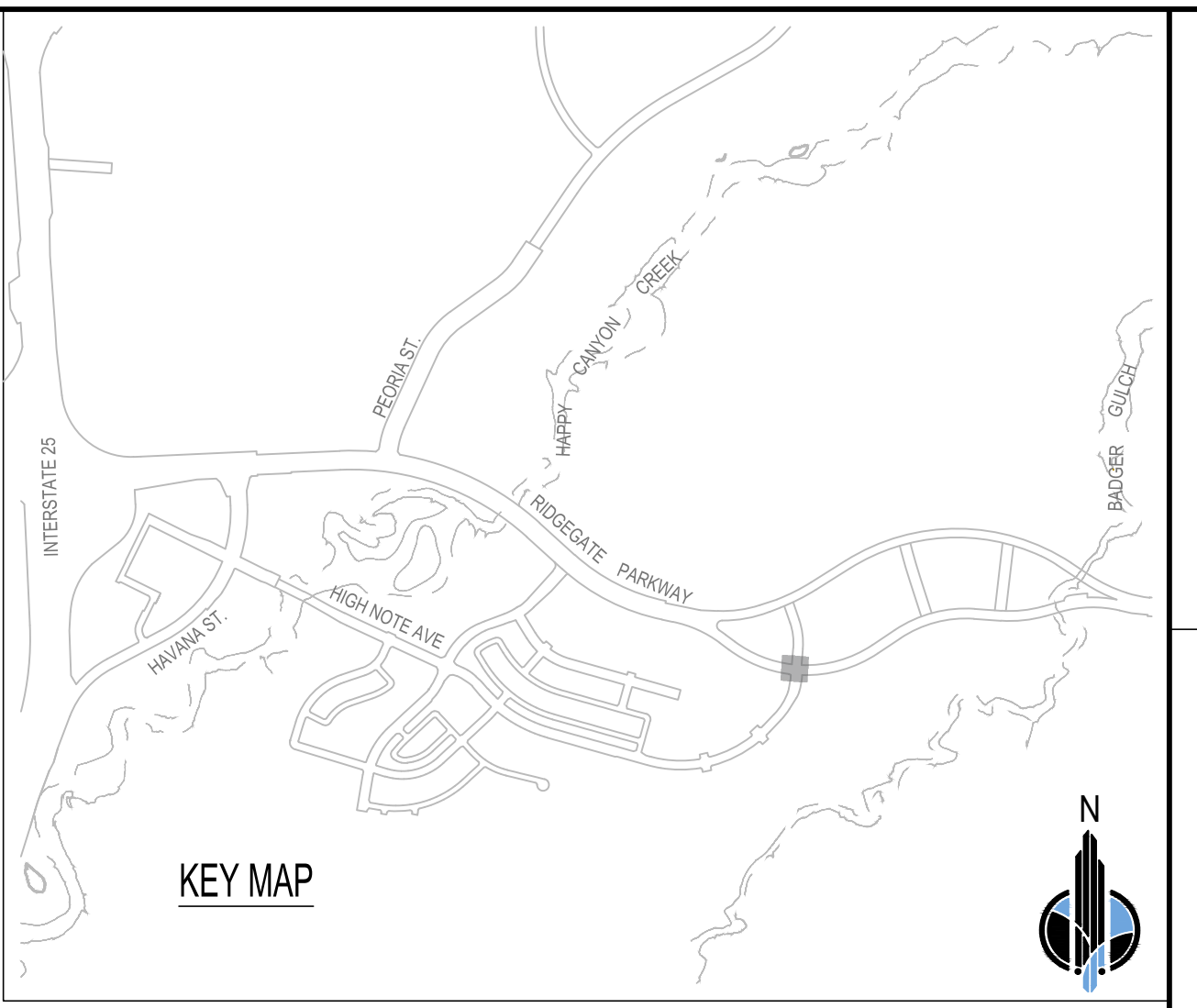
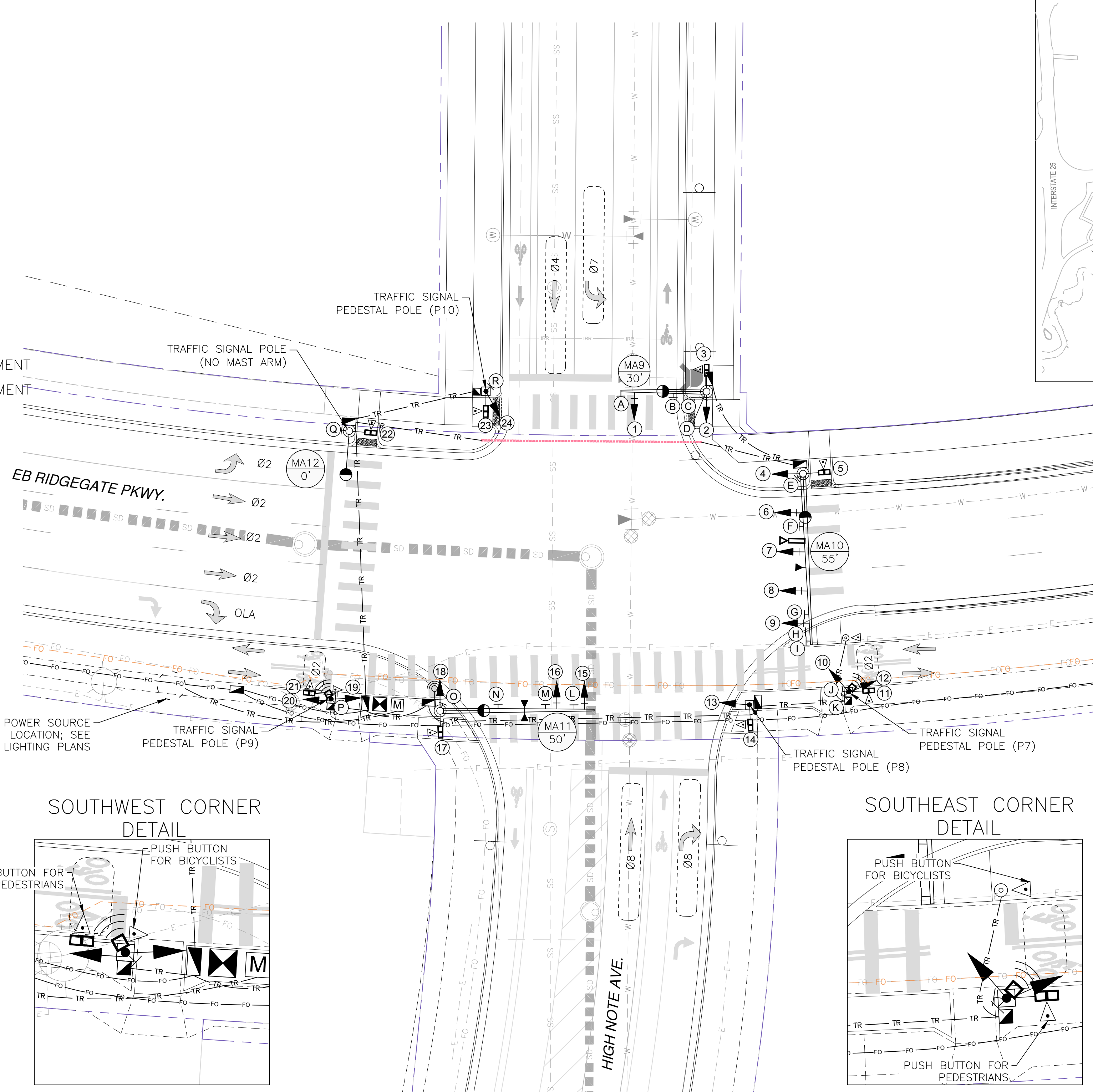


TRAFFIC SIGNAL SYMBOLS

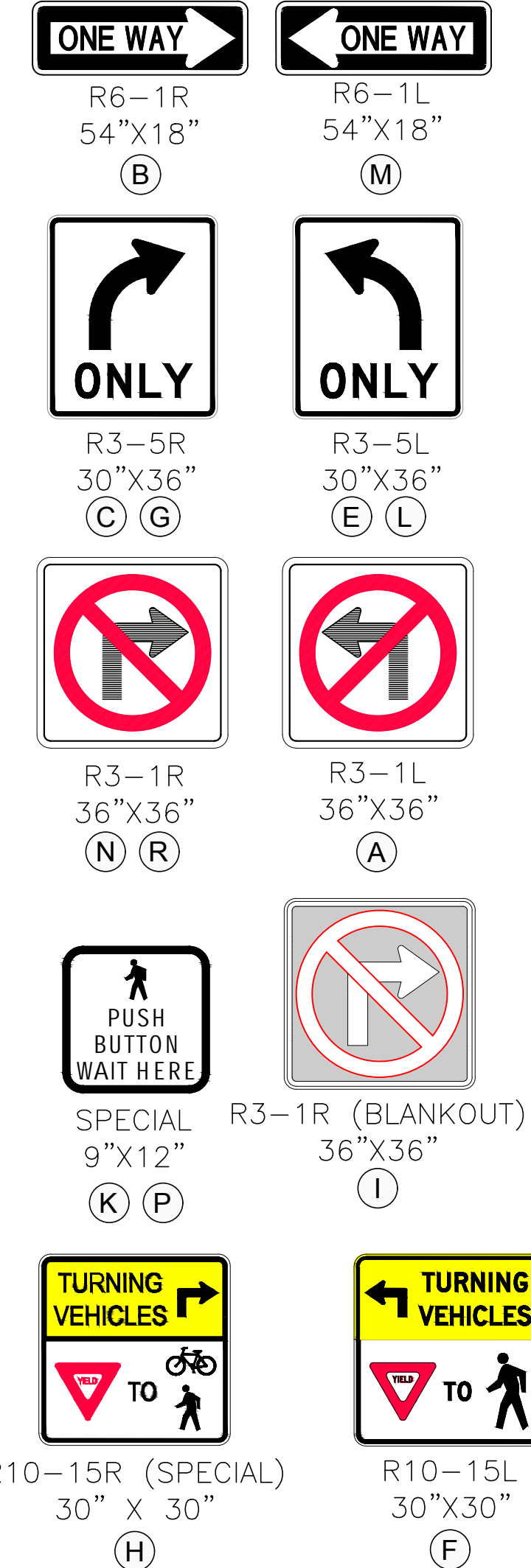


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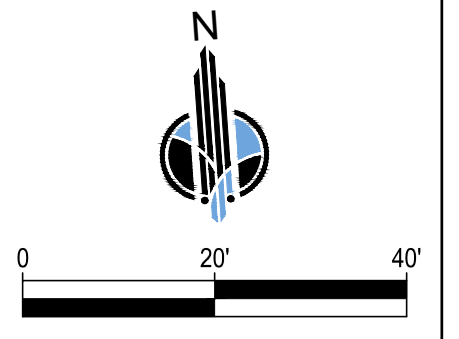
TRAFFIC SIGNS



High Note Ave
SPECIAL APPROXIMATE SIZE: 96"x18"
J Q

RidgGate Pkwy
SPECIAL APPROXIMATE SIZE: 102"x18"
D O

ISIG-05



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RIDGEGATE EAST FILING NO. 3
TRAFFIC SIGNAL PLANS

INTERIM TRAFFIC SIGNAL PLANS

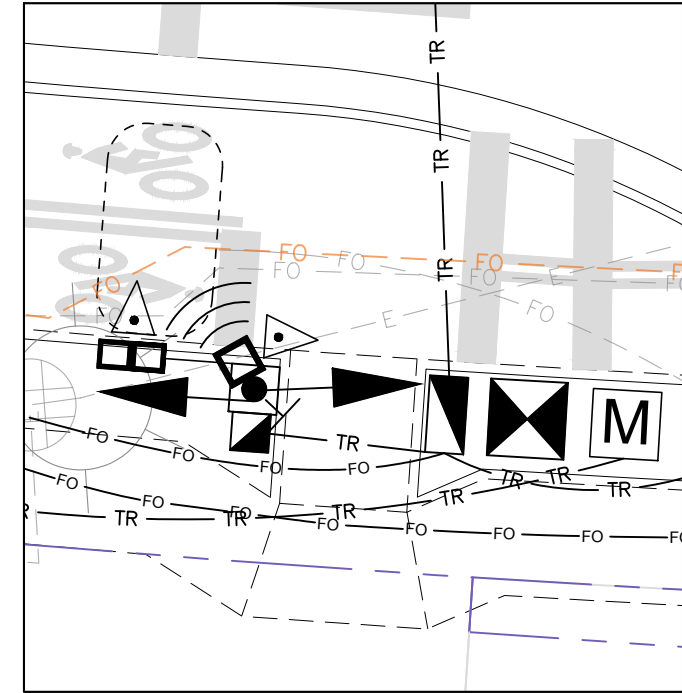
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JOB NO.: 65121240
DATE: 7/13/2023
SHEET: 48 OF 78

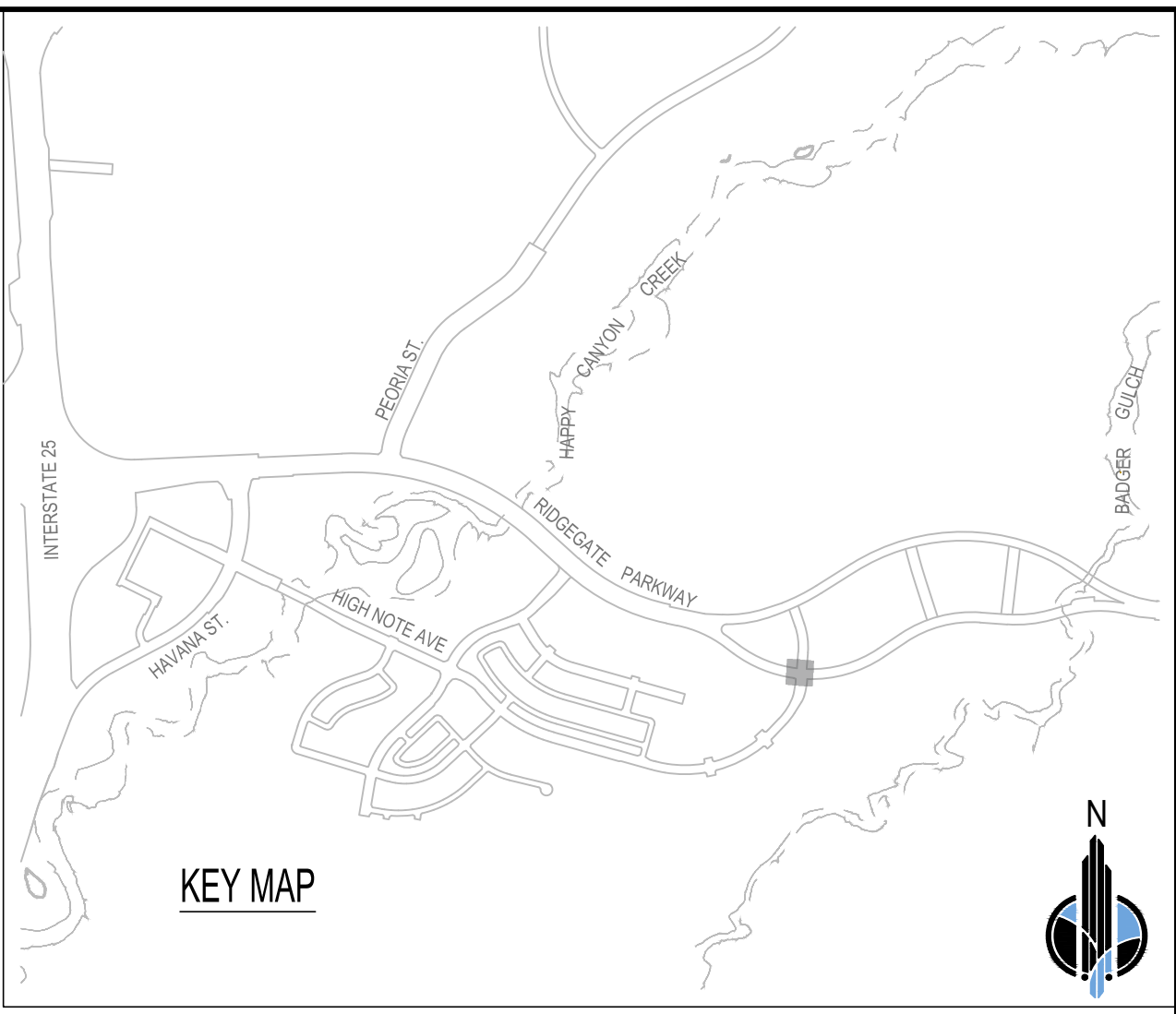
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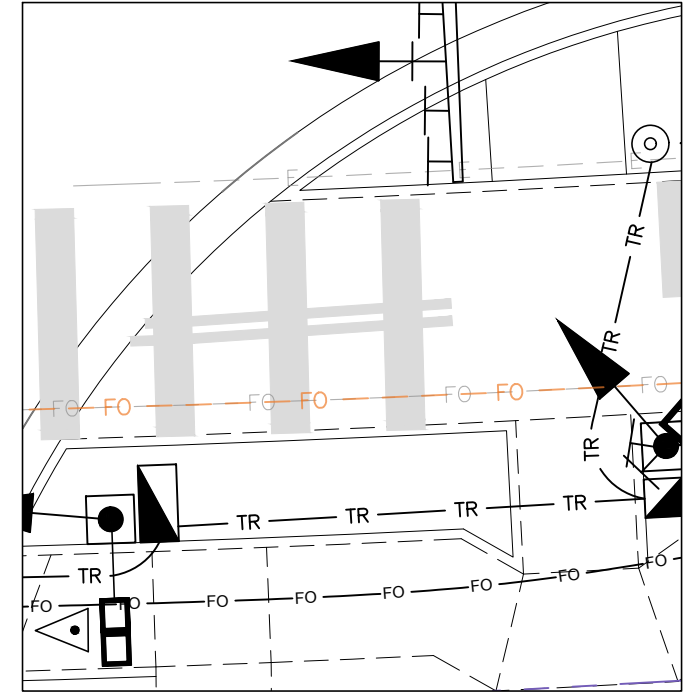
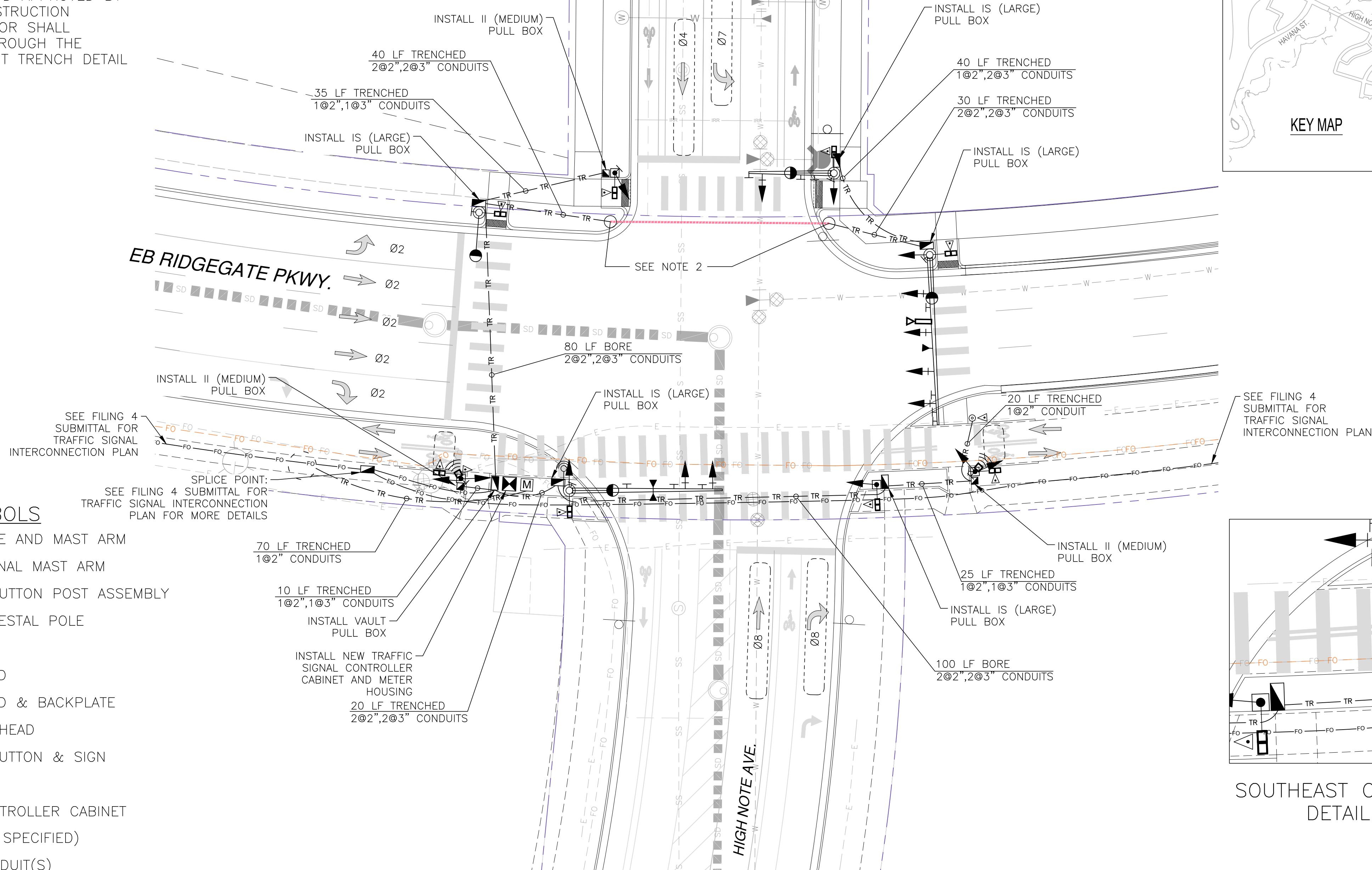
- NOTES:
- CONDUIT LENGTHS REPRESENT THE HORIZONTAL DISTANCE BETWEEN PULL BOXES AND/OR OTHER TRAFFIC SIGNAL INFRASTRUCTURE. QUANTITY ESTIMATES IN THE SUMMARY OF APPROXIMATE QUANTITIES INCLUDE THE NUMBER/SIZE OF CONDUITS, VERTICAL CONDUIT LENGTHS AT THE PULL BOXES/INFRASTRUCTURE AND AN ADDITIONAL 5% FOR HORIZONTAL AND VERTICAL PATHWAY ALLOWANCE.
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SOUTHWEST CORNER
DETAIL



KEY MAP



SOUTHEAST CORNER
DETAIL

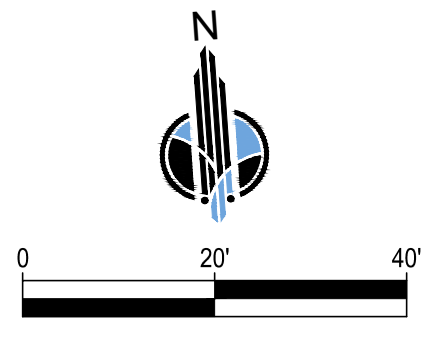
TRAFFIC SIGNAL SYMBOLS

- TRAFFIC SIGNAL POLE AND MAST ARM
- FUTURE TRAFFIC SIGNAL MAST ARM
- PEDESTRIAN PUSH BUTTON POST ASSEMBLY
- TRAFFIC SIGNAL PEDESTAL POLE
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- TRAFFIC SIGNAL HEAD
- TRAFFIC SIGNAL HEAD & BACKPLATE
- PEDESTRIAN SIGNAL HEAD
- PEDESTRIAN PUSH BUTTON & SIGN
- TRAFFIC SIGN
- TRAFFIC SIGNAL CONTROLLER CABINET
- PULL BOX (SIZE AS SPECIFIED)
- TRAFFIC SIGNAL CONDUIT(S)
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- GRIDSMART DOME CAMERA
- VEHICLE DETECTION ZONE
- SERVICE METER CABINET
- MICROWAVE RADAR DETECTOR & DETECTION ZONE FOR BICYCLE DETECTION



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ISIG-06

City of Lone Tree

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Engineering Division Acceptance Block

DESIGN BY:	RRF
DRAWN BY:	TCB
CHECKED BY:	XX
APPROVED BY:	XX

RIDGEGATE EAST FILING NO. 3
TRAFFIC SIGNAL PLANS

INTERIM TRAFFIC
SIGNAL PLANS

ISSUED FOR REVIEW

JOB NO.:	65121240
DATE:	7/13/2023
SHEET:	49 OF 78

REV	REVISION DESCRIPTION	DATE	DRW/CHKD/APPR

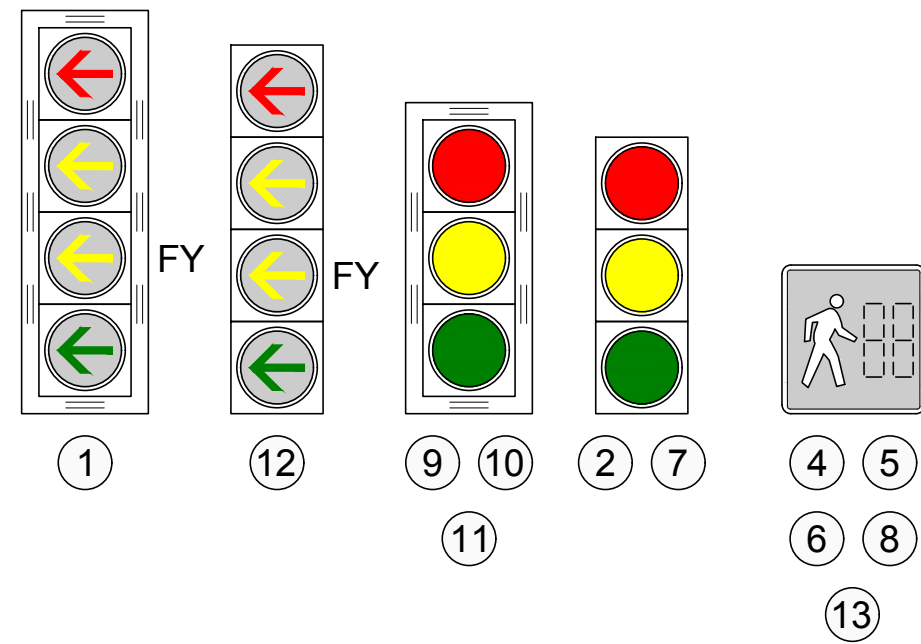
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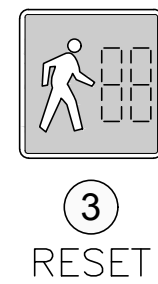
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EXISTING TRAFFIC SIGNAL HEADS TO REMAIN

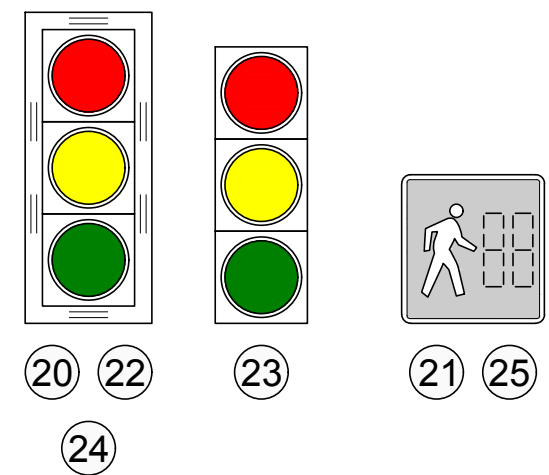


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EXISTING TRAFFIC SIGNAL HEADS TO BE REMOVED OR RESET



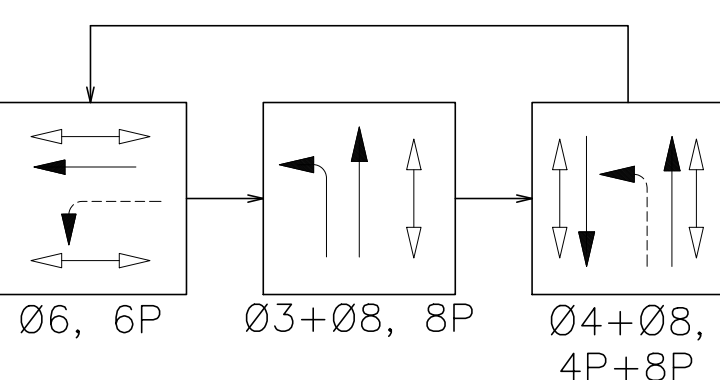
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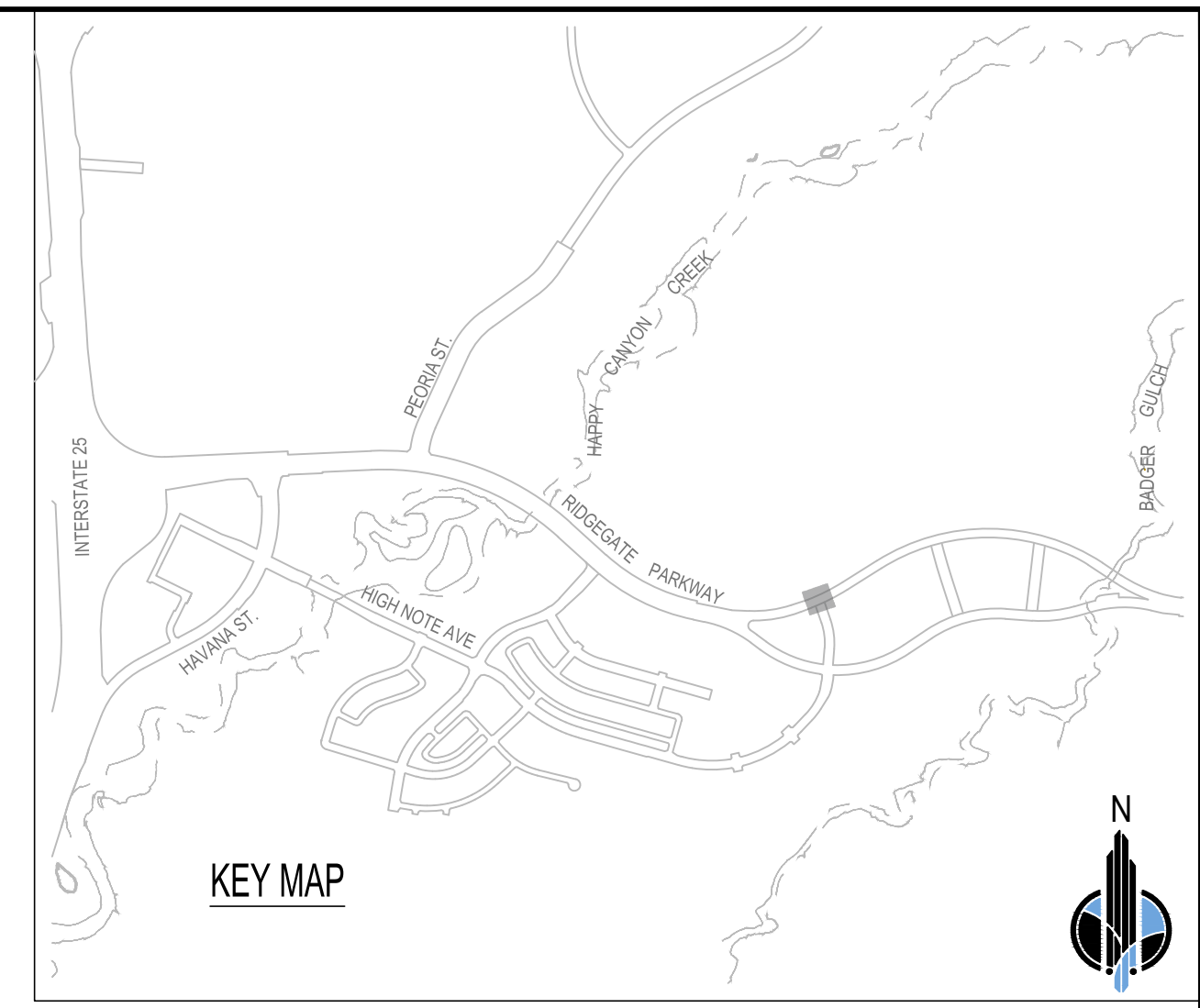
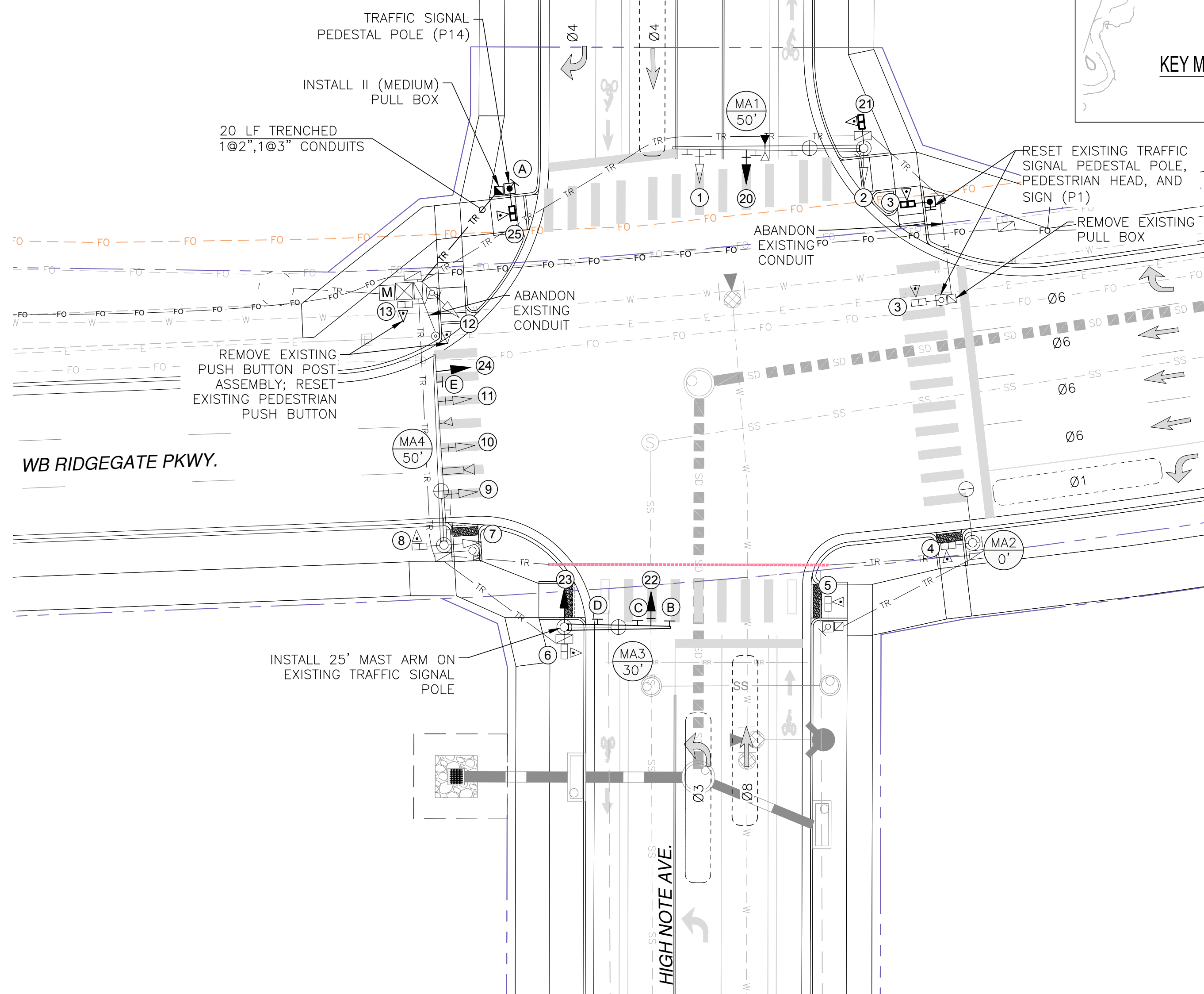
TRAFFIC SIGNAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		TRAFFIC SIGNAL POLE AND MAST ARM
		FUTURE TRAFFIC SIGNAL MAST ARM
		PEDESTRIAN PUSH BUTTON POST ASSEMBLY
		TRAFFIC SIGNAL PEDESTAL POLE
		LUMINAIRE
		TRAFFIC SIGNAL HEAD
		TRAFFIC SIGNAL HEAD & BACKPLATE
		PEDESTRIAN SIGNAL HEAD
		PEDESTRIAN PUSH BUTTON & SIGN
		TRAFFIC SIGN
		TRAFFIC SIGNAL CONTROLLER CABINET
		PULL BOX (SIZE AS SPECIFIED)
		TRAFFIC SIGNAL CONDUIT(S)
		FIRE PREEMPTION UNIT
		GRIDSART ADVANCED DETECTION CAMERA
		GRIDSART DOME CAMERA
		VEHICLE DETECTION ZONE
		SERVICE METER CABINET
		MICROWAVE RADAR DETECTOR & DETECTION ZONE FOR BICYCLE DETECTION

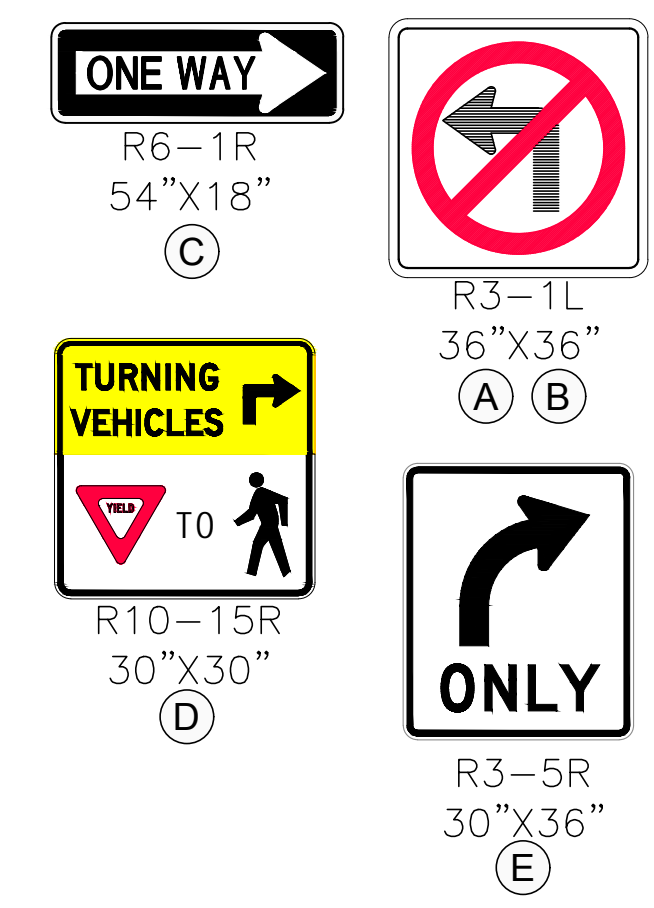
SIGNAL PHASING DIAGRAM



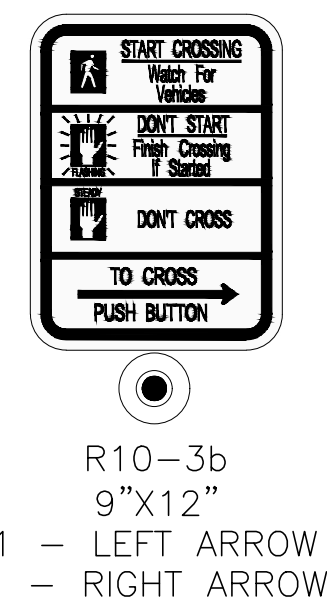
KEY



TRAFFIC SIGNS



PEDESTRIAN PUSH BUTTON STATIONS



FSIG-01

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 Engineering Division Acceptance Block

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ISSUED FOR REVIEW

REV	REVISION DESCRIPTION	DATE	DRWN/CHKD/APPR

DESIGN BY: RRF	DRAWN BY: TCB	CHECKED BY: XX	APPROVED BY: XX
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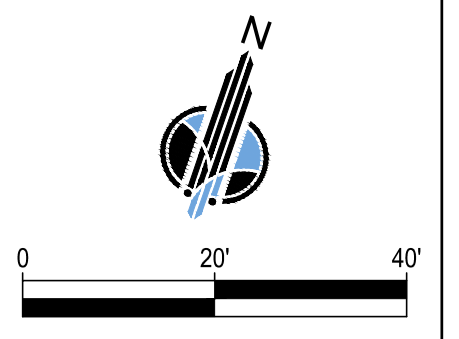
RIDGEGATE EAST FILING NO. 3
 TRAFFIC SIGNAL PLANS

FINAL TRAFFIC
 SIGNAL PLANS

JOB NO.: 65121240	DATE: 7/13/2023	SHEET: 52 OF 78
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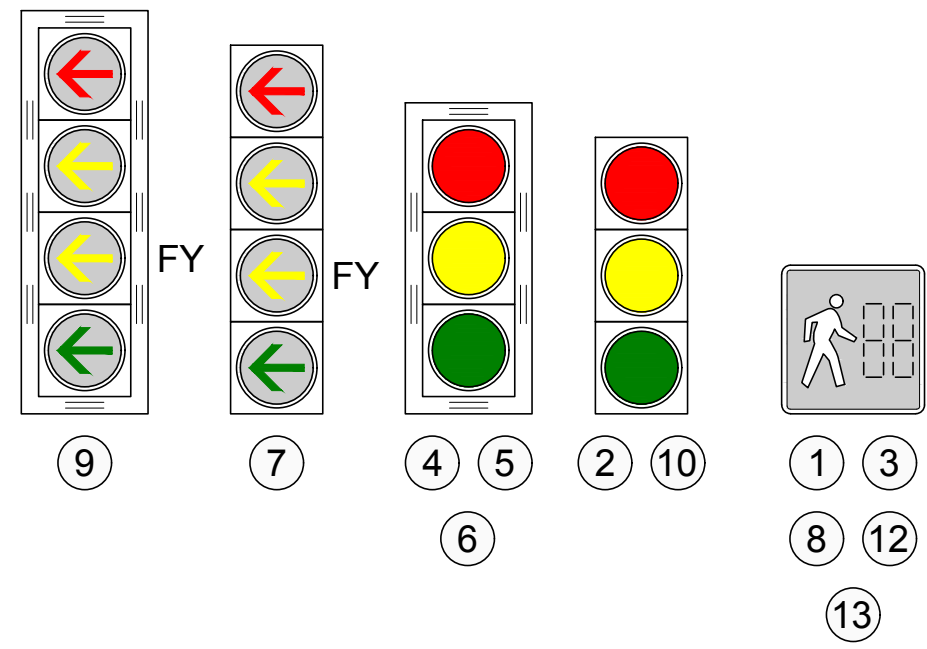
LANE USE ARROWS ARE SHOWN FOR INFORMATION ONLY



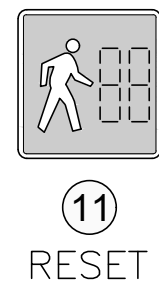
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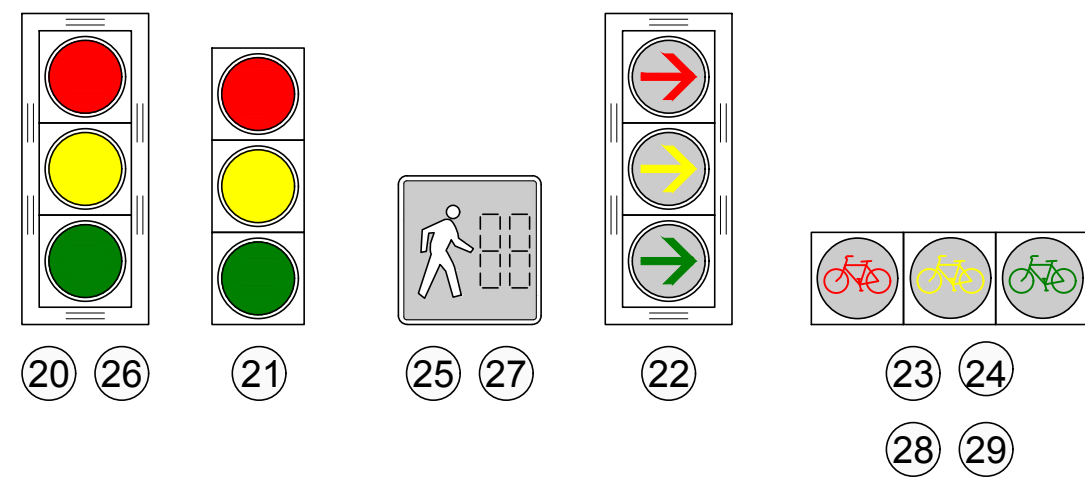
EXISTING TRAFFIC SIGNAL HEADS TO REMAIN



EXISTING TRAFFIC SIGNAL HEADS TO BE REMOVED OR RESET



NEW TRAFFIC SIGNAL HEADS

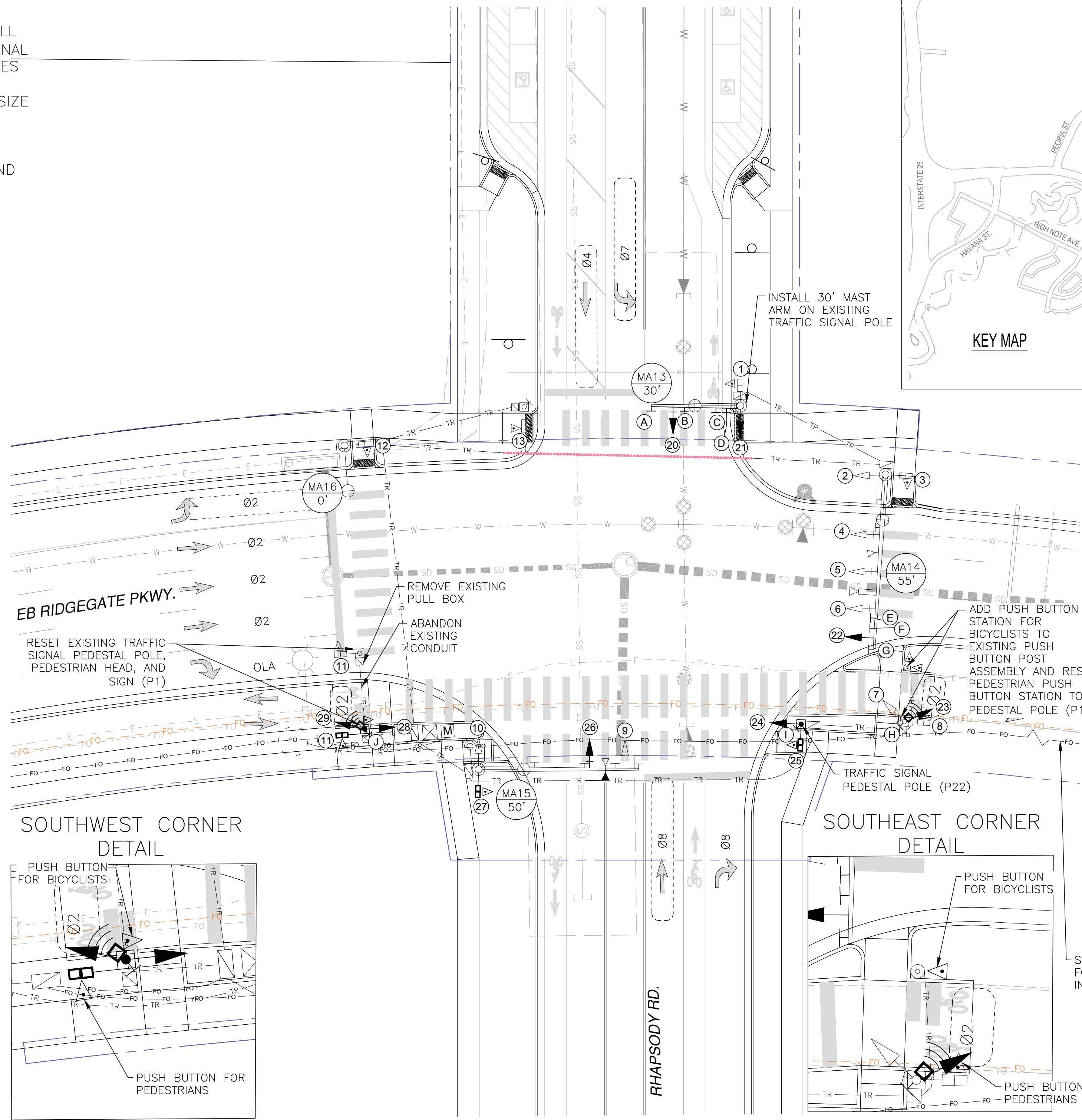


TRAFFIC SIGNAL SYMBOLS

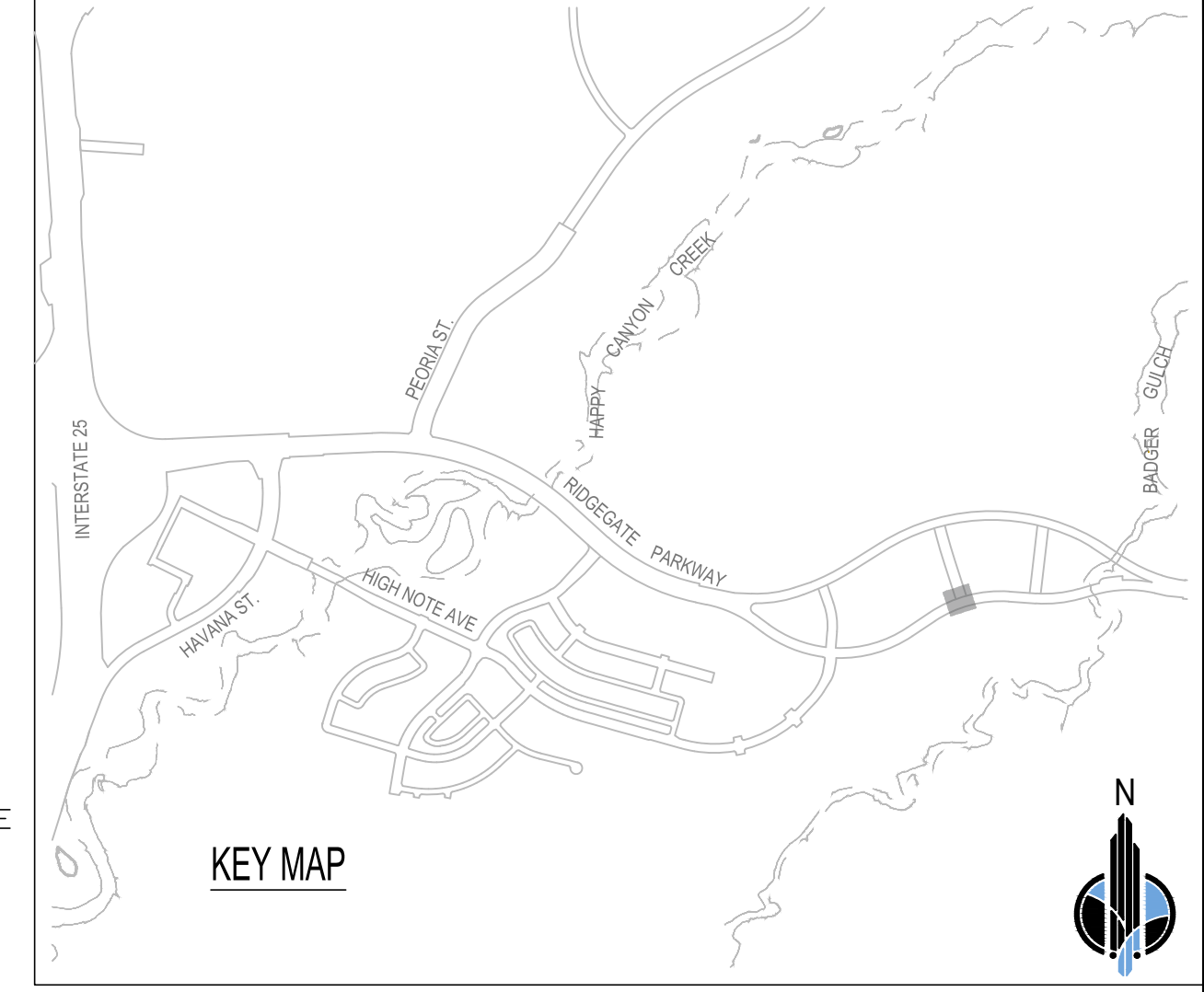
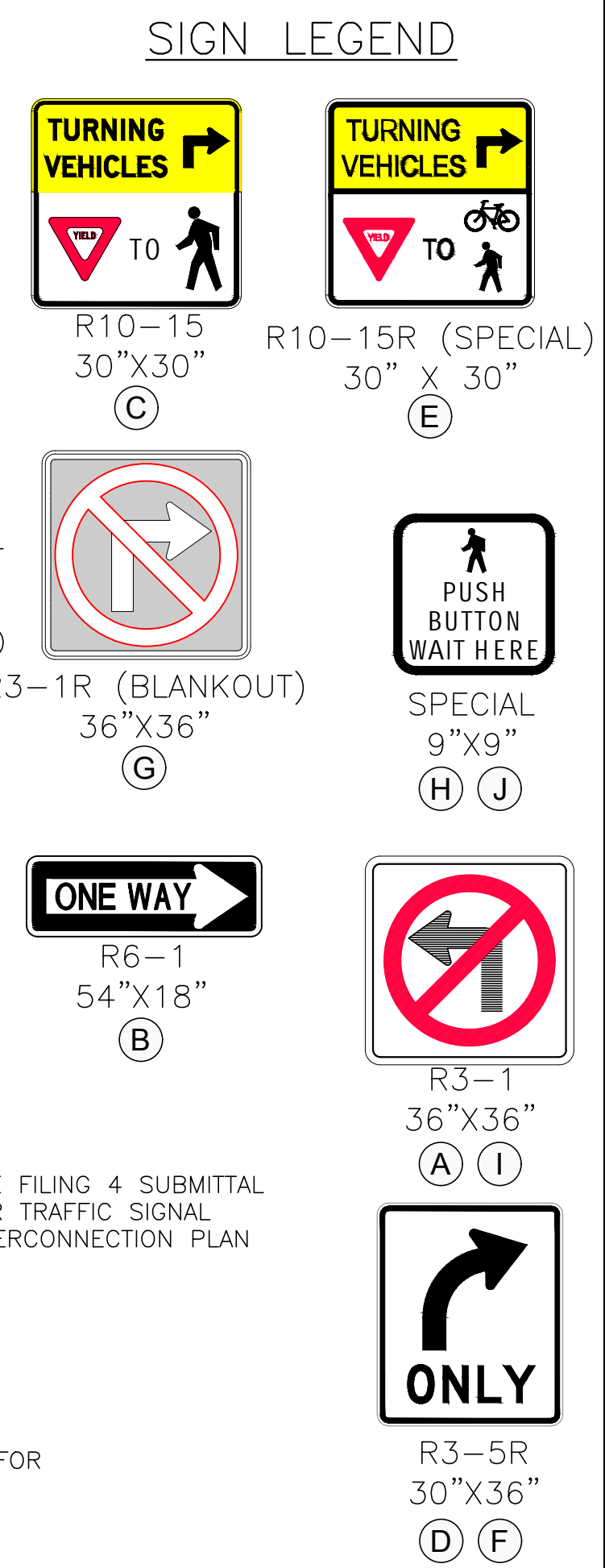
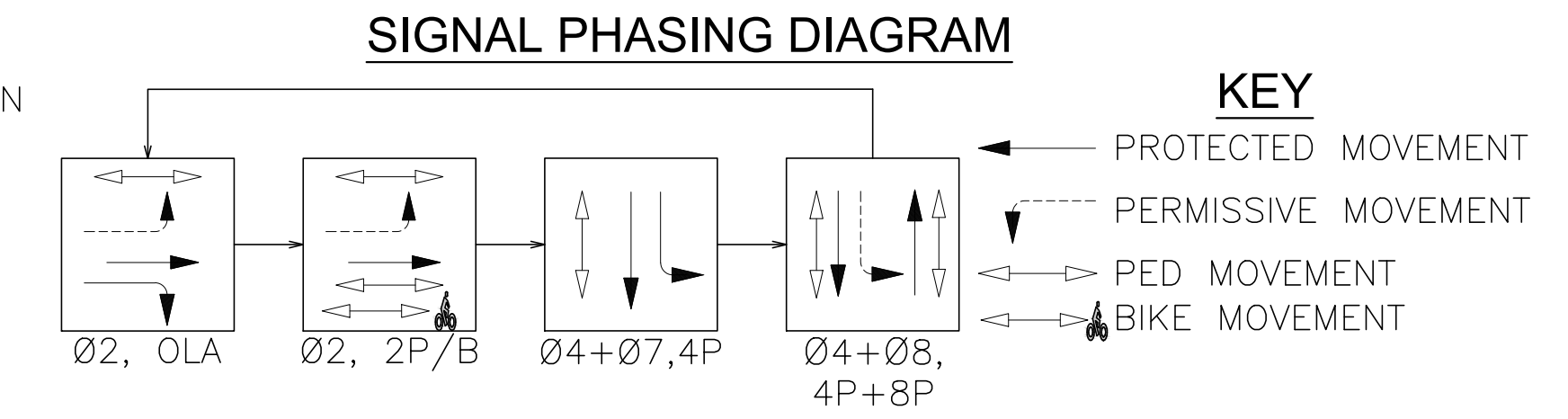
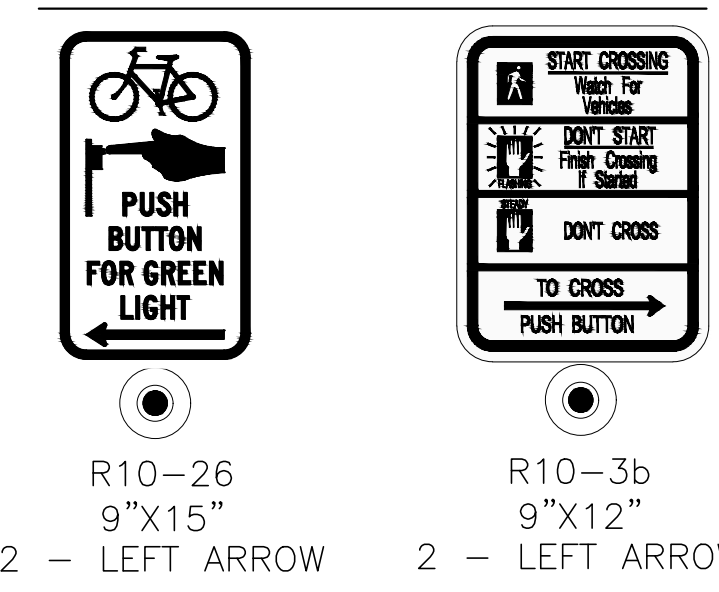
EXISTING	PROPOSED	DESCRIPTION
		TRAFFIC SIGNAL POLE AND MAST ARM
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		PEDESTRIAN PUSH BUTTON POST ASSEMBLY
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PEDESTRIAN AND BICYCLIST PUSH BUTTON STATIONS



DESIGN BY: RRF
DRAWN BY: TCB
CHECKED BY: XX
APPROVED BY: XX

DATE: 7/13/2023

REV. REVISION DESCRIPTION

DATE

DRWING/CHKD/APPR

RIDGEGATE EAST FILING NO. 3
TRAFFIC SIGNAL PLANS

FINAL TRAFFIC
SIGNAL PLANS

JOB NO.: 65121240

DATE: 7/13/2023

SHEET: 54 OF 78

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FSIG-03

City of Lone Tree

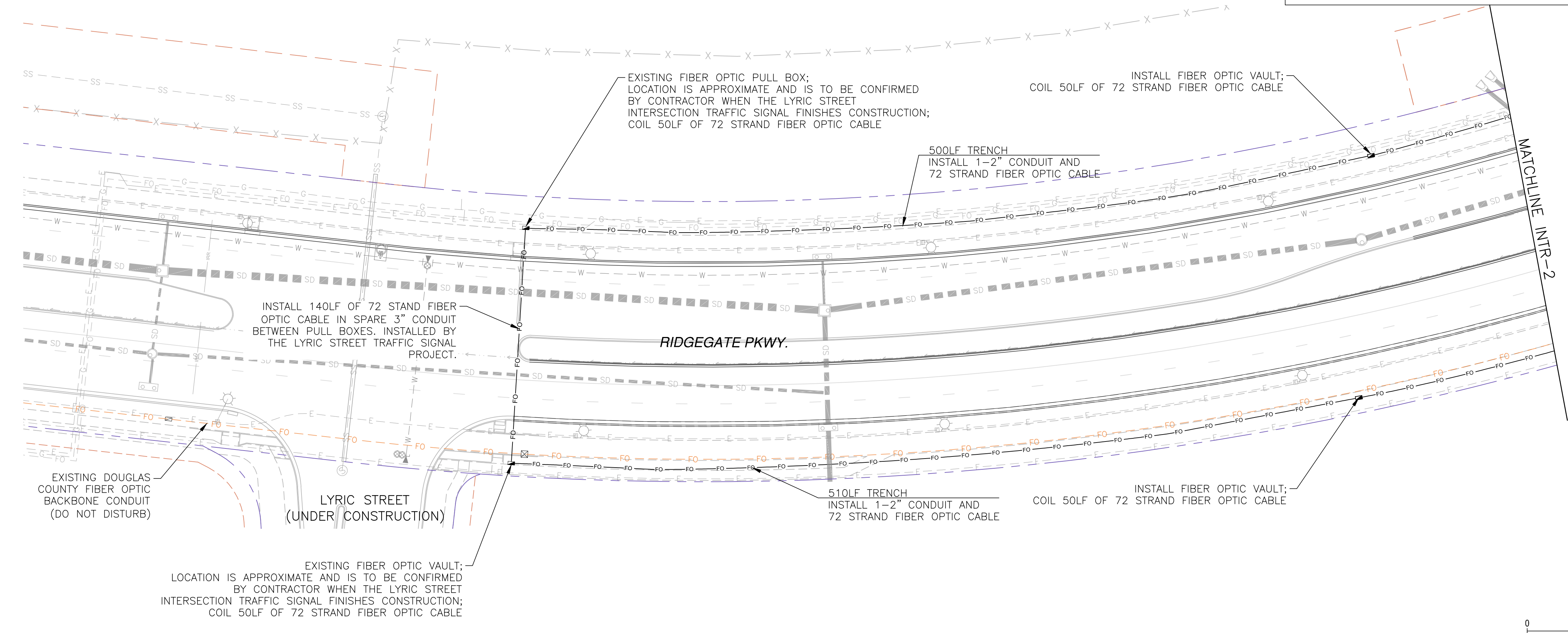
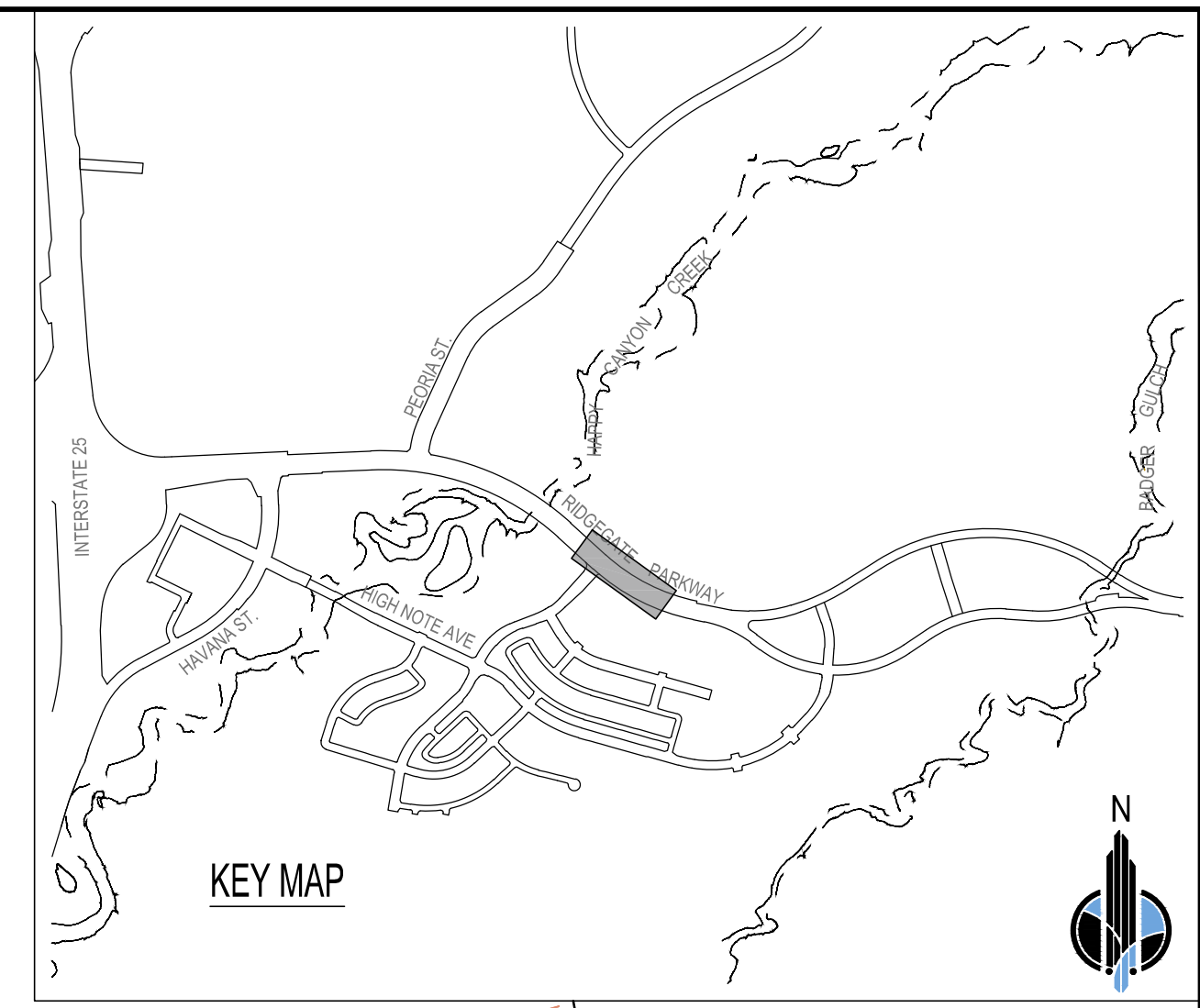
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Engineering Division Acceptance Block

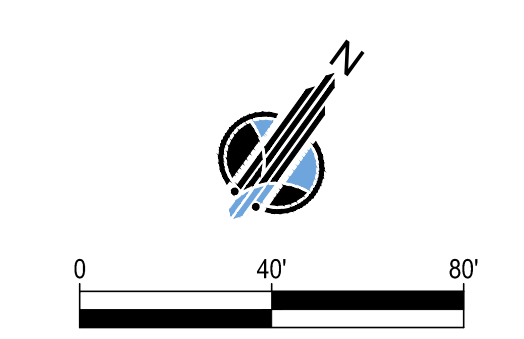
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File Location: I:\122093-01_RidgeGate_Couplet_Signal_Designs\CADD\Traffic_JTS\Drawings\122093-01\INTERCONNECT.dwg Plot Date: 2/22/2023 12:31 PM Last Saved By: THOMAS BRIGHTWELL

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INTR-1



LEGEND

	EXISTING PULL BOX
	NEW PULL BOX
	EXISTING FIBER OPTIC CABLE AND CONDUIT
	NEW FIBER OPTIC CABLE AND CONDUIT

NOTE: CONDUIT LENGTHS REPRESENT THE HORIZONTAL DISTANCE BETWEEN PULL BOXES AND/OR OTHER TRAFFIC SIGNAL INFRASTRUCTURE. QUANTITY ESTIMATES IN THE SUMMARY OF APPROXIMATE QUANTITIES INCLUDE THE NUMBER/SIZE OF CONDUITS, VERTICAL CONDUIT LENGTHS AT THE PULL BOXES/INFRASTRUCTURE AND AN ADDITIONAL 5% FOR HORIZONTAL AND VERTICAL PATHWAY ALLOWANCE.

SHEET NOTES:

- SEE TRAFFIC SIGNAL DESIGN SHEETS ISIG-01 TO ISIG-08 FOR DETAILS ON INTERSECTION PULL BOXES AND CONDUIT.
- THE CONTRACTOR SHALL SPLICE THE NEW FIBER OPTIC CABLES PER FIBER OPTIC CABLE SPLICING DETAIL SPL-01.
- BEFORE ANY COMMUNICATIONS CONDUIT OR FIBER OPTIC WORK BEGINS, CONTRACTOR SHALL PROVIDE INFORMATION INCLUDED IN SIGNAL EQUIPMENT GENERAL NOTE NO. 17.

THE INFORMATION SHOWN ON THIS DRAWING, CONCERNING THE TYPE AND LOCATION OF UTILITIES, IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE TYPE AND LOCATION OF ALL UTILITIES AS NECESSARY TO AVOID DAMAGE THERETO.

City of Lone Tree

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Engineering Division Acceptance Block

DESIGN BY:	RRF	DATE	REV	REVISION DESCRIPTION	DATE	DRW/CHECK/APPR
DRAWN BY:	TCB					
CHECKED BY:	XX					
APPROVED BY:	XX					

RIDGEGATE EAST FILING NO. 3
TRAFFIC SIGNAL PLANS
INTERCONNECTION PLAN

ISSUED FOR REVIEW

JOB NO.: 65121240
DATE: 7/13/2023
SHEET: 55 OF 78

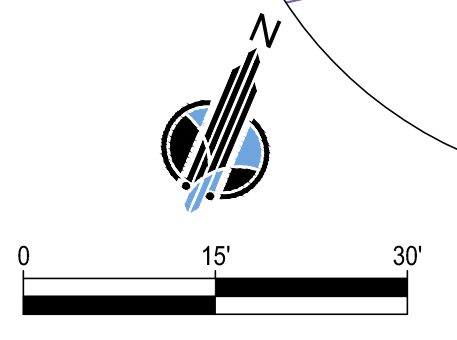
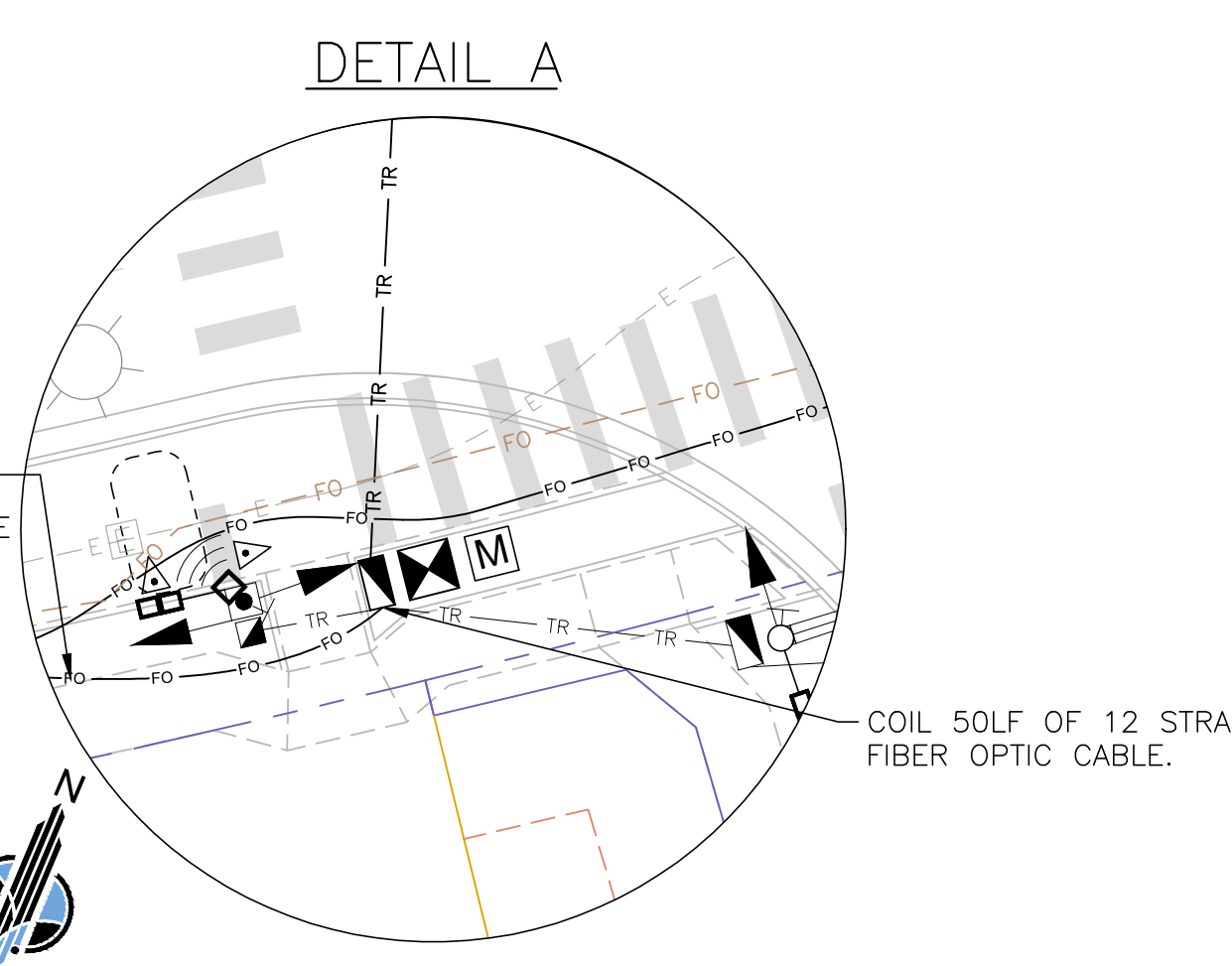
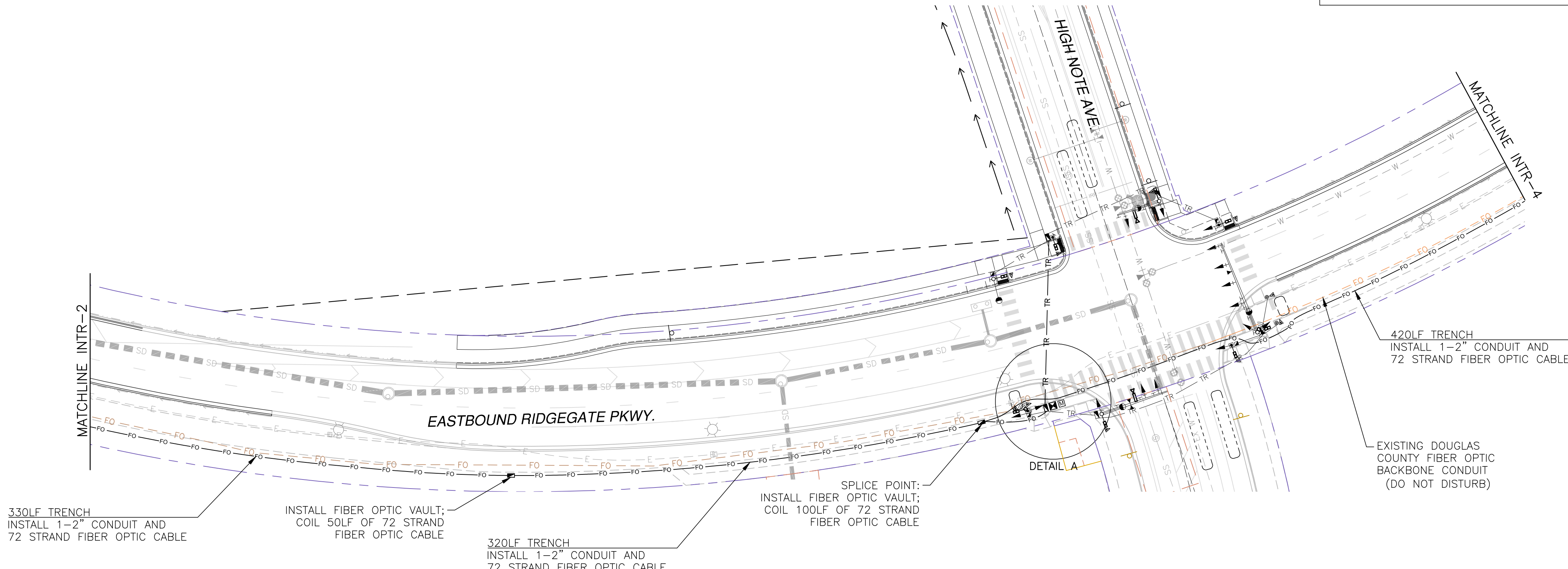


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SHEET NOTES:

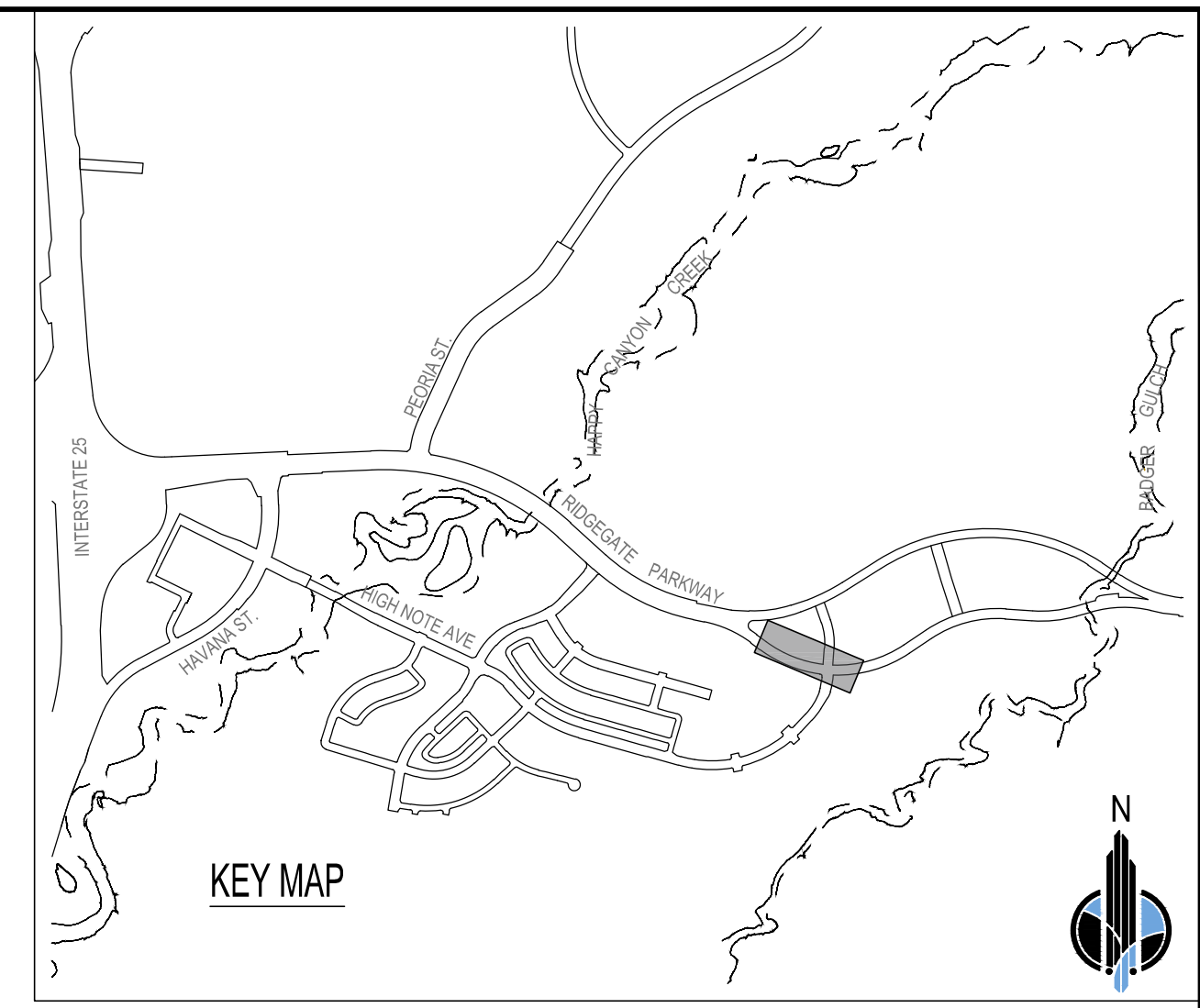
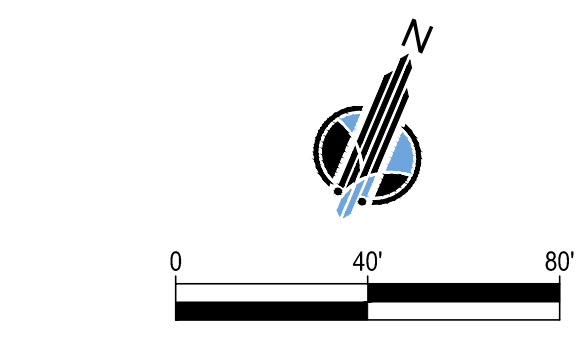
1. SEE TRAFFIC SIGNAL DESIGN SHEETS ISIG-01 TO ISIG-08 FOR DETAILS ON INTERSECTION PULL BOXES AND CONDUIT.
2. THE CONTRACTOR SHALL SPLICE THE NEW FIBER OPTIC CABLES PER FIBER OPTIC CABLE SPLICING DETAIL SPL-01.
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INTR-3

LEGEND

	EXISTING PULL BOX
	NEW PULL BOX
	EXISTING FIBER OPTIC CABLE AND CONDUIT
	NEW FIBER OPTIC CABLE AND CONDUIT



DESIGN BY:	RF#	DATE	REV	DESCRIPTION	CHKD	APPR
TBC						
XX						
XX						

RIDGEGATE EAST FILING NO. 3
TRAFFIC SIGNAL PLANS
INTERCONNECTION PLAN

ISSUED FOR REVIEW

City of Lone Tree

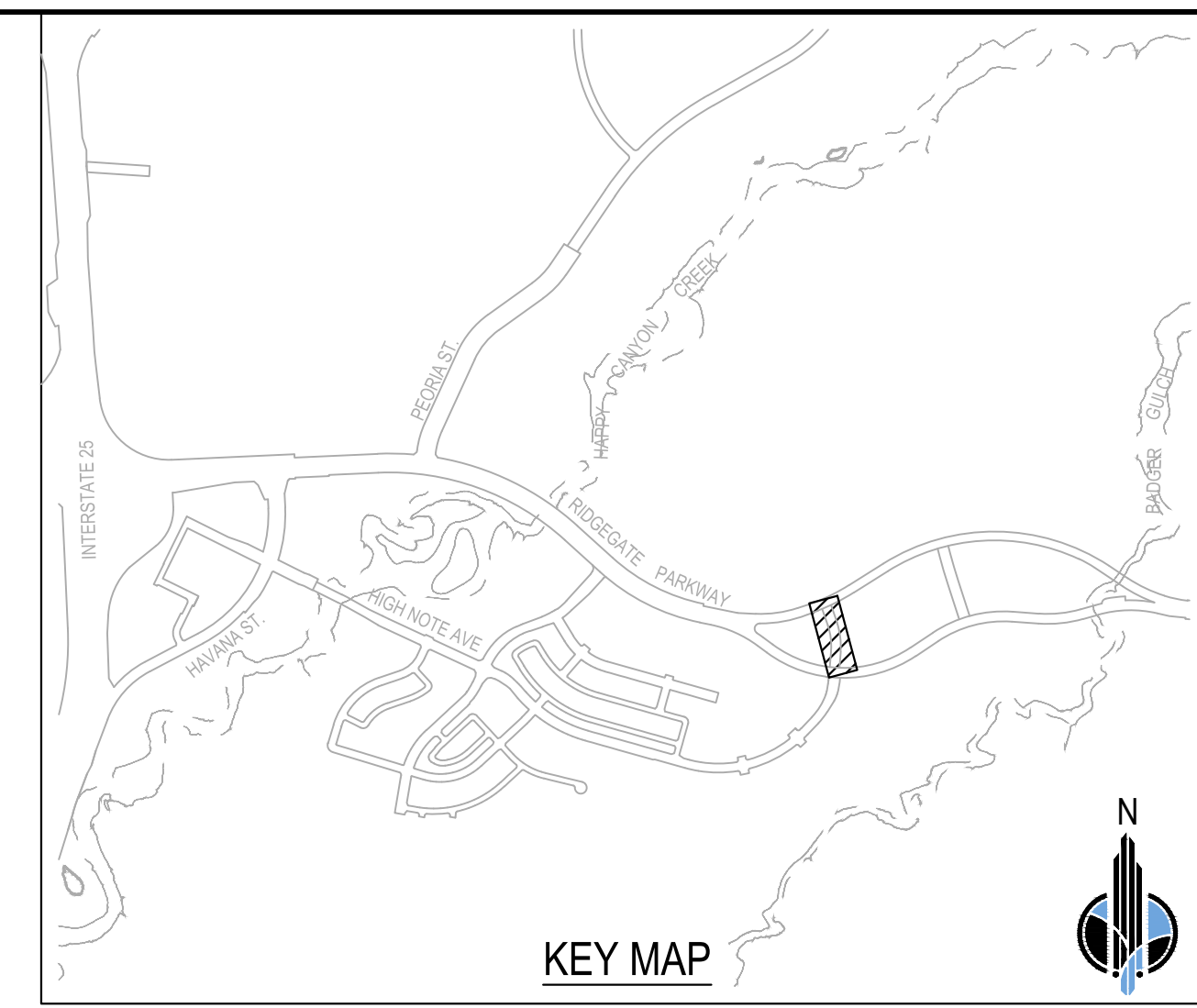
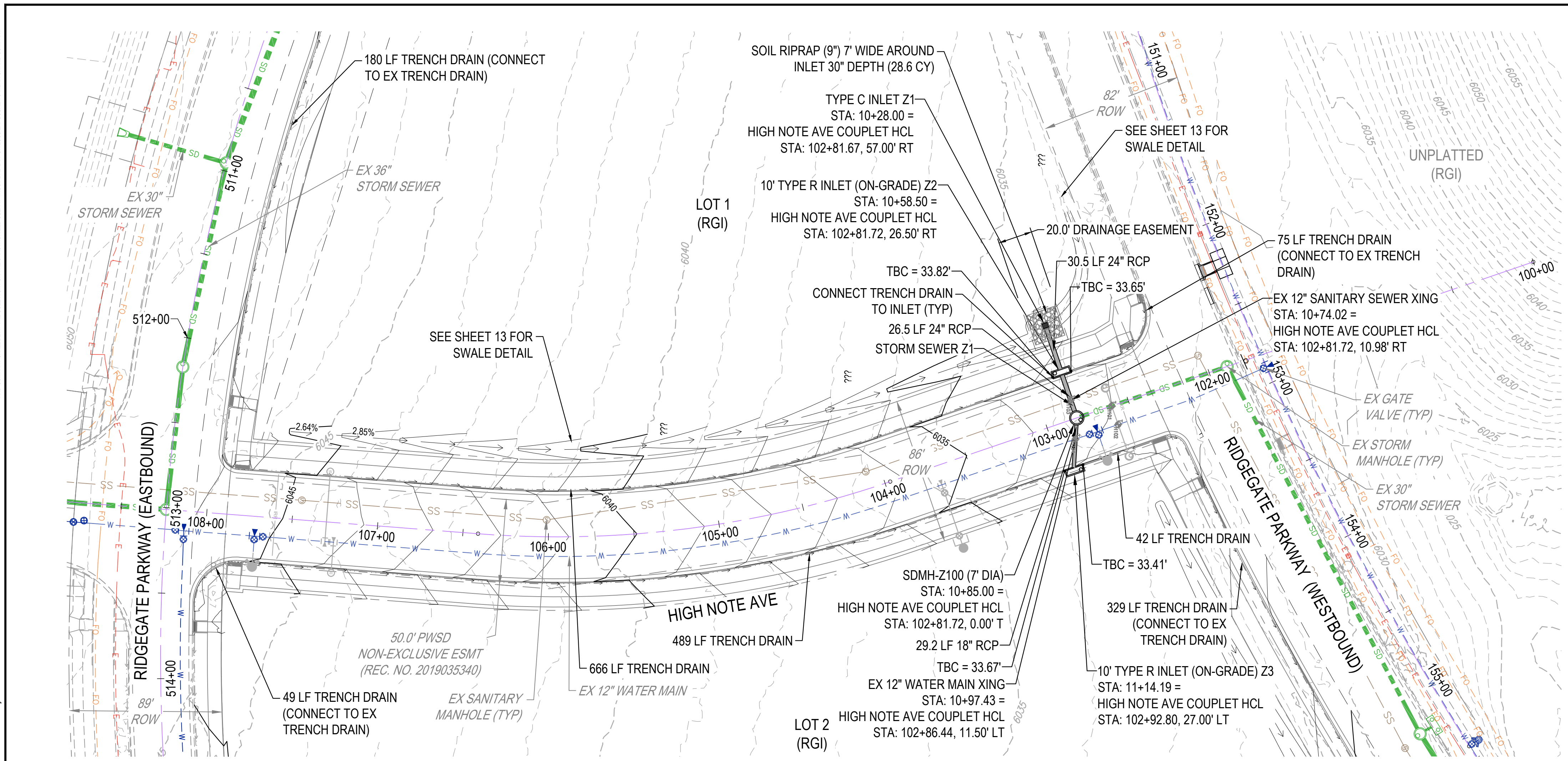
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Engineering Division Acceptance Block

JOB NO.: 65121240
DATE: 7/13/2023
SHEET: 57 OF 78

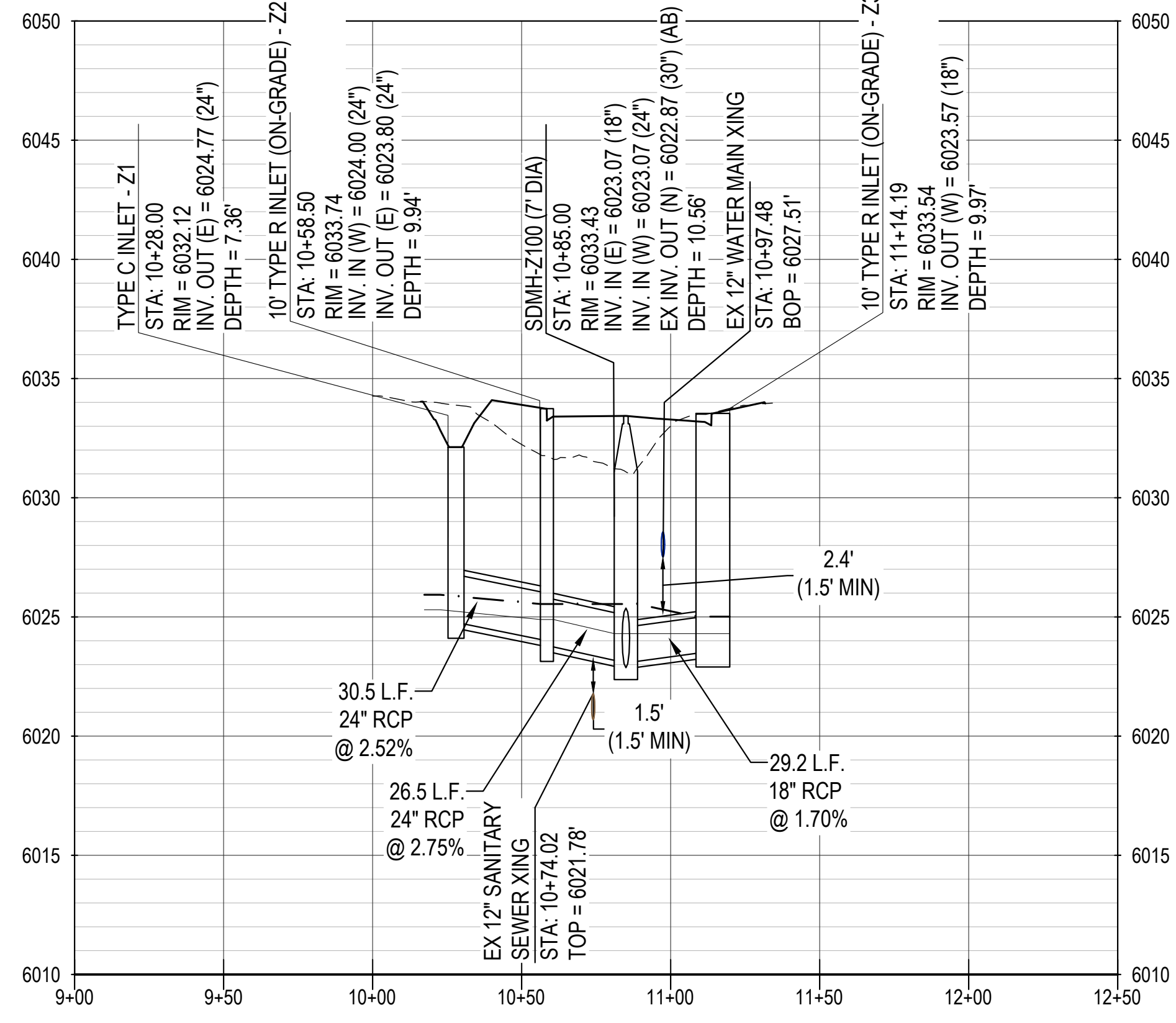
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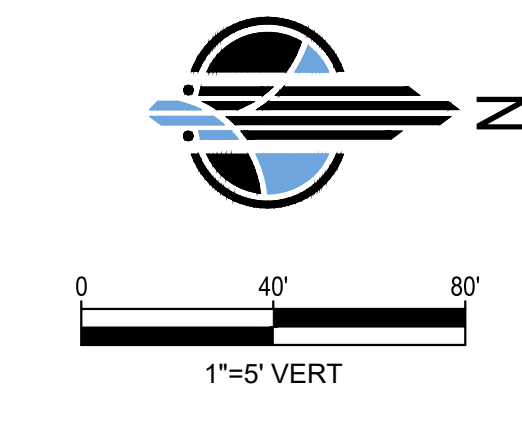
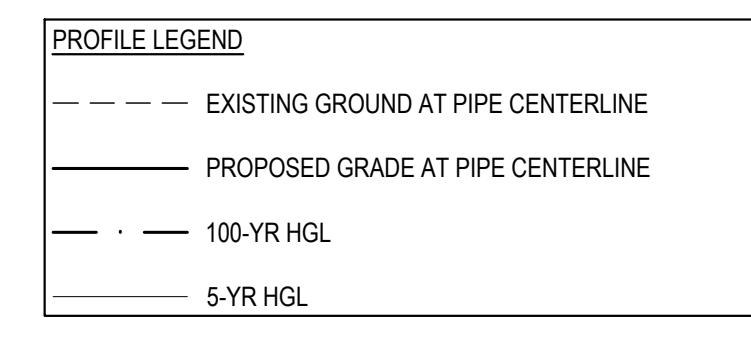


- STORM SEWER NOTES:**
- CONTRACTOR TO VERIFY LOCATION AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 - REFER TO DETAILS FOR ADDITIONAL INFORMATION.
 - ALL PIPE LENGTHS ARE CALCULATED FROM THE MIDPOINT OF MANHOLES AND THE MIDPOINT OF INLETS AT FLOWLINE.
 - ALL STORM SEWER STATIONING IS AT PIPE CENTERLINE UNLESS STATED OTHERWISE.
 - ALL RCP SHALL BE CLASS III UNLESS STATED OTHERWISE.
 - ALL RCP SHALL HAVE WATER TIGHT JOINTS PER ASTM C443 UNLESS STATED OTHERWISE.
 - FLARED END SECTIONS SHALL BE CONCRETE. STATION POINT AND OFFSET FOR FLARED END SECTIONS ARE AT THE END OF PIPE.
 - ON-GRADE INLETS SHALL BE SLOPED IN ACCORDANCE WITH THE STREET GRADE.
 - TYPE R INLET STATION POINT IS AT THE MIDPOINT OF THE INLET AT FLOWLINE.
 - TYPE R INLET RIM ELEVATIONS REPRESENTS THE TOP BACK OF CURB ELEVATION AT THE MIDPOINT OF THE INLET.
 - TYPE R INLET TBC ELEVATIONS REPRESENT THE TOP BACK OF CURB ELEVATION AT THE OUTSIDE EDGE OF INLET STRUCTURE.
 - ALL STORM SEWER IMPROVEMENTS WITHIN THE ROW WILL BE PUBLIC AND OWNED AND MAINTAINED BY THE CITY OF LONE TREE UNLESS STATED OTHERWISE.
 - ALL MANHOLES IN UNPAVED AREAS SHALL HAVE A 4" STEEL PIPE BOLLARD, PAINTED YELLOW, WITH THE DISTANCE TO THE MANHOLE AND THE APPROPRIATE IDENTIFYING INITIALS STENCILED (2") IN BLACK.

STORM SEWER Z1



EXISTING SUBSURFACE UTILITY DATA								
TEST HOLE ID	UTILITY OWNER	UTILITY TYPE	SIZE (INCH)	UTILITY MATERIAL	NORTHING	EASTING	DEPTH (GROUND TO TOP) (FT)	UTILITY ELEVATION
101	PWSD	STORM SEWER	36"	RCP	1615367.23	3186092.48	6.5	
102	COLT	WATER	12"	PVC	1615371.02	3186103.33	4	
103	COLT	SAN SEWER	-	-	1615343.30	3186089.05	-	
104	COLT	WATER	12"	PVC	1615346.11	3186111.85	3.7	
105	COLT	SAN SEWER	-	-	1615862.02	3187120.35	-	
106	COLT	WATER	12"	PVC	1615885.34	3187147.03	6.3	
107	XCEL	ELECTRIC	1"	DIRECT BURY	1615727.66	3187126.05	9.6	
108	XCEL	ELECTRIC	1"	DIRECT BURY	1615548.10	3187181.99	4.3	
109	XCEL	ELECTRIC	1"	DIRECT BURY	1615263.47	3187230.34	4.3	
110	COLT	WATER	12"	PVC	1615326.84	3187621.59	4.9	
111	COLT	ELECTRIC	1.5"	PVC	1616044.97	3187504.20	4	
112	COLT	ELECTRIC	1.5"	PVC	1615982.72	3188061.59	3.5	



City of Lone Tree

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Engineering / Architecture / Design-Build / Surveying / Planning / Geospatial Solutions
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303-751-0741
www.merrick.com

DESIGN BY: CD
DRAWN BY: NB
CHECKED BY: CB
APPROVED BY: CB

DATE: 7/13/2023

REVISION DESCRIPTION: DRWNCHKD/APPR

RIDGEGATE EAST FILING NO. 3

STREET AND STORM SEWER PLANS

STORM SEWER (HIGH NOTE AVE) PLAN & PROFILE

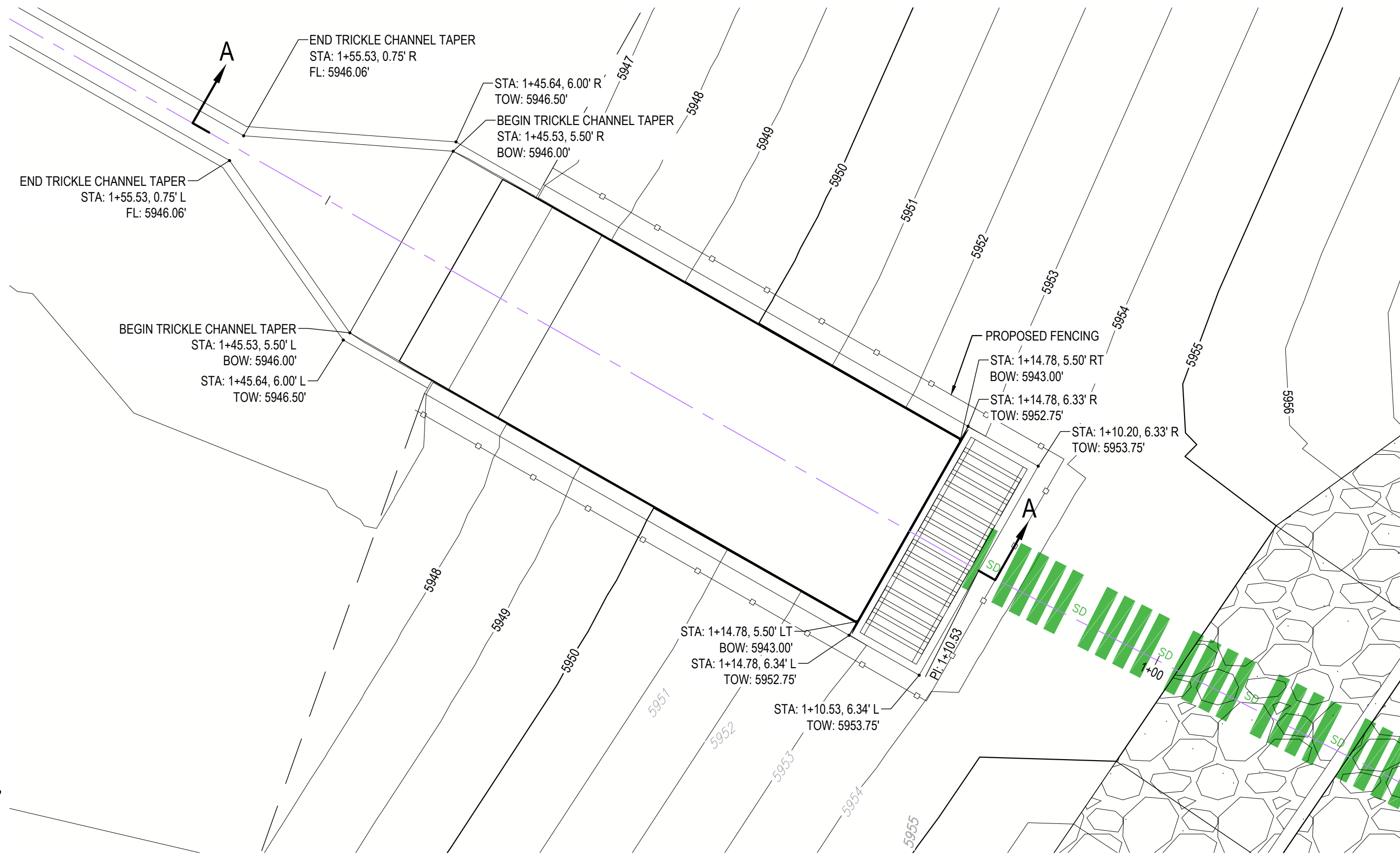
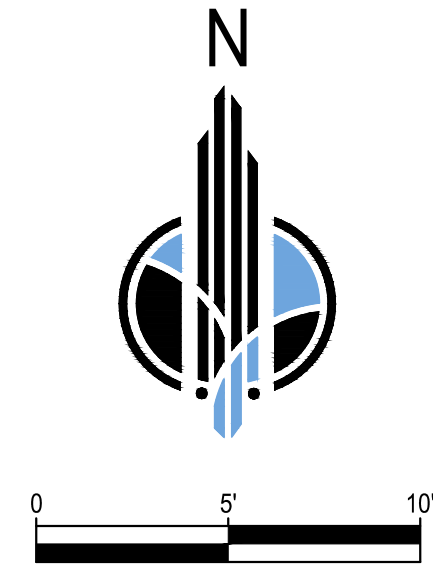
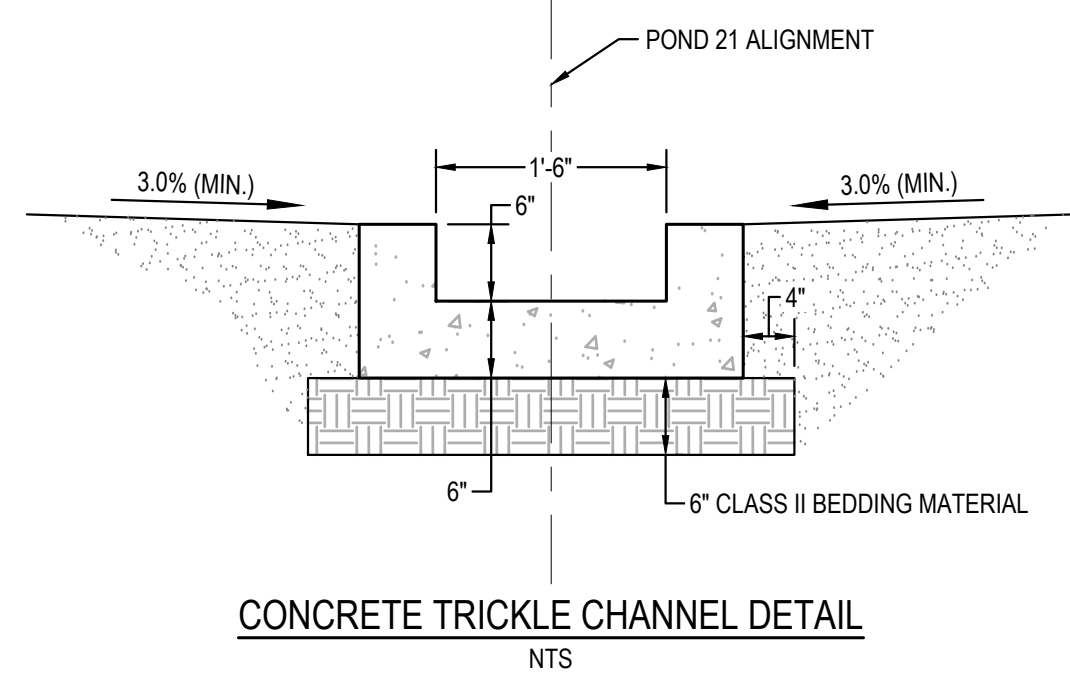
JOB NO.: 65121240

DATE: 7/13/2023

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File Location: D:\DEN\Projects\5097-02-RRWD Overall East\Projects\1240-Couplet Roadway Design\Design\CDs\Civil\ROAD AND STORM\1240-POND DETAILS.dwg Plot Date: 7/13/2023 6:08 PM Last Saved By: NBROWN



DETENTION POND GENERAL NOTES:

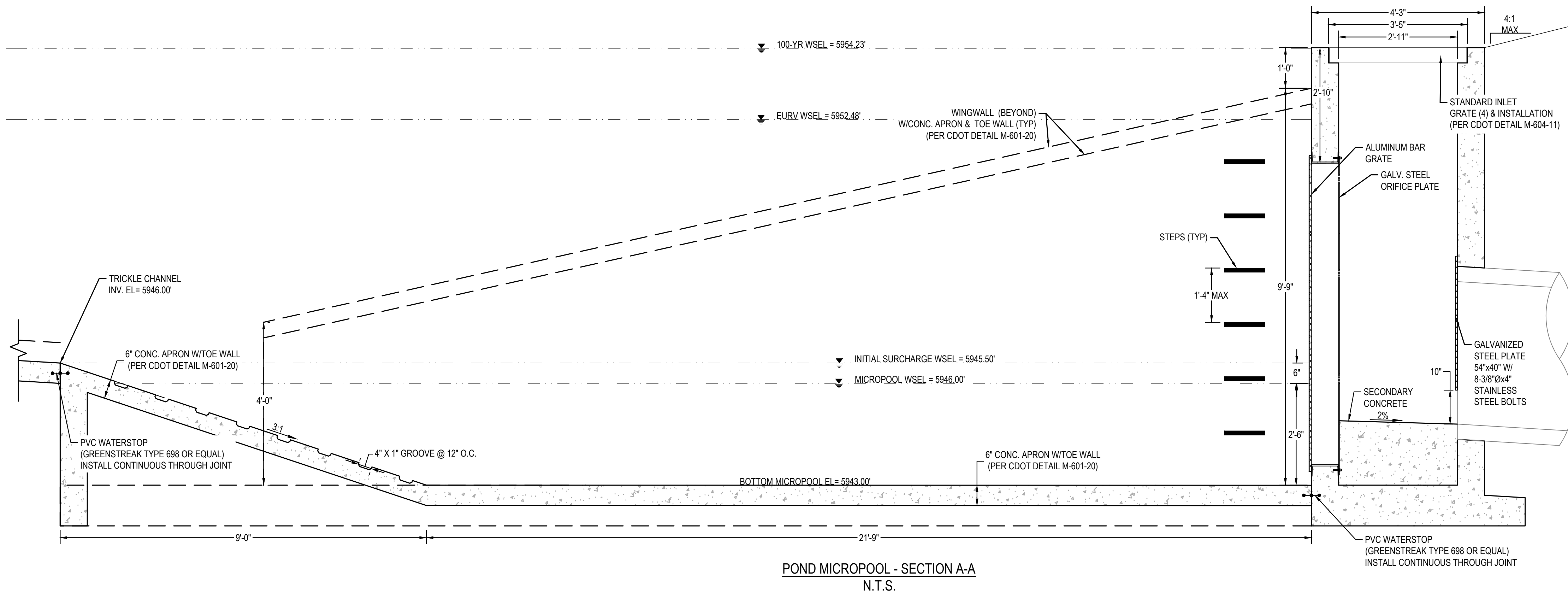
- THE MAXIMUM ALLOWABLE SLOPE WITHIN THE POND BELOW THE 100-YEAR WATER SURFACE ELEVATION SHALL BE 4:1 AND THE MINIMUM ALLOWABLE SLOPE WITHIN THE POND BELOW THE 100-YEAR WATER SURFACE ELEVATION SLOPE SHALL BE 3%.
- BACKFILL MATERIAL SHALL BE PER THE GEOTECHNICAL REPORT OR AS APPROVED BY THE GEOTECHNICAL ENGINEER. PROVIDE SUBGRADE PREPARATION AND COMPACTION PER THE GEOTECHNICAL REPORT.
- ALL CONCRETE SHALL BE CLASS B.
- ALL EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 3/4" INCH.
- REINFORCING BARS SHALL BE EPOXY COATED, CONFORMING TO ASTM A 615, GRADE 60.
- INTERSECTING WATERSTOP JOINTS SHALL BE SHOP FABRICATED.
- SUBGRADE PREPARATION AND COMPACTION FOR HEADWALLS, WINGWALLS, CONCRETE APRONS, CONCRETE CHANNELS, ACCESS DRIVES, MICROPOOLS, OUTLET STRUCTURES, AND WEIR WALLS WILL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.

RIPRAP GENERAL NOTES:

- SOIL RIPRAP SHALL BE UNIFORMLY MIXED ONSITE PRIOR TO PLACEMENT AND CONSIST OF THE FOLLOWING:
 - 35% BY VOLUME NATIVE SOIL
 - 65% BY VOLUME RIPRAP
- PLACE SOIL RIPRAP TO RESULT IN SECURELY INTERLOCKED ROCK AT THE DESIGN GRADE AND THICKNESS. COMPACT AND LEVEL TO ELIMINATE ALL VOIDS AND ROCKS PROJECTING ABOVE DESIGN FINISHED GRADE.

OUTLET STRUCTURE NOTES:

- WELL SCREEN WIDTHS ARE FOR SPECIFIED WELL SCREEN MATERIAL, FINER WELL SCREEN THAN SPECIFIED IS ACCEPTABLE UPON WRITTEN APPROVAL BY THE ENGINEER. WELL SCREEN DIMENSIONS MAY NEED TO BE ADJUSTED FOR MATERIALS HAVING A DIFFERENT OPEN AREA/GROSS AREA RATIO.
- STRUCTURAL DESIGN OF THE WELL SCREEN SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE WELL SCREEN.
- WELL SCREEN SHALL BE PER MHFD STANDARD DRAWINGS. SEE MHFD DRAINAGE CRITERIA MANUAL, VOLUME 3, OUTLET STRUCTURE DETAILS, FIGURES OS-4, OS-5 AND TABLES OS-2A AND OS-2B FOR FURTHER DETAILS.
- ALL WELL SCREENS AND STEEL PLATES SHALL BE BOLTED USING STAINLESS STEEL HARDWARE.
- PROVIDE WATERTIGHT GASKET BETWEEN WELL SCREEN AND CONCRETE.
- PROVIDE WATERTIGHT GASKET BETWEEN STEEL PLATES AND CONCRETE.
- TRASH RACKS SHALL BE STAINLESS STEEL, ALUMINUM, OR STEEL. STEEL TRASH RACKS SHALL BE HOT DIP GALVANIZED.
- ALL TRASH RACKS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDE BOLTABLE ACCESS PANELS.
- STEPS SHALL BE PROVIDED WHEN THE HEIGHT OF THE STRUCTURE IS EQUAL TO OR GREATER THAN 3'-6" AND SHALL CONFORM WITH AASHTO M 199.



POND MICROPOOL - SECTION A-A
N.T.S.

CD	NB	CB	CB	REV	REVISION DESCRIPTION	DATE	DRWN/CHKD/APPR

RIDGEGATE EAST FILING NO. 3
 STREET AND STORM SEWER
 PLANS
 POND 21 MICROPOOL DETAILS

ISSUED FOR REVIEW
 FOR AND ON BEHALF OF MERRICK & COMPANY

City of Lone Tree
 These construction plans have been reviewed by the City of Lone Tree for street and drainage improvements only.
 Engineering Division Acceptance Block

JOB NO.: 65121240
 DATE: 7/13/2023
 SHEET: 66 OF 78

TRENCH DRAIN 90° CORNER Issued: 05/2013
 Revised: 09/2017
 Drawing No. **SP.25**

DOUGLAS COUNTY COLORADO

BACK TO BACK TRENCH DRAIN CLEANOUTS Issued: 05/2013
 Revised: 09/2017
 Drawing No. **SP.26**

DOUGLAS COUNTY COLORADO

CURB INLET - TYPE R (5', 10' OR 15' IN LENGTH) Issued: 05/2013
 Revised: 09/2017
 Drawing No. **SP.34a**

DOUGLAS COUNTY COLORADO

CURB INLET - TYPE R (5', 10' OR 15' IN LENGTH) Issued: 05/2013
 Revised: 09/2017
 Drawing No. **SP.34b**

DOUGLAS COUNTY COLORADO

MARK	BAR #	O.C. SPACING	TYPE	ALL INLETS			INLETS: H ≤ 5 FT.			INLETS: H > 5 FT.					
				L = 5 FT.	L = 10 FT.	L = 15 FT.	L = 5 FT.	L = 10 FT.	L = 15 FT.	L = 5 FT.	L = 10 FT.	L = 15 FT.			
				NO. REQ'D	LENGTH	NO. REQ'D	LENGTH	NO. REQ'D	LENGTH	NO. REQ'D	LENGTH	NO. REQ'D	LENGTH	NO. REQ'D	LENGTH
401	4	11"	II	15	+	21	+	26	+	11	+	11	+		
402	4	11"	II	7	+	13	+	18	+	7	+	7	+		
403	4	9"	II	4	-0"	4	-0"	4	-0"	4	-0"	4	-0"		
405	4	6"	VI	11	8'-10"	21	8'-10"	31	8'-10"	11	8'-10"	11	8'-10"		
406	4	6"	VIII	7	8'-10"	7	13'-10"	7	18'-10"	7	8'-10"	7	8'-10"		
407	4	9"	II	+	5'-10"	+	10'-10"	+	15'-10"	+	5'-10"	+	5'-10"		
408	4	12"	II	3	8'-10"	3	11'-10"	3	18'-0"	3	11'-10"	3	18'-0"		
409	4	8"	II	6	5'-10"	6	10'-10"	6	15'-10"	6	10'-10"	6	15'-10"		
410	4	11"	VI					3	+	3	+				
411	4	11"	II					3	5'-2"	3	10'-2"				
412	4	11"	II					3	2'-8"	3	2'-8"				
413	4	9"	II					7	10'-10"	7	15'-10"				
501	5	5 1/2"	IV	11	3'-4"	22	3'-4"	33	3'-4"	22	3'-4"	33	3'-4"		
502	5	5 1/2"	III					11	11'-5"	17	11'-5"				
503	5	5 1/2"	II	5	3'-8"	16	3'-8"	27	3'-8"	6	3'-8"	6	3'-8"		
504	5	5 1/2"	IX							5	8'-4"				
601	6	2 1/2"	V	2	8'-10"	2	8'-10"	2	8'-10"	2	8'-10"	4	8'-10"		

TABLE ONE ~ BAR LIST FOR CURB INLETS, TYPE "R"

L\H	LENGTH	REGULAR INLETS		DROP BOX INLETS	
		CONG. QU. TYP.	STEEL TYP.	CONG. QU. TYP.	STEEL TYP.
3'-0"	2'-0"	13	7	3.2	2.0
3'-0"	3'-2"	10	7	3.4	2.0
3'-0"	3'-8"	12	9	3.7	2.6
4'-0"	4'-2"	12	9	3.9	2.6
4'-0"	4'-8"	14	11	4.1	2.6
5'-0"	5'-2"	16	13	4.4	2.6
5'-0"	5'-8"	16	13	4.6	2.6
6'-0"	6'-2"	18	15	4.8	2.6
6'-0"	6'-8"	18	15	4.8	2.6
7'-0"	7'-2"	20	17	5.0	2.6
7'-0"	7'-8"	20	17	5.0	2.6
8'-0"	8'-2"	22	19	5.2	2.6
8'-0"	8'-8"	22	19	5.2	2.6
9'-0"	9'-2"	24	21	5.4	2.6
9'-0"	9'-8"	24	21	5.4	2.6
10'-0"	10'-2"	26	23	5.6	2.6
10'-0"	10'-8"	26	23	5.6	2.6
11'-0"	11'-2"	28	25	5.8	2.6
11'-0"	11'-8"	28	25	5.8	2.6

TABLE TWO ~ BARS AND QUANTITIES VARIABLE WITH "H"

CURB INLET - TYPE R (5', 10' OR 15' IN LENGTH) Issued: 05/2013
 Revised: 09/2017
 Drawing No. **SP.34c**

DOUGLAS COUNTY COLORADO

CURB INLET - TYPE R (5', 10' OR 15' IN LENGTH) Issued: 05/2013
 Revised: 09/2017
 Drawing No. **SP.34d**

DOUGLAS COUNTY COLORADO

City of Lone Tree

These construction plans have been reviewed by the City of Lone Tree for street and drainage improvements only.

Engineering Division Acceptance Block

MERRICK
 Engineering / Architecture / Design-Build / Surveying / Planning / Geospatial Solutions
 5970 GREENWOOD PLAZA BLVD, GREENWOOD VILLAGE, CO. 80111
 303-751-0741
 www.merrick.com

JOB NO.: 65121240
 DATE: 7/13/2023
 SHEET: 70 OF 78

DESIGN BY: CD
 DRAWN BY: NB
 CHECKED BY: CB
 APPROVED BY: CB

REVISION DESCRIPTION: DATE

DRWNCHKD/APPR

ISSUED FOR REVIEW

FOR AND ON BEHALF OF MERRICK & COMPANY

GENERAL NOTES

- CONCRETE SHALL BE CLASS D. INLET SHALL BE CAST-IN-PLACE.
- REINFORCING BARS SHALL BE EPOXY COATED AND DEFORMED #4 AND SHALL HAVE A MINIMUM 2 IN. CLEARANCE CUT OR BEND AROUND PIPES AS REQUIRED. IF ANY REBAR HAS TO BE CUT ON THE JOB SITE, THE EXPOSED BARE STEEL SHALL BE IMMEDIATELY COVERED WITH A MANUFACTURED APPROVED EPOXY PAINT PRIOR TO POUR.
- CONCRETE SLOPE PAVING SHALL INCLUDE FIBERMESH AT 1% LB./CY. OF CONCRETE.
- STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANNEZED AND SHALL BE IN ACCORDANCE WITH COLORADO SPECIFICATIONS, SUBSECTION 712.06.
- STANDARD INLET GRATES SHALL BE USED ON ALL TYPE C INLETS UNLESS OTHERWISE NOTED.
- STEPS SHALL BE PROVIDED WHEN INLET DIMENSION IS EQUAL TO OR GREATER THAN 3 FT-6 IN. AND SHALL CONFORM TO ASHRAE M 199.
- SEE STANDARD DETAIL SD-3, FOR REINFORCEMENT AROUND THE PIPE OPENING.
- CONCRETE SLOPE AND DITCH PAVING WILL BE REQUIRED WHEN SHOWN ON PLANS.

QUANTITIES FOR ONE INLET

H	CONCRETE (CU. YDS.)	STEEL (LBS.)	NO. STEPS
2'-0"	0.9	75	0
3'-0"	1.0	80	0
3'-6"	1.2	86	0
4'-0"	1.3	101	1
4'-6"	1.4	116	2
5'-0"	1.5	122	2
5'-6"	1.7	137	3
6'-0"	1.8	142	3
6'-6"	1.9	158	3
7'-0"	2.0	163	3
7'-6"	2.2	179	4
8'-0"	2.3	184	4
8'-6"	2.4	199	4
9'-0"	2.5	205	5
9'-6"	2.7	220	5
10'-0"	3.0	235	6
11'-0"	3.2	251	6

BAR LIST FOR H=2 FT-6 IN. AND BENDING DIAGRAM

MARK	NO. REQS.	HEIGHT	LENGTH
401	2	2'-0"	7'-11"
402	3	1'-0"	13'-0"

REFERENCE: CDOT M & S STANDARDS M-604-10

INLET TYPE C

Issued: 05/2013
Revised: _____
Drawing No. **SP.35a**

GENERAL NOTES

- EARTHWORK ASSOCIATED WITH DIKE INCLUDED IN THE COST OF THE INLET.
- CONCRETE SHALL BE CLASS D. INLET SHALL BE CAST-IN-PLACE.
- REINFORCING BARS SHALL BE EPOXY COATED AND DEFORMED #4 AND SHALL HAVE A MINIMUM 2 IN. CLEARANCE CUT OR BEND AROUND PIPES AS REQUIRED. IF ANY REBAR HAS TO BE CUT ON THE JOB SITE, THE EXPOSED BARE STEEL SHALL BE IMMEDIATELY COVERED WITH A MANUFACTURED APPROVED EPOXY PAINT PRIOR TO POUR.
- CONCRETE SLOPE PAVING SHALL INCLUDE FIBERMESH AT 1% LB./CY. OF CONCRETE.
- STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANNEZED AND SHALL BE IN ACCORDANCE WITH COLORADO SPECIFICATIONS, SUBSECTION 712.06.
- STANDARD INLET GRATES SHALL BE USED ON ALL TYPE C INLETS UNLESS OTHERWISE NOTED.
- STEPS SHALL BE PROVIDED WHEN INLET DIMENSION IS EQUAL TO OR GREATER THAN 3 FT-6 IN. AND SHALL CONFORM TO ASHRAE M 199.
- SEE STANDARD DETAIL SD-3, FOR REINFORCEMENT AROUND THE PIPE OPENING.
- CONCRETE SLOPE AND DITCH PAVING WILL BE REQUIRED WHEN SHOWN ON PLANS.

QUANTITIES FOR ONE INLET

H	CONCRETE (CU. YDS.)	STEEL (LBS.)	NO. STEPS
2'-0"	0.9	75	0
3'-0"	1.0	80	0
3'-6"	1.2	86	0
4'-0"	1.3	101	1
4'-6"	1.4	116	2
5'-0"	1.5	122	2
5'-6"	1.7	137	3
6'-0"	1.8	142	3
6'-6"	1.9	158	3
7'-0"	2.0	163	3
7'-6"	2.2	179	4
8'-0"	2.3	184	4
8'-6"	2.4	199	4
9'-0"	2.5	205	5
9'-6"	2.7	220	5
10'-0"	3.0	235	6
11'-0"	3.2	251	6

REFERENCE: CDOT M & S STANDARDS M-604-10

INLET TYPE C

Issued: 05/2013
Revised: _____
Drawing No. **SP.35b**

GENERAL NOTES

- CONCRETE SHALL BE CLASS D. INLET SHALL BE CAST-IN-PLACE.
- REINFORCING BARS SHALL BE EPOXY COATED AND DEFORMED #4 AND SHALL HAVE A MINIMUM 2 IN. CLEARANCE CUT OR BEND AROUND PIPES AS REQUIRED. IF ANY REBAR HAS TO BE CUT ON THE JOB SITE, THE EXPOSED BARE STEEL SHALL BE IMMEDIATELY COVERED WITH A MANUFACTURED APPROVED EPOXY PAINT PRIOR TO POUR.
- CONCRETE SLOPE PAVING SHALL INCLUDE FIBERMESH AT 1% LB./CY. OF CONCRETE.
- STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANNEZED AND SHALL BE IN ACCORDANCE WITH COLORADO SPECIFICATIONS, SUBSECTION 712.06.
- STANDARD INLET GRATES SHALL BE USED ON ALL TYPE C INLETS UNLESS OTHERWISE NOTED.
- STEPS SHALL BE PROVIDED WHEN INLET DIMENSION IS EQUAL TO OR GREATER THAN 3 FT-6 IN. AND SHALL CONFORM TO ASHRAE M 199.
- SEE STANDARD DETAIL SD-3, FOR REINFORCEMENT AROUND THE PIPE OPENING.
- CONCRETE SLOPE AND DITCH PAVING WILL BE REQUIRED WHEN SHOWN ON PLANS.

QUANTITIES: 2 STEEL GRATES PER INLET

NO. PIECES	DESCRIPTION	LENGTH	LB. PER FT.	WEIGHT (LBS.)
8	3/4" x 7/8" BEAM	40"	2.70	208
4	3/8" x 3/4" FLAT	28"	2.80	28
4	3/8" x 3/4" FLAT	28"	2.50	24
TOTAL: 238 LBS.				

REFERENCE: CDOT M & S STANDARDS M-604-10

INLET TYPE C

Issued: 05/2013
Revised: _____
Drawing No. **SP.35c**

GENERAL NOTES

- CONCRETE SHALL BE CLASS D. INLET SHALL BE CAST-IN-PLACE.
- STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANNEZED AND SHALL BE IN ACCORDANCE WITH COLORADO SPECIFICATIONS, SUBSECTION 712.06.
- STANDARD INLET GRATES SHALL BE USED ON ALL TYPE D INLETS UNLESS OTHERWISE NOTED.
- STEPS SHALL BE PROVIDED WHEN INLET DIMENSION IS EQUAL TO OR GREATER THAN 3 FT-6 IN. AND SHALL CONFORM TO ASHRAE M 199.
- REINFORCING BARS SHALL BE EPOXY COATED AND DEFORMED #4 AND SHALL HAVE A MINIMUM 2 IN. CLEARANCE CUT OR BEND AROUND PIPES AS REQUIRED. IF ANY REBAR HAS TO BE CUT ON THE JOB SITE, THE EXPOSED BARE STEEL SHALL BE IMMEDIATELY COVERED WITH A MANUFACTURED APPROVED EPOXY PAINT PRIOR TO POUR.

QUANTITIES FOR ONE INLET

H	CONCRETE (CU. YDS.)	STEEL (LBS.)	CIRCULAR PIPE RANGE (IN. - FT.)
3.0	1.5	127	18-24
3.5	1.7	149	18-30
4.0	1.9	171	18-36
4.5	2.0	179	18-36
5.0	2.2	187	18-42
5.5	2.4	208	18-42
6.0	2.6	215	18-42
6.5	2.8	236	18-42
7.0	2.9	243	18-42
7.5	3.1	264	18-42
8.0	3.3	271	18-42
8.5	3.5	292	18-42
9.0	3.6	299	18-42
9.5	3.8	320	18-42
10.0	4.0	327	18-42

REFERENCE: CDOT M & S STANDARDS M-604-11

INLET TYPE D

Issued: 05/2013
Revised: _____
Drawing No. **SP.36a**

GENERAL NOTES

- EARTHWORK ASSOCIATED WITH DIKE INCLUDED IN THE COST OF THE INLET.
- CONCRETE SHALL BE CLASS D. INLET SHALL BE CAST-IN-PLACE.
- REINFORCING BARS SHALL BE EPOXY COATED AND DEFORMED #4 AND SHALL HAVE A MINIMUM 2 IN. CLEARANCE CUT OR BEND AROUND PIPES AS REQUIRED. IF ANY REBAR HAS TO BE CUT ON THE JOB SITE, THE EXPOSED BARE STEEL SHALL BE IMMEDIATELY COVERED WITH A MANUFACTURED APPROVED EPOXY PAINT PRIOR TO POUR.
- CONCRETE SLOPE AND DITCH PAVING WILL BE REQUIRED WHEN SHOWN ON PLANS.

QUANTITIES FOR ONE INLET

H	CONCRETE (CU. YDS.)	STEEL (LBS.)	CIRCULAR PIPE RANGE (IN. - FT.)
3.0	1.5	127	18-24
3.5	1.7	149	18-30
4.0	1.9	171	18-36
4.5	2.0	179	18-36
5.0	2.2	187	18-42
5.5	2.4	208	18-42
6.0	2.6	215	18-42
6.5	2.8	236	18-42
7.0	2.9	243	18-42
7.5	3.1	264	18-42
8.0	3.3	271	18-42
8.5	3.5	292	18-42
9.0	3.6	299	18-42
9.5	3.8	320	18-42
10.0	4.0	327	18-42

REFERENCE: CDOT M & S STANDARDS M-604-11

INLET TYPE D

Issued: 05/2013
Revised: _____
Drawing No. **SP.36b**

GENERAL NOTES

- CONCRETE SHALL BE CLASS D. INLET SHALL BE CAST-IN-PLACE.
- REINFORCING BARS SHALL BE EPOXY COATED AND DEFORMED #4 AND SHALL HAVE A MINIMUM 2 IN. CLEARANCE CUT OR BEND AROUND PIPES AS REQUIRED. IF ANY REBAR HAS TO BE CUT ON THE JOB SITE, THE EXPOSED BARE STEEL SHALL BE IMMEDIATELY COVERED WITH A MANUFACTURED APPROVED EPOXY PAINT PRIOR TO POUR.
- CONCRETE SLOPE AND DITCH PAVING WILL BE REQUIRED WHEN SHOWN ON PLANS.

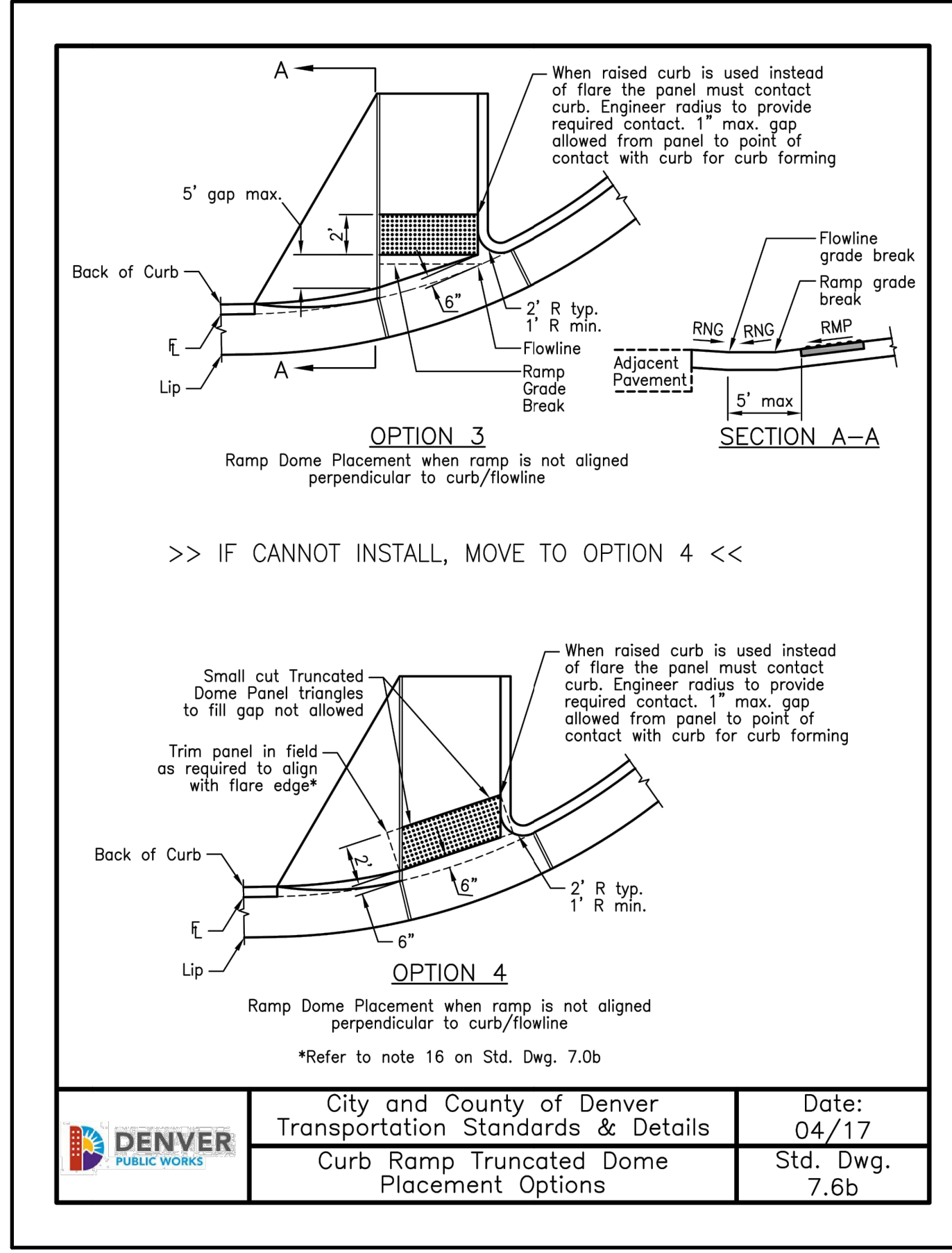
QUANTITIES: 2 STEEL GRATES PER INLET

NO. PIECES	DESCRIPTION	LENGTH	LB. PER FT.	WEIGHT (LBS.)
8	3/4" x 7/8" BEAM	40"	2.70	208
4	3/8" x 3/4" FLAT	28"	2.80	28
4	3/8" x 3/4" FLAT	28"	2.50	24
TOTAL: 238 LBS.				

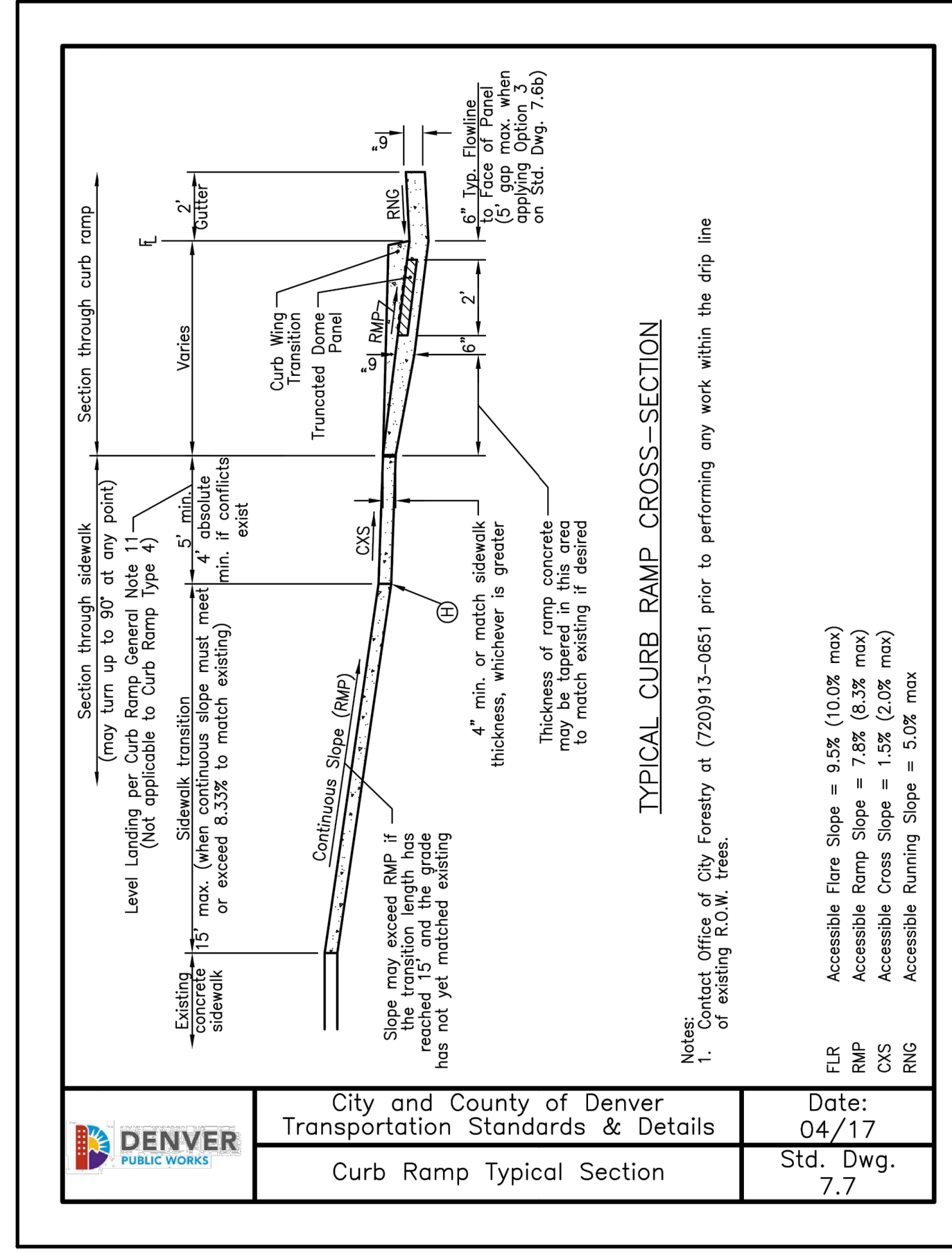
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INLET TYPE D

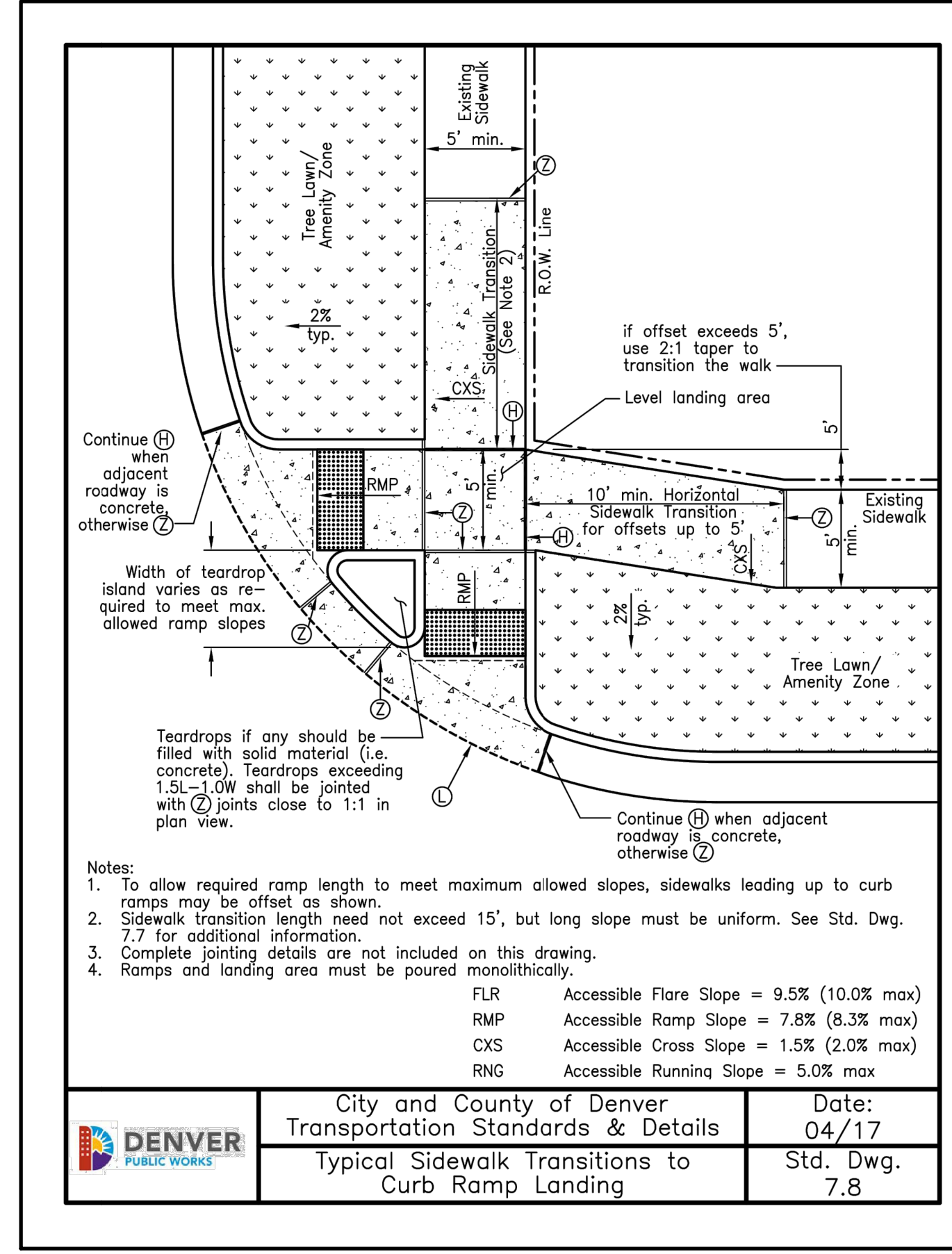
Issued: 05/2013
Revised: _____
Drawing No. **SP.36c**



	City and County of Denver Transportation Standards & Details	Date: 04/17
	Curb Ramp Truncated Dome Placement Options	Std. Dwg. 7.6b



	City and County of Denver Transportation Standards & Details	Date: 04/17
	Curb Ramp Typical Section	Std. Dwg. 7.7



	City and County of Denver Transportation Standards & Details	Date: 04/17
	Typical Sidewalk Transitions to Curb Ramp Landing	Std. Dwg. 7.8

City of Lone Tree

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Engineering Division Acceptance Block

JOB NO.: 65121240
DATE: 7/13/2023
SHEET: 78 OF 78

RIDGEGATE EAST FILING NO. 3
STREET AND STORM SEWER
PLANS
CITY OF DENVER DETAILS 2

DESIGN BY:	CD	
DRAWN BY:	NB	
CHECKED BY:	CB	
APPROVED BY:	CB	
REV	REVISION DESCRIPTION	DATE
		DRWNCHKD/JAPPR