

STATE OF OHIO
 DEPARTMENT OF TRANSPORTATION
CUY- SR 10-06.00 STREETScape

CITY OF FAIRVIEW PARK
 CUYAHOGA COUNTY

PROJECT DESCRIPTION

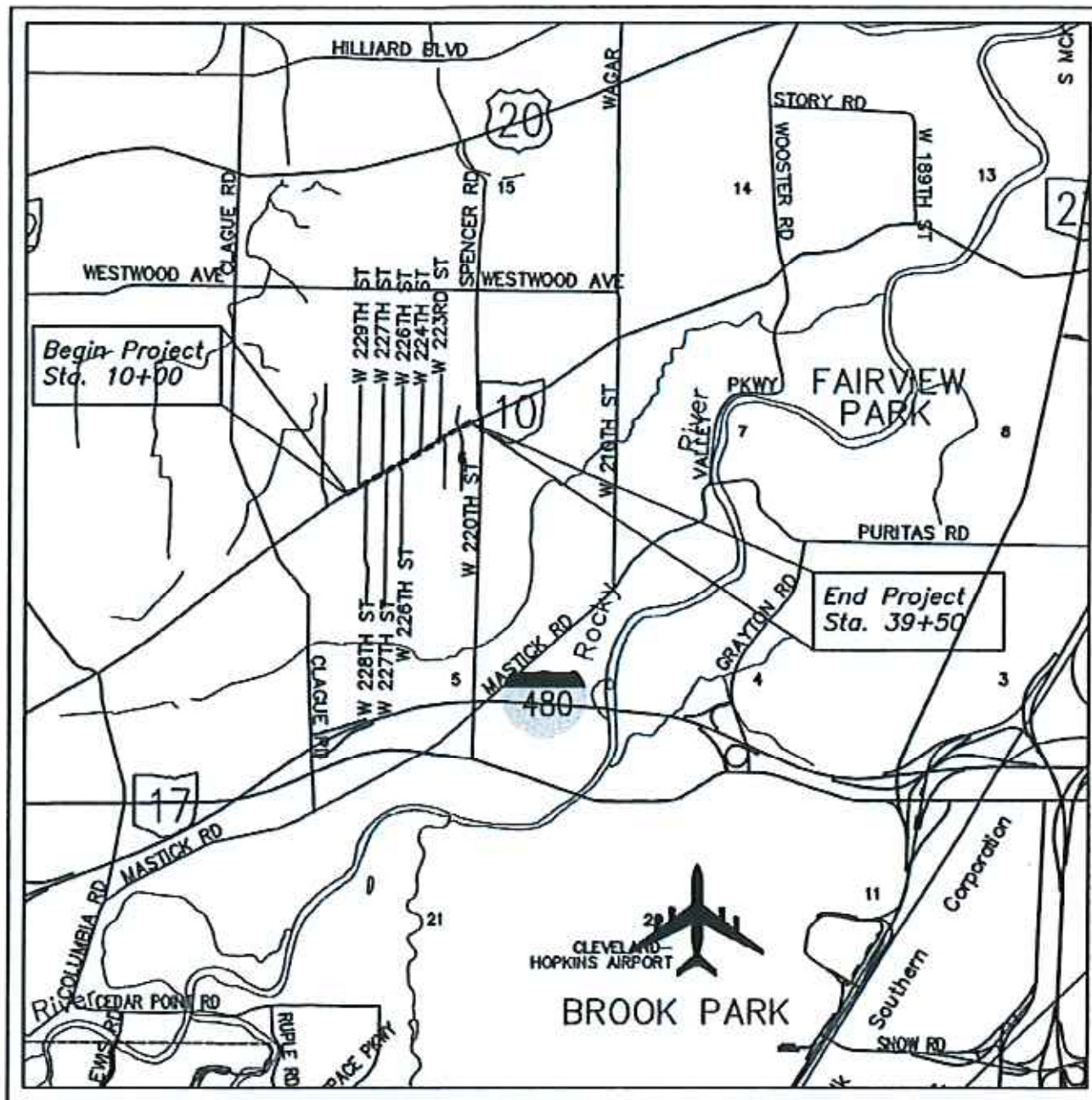
STREETScape IMPROVEMENTS ALONG LORAIN ROAD (SR-10) FROM FAIRVIEW PARK WEST CORPORATION LINE TO WEST 221 STREET IN THE CITY OF FAIRVIEW PARK: TREE PLANTINGS, INSTALLING BENCHES, RESTORING TREE LAWN THROUGH CONCRETE REMOVAL AND INSTALLING LAWN AND LANDSCAPED AREAS, REPLACING CONCRETE WALK SECTIONS, INSTALLING LANDSCAPED ISLANDS (BUMP OUTS) TO BETTER DEFINE PARKING AND REDUCE CROSSWALK LENGTHS AT INTERSECTIONS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 0.80 ACRES
 ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.15 ACRES
 NOTICE OF INTENT EARTH DISTURBED AREA: N/A

2016 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.



LOCATION MAP

LATITUDE: 41°26'21" LONGITUDE: 81°52'11"



PORTION TO BE IMPROVED	
INTERSTATE HIGHWAY	
STATE ROUTES	
COUNTY, TOWNSHIP ROADS & OTHER ROADS	

DESIGN DESIGNATION

CURRENT ADT (2016)	14,562
DESIGN YEAR ADT (2026)	N/A
DESIGN HOURLY VOLUME (2016)	1354
DIRECTIONAL DISTRIBUTION	55%
TRUCKS (24 HOUR B&C)	2.5%
DESIGN SPEED	30 mph
LEGAL SPEED	25 MPH
DESIGN FUNCTIONAL CLASSIFICATION	URBAN_OTHER_PRINCIPAL_ARTERIAL
NHS PROJECT	YES

DESIGN EXCEPTIONS

NONE

INDEX OF SHEETS:

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APPROVED:
 DATE: 03/26/19 DIRECTOR OF PUBLIC SERVICE AND DEVELOPMENT

UNDERGROUND UTILITIES
 CONTACT BOTH SERVICES TWO WORKING DAYS BEFORE YOU DIG.

Call Before You Dig
1-800-362-2764
 (NON MEMBERS MUST BE CALLED DIRECTLY)

OIL & GAS PRODUCERS
 UNDERGROUND PROTECTION SERVICE
 1-800-925-0988

PLAN PREPARED BY:



ENGINEERS SEAL	STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS
 SIGNED: DATE: 3-21-19	BP-1.1	7/28/2000	CB-2.3	1/15/2016	MT-95.31	7/21/2017	800 10/19/18
	BP-2.1	7/17/2015	MH-1.2	1/15/2016	MT-95.32	7/21/2017	
	BP-2.2	7/18/2008			MT-101.90	7/18/2014	
	BP-2.5	7/19/2013	DM-1.2	1/18/2013	MT-110.10	7/19/2013	
	BP-4.1	7/19/2013	DM-4.3	1/15/2016			
	BP-5.1	7/20/2018	DM-4.4	1/15/2016	RM-1.1	7/18/2014	
	BP-7.1	7/20/2018					

FEDERAL PROJECT NO. E190264
 PID NO. 88032
 CONSTRUCTION PROJECT NO.
 RAILROAD INVOLVEMENT NONE
 CUY- SR 010 - 6.00 STREETScape
 1/57

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SURVEYOR'S NOTES:

Project Control Coordinates for this project have been established in accordance with procedures detailing the conversion of "Grid" Coordinates to "Ground" Coordinates contained in the State of Ohio Department of Transportation Survey Manual Section 303.52 (May, 1995).

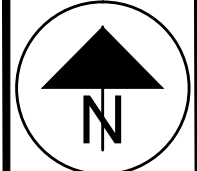
GPS/RTK observations utilizing the Ohio Co-ordinate System of 1983 (Zone 3401-Ohio NORTH) have been adjusted for use "on the Ground" by MULTIPLYING corresponding Ohio State Plane Grid coordinate values, expressed in units of U.S. Survey Feet, by a computed Project Adjustment Factor (PAF) of 1.0000 (exactly). (PAF = 1/Avg. Combined Factor). All coordinates shown hereon are expressed as Project (Ground) Coordinates and should not be confused with Ohio State Plane Grid Coordinates.

Bearings shown hereon are based upon GPS/RTK observations utilizing the Ohio Department of Transportation's VRS network of Continuously Operating Reference Stations and are compatible with those obtained when projected onto the Ohio Co-ordinate System of 1983. The horizontal component of the VRS network is based upon the NAD83(2011) Reference Frame, 2010.0 Epoch/GRS80 Ellipsoid.

Vertical control data are based upon GPS derived orthometric heights expressed in terms of NAVD88 - 2012a Geoid and have been adjusted by means of conventional differential leveling methods. (Assumed average project height = 750.0 feet). Elevations shown hereon are expressed in units of U.S. Survey Feet.

LEGEND

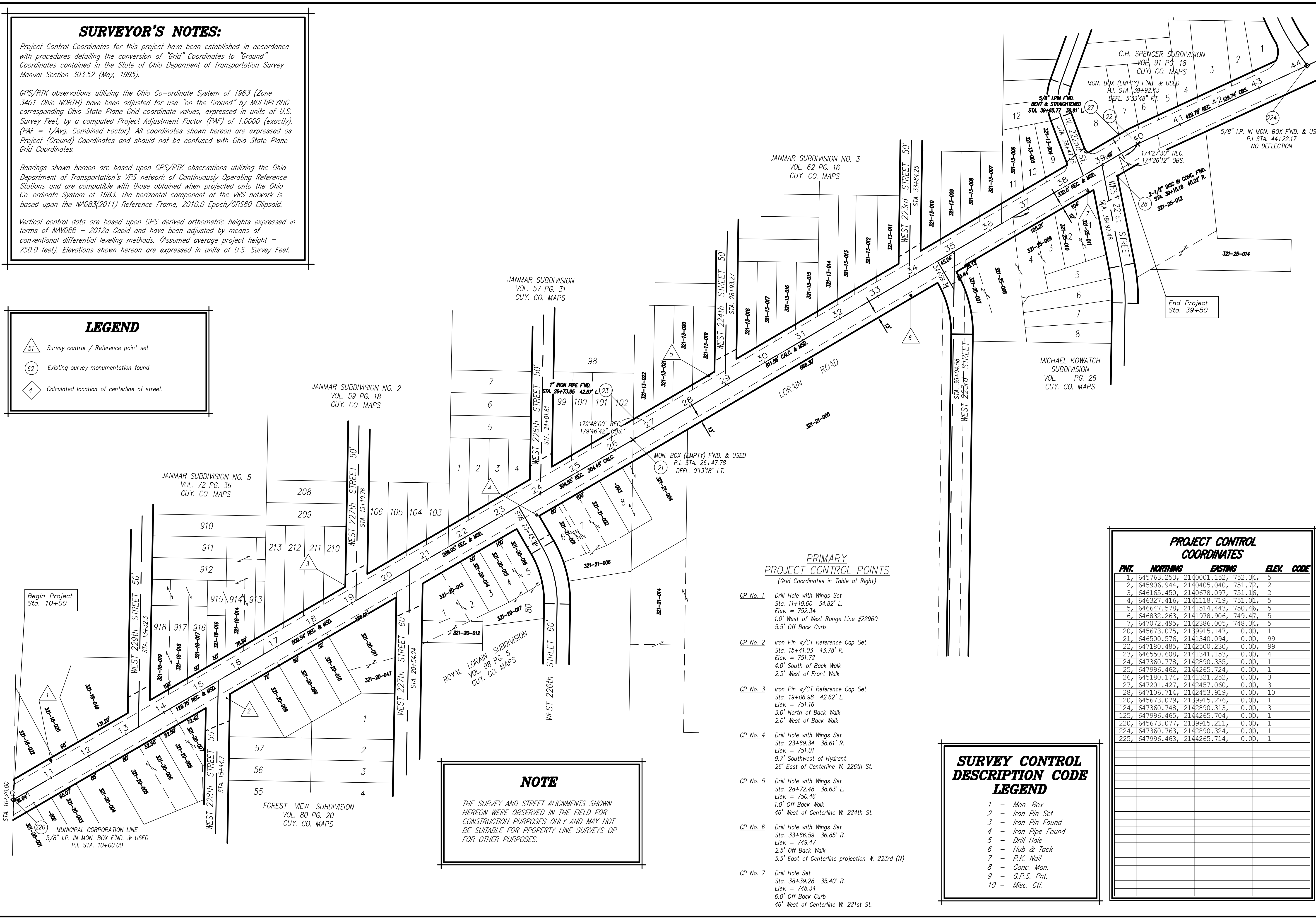
- 51 Survey control / Reference point set
- 62 Existing survey monumentation found
- 4 Calculated location of centerline of street.



0 100 200
HORIZONTAL SCALE
IN FEET
CALCULATED: TH
CHECKED: SSA

SCHEMATIC PLAN
STA. 10+00 TO STA. 39+50

CUY - SR 010 - 6.00
STREETSCAPE



PRIMARY PROJECT CONTROL POINTS
(Grid Coordinates in Table at Right)

- CP No. 1 Drill Hole with Wings Set
Sta. 11+19.60 34.82' L.
Elev. = 752.34
1.0' West of West Range Line #22960
5.5' Off Back Curb
- CP No. 2 Iron Pin w/CT Reference Cap Set
Sta. 15+41.03 43.78' R.
Elev. = 751.72
4.0' South of Back Walk
2.5' West of Front Walk
- CP No. 3 Iron Pin w/CT Reference Cap Set
Sta. 19+06.98 42.62' L.
Elev. = 751.16
3.0' North of Back Walk
2.0' West of Back Walk
- CP No. 4 Drill Hole with Wings Set
Sta. 23+69.34 38.61' R.
Elev. = 751.01
9.7' Southwest of Hydrant
26' East of Centerline W. 226th St.
- CP No. 5 Drill Hole with Wings Set
Sta. 28+72.48 38.63' L.
Elev. = 750.46
1.0' Off Back Walk
46' West of Centerline W. 224th St.
- CP No. 6 Drill Hole with Wings Set
Sta. 33+66.59 36.85' R.
Elev. = 749.47
2.5' Off Back Walk
5.5' East of Centerline projection W. 223rd (N)
- CP No. 7 Drill Hole Set
Sta. 38+39.28 35.40' R.
Elev. = 748.34
6.0' Off Back Curb
46' West of Centerline W. 221st St.

NOTE
THE SURVEY AND STREET ALIGNMENTS SHOWN HEREON WERE OBSERVED IN THE FIELD FOR CONSTRUCTION PURPOSES ONLY AND MAY NOT BE SUITABLE FOR PROPERTY LINE SURVEYS OR FOR OTHER PURPOSES.

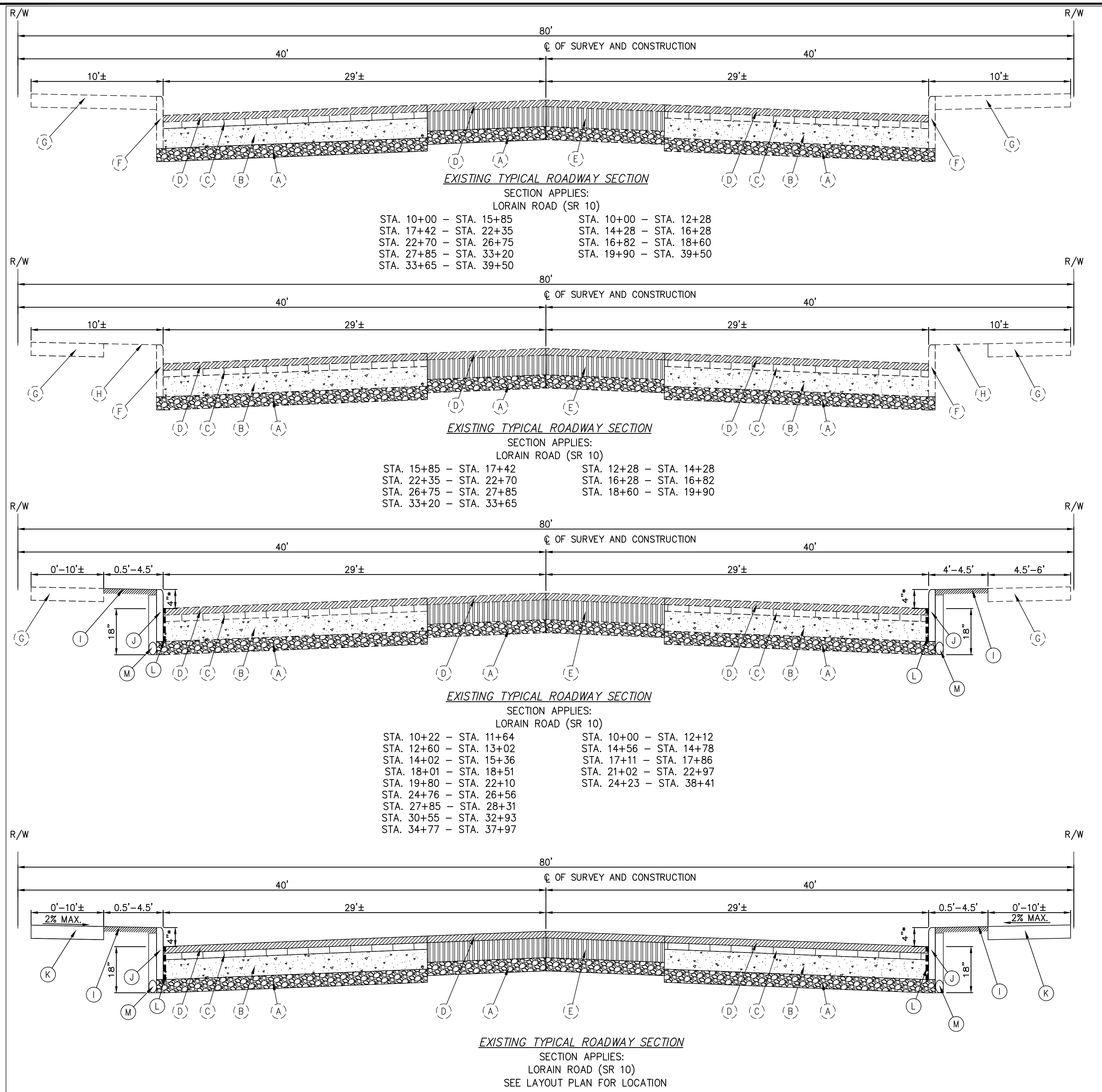
SURVEY CONTROL DESCRIPTION CODE LEGEND

- 1 - Mon. Box
- 2 - Iron Pin Set
- 3 - Iron Pin Found
- 4 - Iron Pipe Found
- 5 - Drill Hole
- 6 - Hub & Tack
- 7 - P.K. Nail
- 8 - Conc. Mon.
- 9 - G.P.S. Pnt.
- 10 - Misc. Ctl.

PROJECT CONTROL COORDINATES

PNT.	NORTHING	EASTING	ELEV.	CODE
1	645763.253	2140001.152	752.34	5
2	645906.944	2140405.040	751.72	2
3	646165.450	2140678.097	751.16	2
4	646327.416	2141118.719	751.01	5
5	646647.578	2141514.443	750.46	5
6	646832.263	2141978.906	749.47	5
7	647072.495	2142386.005	748.34	5
20	645673.075	2139915.147	0.00	1
21	646500.576	2141340.094	0.00	99
22	647180.485	2142500.230	0.00	99
23	646550.608	2141341.153	0.00	4
24	647360.778	2142890.335	0.00	1
25	647996.462	2144265.724	0.00	1
26	645180.174	2141321.252	0.00	3
27	647201.427	2142457.060	0.00	3
28	647106.714	2142453.919	0.00	10
120	645673.079	2139915.276	0.00	1
124	647360.748	2142890.313	0.00	3
125	647996.465	2144265.704	0.00	1
220	645673.077	2139915.211	0.00	1
224	647360.763	2142890.324	0.00	1
225	647996.463	2144265.714	0.00	1

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EXISTING LEGEND

- (A) AGGREGATE BASE
- (B) 9± CONCRETE BASE
- (C) BRICK PAVER
- (D) 3"-5" ASPHALT CONCRETE
- (E) 9"± ASPHALT CONCRETE
- (F) CURB
- (G) SIDEWALK
- (H) TREE LAWN STRIP

PROPOSED LEGEND

- (I) TREE LAWN STRIP
- (J) ITEM 609 - CURB, TYPE 6
- (K) ITEM 608 - 4" OR 6" CONCRETE WALK, AS PER PLAN
- (L) ITEM 252 - FULL DEPTH PAVEMENT SAWING
- (M) ITEM 605 - 4" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC

NOTES:

- 1) SEE PROPOSED LAYOUT FOR TREE LAWN LOCATION FOR ALL PROPOSED IMPROVEMENT LOCATIONS.
- 2) SEE LANDSCAPE PLAN FOR PROPOSE LANDSCAPING IMPROVEMENTS.
- 3) SEE PROPOSED GRADING PLANS FOR CURB HEIGHT AND ADA RAMP DETAILS.

* SEE PROPOSED GRADING PLANS.

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I PRECONSTRUCTION INCIDENTALS

(A) PROJECT SPECIFICATIONS/REQUIREMENTS:

ALL WORK REQUIRED TO COMPLETE THIS IMPROVEMENT SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS AND REQUIREMENTS OF THE CITY OF FAIRVIEW PARK AND THE LATEST EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, EXCEPT AS HEREIN AMENDED. IN THE CASE OF A CONFLICT, THE CITY OF FAIRVIEW PARK REQUIREMENTS SHALL TAKE PRECEDENCE, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.

(B) ADMINISTRATIVE REQUIREMENTS:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL THE ADMINISTRATIVE DUTIES HEREIN CONTAINED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, BONDS, INSURANCE AND ANY ADDITIONAL INSPECTION OR REGISTRATION FEES REQUIRED TO PERFORM AND COMPLETE THE WORK.

THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONSTRUCTION DRAWINGS ON SITE AT ALL TIMES.

THE CONTRACTOR SHALL DESIGNATE AN EMPLOYEE RESPONSIBLE FOR CORRESPONDENCE, NOTIFICATIONS AND SUBMITTALS PERTINENT TO THE PROJECT.

(C) PRECONSTRUCTION MEETING:

A PRE-CONSTRUCTION MEETING WITH THE CONTRACTOR, REPRESENTATIVES OF ALL UTILITY COMPANIES, THE CITY OF FAIRVIEW PARK IS REQUIRED FOR THIS PROJECT PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY. PRIOR TO THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT A PROPOSED PROJECT CONSTRUCTION SCHEDULE TO THE CITY OF FAIRVIEW PARK FOR APPROVAL. THE CONTRACTOR SHALL INFORM THE CITY OF FAIRVIEW PARK AND ODOT DISTRICT 12 EIGHTEEN (18) DAYS PRIOR TO THE BEGINNING OF WORK.

(D) PROJECT SAFETY:

THE CONTRACTOR SHALL MAINTAIN A SAFE WORKING ENVIRONMENT AT ALL TIMES AND IS RESPONSIBLE FOR ENSURING THE SAFETY OF THE GENERAL PUBLIC AS WELL AS ALL CONSTRUCTION PERSONNEL.

THE CONTRACTOR SHALL PROPERLY SUPPORT AND/OR MAINTAIN ALL EXCAVATIONS PER APPLICABLE SAFETY REQUIREMENTS AND COMPLY WITH ALL OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA) REGULATIONS.

APPROPRIATE BARRICADES, WARNING LIGHTS, SIGNS, FENCING, ETC. SHALL BE ERRECTED AROUND THE CONSTRUCTION AREA DURING ALL NON-WORKING HOURS TO ALERT PERSONS OF THE POTENTIAL DANGER ASSOCIATED WITH THE AREA UNDER CONSTRUCTION AS WELL AS TO PREVENT ACCESS BY UNAUTHORIZED PERSONNEL TO THE CONSTRUCTION SITE/AREA.

THE CONTRACTOR SHALL ALERT ALL LOCAL EMERGENCY AGENCIES (FIRE, POLICE, AMBULANCE, ETC.) OF THE NATURE OF THE PROPOSED PROJECT PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY. ACCESS FOR EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES.

THE CONTRACTOR SHALL CONTACT AND ALERT THE CITY OF NORTH OLMSDED ENGINEERING DEPARTMENT REGARDING THE NATURE AND SCHEDULE OF THE PROPOSED WORK PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY. CITY OF NORTH OLMSDED ENGINEERING DEPARTMENT 5200 DOVER CENTER RD. NORTH OLMSDED, OHIO 44070 PHONE: 440-777-8000

(E) UNDERGROUND UTILITIES:

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS WERE OBTAINED BY FIELD OBSERVATIONS, FROM EXISTING RECORDS, AND/OR FROM THE OWNERS OF THE RESPECTIVE UTILITIES AS REQUIRED BY SECTION 153.64 O.R.C. THE INFORMATION AS SHOWN IS BELIEVED TO BE CORRECT; HOWEVER, THE COMPLETENESS AND ACCURACY OF THIS INFORMATION CANNOT BE GUARANTEED. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT ALL THE VARIOUS UTILITY COMPANIES (PUBLIC AND PRIVATE) TO VERIFY THE EXISTENCE, LIMITS AND/OR LOCATION OF ANY UTILITIES WHICH MAY BE ALONG THE ROUTE OR WITHIN THE VICINITY OF THIS IMPROVEMENT.

(F) UTILITY NOTIFICATION:

AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING OPERATIONS ON THIS PROJECT, THE CONTRACTOR SHALL NOTIFY THE CITY, THE OHIO UTILITIES PROTECTION SERVICE 1-800-362-2764 (CONTACT NON-MEMBERS DIRECTLY), AND THE OWNERS OF ANY OTHER UTILITIES (PUBLIC AND/OR PRIVATE) THAT MAY HAVE UTILITY LINES OR FACILITIES WITHIN THE VICINITY OF THIS PROJECT BUT WHO ARE NOT MEMBERS OF THE REGISTERED UTILITY PROTECTION SERVICE. THE MARKING AND/OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO WORKING DAYS AHEAD OF THE PLANNED CONSTRUCTION.

THE PRIMARY UTILITIES WITHIN THE PROJECT LIMITS AREA:

SANITARY AND STORM SEWER
CITY OF FAIRVIEW PARK SERVICE
DEPARTMENT
20777 LORAIN ROAD
FAIRVIEW PARK, OHIO 44126
PH: 440-356-4410

WATER
CITY OF CLEVELAND
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF WATER
1201 LAKESIDE AVENUE
CLEVELAND, OHIO 44114
PHONE: 216-664-2444

NATURAL GAS
DOMINION EAST OHIO
320 SPRINGSIDE DR. SUITE 320
AKRON, OHIO 44333
ATTN: BRYAN D. DAYTON
PHONE: 330-664-2409

POWER
FIRST ENERGY
6896 MILLER ROAD
BRECKSVILLE, OHIO 44141
ATTN: ENGINEERING SUPERVISOR
PHONE: 800-589-3101

(G) SURVEY INFORMATION:

PROJECT CONTROL COORDINATES FOR THIS PROJECT HAVE BEEN ESTABLISHED IN ACCORDANCE WITH PROCEDURES DETAILING THE CONVERSION OF "GRID" COORDINATES TO "GROUND" COORDINATES CONTAINED IN THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION SURVEY MANUAL SECTION 303.52 (MAY, 1995). SEE SHEET 2 OF THE PLANS FOR PROJECT CONTROLS INFORMATION.

(H) CONTINGENCY QUANTITIES:

WHEN SPECIFIED ON PLANS OR SPECIFICATIONS, CONTINGENCY QUANTITIES ARE TO BE PERFORMED ONLY UNDER DIRECTION OF THE CITY ENGINEER. THE CONTRACTOR SHALL NOT ORDER ANY CONTINGENCY MATERIAL OR PERFORM ANY WORK UNTIL DIRECTED BY THE CITY ENGINEER. THE ACTUAL WORK LOCATION AND QUANTITIES FOR SUCH ITEMS SHALL BE DOCUMENTED BY THE CONTRACTOR AND THE CITY ENGINEER.

(I) WORK HOURS:

PERFORM ALL WORK DURING THE HOURS OF 7:00 AM TO 7:00 PM UNLESS NOTED OTHERWISE. IT IS NOT PERMITTED TO WORK ON SATURDAY, SUNDAY OR ANY LEGAL HOLIDAY WITHOUT THE CITY'S WRITTEN CONSENT GIVEN AFTER WRITTEN NOTICE TO THE ENGINEER.

IF ANY WORK IS PERFORMED IN EXCESS OF 40 HOURS PER WEEK, THE CONTRACTOR SHALL COMPENSATE THE CITY FOR THE COST OF THE RESIDENT PROJECT REPRESENTATIVE AT THE RATE OF 1 1/2 TIMES THE ACTUAL HOURLY RATE PLUS 15%. THE BOROUGH SHALL INVOICE THE CONTRACTOR MONTHLY FOR SAID OVERTIME COSTS. IN THE EVENT THE CONTRACTOR FAILS TO COMPENSATE THE BOROUGH FOR SAID OVERTIME COSTS, THE AMOUNT OWED THE BOROUGH WILL BE DEDUCTED FROM THE CONTRACTOR'S APPLICATION FOR PAYMENT.

II CONSTRUCTION INCIDENTALS

(A) PLAN DISCREPANCIES:

THESE CONSTRUCTION PLANS HAVE BEEN DEVELOPED FOR ELECTRONIC FIELD LAYOUT AND ARE BEING PROVIDED SOLELY AS A CONVENIENCE TO THE USER. ANY DISCREPANCIES DISCOVERED IN THE PLAN INFORMATION, OR BETWEEN THE PLAN AND ELECTRONIC DATA, SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CITY ENGINEER SO THE APPROPRIATE ADJUSTMENTS MAY BE MADE PRIOR TO THE START OF CONSTRUCTION OR THE CONTINUATION OF THE SAME. THE DESIGN ENGINEER MAKES NO REPRESENTATION REGARDING FITNESS FOR ANY PARTICULAR PURPOSE, OR SUITABILITY FOR USE WITH ANY SOFTWARE OR HARDWARE. DUE TO THE EASILY ALTERABLE NATURE OF ELECTRONIC DOCUMENTS, THROUGH EITHER UNINTENTIONAL OR INTENTIONAL MEANS, THE DESIGN ENGINEER DOES NOT MAKE ANY EXPRESS OR IMPLIED WARRANTY FOR THE ACCURACY OR COMPLETENESS OF THIS INFORMATION AND THEREFORE, ACCEPTS NO LIABILITY FOR THE COMPLETENESS, CORRECTNESS OR READABILITY OF THE ELECTRONIC DATA. HARD COPIES (I.E., PRINTS, PAPER COPIES, ETC.) SHALL PREVAIL IN ANY DISPUTE OVER ACCURACY OR SUFFICIENCY OF ELECTRONIC DOCUMENTS.

FAILURE BY THE CONTRACTOR TO VERIFY AND/OR DETERMINE EXISTING INFORMATION AS INDICATED WILL RESULT IN THE CONTRACTOR BEING RESPONSIBLE FOR ANY CHANGES NECESSARY TO COMPLETE THE WORK SPECIFIED WITHOUT ADDITIONAL COMPENSATION.

(B) WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE CONTRACTOR SHALL PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES AS REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS. THE CONTRACTOR SHALL STAY WITHIN THE DESIGNATED PROPERTIES, EASEMENTS AND/OR RIGHT-OF-WAYS PROVIDED FOR THE PROJECT AT ALL TIMES. NO MATERIAL SHALL BE STORED NOR ANY WORK PERFORMED ON PRIVATE PROPERTY UNLESS OTHERWISE APPROVED BY THE

CABLE
AT&T OHIO
13630 LORAIN AVE., 3RD FLOOR
CLEVELAND, OHIO 44111
ATTN: JAMES JANIS
PHONE: 216-476-6142

COX CABLE
12221 PLAZA DR.
PARMA, OHIO 44130
ATTN: MARK PRESTON
PHONE: 216-535-3347
EMAIL: MARK.PRETON@COX.COM

WIDE OPEN WEST OHIO, LLC
105 BLAZE INDUSTRIAL PARKWAY
BEREA, OH 44017
ATTN: CHRIS HARROLD
PHONE: 440-625-0305
EMERGENCY: 440-915-8254
FAX: 440-625-0322

TRANSIT
GREATER CLEVELAND REGIONAL
TRANSIT AUTHORITY (GCRTA)
1240 WEST 6TH ST.
CLEVELAND, OHIO 44113
ATTN: PAUL BURLIJ
PHONE: 216-566-5217

CITY ENGINEER. THE CONTRACTOR MUST SUBMIT A WRITTEN REQUEST TO THE CITY ENGINEER TO USE ANY AREA OUTSIDE THESE LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. THE REQUEST MUST BE APPROVED, IN WRITING, BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA.

(C) VERIFICATION OF UNDERGROUND UTILITIES:

THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE EXISTENCE AS WELL AS THE ACTUAL LOCATION, ALIGNMENT, AND ELEVATIONS OF ALL EXISTING UTILITIES/FACILITIES WITHIN AND/OR ADJACENT TO THE GENERAL LIMITS OF THESE IMPROVEMENTS INCLUDING WATERLINES, SANITARY AND STORM SEWERS, GAS LINES, COMMUNICATION LINES/BANKS, ELECTRIC LINES, ETC. THIS MAY REQUIRE EXPLORATORY EXCAVATIONS TO BE PERFORMED BY THE CONTRACTOR. COST OF THE ABOVE, IF ANY, SHALL BE INCLUDED IN THE PRICE BID FOR THE PERTINENT ITEM. THE CONTRACTOR SHALL NOT ASSUME THAT EXISTING UTILITIES/CONDUITS WERE INSTALLED AT TYPICAL/STANDARD DEPTHS OR AT UNIFORM SLOPES/GRADES/DEPTHS BETWEEN ACCESS POINTS (CATCH BASINS, MANHOLES, JUNCTION CHAMBERS, ETC.)

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE CITY OF FAIRVIEW PARK, REPRESENTATIVES OF THE CITY OF FAIRVIEW PARK AND THE CONTRACTOR SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE CITY OF FAIRVIEW PARK. ALL EXISTING SEWERS INSPECTED SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY OF FAIRVIEW PARK.

IF IT IS DETERMINED THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE CITY ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE CITY ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

(D) PROTECTION OF UTILITIES:

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT AND SUPPORT EXISTING UTILITIES ENCOUNTERED DURING THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS AS APPROVED BY THE OWNERS OF THE UTILITY AND THE CITY ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE TO CLOSELY COORDINATE THEIR WORK WITH ALL UTILITY COMPANIES; ANY POTENTIAL DELAYS WILL NOT BE THE RESPONSIBILITY OF THE CITY.

THE CONTRACTOR SHOULD EXPECT AT A MINIMUM ONE SANITARY SEWER LATERAL, ONE ROOF DRAIN, ONE WATER SERVICE, AND ONE GAS SERVICE FOR EACH LOT. ANY OF THE ABOVE UTILITIES DAMAGED DUE TO THE CONTRACTOR'S WORK SHALL BE RESTORED TO THE UTILITY OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIFICATIONS.

THE CONTRACTOR SHALL BYPASS AND MAINTAIN THE FLOW IN EXISTING LIVE SANITARY OR STORM SEWERS DURING CONSTRUCTION AND THE METHOD EMPLOYED SHALL BE APPROVED BY THE RESPONSIBLE AGENCY. THIS COST SHALL BE INCLUDED IN THE PRICES BID FOR OTHER ITEMS OF WORK.

(E) MAINTENANCE OF UTILITY SERVICES:

THE CONTRACTOR SHALL MAINTAIN UTILITY SERVICES AT ALL TIMES WITHOUT INTERRUPTION, UNLESS APPROVED BY THE CITY ENGINEER.

WATER SERVICE MAY BE INTERRUPTED FOR LIMITED PERIODS (4 HOURS MAXIMUM) DURING CONNECTION BETWEEN EXISTING WATER LINES AND RELOCATED/NEW WATER MAINS WHICH CANNOT BE COMPLETED OTHERWISE. NO SHUT DOWN SHALL OCCUR WITHOUT WRITTEN PERMISSION OF THE CITY OF FAIRVIEW PARK. PROPERTY OWNERS AFFECTED BY APPROVED INTERRUPTED SERVICE SHALL BE NOTIFIED 48 HOURS IN ADVANCE BY THE CONTRACTOR.

IN THE EVENT THAT CONSTRUCTION DISRUPTS THE FLOW OF A SANITARY SEWER, THE CONTRACTOR SHALL IMMEDIATELY RECTIFY THE DISRUPTED SEWER BY EITHER TEMPORARILY FLUMING WITH MATERIALS ACCEPTABLE TO THE ENGINEER OR BYPASSING WITH PUMPS. COST OF MAINTAINING AND REPAIR OF SANITARY SEWERS DISTURBED BY CONSTRUCTION SHALL BE AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIFICATIONS.

THE CONTRACTOR SHALL CLEAN ALL STORM SEWERS, MANHOLES AND CATCH BASINS BEFORE ACCEPTANCE BY THE CITY OF FAIRVIEW PARK.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 ITEMS FOR NEWLY INSTALLED ITEMS.

(F) CONSTRUCTION NOISE:

CONSTRUCTION NOISE ASSOCIATED WITH ANY IMPROVEMENT PROJECT SHALL BE LIMITED TO LEVELS COMMENSURABLE WITH ADJOINING LAND AND THEIR ASSOCIATED USAGE AS DETERMINED BY THE CITY ENGINEER. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, ANY POWER-OPERATED CONSTRUCTION-TYPE DEVICES SHALL NOT BE OPERATED BETWEEN THE HOURS OF 7:00 P.M. AND 7:00 A.M. UNLESS AUTHORIZED BY THE CITY.

(G) OPEN TRENCH CONSTRUCTION:

THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE LOCAL AND STATE SAFETY REGULATIONS, INCLUDING CODE OF FEDERAL REGULATIONS, PART 1926 (SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION), SUBPART P (EXCAVATIONS), FOR ALL APPLICABLE REQUIREMENTS AND RESPONSIBILITIES.

THE CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION AND TRENCHING PRACTICES.

PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER OF THE PROJECT'S ASSIGNED "COMPETENT PERSON" IN OSHA EXCAVATION STANDARDS.

THE CONTRACTOR SHALL COORDINATE ALL WORK TO BE PERFORMED WITH EACH RESPECTIVE UTILITY COMPANY, INCLUDING WORK BEING PERFORMED DIRECTLY BY THE UTILITY COMPANIES, FOR MAIN OR SERVICE CONNECTIONS, DISCONNECTIONS, RELOCATIONS, DEMOLITION AND INSPECTIONS. THE CONTRACTOR SHALL SECURE AND PAY FOR ANY PERMITS, FEES AND UTILITY COMPANY CHARGES.

(H) TRENCH CLOSING AND TEMPORARY TOPPING:

THE CONTRACTOR SHALL PROTECT, SUPPORT AND SHORE UP ANY EXISTING UTILITY ENCOUNTERED DURING CONSTRUCTION AND COORDINATE ALL WORK TO BE PERFORMED WITH EACH RESPECTIVE UTILITY COMPANY, INCLUDING WORK BEING PERFORMED DIRECTLY BY THE UTILITY COMPANIES, FOR MAIN OR SERVICE CONNECTIONS, DISCONNECTIONS, RELOCATIONS, DEMOLITION AND INSPECTIONS. THE CONTRACTOR SHALL SECURE AND PAY FOR ANY PERMITS, FEES AND UTILITY COMPANY CHARGES.

THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE THE NECESSARY LEVELS OF PROTECTION AND SAFEGUARDING OF ALL OPEN TRENCHES, WHEN WORK IS EITHER ACTIVE, COMPLETED AT THE END OF THE DAY OR SUSPENDED FOR ANY OTHER REASON. THIS INCLUDES TRENCH PROTECTION SUCH AS TRENCH BOXES, WOOD SHEETING AND BRACING, OR ANY OTHER METHOD DETERMINED BY THE CONTRACTOR TO MAINTAIN A SAFE WORKING ENVIRONMENT. ALL EXCAVATIONS SHALL COMPLY WITH APPLICABLE LAWS AND REGULATIONS.

ALL TRENCHES SHALL BE TOPPED WITH 4" OF ODOT ITEM 304 WITHIN ROADWAY PAVEMENTS WHEN THE ROADWAY WILL BE OPENED TO VEHICULAR TRAFFIC PRIOR TO PAVEMENT REPLACEMENT. THE TRENCH TOPPING MATERIAL SHALL BE COMPACTED AND FLUSH WITH THE EXISTING ADJOINING PAVEMENT.

PAYMENT FOR 4" OF ODOT 304 IS INCIDENTAL TO THE PERTINENT 611 ITEMS

(I) WORK COORDINATION WITH OTHERS

THE CONTRACTOR SHALL COORDINATE HIS OPERATIONS WITH THE WORK FORCES OF UTILITY COMPANIES RELOCATING THEIR FACILITIES SO AS TO COMPLETE ALL SCHEDULED CONSTRUCTION ACTIVITIES WITHOUT UNDUE DELAY OR INTERFERENCE IN ACCORDANCE WITH ODOT ITEM 105.07. THE CONTRACTOR SHALL ARRANGE WITH OTHER WORK FORCES A MUTUALLY ACCEPTABLE WORK SCHEDULE SUBJECT TO THE APPROVAL OF THE CITY ENGINEER PRIOR TO COMMENCING ANY OPERATIONS. THE CONTRACTOR SHALL PRESENT ANY UNSOLVED SCHEDULE CONFLICTS WITH THE OTHER WORK FORCES IN WRITING TO THE CITY ENGINEER WITHIN TWO WORKING DAYS OF THE CONFLICT DISCOVERY. THE CITY ENGINEER WILL ATTEMPT CONFLICT RESOLUTION WITH THE OTHER WORK FORCES WITHIN TWO WORKING DAYS FOLLOWING RECEIPT OF THE CONTRACTOR'S NOTIFICATION. COMPENSATION FOR THE ABOVE COOPERATION SHALL BE INCIDENTAL TO THE VARIOUS PAY ITEMS WITHIN THE PROJECT.

(J) PRESERVATION AND RESTORATION OF DISTURBED FEATURES:

EXISTING DRIVES, BERMS, LAWNS, PAVEMENTS, CURBS, SIDEWALKS, SIGNS, MAILBOXES, FENCES, RETAINING WALLS, LANDSCAPING ITEMS, OR OTHER APPURTENANCES DISTURBED DURING CONSTRUCTION BUT NOT SPECIFICALLY DESIGNATED FOR REMOVAL OR REPLACEMENT SHALL BE RESTORED BY THE CONTRACTOR AT HIS EXPENSE TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO DISTURBANCE AND TO THE COMPLETE SATISFACTION OF THE CITY ENGINEER.

RESTORATION OF EXISTING ROADWAYS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY, COUNTY, STATE AND/OR OTHER AGENCIES HAVING AUTHORITY. COST FOR THE RESTORATION OF THESE ITEMS

SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS OTHERWISE SPECIFIED IN THE PLANS OR SPECIFICATIONS. NO PUBLIC ROADWAY SHALL BE DISTURBED WITHOUT PRIOR WRITTEN APPROVAL FROM THE GOVERNING AGENCY AND ACQUISITION OF NECESSARY PERMITS.

(K) CONSTRUCTION LAYOUT:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT STAKING INCLUDING HORIZONTAL AND VERTICAL CONTROL IN ACCORDANCE WITH ODOT 623. THESE PLANS HAVE BEEN DEVELOPED FOR ELECTRONIC LAYOUT STAKING. ANY DISCREPANCIES DISCOVERED IN THE PLAN INFORMATION, OR BETWEEN THE PLAN AND ELECTRONIC DATA, SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER SO THE APPROPRIATE ADJUSTMENTS MAY BE MADE PRIOR TO THE START OF OR THE CONTINUATION OF CONSTRUCTION. THE ENGINEER MAKES NO REPRESENTATION REGARDING FITNESS FOR ANY PARTICULAR PURPOSE, OR SUITABILITY FOR USE WITH ANY SOFTWARE OR HARDWARE. DUE TO THE EASILY ALTERABLE NATURE OF ELECTRONIC DOCUMENTS, THROUGH EITHER UNINTENTIONAL OR INTENTIONAL MEANS, THE ENGINEER DOES NOT MAKE ANY EXPRESS OR IMPLIED WARRANTY FOR THE ACCURACY OR COMPLETENESS OF THIS INFORMATION AND THEREFORE, ACCEPTS NO LIABILITY FOR THE COMPLETENESS, CORRECTNESS OR READABILITY OF THE ELECTRONIC DATA. HARD COPIES (I.E., PRINTS, PAPER COPIES, ETC.) SHALL PREVAIL IN ANY DISPUTE OVER ACCURACY OR SUFFICIENCY OF ELECTRONIC DOCUMENTS.

AT THE CITY ENGINEER'S REQUEST, THE CONTRACTOR SHALL MAKE AVAILABLE ALL SURVEY FIELD NOTES FOR REVIEW.

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION B23.

UNITS ARE IN U.S. SURVEY FEET.

EXISTING MONUMENT ASSEMBLIES SHALL BE ADJUSTED BY THE CONTRACTOR AS A RESULT IF ANY GRADE CHANGES. ANY MONUMENT DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN ACCORDANCE WITH ODOT CONSTRUCTION STANDARD DRAWINGS. MONUMENT ADJUSTMENT IS INCIDENTAL TO THE PROPOSED WALK OR PAVEMENT ITEMS WHERE IT IS LOCATED.

DAMAGED MONUMENT DURING CONSTRUCTION SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

(L) INSPECTION:

FOLLOWING THE PRE-CONSTRUCTION MEETING AND ESTABLISHMENT OF AN APPROVED SCHEDULE, THE CONTRACTOR SHALL GIVE A MINIMUM 48 HOUR NOTICE BEFORE STARTING ANY WORK ON THIS PROJECT AND SHALL KEEP THE CITY INFORMED OF HIS/HER CONSTRUCTION SCHEDULE. ALL WORK REQUIRED FOR THIS IMPROVEMENT SHALL BE SUBJECT TO INSPECTION BY THE CITY OF FAIRVIEW PARK OR THEIR DESIGNATED REPRESENTATIVE. NO WORK SHALL BE PERFORMED WITHOUT AN AUTHORIZED INSPECTOR PRESENT, UNLESS OTHERWISE APPROVED.

III SITE WORK

(A) EASEMENTS AND RIGHT-OF-WAY:

THE CONTRACTOR SHALL STAY WITHIN THE DESIGNATED PROPERTIES, EASEMENTS, AND/OR RIGHT-OF-WAY PROVIDED FOR THE PROJECT AT ALL TIMES. NO MATERIAL SHALL BE STORED NOR ANY WORK PERFORMED ON PRIVATE PROPERTY UNLESS OTHERWISE APPROVED. DISTURBANCE OF EXISTING FEATURES AND/OR IMPROVEMENTS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AND AS APPROVED BY THE CITY ENGINEER/PROPERTY OWNER.

IT IS THE INTENT OF THE SLOPES AND SPOT GRADES NOTED ON THE PLANS TO PROVIDE POSITIVE DRAINAGE TO STORM WATER COLLECTION POINTS. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES IMMEDIATELY TO THE DESIGN ENGINEER FOR RESOLUTION.

(B) SUITABILITY OF SITE:

ALL EXCAVATION IS CONSIDERED UNCLASSIFIED AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS AND MATERIALS OF CONSTRUCTION TO COMPLETE CONSTRUCTION AS DESIGNED. THE CITY OF FAIRVIEW PARK OR THE DESIGN ENGINEER SHALL NOT BE RESPONSIBLE FOR THE TYPE AND/OR SUITABILITY OF THE MATERIAL UNDERLYING THE PROJECT SITE. THE CONTRACTOR SHALL PERFORM ANY INVESTIGATIONS OR TESTING NECESSARY TO ADEQUATELY DETERMINE OR ESTIMATE TO HIS SATISFACTION ANY SITE CONDITION WHICH COULD AFFECT HIS BID OR THE PERFORMANCE OF THE PROPOSED IMPROVEMENTS. THIS COULD INCLUDE, BUT NOT BE LIMITED TO, UNSUITABLE/UNSTABLE SOIL/SUBSURFACE CONDITIONS, ROCK, WATER (PERCHED OR FREE), SPRINGS, ETC.

THE INTENT OF THIS PROJECT IS TO UTILIZE ALL USEABLE MATERIALS EFFICIENTLY. ACTUAL FIELD CONDITIONS MAY REQUIRE DECISIONS ON MATERIAL HANDLING AND USAGE. THE CONTRACTOR IS RESPONSIBLE FOR MONITORING AND MAINTAINING SITE CONDITIONS.

CALCULATED:
CIC

CHECKED:
SSA

GENERAL NOTES

CUY-SR 010 - 6.00
STREETSCAPE

4
57

III SITE WORK CONTINUED

EXCESS MATERIAL GENERATED FROM TRENCH EXCAVATION OPERATIONS SHALL BE INCORPORATED IN THE UNIT PRICE BID FOR 611 RELATED ITEMS INCLUDING EXCAVATION AND EMBANKMENT CONSTRUCTION.

AREAS OF EXPOSED PAVEMENT SUBGRADE SHALL BE MAINTAINED IN SUCH CONDITION THAT IT WILL BE WELL DRAINED AT ALL TIMES TO PREVENT POUNDING OF WATER.

IV ROADWAY

- (A) **ITEM 201 – CLEARING AND GRUBBING, AS PER PLAN:**
LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR THIS ITEM. ALL ITEMS IN THE PROJECT AREA THAT SHALL BE REMOVED TO INSTALL THE PROPOSED IMPROVEMENTS ARE INCLUDED IN THIS LUMP SUM UNLESS NOTED OTHERWISE ON THE CONSTRUCTION DOCUMENTS.

- (B) **ITEM 202 – PAVEMENT REMOVED, AS PER PLAN:**
PAVEMENT REMOVAL SHALL INCLUDE ALL EXISTING LAYERS. THIS ITEM WILL BE USED IN CROSSWALK AREAS, CURB EXTENSIONS AND AT CURB REPAIR LOCATION IN THE PROJECT AREA.

- (C) **ITEM 202 – WALK REMOVED, AS PER PLAN:**
THIS ITEM TO BE USED IN EXISTING BRICK SIDEWALK THAT WILL BE REMOVED IN THE PROJECT AREA. CONTRACTOR SHALL SALVAGE AND STORE THE EXISTING BRICK. CONTRACTOR TO REFER TO EXISTING CONDITION/ REMOVAL PLAN (SHEET 19-24) FOR AREA TO BE REMOVED OF THIS ITEM.

- (D) **ITEM 202 – REMOVAL MISC.: TRASH RECEPTACLE**

THIS ITEM TO BE TO REMOVE EXISTING TRASH RECEPTACLE IN THE PROJECT AREA. CONTRACTOR TO CONTACT THE CITY TO CHECK IF THEY WANT THIS ITEMS SALVAGED OR DISPOSED OFF SITE.

- (E) **ITEM 203 – EXCAVATION, AS PER PLAN:**

THE CONTRACTOR SHALL UNDERCUT AND REPLACE UNSUITABLE MATERIAL ENCOUNTERED DURING INSTALLATION OF THE PROPOSED UTILITIES OR ROADWAY WITH COMPACTED FILL OR STABILIZED IN PLACE UTILIZING CONVENTIONAL MEASURES SUCH AS DISCING, AERATION AND RECOMPACTION. ON-SITE MATERIAL MAY BE USED AS ENGINEERED FILL MATERIALS PROVIDED THEY ARE FREE OF ORGANIC MATTER, DEBRIS, EXCESSIVE MOISTURE, AND ROCK OR STONE FRAGMENTS 3" AND LARGER. OTHER MEANS OF STABILIZATION SHALL BE AT THE DISCRETION OF THE OWNER AND THE ENGINEER.

(IF NECESSARY), TEST FOR DISPOSAL AND DISPOSE OF REGULATED MATERIALS, INCLUDING ANY REQUIRED PERMITS, APPROVALS OR FEES WITHIN THE LIMITS IDENTIFIED ABOVE.

IF ANY EXCAVATIONS WITHIN THE VICINITY OF THE FOLLOWING LOCATION REQUIRE DEWATERING FOR CONSTRUCTION PURPOSES, THE CONTRACTOR SHALL DEWATER, CONTAINERIZE AND SUBSEQUENTLY DISPOSE OF THE WATER BY A METHOD APPROVED BY THE CITY ENGINEER.

ALL WORK ABOVE IS INCIDENTAL TO ITEM 203 – EXCAVATION AS PER PLAN.

THE FOLLOWING ESTIMATED CONTINGENCY QUANTITY HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:
203 – EXCAVATION AS PER PLAN 20 CY

V ROADWAY/DRIVE APPROACHES/ WALK/CURB

- (A) **PAVEMENT STANDARDS:**
PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT CONSTRUCTION DRAWINGS AND SPECIFICATIONS AND ODOT SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED.

- (B) **ASPHALT/CONCRETE:**
IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE OF BEGINNING WORK WHICH REQUIRES COMPACTION TESTING AND/OR PRE-POUR INSPECTION PRIOR TO PLACEMENT OF ASPHALT OR CONCRETE. WORK SHALL NOT PROCEED UNTIL TESTING AND/OR INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE CITY ENGINEER.

- (C) **RESTRICTED WORK SCHEDULE:**
NO CONCRETE FINISH WORK OR PERMANENT ASPHALT SHALL BE PLACED FROM NOVEMBER 15TH TO APRIL 15TH UNLESS WRITTEN APPROVAL IS GRANTED BY THE CITY ENGINEER.

- (D) **DROP CURB AT DRIVEWAYS**
THE CONTRACTOR SHALL PROVIDE HAND FORMED DROP CURBS FOR ALL PROPOSED DRIVEWAYS AT THE TIME THE CONCRETE CURB IS POURED. THIS WORK IS INCIDENTAL TO ITEM 609 – CURB, TYPE 6.

- (E) **ITEM 304 – AGGREGATE BASE, AS PER PLAN**
GRANULATED SLAG SHALL NOT BE PERMITTED FOR THIS ITEM. ALL OTHER REQUIREMENTS OF SECTIONS 304 AND 703.17 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL STILL BE APPLICABLE.

- (F) **ITEM 451 – 15" STAMPED CONCRETE, AS PER PLAN**
DESCRIPTION:
A. THE WORK IN THIS SECTION SHALL BE DESIGNATED AS STAMPED, COLORED CONCRETE IN THE PLANS.
B. THE WORK SHALL INCLUDE ALL LABOR, MATERIAL, EQUIPMENT AND TRANSPORTATION REQUIRED TO COMPLETE THE INSTALLATION OF DECORATIVE PAVEMENT.
C. THE CONTRACTOR FOR THIS WORK SHALL BE A LICENSED CONTRACTOR WHO HAS BEEN TRAINED AND EQUIPPED BY A NATIONAL COMPANY THAT LICENSES CONTRACTORS TO INSTALL THEIR PROPRIETARY SYSTEM. SEE SHEET 57 FOR STAMPED CONCRETE DETAIL.

DEFINITIONS:
A. STAMPED, COLORED CONCRETE: A CAST-IN-PLACE COLORED CONCRETE SLAB THAT IS STAMPED WITH A PATTERN, TEXTURED, AND FLASHED WITH COLOR. THE WORK IS PERFORMED ON THE JOB-SITE BY TRAINED AND EXPERIENCED WORKMEN.

RELATED WORK:
A. PREPARATION WORK, INCLUDING SUB-GRADE PREPARATION, FINISH GRADING, AND SETTING OF FORMS AND SCREEDS.
B. PROVIDE AND PLACE CONCRETE.
C. PROVIDE AND APPLY COLOR HARDENER.
D. PROVIDE AND APPLY RELEASE AGENT.
E. PROVIDE AND APPLY IMPRINTING TOOLS IN THE PATTERN PER SPECIFICATIONS AND PLANS.
F. GROUT STAMPED JOINTS.

QUALITY ASSURANCE:
A. ALL STAMPED, COLORED CONCRETE WORK SHALL BE INSTALLED BY A LICENSED CONTRACTOR WHO SHALL PROVIDE A FOREMAN OR SUPERVISOR WHO HAS SUCCESSFULLY COMPLETED A MINIMUM OF THREE SIMILAR INSTALLATIONS.
B. ALL STAMPED, COLORED CONCRETE WORK SHALL COMPLY WITH THE CURRENT SPECIFICATIONS AND QUALITY STANDARDS ISSUED BY THE NATIONAL COMPANY THAT THE CONTRACTOR IS LICENSED UNDER.
C. THE CONTRACTOR SHALL PROVIDE A JOBSITE SAMPLE TO BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE ADDITIONAL SAMPLES WITH OTHER COLORS, FINISHES, AND TEXTURES AS DIRECTED BY THE LANDSCAPE ARCHITECT AT NO ADDITIONAL COST TO THE PROJECT. IF ANOTHER JOBSITE SAMPLE IS SELECTED OTHER THAN WHAT IS HEREIN SPECIFIED, IT SHALL BE AT NO ADDITIONAL COST TO THE PROJECT.

PRODUCTS AND MATERIAL:

AGGREGATE BASE:
A. AGGREGATE BASE SHALL BE ODOT 304 LIMESTONE (NO SLAG).

CONCRETE DESIGN MIX:
A. THE CONCRETE SHALL BE IN ACCORDANCE WITH ODOT SECTION 451. USE OF FLY ASH IN THE CONCRETE MIX IS NOT PERMITTED. ADMIXTURES CONTAINING CALCIUM CHLORIDE ARE NOT PERMITTED.

CONCRETE COLORING:
A. 15" THICK STAMPED COLORED CONCRETE: AT A MINIMUM, THE TOP 4" SHALL BE INTEGRALLY COLORED. COLOR SHALL BE EQUIVALENT TO AUTUMN BEIGE. THE ENTIRE 15" DEPTH SHALL BE CONSTRUCTED AS ONE INTEGRAL POUR.

COLOR HARDENER:
A. IN ADDITION TO THE INTEGRAL COLORING OF THE CONCRETE SLAB, THE CONCRETE SHALL BE COLORED WITH A COLOR HARDENER. COLOR SHALL BE EQUIVALENT TO AUTUMN BEIGE FLASHED WITH A COLOR EQUIVALENT TO BROWNSTONE.
B. COLOR HARDENER SHALL BE REGULAR GRADE.

RELEASE AGENT:
A. RELEASE AGENT COLOR SHALL BE EQUIVALENT TO BROWNSTONE. THE RELEASE AGENT COLOR SHALL BE APPLIED TO ALL CONCRETE SURFACES TO BE STAMPED WITH IMPRINTING TOOLS.

IMPRINTING PATTERN:
A. IMPRINTING PATTERN SHALL BE RUNNING BOND USED BRICK WITH A SOLDIER COURSE USED BRICK BORDER. DIRECTION OF PATTERN SHALL BE AS INDICATED ON THE PLANS.

STAMPED JOINTS:
A. STAMPED JOINTS IN THE PATTERN SHALL BE GROUDED. COLOR OF GROUDED JOINTS SHALL BE GRAY.

INSTALLATION PROCEDURES:
A. THE AREA TO RECEIVE STAMPED, COLORED CONCRETE SHALL HAVE THE SUB-GRADE PREPARED IN

- ACCORDANCE WITH ODOT SECTION 204.03.
B. AGGREGATE BASE SHALL BE INSTALLED IN ACCORDANCE WITH ODOT 304.02 TO 304.07
C. THE FORM WORK SHALL BE INSTALLED PER THE STAMPED, COLORED CONCRETE SYSTEM SPECIFICATIONS, AND THE SLAB THICKNESS SHALL BE PER PLANS.
D. UNLESS OTHERWISE SHOWN ON THE PLANS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR INSTALLING THE STAMPED, COLORED CONCRETE SYSTEM TO DETERMINE LOCATIONS, TYPES AND SIZES OF JOINTS WITHIN THE STAMPED AREAS IN ORDER TO ENSURE PROPER INSTALLATION AND LONGEVITY OF THIS PROPRIETARY SYSTEM. JOINTS SHALL BE AS UNOBTRUSIVE AS POSSIBLE AND SHALL FIT IN WITH THE JOINTS IN THE STAMPED CONCRETE PATTERN.
E. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL THE ENTIRE CONCRETE DEPTH IN AN INTEGRAL MANNER TO ENSURE STRUCTURAL INTEGRITY OF THE PAVEMENT.
F. THE CONCRETE SHALL BE PLACED AND SCREED TO THE FINISHED GRADE AND FLOATED TO A UNIFORM SURFACE IN THE STANDARD METHOD.
G. COLOR HARDENER SHALL BE APPLIED EVENLY TO THE PLASTIC SURFACE BY THE DRY-SHAKE METHOD USING A MINIMUM OF 60 POUNDS PER 100 SQUARE FEET. IT SHALL BE APPLIED IN TWO OR MORE SHAKES, FLOATED AFTER EACH AND TROWELED ONLY AFTER THE FINAL FLOATING. APPLY SEPARATE FLASH COLOR AT A RATE APPROVED BY THE LANDSCAPE ARCHITECT.
H. RELEASE AGENT SHALL BE APPLIED EVENLY TO THE SURFACE.
I. WHILE THE CONCRETE IS STILL IN THE PLASTIC STAGE OF SET, THE IMPRINTING TOOLS SHALL BE APPLIED TO MAKE THE SPECIFIED IMPRESSIONS TO THE SURFACE.
J. AFTER INITIAL CURING, THE IMPRESSIONS SHALL BE GROUDED, IF APPROVED BY THE LANDSCAPE ARCHITECT IN THE JOBSITE SAMPLE.

- (G) **ITEM 608 – 4" CONCRETE WALK, AS PER PLAN**
THE QUANTITY SHOWN ON GENERAL SUMMARY FOR ITEM 608 – CONCRETE WALK, AS PER PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS SHOWN ON SHEET 57. ALL ITEMS LOCATED IN THE CONCRETE WALK AREA SUCH AS UNDERGROUND UTILITY BOXES, VALVES AND PULL BOXES TO BE ADJUSTED TO GRADE AND INCIDENTAL TO THIS ITEM.

- (H) **ITEM 608 – 8" CONCRETE WALK, AS PER PLAN**
THE QUANTITY SHOWN ON GENERAL SUMMARY FOR ITEM 608 – CONCRETE WALK, AS PER PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS SHOWN ON SHEET 57. ALL ITEMS LOCATED IN THE CONCRETE WALK AREA SUCH AS UNDERGROUND UTILITY BOXES, VALVES AND PULL BOXES TO BE ADJUSTED TO GRADE AND INCIDENTAL TO THIS ITEM.
THE CONTRACTOR SHALL USE HIGH EARLY STRENGTH CONCRETE (QC-FS) FOR THE CONSTRUCTION OF ALL ACTIVE DRIVE APPROACHES AND APRONS.

- (I) **ITEM 608 – WALKWAY, MISC.: RESET EXISTING BRICK SIDEWALK**
RESET EXISTING BRICK SIDEWALK SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS SHOWN ON SHEET 57. PAYMENT FOR ITEM 608 – WALKWAY, MISC.: RESET EXISTING BRICK SIDEWALK SHALL BE MADE AT THE CONTRACT UNIT PRICE PER SQUARE FOOT OF BRICK SIDEWALK AREAS TO BE RESET AND INDICATED ON THE PLANS AND SHALL INCLUDE THE REMOVAL AND RESET OF EXISTING BRICK SIDEWALK PAVERS, 1-INCH SAND SETTING BED AND CONCRETE BASE.

- (J) **ITEM 608 – DETECTABLE WARNING, PER PLAN:**
ADA COMPLIANT DETECTABLE WARNING DEVICES SHALL BE IN CONFORMANCE TO ODOT ITEM 712.14, AND MANUFACTURED FROM REINFORCED POLYMER COMPOSITE POLYMER, DESIGNED TO BE PHYSICALLY EMBEDDED INTO THE CONCRETE, AND AS REQUIRED TO PROVIDE PATTERNS AS INDICATED ON PLANS, OR AS REQUIRED TO MEET ADA AND ODOT REQUIREMENTS. COLOR TO BE RED, TO MATCH EXISTING DETECTABLE WARNING DEVICES AT THE INTERSECTION OF LORAIN ROAD AND WEST 222ND STREET.

- (K) **ITEM 632 – SIGNALIZATION MISC.: PEDESTRIAN SIGNAL PROVISIONS AS PER PLANS:**
THIS WORK IS TO RELOCATE EXISTING PEDESTRIAN SIGNAL HEADS, PUSHBUTTONS, AND SIGNS SHOWN ON THE PLANS (SEE SHEET 22) AND CONSISTS OF THE FOLLOWING:
A. TWO PEDESTRIAN SIGNAL HEAD RELOCATION.
B. TWO PUSHBUTTON RELOCATION.
C. TWO POLE MOUNTED SIGNS RELOCATION.
D. ONE PEDESTRIAN SIGNAL SUPPORT REMOVAL.
E. ALL EXISTING WIRING, CONDUITS AND PULLBOXES REVISIONS NEEDED TO RECONNECT THE RELOCATED PEDESTRIAN SIGNAL HEADS AND PUSHBUTTONS.
F. ANY NEW CONDUITS, WIRING, PULLBOXES AND HARDWARES NEEDED.

- (A) **ITEM 690 – SPECIAL TRASH RECEPTACLE:**
TRASH RECEPTACLE SHALL BE ONE OF THE FOLLOWING:
1. BASIS OF DESIGN – IRONSITES SERIES MODEL #: S-42 BY VICTOR STANLEY INC., P.O. BOX DRAWER 330, DUNKIRK, MD 20754, OHIO SALES REP: AARON CHEW, STREETSCAPE PRODUCTS LTD., COLUMBUS, OH, PHONE 614-354-5605.
2. AVENUE RECEPTACLE AVE-36 BY PETERSON MFG., 2471 HWY. 30, DENISON, IA 51442, PHONE 800-832-7383.

3. RECEPTACLE 157-40 LITTER RECEPTACLE BY DUMOR, INC., P.O. BOX 142, MIFFLINTOWN, PA 17059, PHONE 800-598-4018

TRASH RECEPTACLE STYLE:
1. TOP LOADING AND VERTICAL SIDES (NOT TAPERED).
2. 36 GALLON MINIMUM
3. 250 LBS MINIMUM.
4. STANDARD LID
5. SURFACE MOUNTING. PROVIDE ANCHOR BOLTS TO SECURELY ATTACH RECEPTACLE TO PAVEMENT AS RECOMMENDED BY THE MANUFACTURER. ANCHOR BOLTS TO BE MINIMUM LENGTH 6", RUST AND TAMPER PROOF.

COMPONENTS:
1. FORTY-TWO (42) – 3/8" X 1" VERT STEEL BARS, 5/8" SOLID STEEL TOP RING, TWO (2) 1 1/4" X 2 1/2" HORIZONTAL STEEL BANDS, STANDARD TAPERED FORM LID, VINYL COATED STEEL AIRCRAFT CABLE SECURING LID TO BODY, LEVELING FEET, AND ANCHOR BOLT HOLE
2. LINER: 36 GALLON BLACK HIGH DENSITY PLASTIC LINER.
3. FINISH: ELECTROSTATICALLY POWDER COATED WITH POLYESTER POWDER COATING MINIMUM OF 8-10 MILS THICK.

- (A) **ITEM 690 – RELOCATED ROUND PLANTER:**
CONTRACTOR TO RELOCATE ROUND PLANTERS TO LOCATIONS SHOWN ON THE PROPOSED LAYOUT PLANS. RELOCATED PLANTERS TO BE PLANTED BY OTHERS.

- (B) **ITEM 690 – RELOCATED BENCH:**
CONTRACTOR TO RELOCATE BENCHES TO LOCATIONS SHOWN ON THE PROPOSED LAYOUT PLANS. CONTRACTOR TO INSTALL AND ANCHOR THE BENCHES TO CONCRETE PAD.

VI SANITARY SEWERS/STORM SEWERS

- (A) **STANDARDS:**
ALL SANITARY/STORM SEWER CONDUITS AND APPURTENANCES SHALL BE CONSTRUCTED PER ODOT SPECIFICATIONS, UNLESS SPECIFIED OTHERWISE.

- (B) UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.
(1) THE MINIMUM SLOPE SHALL BE 0.5%.

- (C) **ITEM 611 – (BY SIZE) CONDUIT, TYPE B**

VII LANDSCAPING:

SEE SHEET 9 FOR PLANTS QUANTITIES AND 56 FOR PLANT LIST, PLANTING NOTES AND DETAILS.

- (A) **ITEM 661 – RAISED PLANTER, AS PER PLAN:**
PLANTING, MISC. GEOTEXTILE FABRIC FOR RAISED PLANTERS, AS PER PLANS
RAISED PLANTERS SHALL BE ONE OF THE FOLLOWING:
1. CORONADO RECTANGULAR FIBERGLASS PLANTER, 60" LENGTH X 18" WIDTH X 18" HEIGHT. TEXTURE: SMOOTH. COLOR: STATUARY BRONZE. PLANTERS SHALL BE FURNISHED WITH A MINIMUM OF FOUR (4) 1/2" DIA. WEEP HOLES IN BOTTOM, SPACED A MINIMUM OF 12" ON CENTER. MANUFACTURED BY: THE CHANDLER COMPANY, 2621 SOUTH BIRCH STREET, SANTA ANA, CA 92707, PHONE 714-979-4212.
2. AXIS FIBERGLASS PLANTER, 60" WIDTH X 14" DEPTH X 16" HEIGHT. TEXTURE: SMOOTH. COLOR: ESPRESSO. PLANTERS SHALL BE FURNISHED WITH A MINIMUM OF FOUR (4) 1/2" DIA. WEEP HOLES IN BOTTOM, SPACED A MINIMUM OF 12" ON CENTER. MANUFACTURED BY: INTERNATIONAL ART PROPERTIES, 101 HENRY ADAMS STREET, SUITE 380, SAN FRANCISCO, CA 94103, PHONE 415-863-3406.
3. GEO RECTANGLE GLASS FIBER REINFORCED CONCRETE PLANTER, 60" LENGTH X 16" WIDTH X 24" HEIGHT. FINISH: PERMA SPEC CONCRETE STAINED FINISH. COLOR: BEECHWOOD. PLANTERS SHALL BE FURNISHED WITH A MINIMUM OF FOUR (4) 1/2" DIA. WEEP HOLES IN BOTTOM, SPACED A MINIMUM OF 12" ON CENTER. MANUFACTURED BY: ARCHITECTURAL POTTERY, 15161 VAN BUREN STREET, MIDWAY CITY, CALIFORNIA 92655, PHONE 714-895-3359.
4. STANDARD RECTANGLE FIBERGLASS PLANTER, 60" LENGTH X 15" WIDTH X 18" HEIGHT. TEXTURE: MATTE. COLOR: DARK WINE. PLANTERS SHALL BE FURNISHED WITH A MINIMUM OF FOUR (4) 1/2" DIA. WEEP HOLES IN BOTTOM, SPACED A MINIMUM OF 12" ON CENTER. MANUFACTURED BY: OLD TOWN FIBERGLASS, ORANGE, CA. LOCAL REP.: AARON CHEW, STREETSCAPE PRODUCTS LTD., COLUMBUS, OH, PHONE 614-354-5605.
GEOTEXTILE FABRIC FOR RAISED PLANTERS SHALL BE ODOT TYPE D.
SOIL MIX FOR RAISED PLANTERS SHALL BE IN ACCORDANCE WITH LANDSCAPE WORK SPECIFICATIONS.

MAINTENANCE OF TRAFFIC:

(A) MAINTAINING TRAFFIC:

THE CONTRACTOR SHALL MAINTAIN TRAFFIC ADJACENT TO AND THROUGH THE PROJECT IN ACCORDANCE WITH ODOT ITEM 614 MAINTAINING TRAFFIC. THE CONTRACTOR SHALL FURNISH, MAINTAIN AND REMOVE ALL SIGNS, FLAGS, FLAGMEN, WATCHMEN, BARRICADES, SIGN SUPPORTS, CONES, BARRELS AND INCIDENTALS IN CONFORMANCE WITH THE MOST RECENT REVISIONS OF THE CURRENT EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS. INTERFERENCE WITH VEHICULAR TRAFFIC SHALL BE KEPT TO A MINIMUM AT ALL TIMES. ALL OPEN TRENCHES AND EXCAVATIONS SHALL BE PROTECTED WITH BARRICADES, DRUMS, OR BARRIERS. ACCESS SHALL BE MAINTAINED AT ALL TIMES FOR EMERGENCY VEHICLES.

ANY TEMPORARY ROADWAY CLOSING MUST BE APPROVED IN WRITING BY THE CITY TRAFFIC ENGINEER AND ANY OTHER PUBLIC AGENCY HAVING JURISDICTION. THE CONTRACTOR SHALL NOTIFY THE TRAFFIC ENGINEER AT LEAST 72 HOURS IN ADVANCE OF ANY SUCH CLOSINGS FOR PUBLICATION AND EMERGENCY AGENCY NOTIFICATION.

A MINIMUM OF ONE TEN (10) FOOT LANE OF TRAFFIC IN EACH DIRECTION ALONG LORAIN ROAD (SR10) SHALL BE MAINTAINED AT ALL TIMES, BY EITHER THE USE OF THE EXISTING PAVEMENT OR NEW PAVEMENT.

TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC, THE LENGTH AND DURATION OF LANE CLOSURES, LANE RESTRICTIONS AND TIME RESTRICTIONS SHALL BE KEPT TO A MINIMUM OR AT THE DIRECTION OF THE CITY ENGINEER. LANE CLOSURES OR RESTRICTIONS WHERE NO WORK IS ANTICIPATED WITHIN A REASONABLE AMOUNT OF TIME SHALL NOT BE PERMITTED.

CONSTRUCTION IN A GIVEN PHASE MUST BE COMPLETED PRIOR TO BEGINNING THE NEXT PHASE, UNLESS APPROVED BY THE CITY ENGINEER. TREE GRATES AND LANDSCAPING ITEMS DO NOT NEED TO BE COMPLETED PRIOR TO MOVING TO THE NEXT PHASE.

THE CONTRACTOR SHALL DIVERT TRAFFIC FROM NORMAL LANES BY PLASTIC SAFETY DRUMS, VERTICAL PANEL OR CONES, TEMPORARY TRAFFIC SIGNS AND WORK ZONE PAVEMENT MARKINGS IF NEEDED.

CONES SHALL NOT BE ACCEPTABLE TRAFFIC CONTROL DEVICES FOR LANE RESTRICTIONS OR LANE REDUCTIONS THAT ARE IN OPERATION ONE-HALF HOUR AFTER SUNSET OR ONE HALF-HOUR BEFORE SUNRISE. ALL NIGHTTIME LANE RESTRICTIONS SHALL REQUIRE DRUMS OR BARRICADES AT A MAXIMUM SPACING OF FIFTY (50) FEET. WEIGHTED CHANNELIZERS MAY BE USED IN ACCORDANCE WITH THE STANDARD CONSTRUCTION DRAWINGS.

LONGITUDINAL VERTICAL FACES ABUTTING ACTIVE DRIVE APRONS SHALL BE TEMPORARILY RAMPED TO PROVIDE LOCAL ACCESS. TRANSVERSE VERTICAL FACES SHALL BE TEMPORARILY RAMPED A MINIMUM LENGTH OF 10- FEET IN EACH DIRECTION WITH W8-1 "BUMP" WARNING SIGNS PLACED IN ADVANCE OF EACH RAMPED AREA.

PRIOR TO OPENING TO TRAFFIC, EACH LANE SHALL BE IN A SAFE, PASSABLE CONDITION. ALL TRANSVERSE JOINTS SHALL EXTEND ACROSS THE FULL LANE AND SHOULDER WIDTH AND EACH LANE SHALL BE FREE FROM UNEVEN LONGITUDINAL JOINTS. THE CONTRACTOR SHALL PROVIDE ASPHALT WEDGES FOR TRANSVERSE JOINTS WHEREVER THERE ARE PAVEMENT ELEVATION DIFFERENCES.

ALL FULL DEPTH PAVEMENT REMOVAL AND REPLACEMENT OPERATIONS SHALL BE COMPLETED THE SAME DAY THE EXCAVATION IS MADE. IF THE CONTRACTOR CANNOT COMPLETE THE WORK, THE EXCAVATION SHALL BE BACKFILLED OR PROTECTED WITH DRUMS OR PORTABLE CONCRETE BARRIER.

ONLY DURING OFF-PEAK PERIODS (i.e. ANY PERIOD OTHER THAN 6-8AM AND 3-6PM) SHALL THE CONTRACTOR INSTALL AND SUBSEQUENTLY RESET ANY TRAFFIC CONTROL NECESSARY FOR THE WORK ZONE FOR EACH CONSTRUCTION PHASE.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC DEVICES.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

(B) PLACEMENT OF ASPHALT CONCRETE:

TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT ONE-WAY TRAFFIC WILL BE PERMITTED FOR MINIMUM PERIODS OF TIME CONSISTENT WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR PROTECTION OF COMPLETED ASPHALT CONCRETE COURSES.

(C) RESIDENTIAL AND BUSINESS AREAS:

THE CONTRACTOR SHALL MAINTAIN SAFE AND SATISFACTORY ACCESS TO ABUTTING PROPERTIES DURING CONSTRUCTION. IN THE EVENT A DRIVE ACCESS NEEDS TO BE CLOSED, THE CONTRACTOR SHALL GIVE NOTICE OF CLOSURE AND DURATION TO THE PROPERTY OWNER 48 HOURS IN

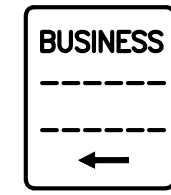
ADVANCE. THE CONTRACTOR SHALL ARRANGE FOR ALTERNATE PARKING AND REASONABLE ACCESS FOR THOSE PROPERTY OWNERS AFFECTED BY DRIVE CLOSURES.

(D) ITEM 614 - BUSINESS ENTRANCE SIGN

THE BUSINESS ENTRANCE (M4-H15) SIGN SHOULD BE PROVIDED AT EACH TEMPORARILY RELOCATED COMMERCIAL DRIVEWAY FOR WHICH THE RELOCATION IS NOT OBVIOUS TO THE MOTORIST. THE CITY ENGINEER SHALL DETERMINE WHETHER OR NOT THE DRIVEWAY RELOCATION IS OR IS NOT OBVIOUS AND WHETHER OR NOT A SIGN SHOULD BE PROVIDED. ONLY ONE SIGN PER BUSINESS SHALL BE PERMITTED.

THE SIGN SHALL BE 3 FEET WIDE BY 4 FEET TALL WITH 6" WHITE LETTERING ON A GREEN REFLECTIVE BACKGROUND WITH THE STANDARD M4-H15 LEGEND WITH THE WORD "BUSINESS" ON THE TOP LINE, EXCEPT UNDER UNUSUAL CIRCUMSTANCES WHERE IT MAY NOT BE INTUITIVE THAT A DRIVEWAY SERVES A SPECIFIC BUSINESS. IN SUCH UNUSUAL CASES, THE ACTUAL BUSINESS NAME MAY BE SUBSTITUTED FOR THE WORD "BUSINESS".

THE SIGN SHALL BE CLEARLY VISIBLE, IDENTIFY THE LOCATION OF THE DRIVEWAY AND BE POSITIONED AT 90 DEGREES TO THE DIRECTION OF TRAFFIC. THE SIGN MAY NEED TO BE MOVED FOR EACH PHASE OF THE MAINTENANCE OF TRAFFIC OPERATIONS.



WZ-SPECIAL BUSINESS-R

A WZ-SPECIAL BUSINESS-R SIGN IS SIMILAR TO THE SIGN SHOWN ABOVE EXCEPT THE ARROW POINTS TO THE RIGHT. AN INSTALLATION WILL INCLUDE BOTH A WZ SPECIAL BUSINESS SIGN ON A POST SUPPORT AS PER ODOT STANDARD DRAWING MT 105.11.

PAYMENT WILL BE MADE FOR EACH INSTALLATION WHICH INCLUDES INSTALLATION, MAINTENANCE, REPLACEMENT OF THE INSTALLATION SHOULD IT BECOME DAMAGED, AND SUBSEQUENT REMOVAL.

(E) TRAFFIC CONTROL INSPECTOR

THE CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL OTHER THAN THE SUPERINTENDENT AND SUBJECT TO THE APPROVAL OF THE ENGINEER, TO CONTINUOUSLY INSPECT ALL TRAFFIC CONTROL DEVICES WHENEVER CONSTRUCTION WORK IS BEING PERFORMED WITHIN THE WORK LIMITS OF THE PROJECT. THE DESIGNATED INDIVIDUAL SHALL ALSO INSPECT ALL TRAFFIC DEVICES AT THE BEGINNING AND AT THE END OF EACH WORK DAY. THE DESIGNATED INDIVIDUAL OR A QUALIFIED REPRESENTATIVE SHALL ALSO BE AVAILABLE ON AN AROUND THE CLOCK BASIS TO REPAIR AND/OR REPLACE DAMAGED OR MISSING TRAFFIC CONTROL DEVICES. THESE INDIVIDUALS SHALL BE EQUIPPED WITH CELLULAR PHONES AND THEIR NAMES AND PHONE NUMBERS SHALL BE GIVEN TO THE PROJECT ENGINEER AT THE PRE-CONSTRUCTION MEETING. THE DESIGNATED INDIVIDUAL MAY HAVE OTHER CONSTRUCTION RELATED DUTIES AS LONG AS IMMEDIATE ATTENTION IS GIVEN TO TRAFFIC CONTROL. PAYMENT FOR THE SERVICES OF THE TRAFFIC CONTROL INSPECTOR SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

(F) NEW STREET NAME AND TRAFFIC CONTROL SIGNS:

ALL STREET NAME AND TRAFFIC CONTROL SIGNS SHALL COME COMPLETE AND BE MADE IN ACCORDANCE WITH ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS.

(G) EXISTING TRAFFIC SIGNALS:

WHERE WORK REQUIRES INTERFERENCE WITH EXISTING SIGNALIZATION IN THE INTERSECTIONS, ALL WORK SHALL BE COORDINATED THROUGH THE CITY ENGINEER. THE CONTRACTOR SHALL NOT ALTER ANY SIGNALIZATION WITHOUT THE CITY ENGINEER'S AUTHORIZATION.

(H) TRAFFIC CONTROL PLAN:

CONTRACTOR SHALL UTILIZE PHASE 1 & 2 DETAILS SHOWN ON SHEET -&- FOR MAINTAINING TRAFFIC DURING CONSTRUCTION. PAYMENT OF THIS WORK IS INCIDENTAL TO THE LUMP SUM ITEM 614 - MAINTAINING TRAFFIC.

(I) DETOUR NOTIFICATION

IF DURING CONSTRUCTION, MAINTAINING TRAFFIC IN BOTH WAYS WAS INFEASIBLE, THE CONTRACTOR SHALL SUBMIT A PLAN AND ADVISE THE CITY OF FAIRVIEW PARK A MINIMUM OF SEVEN (7) DAYS IN ADVANCE OF WHEN THE DETOUR ROUTES SHOULD BE IN EFFECT. ALL WORK ZONE DEVICES REQUIRED SHALL BE FURNISHED, ERECTED, MAINTAINED AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR. PAYMENT OF THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID ITEM 614 - DETOUR SIGNING.

(J) SIDE STREET CLOSURE

SIDE STREET CONSTRUCTION SHALL BE PERFORMED DURING THE APPROPRIATE PHASE USING PART WIDTH CONSTRUCTION. ONE LANE OF TRAFFIC SHALL BE MAINTAINED IN EACH DIRECTION ON THE SIDE STREETS UNLESS OTHERWISE SHOWN ON THE PLANS OR WRITTEN PERMISSION IS OBTAINED FROM THE CITY.

(K) OVERNIGHT TRENCH CLOSING

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH OF NO MORE THAN THREE INCHES BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (25 FEET OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED BASE WIDENING SHALL BE BACKFILLED AT THE DIRECTION OF THE CITY ENGINEER.

(L) ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), A UNIFORMED LAW ENFORCEMENT OFFICER AND OFFICIAL PATROL CAR WITH WORKING TOP MOUNTED EMERGENCY FLASHING LIGHTS SHALL BE PROVIDED FOR CONTROLLING TRAFFIC FOR THE FOLLOWING TASKS:

- FOR LANE CLOSURES: DURING INITIAL SET UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED.
- DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.
- DURING PHASE CHANGES.
- DURING MODIFICATION, CLOSING OR MAINTAINING A SIGNALIZED INTERSECTION DURING REMOVAL OR INSTALLATION.

LAW ENFORCEMENT OFFICERS (LEOS) SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED. THE LEOS ARE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH THEY ARE EMPLOYED BY THE CONTRACTOR, THE ENGINEER SHALL HAVE CONTROL OVER THEIR PLACEMENT. THE OFFICIAL PATROL CAR SHALL BE A PUBLIC SAFETY VEHICLE AS REQUIRED BY THE OHIO REVISED CODE. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THESE SERVICES WITH:

FAIRVIEW PARK POLICE DEPARTMENT
CITY HALL, 20777 LORAIN ROAD
FAIRVIEW PARK, OHIO 44126
PHONE: 440-356-4415

THE HOURS PAID SHALL INCLUDE MINIMUM SHOW UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

IF CONTRACTOR WISHES TO UTILIZE LEOS FOR FLAGGING AND TRAFFIC CONTROL, OTHER THAN FOR THAT REQUIRED IN THESE PLANS, THEY MAY DO SO AT THEIR OWN EXPENSE, PAYMENT FOR THE EXCESS ABOVE THE CONTRACT REQUIREMENTS WILL BE INCLUDED UNDER ITEM 614 MAINTAINING TRAFFIC.

(A) FLOODLIGHTING

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS OR TO ANY RESIDENCE/BUSINESS. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AN OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 MAINTAINING TRAFFIC.

(B) MANHOLES AND VALVES

ALL CASINGS ENCOUNTERED SHALL BE SET TO GRADE AND PAID FOR UNDER VARIOUS ITEMS DESCRIBED ELSEWHERE IN THE ROADWAY GENERAL NOTES AND SPECIFICATIONS. ANY CASTINGS EXPOSED TO TRAFFIC HAVING AN ELEVATION DIFFERENTIAL GREATER THAN 1 1/4" SHALL HAVE A TEMPORARY WEDGE OF ASPHALT CONCRETE FOR MAINTAINING TRAFFIC.

(C) UTILITY WORK

EXCAVATIONS MADE FOR CONDUIT OR UTILITIES IN OPEN TRENCHES SHALL BE ADEQUATELY MAINTAINED AND PROTECTED AT ALL TIMES. THE USE OF METAL PLATES OVER OPEN TRENCHES IS ONLY PERMITTED IMMEDIATELY AFTER THE EXCAVATION IN ORDER TO MAINTAIN THE ROADWAY LANES TO TRAFFIC. UPON COMPLETING THE SUBSURFACE CONNECTIONS, THE OPENING SHALL BE RETURNED TO THE ROADWAY SURFACE LEVEL WITH APPROVED MATERIAL.

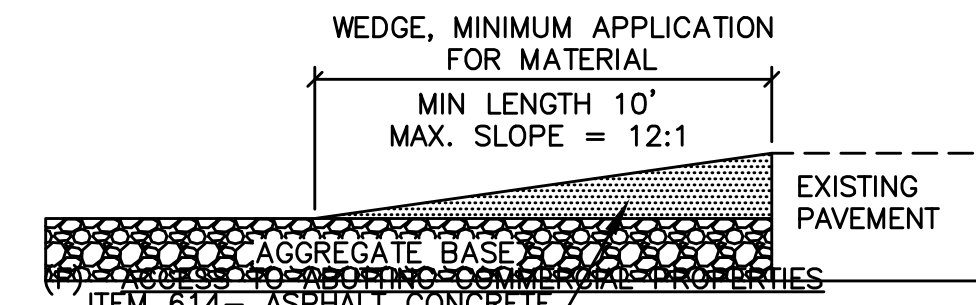
(D) TEMPORARY DRAINAGE

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ADEQUATE DRAINAGE OF THE TRAVELED ROADWAYS DURING ALL PHASES OF CONSTRUCTION USING EXISTING DRAINAGE FACILITIES, TEMPORARY DRAINAGE FACILITIES, AND PERMANENT DRAINAGE FACILITIES.

(E) TEMPORARY RAMPING OF VERTICAL SURFACES AT DRIVEWAYS

IN ORDER TO PROVIDE FOR LOCAL ACCESS, LONGITUDINAL VERTICAL FACES ABUTTING DRIVES SHALL BE TEMPORARILY RAMPED AS DETAILED BELOW. TRANSVERSE VERTICAL FACES SHALL BE TEMPORARILY RAMPED A MINIMUM OF TEN FEET IN LENGTH AND TRAFFIC SHALL BE WARNED WITH W8-1 "BUMP" SIGNS IN ADVANCE OF THE RAMPED AREAS. THE GRADE BREAK SHALL NOT EXCEED A MAXIMUM OF 8 PERCENT AT EITHER END OF THE WEDGE.

ALL TEMPORARY RAMPING SHALL BE INSTALLED, AT THE DIRECTION OF THE ENGINEER, USING ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC.



FOR MAINTAINING TRAFFIC LOCATIONS ALONG THE ROAD IN THE PROJECT AREA SHALL BE MAINTAINED BY THE CONTRACTOR UNDER DIRECTION OF THE ENGINEER. THE ENGINEER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE COMMERCIAL PROPERTIES ALONG THE ROAD ARE DEPENDENT UPON CUSTOMER ACCESS DURING NORMAL BUSINESS HOURS. THEREFORE, ANY WORK ON A COMMERCIAL DRIVE THAT REQUIRES INTERFERENCE WITH ACCESS TO PROPERTY SHALL BE PERFORMED AFTER CLOSING TIME FOR THE AFFECTED PROPERTY, UNLESS PROVIDED OTHERWISE IN THIS NOTE. THE CONTRACTOR SHALL SCHEDULE THE DRIVEWAY CONSTRUCTION SUCH THAT ACCESS IS MAINTAINED BY MEANS OF THE EXISTING DRIVE, A TEMPORARY DRIVE OF MATERIAL APPROVED BY THE ENGINEER, OR THE PROPOSED DRIVE.

FOR COMMERCIAL PROPERTIES WITH TWO DRIVEWAYS WHERE INGRESS AND EGRESS IS AVAILABLE FOR BOTH OF THE DRIVEWAYS, THE CONTRACTOR SHALL PROVIDE ACCESS AT ALL TIMES TO ONE OF THE DRIVEWAYS WHILE THE OTHER DRIVEWAY IS RECONSTRUCTED. FOR COMMERCIAL PROPERTIES WITH ONE DRIVEWAY THE CONTRACTOR SHALL PROVIDE ACCESS AT ALL TIMES BY USING PART WIDTH CONSTRUCTION. FOR COMMERCIAL PROPERTIES WITH TWO DRIVEWAYS WHERE ONE OF THE DRIVES IS USED EXCLUSIVELY AS AN ENTRANCE AND THE OTHER IS USED EXCLUSIVELY AS AN EXIT, THE CONTRACTOR SHALL PROVIDE ACCESS AT ALL TIMES FOR BOTH OF THE DRIVEWAYS BY USING PART WIDTH CONSTRUCTION.

THE CONTRACTOR, UPON DIRECTION OF THE ENGINEER, SHALL USE CLASS QC-FS CONCRETE IN ACCORDANCE WITH CMS ITEM 499 TO EXPEDITE DRIVEWAY WORK AT SELECTED LOCATIONS. PAYMENT FOR CLASS FS CONCRETE WILL BE AS A SURCHARGE TO THE UNIT PRICE PER CUBIC YARD OF CONCRETE.

(G) TRENCH FOR WIDENING

THE OPENING TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIALS SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

CALCULATED: SSA
CHECKED: JGG

MAINTENANCE OF TRAFFIC NOTES

CUY- SR 010 - 6.00
STREETSCAPE

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(G) NIGHT WORK

THE CONTRACTOR'S NEED TO WORK BETWEEN SUNSET TO SUNRISE SHALL HAVE PRIOR APPROVAL FROM THE CITY. THE WRITTEN REQUEST SHOULD HAVE A 5 DAY ADVANCE NOTICE. THE REQUEST TO WORK BETWEEN THESE HOURS SHALL INCLUDE THE TYPE OF WORK TO BE DONE, EQUIPMENT TO BE USED, THE DURATION AND THE LOCATION. A TEMPORARY LIGHTING PLAN SHALL BE REQUIRED (SEE THE "FLOODLIGHTING" NOTE SHEET 7).

(H) TRAFFIC LIMITATIONS

RE-ESTABLISH NORMAL TRAFFIC PATTERNS DURING THE FOLLOWING HOLIDAYS AND SPECIAL EVENTS:

MEMORIAL DAY - SATURDAY, SUNDAY AND MONDAY.

LABORDAY - SATURDAY, SUNDAY AND MONDAY.

(I) CONSTRUCTION SEQUENCE - GENERAL

THE CONTRACTOR SHALL DIVIDE THE ENTIRE PROJECT LENGTH INTO CONVENIENT CONSTRUCTION SECTIONS.

THE CONTRACTOR SHALL COMPLETE ALL WORK IN A GIVEN CONSTRUCTION SECTION BEFORE BEGINNING ANY WORK IN A SUBSEQUENT SECTION, UNLESS OTHERWISE APPROVED BY THE ENGINEER. NORMAL VEHICULAR TRAFFIC SHALL BE MAINTAINED AT ALL TIMES BEYOND THE WORK LIMITS OF THE SECTION CURRENTLY UNDER CONSTRUCTION.

NO CHANGE IN TRAFFIC PATTERN SHALL TAKE PLACE DURING PEAK HOURS, 6:00 AM TO 9:00 AM AND 3:00 PM TO 6:00 PM, MONDAY THROUGH FRIDAY.

LOCATION OF ADVANCE WARNING SIGNS SHALL BE ADJUSTED TO PROVIDE FOR ADEQUATE SIGHT DISTANCE.

DRUMS SHALL BE PLACED 25' C/C APART ON THE MAIN LINE AND 10' C/C APART ON TAPER LENGTHS, AND 5' C/C AT RADI UNLESS OTHERWISE SPECIFIED. WHEN THE USE OF DRUMS IN LIEU OF TEMPORARY PAVEMENT MARKINGS IS APPROVED BY THE DIVISION OF TRAFFIC ENGINEERING, DRUMS SHALL BE PLACED 10' C/C APART IN ALL LOCATIONS EXCLUDING RADI.

(J) PHASE SEQUENCE:

PHASE I:

CONSTRUCTION AREA: SOUTH SIDE OF LORAIN ROAD FROM STA. 10+00 TO STA. 39+50.

WORK DESCRIPTION: TREE PLANTINGS, INSTALLING BENCHES, RESTORING TREE LAWN THROUGH CONCRETE REMOVAL AND INSTALLING LAWN AND LANDSCAPED AREAS AND REPLACING CONCRETE WALK SECTIONS.

MAINTENANCE OF TRAFFIC: TWO WAY TRAFFIC TO MAINTAINED AT ALL TIMES UTILIZING ODOT STANDARD CONSTRUCTION DRAWING FOR LONG TERM CLOSING RIGHT LANES OF A MULTI-LANE UNDIVIDED HIGHWAY WITH DRUMS (MT-95.30 & MT-95.31).

PHASE II:

CONSTRUCTION AREA: NORTH SIDE OF LORAIN ROAD FROM STA. 10+00 TO STA. 39+50.

WORK DESCRIPTION: TREE PLANTINGS, INSTALLING BENCHES, RESTORING TREE LAWN THROUGH CONCRETE REMOVAL AND INSTALLING LAWN AND LANDSCAPED AREAS, REPLACING CONCRETE WALK SECTIONS, INSTALLING LANDSCAPED ISLANDS (BUMP OUTS)

MAINTENANCE OF TRAFFIC: TWO WAY TRAFFIC TO MAINTAINED AT ALL TIMES UTILIZING ODOT STANDARD CONSTRUCTION DRAWING FOR LONG TERM CLOSING RIGHT LANES OF A MULTI-LANE UNDIVIDED HIGHWAY WITH DRUMS (MT-95.30 & MT-95.31).

PHASE III

STORM WORK AND CROSSWALKS: AT PROPOSED STORM LINE, OTHER UTILITY LATERALS, AND CROSSWALKS LOCATED IN THE ROADWAY AND NOT COVERED BY PHASE I AND II, CONTRACTOR TO PROVIDE TRAFFIC CONTROL SCENARIOS IN ACCORDANCE WITH ODOTCD.

CONTRACTOR TO UTILIZE ODOTCD, CURRENT EDITION, LATEST REVISION, FIGURES 6H-6 (SHOULDER WORK WITH MINOR ENCROACHMENT, TA-6), 6H-26 (CLOSURE IN THE CENTER OF AN INTERSECTION, TA-26), 6H-27 (CLOSURE AT THE SIDE OF AN INTERSECTION, TA-27) WHILE INSTALLING PROPOSED IMPROVEMENTS AT STREET INTERSECTION. CONTRACTOR TO INSTALL ANY ADDITIONAL SIGNAGE, APPROPRIATE PAVEMENT MARKING AND ANY ADDITIONAL ITEMS REQUIRED FOR LONG TERM LANE CLOSURE.

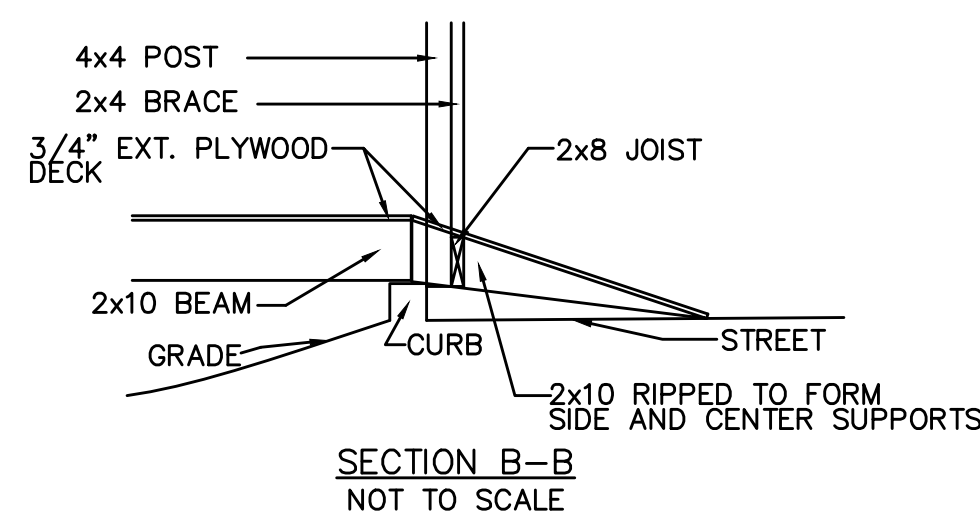
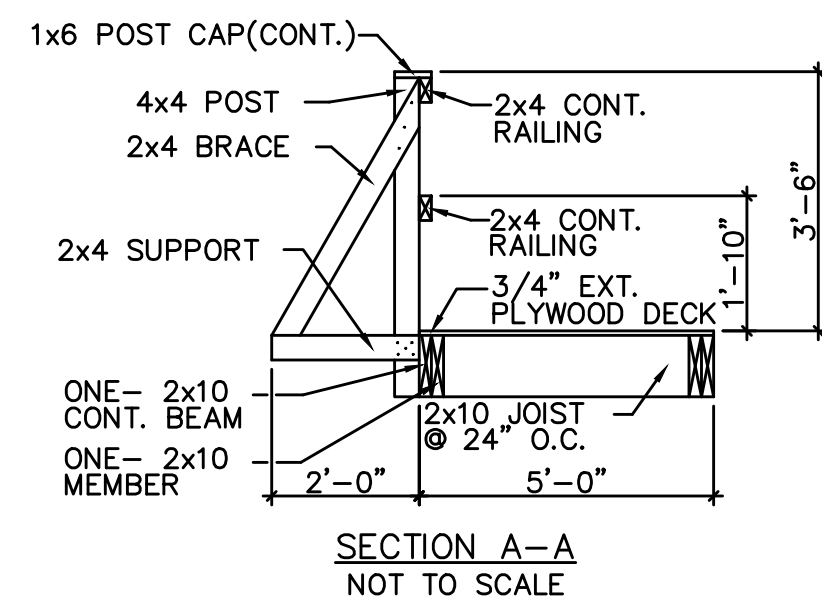
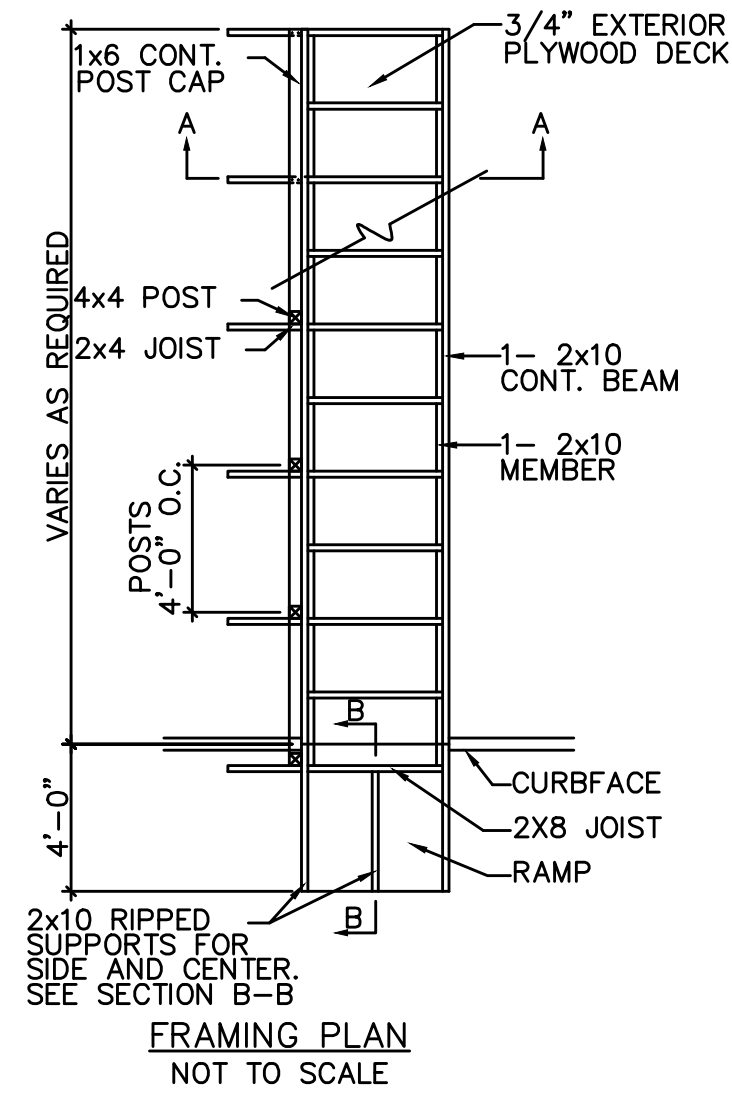
(K) MAINTENANCE OF PEDESTRIAN TRAFFIC

THE CONTRACTOR SHALL TAKE ADEQUATE PROVISIONS (I.E. TEMPORARY WALKWAYS, DETOURS, ETC.) FOR THE SAFETY OF PEDESTRIANS WITHIN THE WORK ZONE.

AT EXISTING SIDEWALK OR CROSSWALK LOCATIONS WHERE PEDESTRIAN TRAFFIC CAN NOT BE MAINTAINED, PROVIDE PEDESTRIAN TRAFFIC CONTROL IN ACCORDANCE WITH THE ODOTCD, CURRENT EDITION, LATEST REVISION, FIGURES

6H-28 (SIDEWALK DETOUR OR DIVERSION, TA-28) AND 6H-29 (CROSSWALK CLOSURES AND PEDESTRIAN DETOURS, TA-29).

THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS TO THE FRONT DOORS OF ALL STORES, OFFICES, RTA BUS STOPS, ETC., AS WELL AS ACCESS TO ALL RESIDENCES, DURING HIS/HER CONSTRUCTION, WITH TEMPORARY CONCRETE OR ASPHALT PAVEMENTS OR PEDESTRIAN BRIDGES. THE PEDESTRIAN BRIDGES ARE DETAILED ON THIS SHEET. EXISTING CONCRETE OR ASPHALT PAVEMENTS (PRIOR TO DEMOLITION) MAY BE USED FOR THE PURPOSES OF REROUTING PEDESTRIAN TRAFFIC. THESE PROVISIONS SHALL BE ADHERED TO TO MAINTAIN ACCESS TO BUILDING ENTRANCES AT ALL TIMES. TEMPORARY ACCESS TO ALL BUILDING ENTRANCES SHALL BE PROVIDED IMMEDIATELY UPON REMOVAL OF EXISTING PAVEMENT. IF A PORTION OF THE PEDESTRIAN WAY IS REROUTED DUE TO CONSTRUCTION, THE PATH OF TRAVEL SHALL BE CLEARLY DEFINED. THE CONTRACTOR SHALL SUBMIT A PEDESTRIAN ACCESS PLAN (INDICATING PEDESTRIAN ACCESS, LIMITATION, REROUTING AND NOTIFICATION) TO THE ENGINEER FOR REVIEW AND APPROVAL. "SIDEWALK CLOSED" SIGNS ON THE MAINTENANCE OF TRAFFIC PLANS REFER TO THE EXISTING SIDEWALKS AND DO NOT AUTHORIZE THE CONTRACTOR TO ELIMINATE PEDESTRIAN ACCESS TO ANY BUSINESSES OR RESIDENCES.



- NOTES:
1. THE CONTRACTOR SHALL ESTABLISH A 5' WIDE PEDESTRIAN ZONE, INDICATED BY BARRICADES AND LIGHTS ALONG THE PORTION OF THE SITE UNDER CONSTRUCTION TO PROVIDE ACCESS TO TEMPORARY WOOD WALKWAYS.
 2. RAMP AT BUILDING ENTRANCE MUST BE ADJUSTED TO ACCOMMODATE VARYING ENTRANCE CONDITIONS.

PEDESTRIAN TEMPORARY WALKWAYS (OR EQUAL) NOT TO SCALE

CALCULATED: SSA
CHECKED: JGG

MAINTENANCE OF TRAFFIC NOTES

CUY-SR 010 - 6.00
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GENERAL SUMMARY

ITEM	SHEET NUMBER											PARTICIPATION		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.		
	19	20	21	22	23	24	43	54			5-56										
LANDSCAPE																					
653							58							58		653	10003	58	CY	SOIL MIX FOR RAISED PLANTERS, AS PER PLAN	5
659														570		659	10000	570	SY	SEEDING AND MULCHING, AS PER PLAN	54
661														9		661	40101	9	EACH	SKYLINE HONEYLOCUST, AS PER PLAN	54
661														44		661	40103	44	EACH	CANADA RED CHOKEBERRY, AS PER PLAN	54
661														40		661	40105	40	EACH	IVORY SILK JAPANESE TREE LILAC, AS PER PLAN	54
661														38		661	40107	38	EACH	DARK TOWER BLACKHAW VIBURNUM, AS PER PLAN	54
661														95		661	20021	95	EACH	BURGUNDY CANDY NINEBARK, AS PER PLAN	54
661														48		661	20023	48	EACH	GRO-LOW FRAGRANT SUMAC, AS PER PLAN	54
661														97		661	20025	97	EACH	PINK DRIFT ROSE, AS PER PLAN	54
661														269		661	14001	269	EACH	KARL FOERSTER REED GRASS, AS PER PLAN	54
661														503		661	14003	503	EACH	BLUE DUNE LYME GRASS, AS PER PLAN	54
661														322		661	14005	322	EACH	WALKER'S LOW CATMINT, AS PER PLAN	54
661														150		661	14007	150	EACH	LITTLE SPIRE RUSSIAN SAGE, AS PER PLAN	54
661														103		661	14009	103	EACH	THE BLUES LITTLE BLUESTEM, AS PER PLAN	54
661														181		661	14011	181	EACH	BLACK JACK SEDUM, AS PER PLAN	54
661														312		661	14013	312	EACH	SAPPHIRE BLUE OAT GRASS (RAISED PLANTER), AS PER PLAN	54
661														264		661	14015	264	EACH	THE BLUES LITTLE BLUESTEM (RAISED PLANTER), AS PER PLAN	54
661														166		661	99900	166	EACH	RAISED PLANTER, AS PER PLAN	5,43
661														1038		661	99920	1038	SF	PLANTING, MISC. GEOTEXTILE FABRIC FOR RAISED PLANTERS, AS PER PLANS	5,54
EROSION CONTROL																					
690	-	15	5	15	20	30								85		690	76020	85	FT	SPECIAL -- 8" COMPOST FILTER SOCK FOR INLET PROTECTION	
832	-	-	-	-	-	-								2000		832	30000	2000	EACH	EROSION CONTROL	
TRAFFIC CONTROL																					
632														LS		632	26000	LS		SIGNALIZATION, MISC.: PEDESTRIAN SIGNAL REVISIONS AS PER PLANS	
642	20	16	16	100	15	15	0							182		642	30010	182	SF	REMOVAL OF PAVEMENT MARKING	
644	323	100	211	273	81	223	223							1434		644	00600	1434	FT	CROSSWALK LINE	22
644	86	49	28	87	15	29	28							322		644	00500	322	FT	STOP LINE	
INCIDENTALS																					
614														LS		614	11000	LS		MAINTAINING TRAFFIC	
														50		614	11110	50	HOURLY	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
619														5		619	16000	5	MNTH	FIELD OFFICE, TYPE A	
623														LS		623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
624														LS		624	10000	LS		MOBILIZATION	

CALCULATED: BK
CHECKED: SA

GENERAL SUMMARY

CUY-SR 010 - 6.00
STREETSCAPE

SITE AND PROJECT INFORMATION

PROJECT NAME AND LOCATION:

PROJECT NAME:
CUY-SR 010-0.600 STREETScape

LOCATION:

LORAIN ROAD (SR-10) FROM FAIRVIEW PARK WEST CORPORATION LINE TO WEST 221 STREET. LOCATED IN THE CITY OF FAIRVIEW PARK, COUNTY OF CUYAHOGA, STATE OF OHIO.

OWNER INFORMATION:

CITY OF FAIRVIEW PARK
20777 LORAIN ROAD
FAIRVIEW PARK, OHIO 44126
CONTACT: SHAWN LEININGER, PUBLIC SERVICE & DEVELOPMENT DIRECTOR
PHONE: 440-356-4412

PROJECT DESCRIPTION:

THE PROJECT WORK INVOLVES TREE PLANTINGS, INSTALLING BENCHES, RESTORING TREE LAWN THROUGH CONCRETE REMOVAL AND INSTALLING LAWN AND LANDSCAPED AREAS, REPLACING CONCRETE WALK SECTIONS, INSTALLING LANDSCAPED ISLANDS (BUMP OUTS) TO BETTER DEFINE PARKING AND REDUCE CROSSWALK LENGTHS AT INTERSECTIONS.

PRIOR LAND USE:

EXISTING 4-LANE ASPHALT PAVED ROAD WITH SIDEWALKS ON BOTH SIDES OF THE ROAD SERVING EXISTING RETAIL BUSINESSES AND RESIDENTIAL HOUSES. UNDERGROUND UTILITIES CONSIST OF SANITARY SEWERS, STORM SEWERS, WATER LINES, AND GAS LINES.

TYPE OF CONSTRUCTION (CHECK ALL THAT APPLY):

MAINTENANCE RETAIL CENTER COMMERCIAL
REDEVELOPMENT MANUFACTURING INDUSTRIAL
NEW DEVELOPMENT HEALTH FACILITY SUBDIVISION
 OTHER: STREETScape PROJECT OUTLOT

SITE AREA SUMMARY:

TOTAL PROJECT SITE AREA: 5.4 AC.
AREA TO BE DISTURBED: 0.8 AC.
PRE-DEVELOPMENT RUN-OFF COEFFICIENT: 98
POST-DEVELOPMENT RUN-OFF COEFFICIENT: 98
ESTIMATED CONSTRUCTION START DATE: 3/2019
ESTIMATED CONSTRUCTION COMPLETION DATE: 8/2019

SITE SOIL TYPES AND DESCRIPTIONS:

NAME	DESCRIPTION	% OF SITE
UoB	URBAN LAND, OSHTEMO COMPLEX, UNDULATING	100%

NAME OF RECEIVING STREAM OR SURFACE WATER:

ONSITE DRAINAGE SYSTEM.

EROSION AND SEDIMENT CONTROL MEASURES USED ON THE SITE:

STORM DRAIN INLET PROTECTION, TEMPORARY SEEDING, AND MULCHING.

SOIL PROTECTION CHART

STABILIZATION TYPE	J	F	M	A	M	J	J	A	S	O	N	D
PERMANENT SEEDING			●	●	●	*	*	*	●	●		
TEMPORARY SEEDING			●	●	●	*	*	*	●	●		
SODDING			*	*	*	*	*	*				
MULCHING	●	●	●	●	●	●	●	●	●	●	●	●

(*) - IRRIGATION NEEDED

GENERAL NOTES

- PRIOR TO COMMENCING WORK, SUBCONTRACTORS INVOLVED IN SWPPP IMPLEMENTATION OR ACTIVITIES THAT IMPACT STORM WATER SHALL COMPLETE THE "SUBCONTRACTOR CERTIFICATION /AGREEMENT FOR SWPPP" ACKNOWLEDGING THEY UNDERSTOOD THE CONDITIONS AND THEIR RESPONSIBILITIES.
- THE CONTRACTOR SHALL USE EROSION CONTROL MEASURES AS NECESSARY TO PREVENT SEDIMENT MOVEMENT INTO STORM SEWERS. SPECIAL PRECAUTIONS IN CONSTRUCTION EQUIPMENT USE SHALL BE MADE TO PREVENT SITUATIONS THAT PROMOTE EROSION. CLEANUP SHALL BE DONE IN A MANNER THAT DOES NOT DISTURB EROSION CONTROL MEASURES.
- SOIL STOCKPILES SHALL BE RINGED WITH SILT FENCE ALONG THE BOTTOM FOOTPRINT. IF THE STOCKPILE WILL BE INACTIVE FOR 21 DAYS OR MORE, THE SURFACE SHALL BE SEEDED OR STABILIZED WITHIN 7 DAYS OF LAST ACTIVITY.
- THE CONTRACTOR MAY NEED ADDITIONAL DEWATERING OR EROSION AND SEDIMENTATION PREVENTION MEASURES TO CONTEND WITH GROUNDWATER, GROUNDWATER, STORM WATER AND SEDIMENT BEARING DRAINAGE SHALL BE FILTERED TO ALLOW REMOVAL OF SILT, SEDIMENT, DEBRIS AND OTHER POLLUTANTS PRIOR TO DISCHARGE FROM THE SITE (I.E. SETTLING IN PLACE OR DEWATERING INTO A SUMP PIT OR FILTER BAG). SETTLED MATERIAL SHALL BE DISPOSED OF IN A STABILIZED LOCATION WHERE IT WILL NOT BE CARRIED OFF-SITE OR INTO A STORM SEWER BY RAINFALL. WATER WITH A VISIBLE SHEEN MUST BE REMOVED BY A VACUUM TRUCK. THERE SHALL BE NO TURBID OR MURKY DISCHARGES TO SURFACE WATERS RESULTING FROM DEWATERING ACTIVITIES. GROUNDWATER DEWATERING WHICH DOES NOT CONTAIN SEDIMENT OR OTHER POLLUTANTS DOES NOT REQUIRE TREATMENT PRIOR TO DISCHARGE, BUT CARE MUST BE TAKEN TO ENSURE IT DOES NOT BECOME POLLUTANT-LADEN BY TRAVERSING OVER DISTURBED SOILS OR OTHER POLLUTANT SOURCES OR ERODE THE DISCHARGE AREA.
- IF UNFORESEEN ENVIRONMENTAL CONDITIONS ARE ENCOUNTERED, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE NECESSARY. IF THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION OR MAINTENANCE THAT COULD DISCHARGE POLLUTANTS TO SURFACE WATERS, THE REVISION TO THE SWPPP MUST BE COMPLETED AS SOON AS PRACTICAL AND PRIOR TO THE NEXT STORM EVENT. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY ALSO BE REQUESTED BY THE CITY OF CANTON, SOIL AND WATER CONSERVATION DISTRICT, OR OHIO EPA AT ANYTIME. SUCH REQUEST SHALL BE IMPLEMENTED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO CLEARING, GRUBBING, GRADING OR OTHER CONSTRUCTION ACTIVITY AND SHALL CONTINUE TO FUNCTION UNTIL UPLAND DISTURBED AREAS ARE STABILIZED. APPROPRIATE CONTROLS SHALL BE CONSTRUCTED OR EXISTING CONTROLS ALTERED TO ADDRESS CHANGING DRAINAGE PATTERNS AS CONSTRUCTION PROGRESSES.
- A QUALIFIED INSPECTION PERSON SHALL COMPLETE AND SIGN A CHECKLIST FOLLOWING EACH INSPECTION. AT A MINIMUM, THE INSPECTION REPORT MUST INCLUDE THE FOLLOWING:
 - INSPECTION DATE.
 - INSPECTION PERSON'S NAME, TITLE AND QUALIFICATION.
 - WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION, ESTIMATE OF THE BEGINNING OF EACH PRIOR STORM EVENT, DURATION OF EACH STORM EVENT, APPROXIMATE AMOUNT OF RAINFALL FOR EACH STORM EVENT AND WHETHER ANY DISCHARGES OCCURRED.
 - WEATHER INFORMATION AND A DESCRIPTION OF ANY DISCHARGES OCCURRING AT THE TIME OF THE INSPECTION.
 - LOCATION OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE.
 - LOCATION OF BMP'S THAT NEED TO BE MAINTAINED.
 - LOCATION OF BMP'S THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A LOCATION.
 - LOCATION WHERE ADDITIONAL BMP'S WERE NEEDED, BUT DID NOT EXIST AT THE TIME OF INSPECTION.
 - CORRECTIVE ACTION REQUIRED INCLUDING CHANGES TO THE SWPPP AND IMPLEMENTATION DATES.
- THE CONTRACTOR SHALL HAVE COPIES OF THE FOLLOWING ON-SITE:
 - SIGNED NOI APPLICATION
 - OHIO EPA NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERAL PERMIT
 - SUBCONTRACTOR CERTIFICATION / AGREEMENT FOR SWPPP
 - DELEGATION OF AUTHORITY FOR SWPPP
 - THESE SWPPP AND ANY SWPPP AMENDMENT LOGS
 - GRADING AND STABILIZATION ACTIVITY LOG
 - INSPECTION LOGS
- THE CONTRACTOR SHALL REMOVE ALL MUD, SOIL OR DEBRIS DEPOSITED ON ROADS, DRIVE LANES, ETC. AT THE END OF EACH WORK DAY OR AS REQUIRED DURING THE DAY.

SPILL PREVENTION AND MATERIAL MANAGEMENT PRACTICES

- STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN AN ORDERLY MANNER IN APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
- PRODUCTS SHALL BE KEPT IN ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL UNLESS NOT RESEALABLE.
- SUBSTANCES NOT TO BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
- WHENEVER POSSIBLE, ALL OF A PRODUCT SHALL BE USED UP BEFORE DISPOSING OF THE CONTAINER. FOLLOW LOCAL, STATE AND MANUFACTURERS' RECOMMENDED METHODS FOR DISPOSAL SHALL IF SURPLUS PRODUCT IS TO BE DISPOSED OF.
- THE CONTRACTOR SHALL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON-SITE.
- SAFETY DATA SHEETS (SDS) MUST BE RETAINED ON-SITE.
- SPILL CONTROL PRACTICES:
 - MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP MUST BE POSTED AND SITE PERSONNEL MADE AWARE OF THE PROCEDURES, LOCATION OF THE INFORMATION AND LOCATION OF CLEANUP SUPPLIES.
 - SPILL CLEANUP MATERIAL OR EQUIPMENT SHALL BE KEPT IN A MATERIAL STORAGE AREA ON-SITE (I.E. DUST PANS, BROOMS, MOPS, RAGS, GLOVES, GOGGLES, SAWDUST, KITTY LITTER, SAND, AND PLASTIC OR METAL TRASH CONTAINERS).
 - SPILLS SHALL BE CLEANED IMMEDIATELY AFTER DISCOVERY AND PERSONNEL SHALL WEAR APPROPRIATE PROTECTIVE CLOTHING.
 - TOXIC OR HAZARDOUS MATERIAL SPILLS MUST BE REPORTED TO THE APPROPRIATE FEDERAL GOVERNMENT AGENCY, OHIO EPA (800-282-9378), LOCAL FIRE DEPARTMENT (911) AND LOCAL EMERGENCY PLANNING COMMITTEE (LEPC) REGARDLESS OF SIZE AND WITHIN 30 MINUTES OF A SPILL.
 - SPILL PREVENTION PLANS SHALL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT A SPILL TYPE FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT AND THE CLEAN-UP MEASURES SHALL BE INCLUDED.

PRODUCT SPECIFIC PRACTICES

SOLID, SANITARY AND TOXIC WASTE SHALL BE DISPOSED IN A PROPER MANNER IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. IT IS PROHIBITED TO BURN, BURY OR POUR ONTO THE GROUND OR INTO A SEWER SOLVENTS, PAINT, STAINS, DIESEL FUEL, GASOLINE, MOTOR OIL, HYDRAULIC FLUID, CEMENT CURING COMPOUNDS, ANTIFREEZE, OR OTHER TOXIC OR HAZARDOUS WASTE.

PETROLEUM PRODUCTS: ON-SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS AND CLEARLY LABELED

FERTILIZERS: APPLY FERTILIZER ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER SHALL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. CONTENTS OF PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS: CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT IN USE. EXCESS PAINT SHALL NOT BE DISCHARGED TO THE STORM SEWER, BUT SHALL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS: CONCRETE TRUCKS SHALL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE. WASH OUT OF CONCRETE TRUCKS SHALL OCCUR IN A DESIGNATED AREA WHERE THE WASHING CAN COLLECT AND BE DISPOSED OF PROPERLY WHEN HARDENED.

WASTE MATERIALS: COLLECT WASTE MATERIALS INCLUDING TRASH AND CONSTRUCTION DEBRIS IN A SECURELY LIDDED DUMPSTER AND DISPOSE IN AN OHIO EPA APPROVED LANDFILL. MATERIALS WHICH CONTAIN ASBESTOS TO COMPLY WITH THE OHIO EPA AIR POLLUTION REGULATIONS. THE DUMPSTER IS TO BE HAULED OFF-SITE AND EMPTIED AS NECESSARY.

HAZARDOUS WASTE: DISPOSE OF HAZARDOUS WASTE MATERIALS IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS OR AS SPECIFIED BY THE MANUFACTURER.

SANITARY WASTE: CONTRACTOR SHALL PROVIDE TEMPORARY SANITARY FACILITIES AT THE SITE AND IT SHALL BE SERVICED BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR. ALL SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS 1 TIME PER WEEK, OR MORE OFTEN IF NECESSARY.

OFF-SITE VEHICLE TRACKING: A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. ALL PAVED STREETS ADJACENT TO THE SITE SHALL BE SWEEPED DAILY, OR MORE OFTEN IF NECESSARY, TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE SHALL BE COVERED WITH A TARPAULIN.

FUEL STORAGE TANKS: FUEL STORAGE TANKS SHALL BE LOCATED IN DIKED AREAS AND AWAY FROM DRAINAGE CHANNELS. THE DIKED AREAS SHOULD HOLD A VOLUME OF AT LEAST 110% OF THE LARGEST TANK. THE DIKED AREAS ARE NOT NECESSARY IF THE CONTRACTOR USES SELF-CONTAINED SPILL PROOF TANKS. A GENERAL LOCATION FOR THE FUEL STORAGE TANKS IS SHOWN IN THE SWPPP, BUT MAY BE MOVED TO BETTER SUIT THE CONTRACTOR'S MEANS AND METHODS.

POLLUTION PREVENTION PLAN INVENTORY

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE ANTICIPATED TO BE PRESENT ON-SITE DURING CONSTRUCTION:

CONCRETE FERTILIZERS PAINTS (ENAMEL AND LATEX)
 ASPHALT DETERGENTS PETROLEUM BASED PRODUCTS
 TAR CMU BLOCK CLEANING SOLVENTS

STABILIZATION PRACTICES

- THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN SOIL EROSION AND SEDIMENT CONTROL DEVICES IN AREAS TO REMAIN DISTURBED FOR 14 DAYS OR UNTIL PERMANENT STABILIZATION IS COMPLETE. PERMANENT VEGETATION SHALL BE GROUND COVER DENSE ENOUGH TO COVER 80% OF THE SOIL SURFACE AND MATURE ENOUGH TO SURVIVE WINTER WEATHER CONDITIONS.
- ALL NEW AND EXISTING STORM INLET BASINS WITHIN THE WORK LIMITS SHALL HAVE INLET PROTECTION INSTALLED UNLESS THE SEWER IS INACTIVE DUE TO PRIOR WORK. DO NOT REMOVE INLET PROTECTION FROM EXISTING STORM INLET BASINS TO BE REMOVED OR ABANDONED UNTIL AFTER THE DOWNSTREAM STORM STRUCTURE IS PLUGGED FROM STORM FLOW.
- PERIMETER CONTROLS SHALL BE IMPLEMENTED AS A FIRST STEP OF GRADING AND WITHIN 7 DAYS FROM THE START OF GRUBBING AND SHALL CONTINUE TO FUNCTION UNTIL UPLAND AREAS ARE STABILIZED.
- TEMPORARY STABILIZATION:** DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES CEASE FOR MORE THAN 14 DAYS, BUT LESS THAN 1 YEAR, SHALL FOLLOW THIS CHART:

AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
Disturbed areas within 50 feet of surface water, not at final grade, and to remain idle more than 14 days.	Within 2 days of the most recent disturbance.
Disturbed areas not within 50 feet of surface water, to be dormant more than 14 days, but less than 1 year.	Within 7 days of the most recent disturbance.
Disturbed areas that will remain idle over the winter.	Prior to the onset of winter weather.
For areas to be paved, disturbed areas that will remain dormant for the time constraints mentioned in the above criteria.	Temporarily stabilize with geotextile and/or stone subbase until pavement is installed.

- PERMANENT STABILIZATION:** DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASE SHALL FOLLOW THIS CHART:

AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
Areas to be dormant for 1 year or more.	Within 7 days of the most recent disturbance.
Areas within 50 feet of surface water and at final grade.	Within 2 days of reaching final grade.
All other areas at final grade.	Within 7 days of reaching final grade.

MAINTENANCE/INSPECTION PROCEDURES

- REGULAR INSPECTION AND MAINTENANCE SHALL BE PROVIDED FOR EROSION AND SEDIMENT CONTROL PRACTICES. INSPECTIONS SHALL BE PERFORMED UNTIL THE NOTICE OF TERMINATION (NOT) IS FILED WITH THE OHIO EPA. INSPECTIONS TO BE MADE A MINIMUM OF 1 TIME PER WEEK AND WITHIN 24 HOURS AFTER STORM EVENTS GREATER THAN 0.5 INCHES OF RAIN IN A 24 HOUR PERIOD. THE INSPECTION FREQUENCY MAY BE REDUCED TO AT LEAST ONCE EVERY MONTH IF THE ENTIRE SITE IS TEMPORARILY STABILIZED OR RUNOFF IS UNLIKELY DUE TO WEATHER CONDITIONS (I.E. SITE COVERED WITH SNOW OR THE GROUND IS FROZEN). A WAIVER OF INSPECTION REQUIREMENTS IS AVAILABLE UNTIL 1 MONTH BEFORE THAWING CONDITIONS ARE EXPECTED IF ALL THE FOLLOWING CONDITIONS ARE MET:
 - THE PROJECT IS LOCATED IN AN AREA WHERE FROZEN CONDITIONS ARE ANTICIPATED TO CONTINUE FOR EXTENDED PERIODS OF TIME (I.E., MORE THAN 1 MONTH).
 - LAND DISTURBANCE ACTIVITIES HAVE BEEN SUSPENDED.
 - THE BEGINNING AND ENDING DATES OF THE WAIVER PERIOD ARE DOCUMENTED IN THE SWPPP.

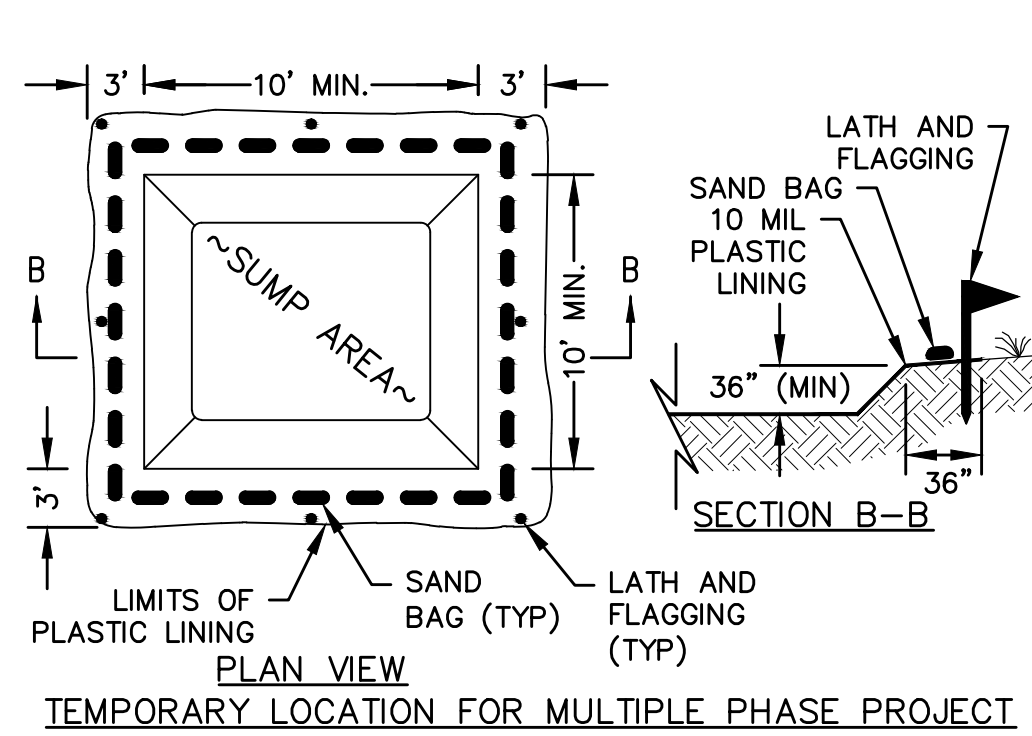
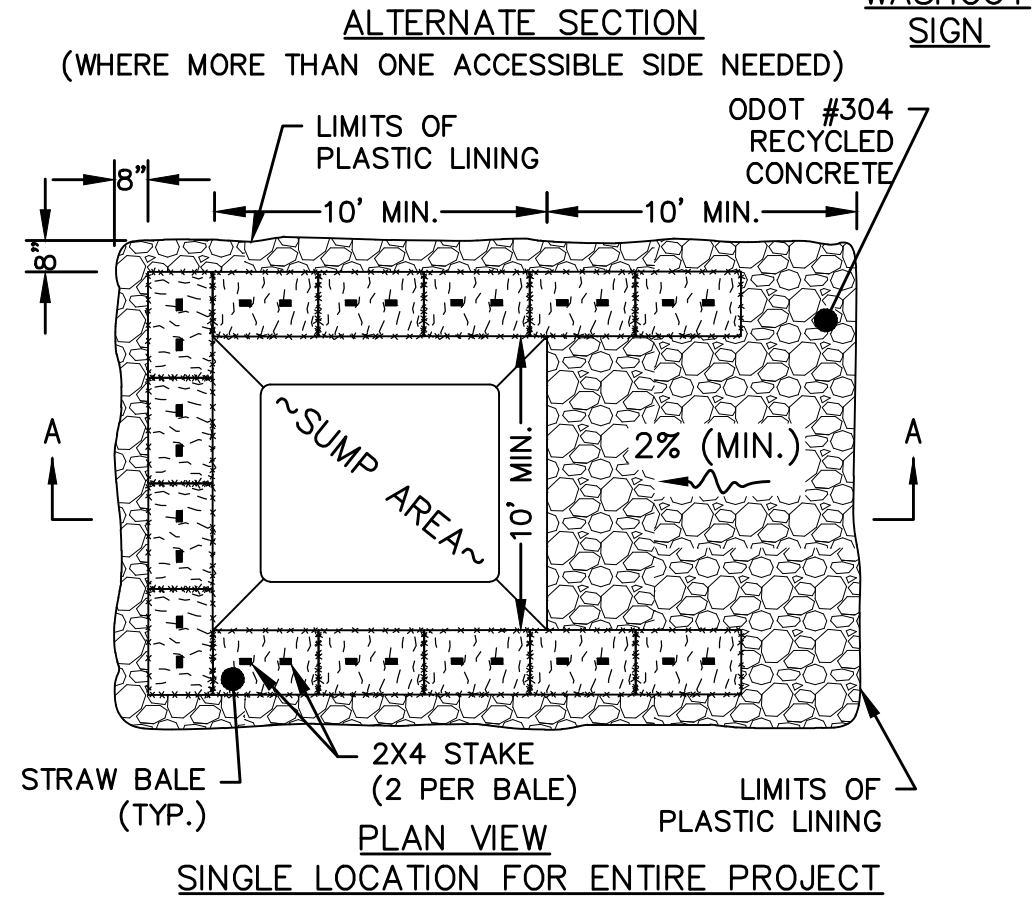
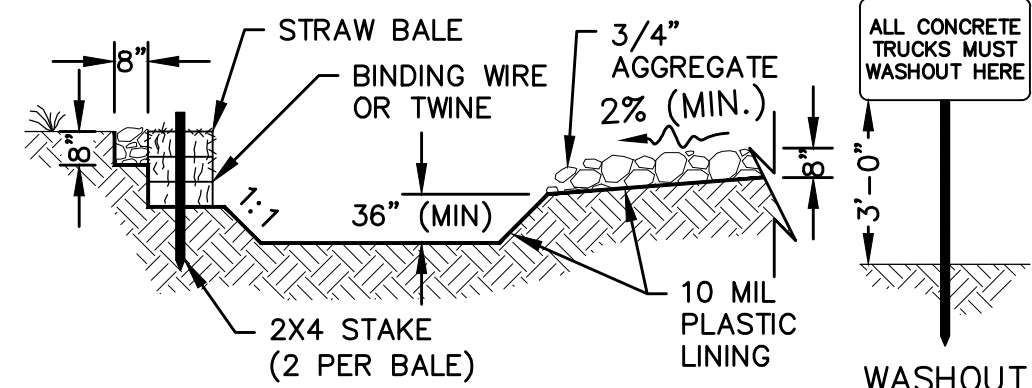
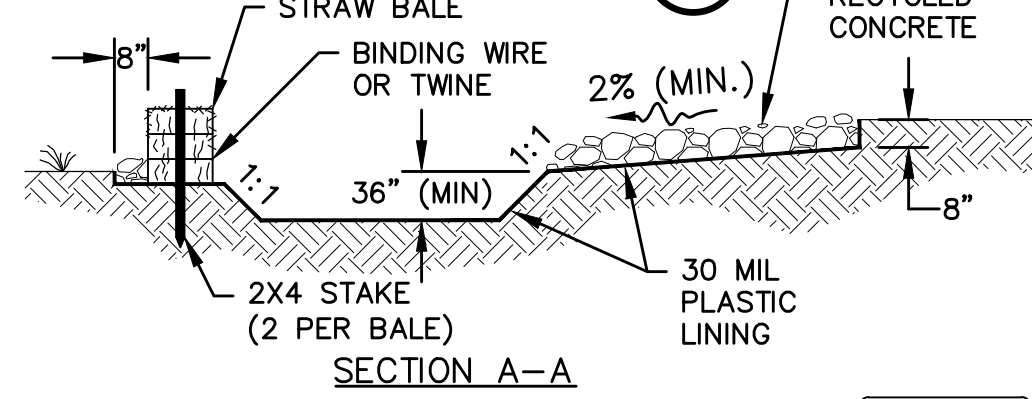
ONCE A DEFINABLE AREA HAS BEEN FULLY STABILIZED, IT MAY BE MARKED ON THE SWPPP AND NO FURTHER INSPECTION REQUIREMENTS ARE REQUIRED FOR THAT AREA OF THE SITE.

- SILT FENCE SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, VERIFICATION FABRIC IS SECURELY ATTACHED TO FENCE POSTS, AND VERIFICATION FENCE POSTS ARE FIRMLY IN THE GROUND. BUILT UP SEDIMENT SHALL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED 1/3 THE FENCE HEIGHT.
- DUST CONTROL:** THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY (I.E. CALCIUM CHLORIDE, WATER OR MOTORIZED DUST-FREE STREET SWEEPING DEVICE) TO MAINTAIN ROADWAYS USED FOR SITE ACCESS AT THE END

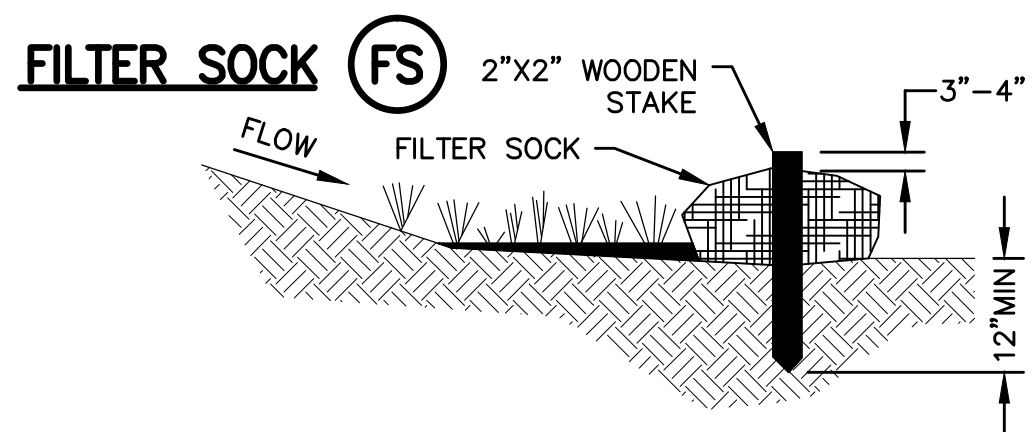
OF EACH WORK DAY OR AS REQUIRED AND ADHERE TO ALL GOVERNING AUTHORITY ORDINANCES.

- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER. ANY REPAIR NEEDED SHALL TO BE INITIATED WITHIN 24 HOURS OF THE REPORT.
- SEEDING SHALL BE INSPECTED FOR BARE SPOTS AND WASHOUTS.
- THE CONTRACTOR SHALL SELECT INDIVIDUALS TO BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND COMPLETING INSPECTION AND MAINTENANCE REPORTS. THE CONTRACTOR SHALL COMPLETE THE "DELEGATION OF AUTHORITY FOR STORM WATER POLLUTION PREVENTION PLAN" FORM.

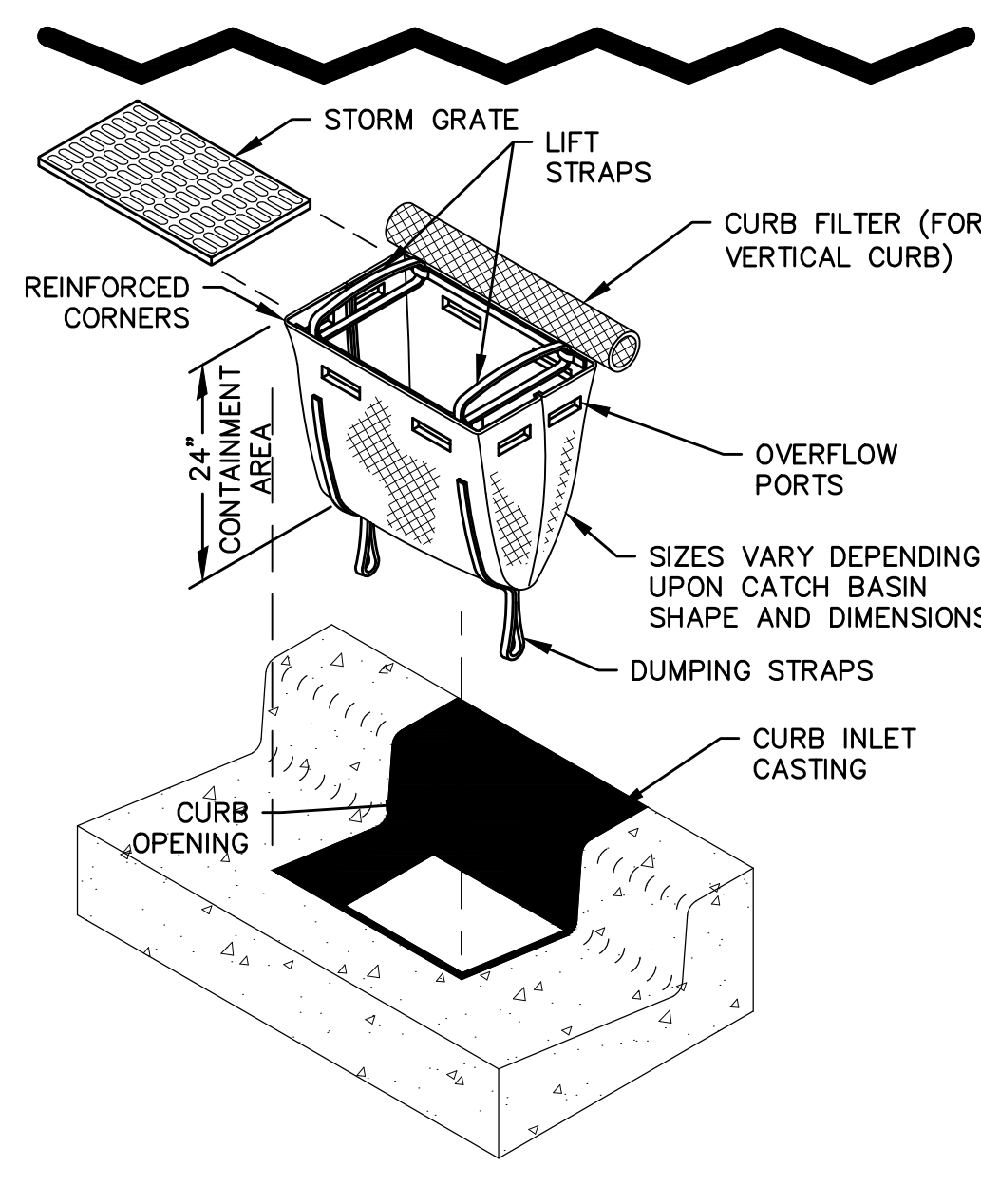
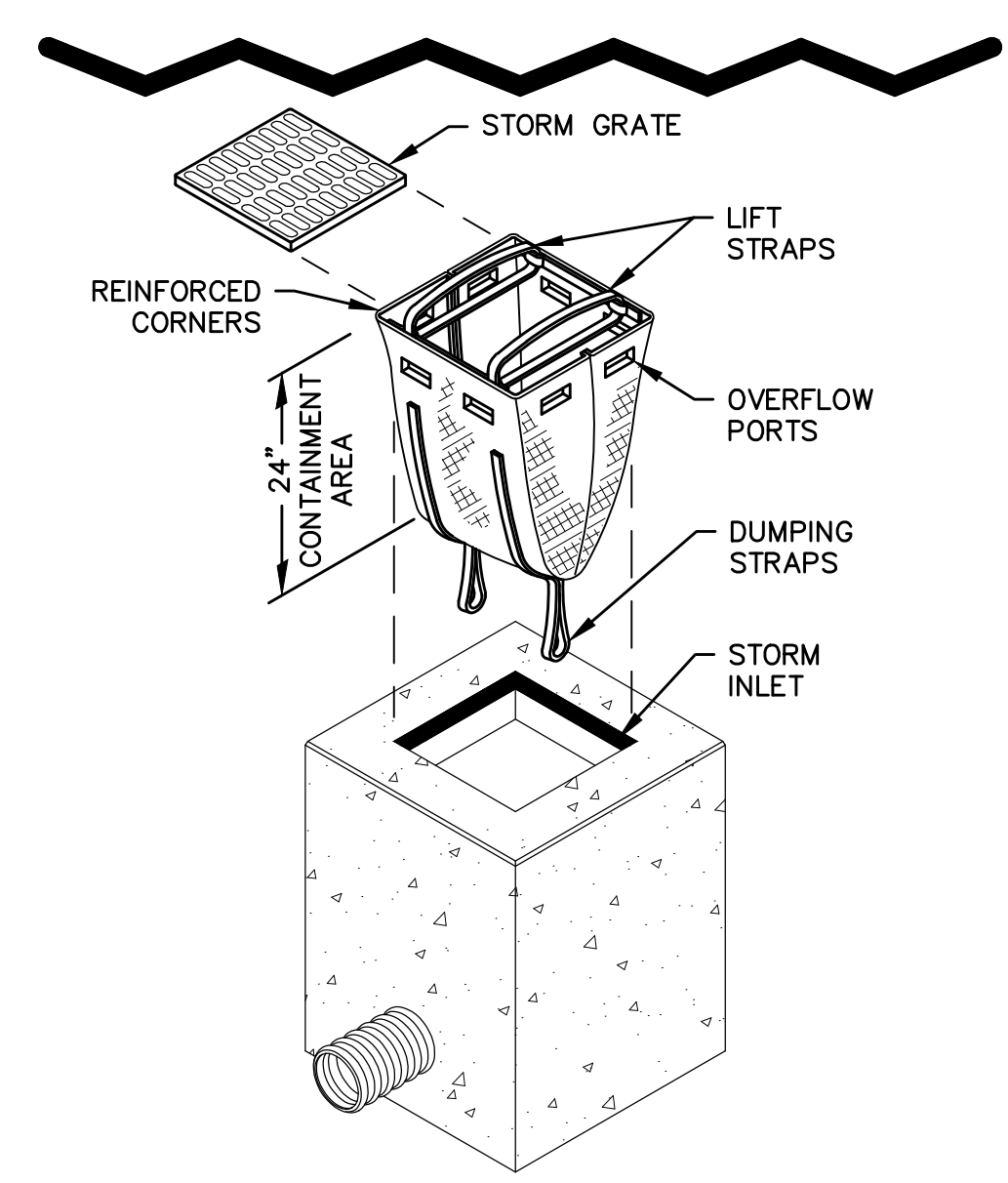
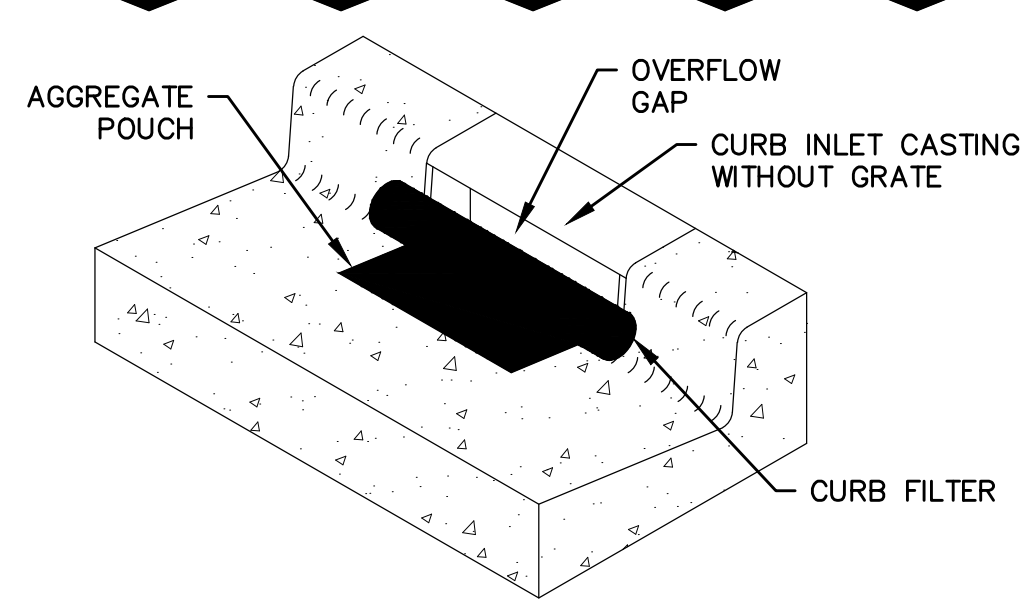
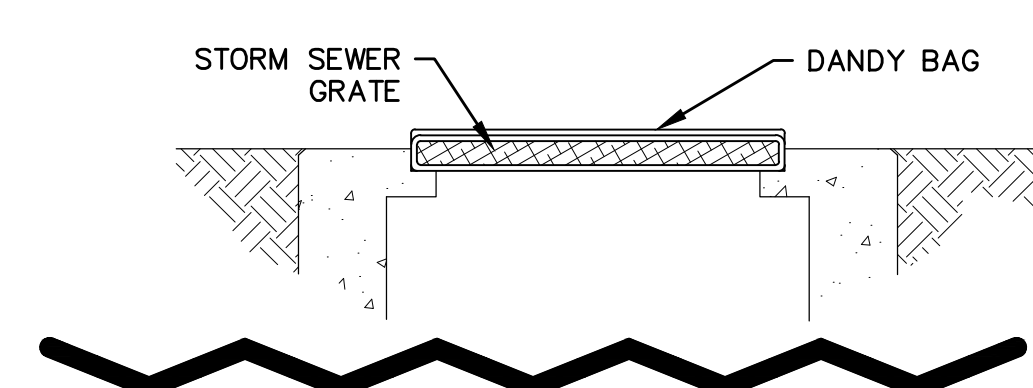
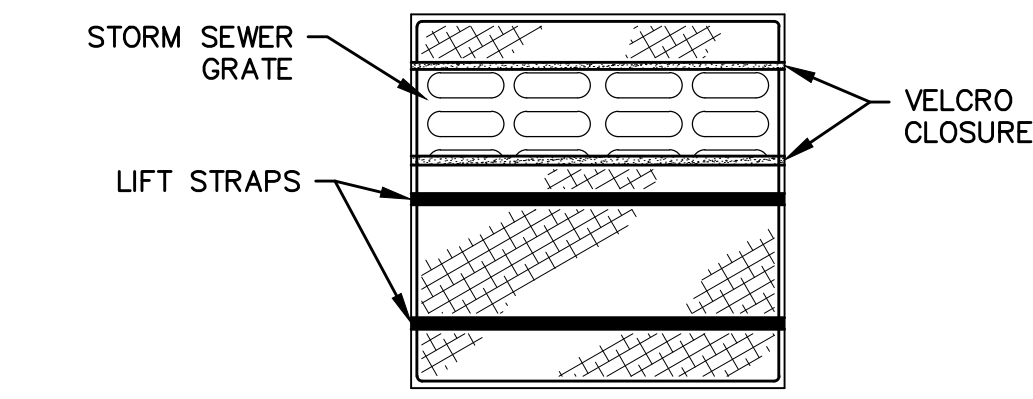
CONCRETE WASHOUT PIT (CW)



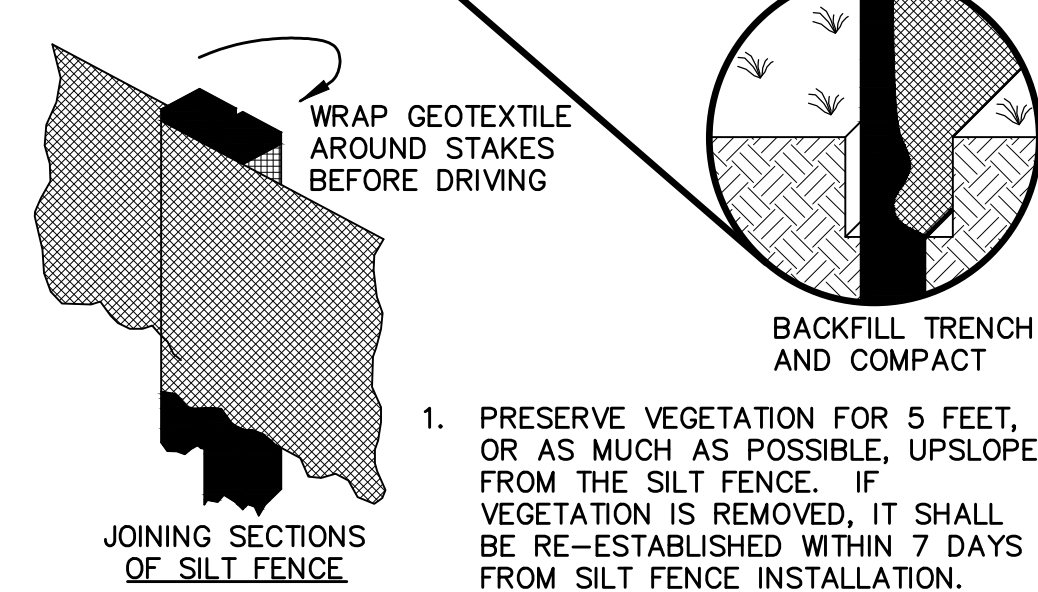
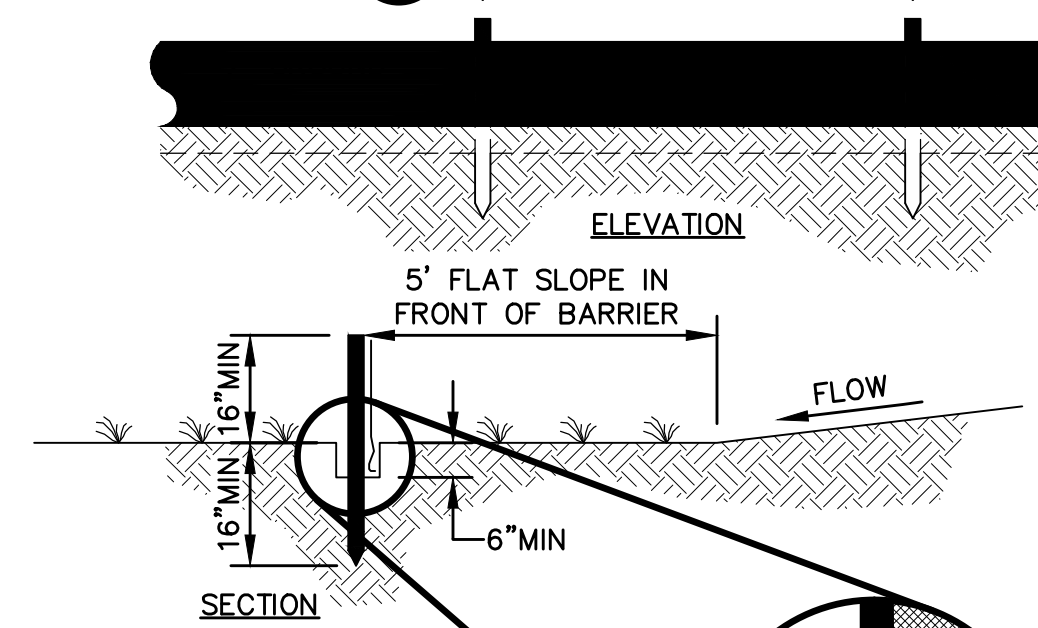
- NOTES:
1. WASH WATER SHALL NOT FLOW TO SURFACE WATERS.
 2. WASHOUT PIT SHALL BE LOCATED 100' MINIMUM FROM INLETS, STREAMS, WETLANDS AND ANY OTHER SURFACE WATERS.
 3. WASHOUT PIT SHALL HAVE SUFFICIENT VOLUME TO CONTAIN CONCRETE WASTE WITH A MINIMUM FREEBOARD OF 12".
 4. WASHOUT PIT SHALL NOT BE FILLED BEYOND 95% CAPACITY UNLESS A NEW FACILITY IS CONSTRUCTED. MANUFACTURED CONCRETE WASHOUT DEVICES MAY BE USED.
 5. SAW CUT CONCRETE, RESIDUE FROM SAW CUT, AND GRINDINGS SHALL BE DISPOSED OF IN THE WASHOUT PIT.
 6. A GENERAL LOCATION FOR THE CONCRETE WASHOUT PIT IS SHOWN IN THE SWPPP, BUT MAY BE MOVED TO BETTER SUIT THE CONTRACTOR'S MEANS AND METHODS.



STORM DRAIN INLET PROTECTIONS (IP)



SILT FENCE (SF)



1. PRESERVE VEGETATION FOR 5 FEET, OR AS MUCH AS POSSIBLE, UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE RE-ESTABLISHED WITHIN 7 DAYS FROM SILT FENCE INSTALLATION.
2. SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. PERFORM ONE OF THE FOLLOWING IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW:
 - CHANGE THE LAYOUT OF THE SILT FENCE.
 - REMOVE ACCUMULATED SEDIMENT.
 - INSTALL OTHER PRACTICES.

FABRIC PROPERTIES	VALUES	TEST METHOD
Grab Tensile Strength	90 lb. min	ASTM D 1682
Mullen Burst Strength	190 psi min	ASTM D 3786
Slurry Flow Rate	0.3 gal./min ² /ft max	
Equivalent Opening Size	40-80	US Std. sieve CW-02215
Ultraviolet Radiation Stability	90% min	ASTM-G-26

MULCHING (MU)

1. APPLY MULCH OR OTHER APPROPRIATE VEGETATIVE PRACTICES TO DISTURBED AREAS WITHIN 7 DAYS OF GRADING IF THE AREA IS TO REMAIN DORMANT FOR MORE THAN 45 DAYS OR ON AREAS OF THE SITE WHICH CAN BE BROUGHT TO FINAL GRADE.
2. MULCH SHALL CONSIST OF ONE OF THE FOLLOWING:
 - STRAW IS TO BE UNROTTED SMALL-GRAIN STRAW APPLIED AT A RATE OF 2 TONS/AC. OR 90 LB/1,000 S.F. (2 TO 3 BALES). MULCH IS TO BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED.
 - WOOD-CELLULOSE FIBER APPLIED AT A RATE OF 2,000 LB/AC. OR 46 LB/1,000 S.F.
 - OTHER ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TONS/AC.
3. ANCHOR MULCH IMMEDIATELY TO MINIMIZE LOSS BY WIND OR RUNOFF. ACCEPTABLE ANCHORING METHODS ARE AS FOLLOWS:
 - PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL USING A DISK, CRIMPER OR SIMILAR TOOL. DO NOT FINELY CHOP STRAW TO BE MECHANICALLY ANCHORED, BUT LEAVE LONGER THAN 6 INCHES.
 - USE NETTINGS PER THE MANUFACTURER'S RECOMMENDATIONS. NETTING MAY BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATED RUNOFF OR ON CRITICAL SLOPES.
 - SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER.
 - APPLY WOOD-CELLULOSE FIBER BINDER AT A NET DRY WEIGHT OF 750 LB/AC. WOOD CELLULOSE FIBER IS TO BE MIXED WITH WATER AND THE MIXTURE IS TO CONTAIN A MAXIMUM OF 50 LB/100 GAL. OF WOOD CELLULOSE FIBER.

PERMANENT SEEDING (PS)

- SPECIFICATIONS FOR PERMANENT SEEDING SITE PREPARATION:
1. A SUBSOILER, PLOW OR OTHER IMPLEMENT TO BE USED TO REDUCE SOIL COMPACTION AND ALLOW MAXIMUM INFILTRATION. SUBSOILING TO BE DONE WHEN SOIL MOISTURE IS LOW ENOUGH TO ALLOW THE SOIL TO CRACK OR FRACTURE. SUBSOILING IS NOT TO BE DONE ON SLIP-PRONE AREAS.
 2. GRADE THE SITE AS NEEDED TO PERMIT USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION AND SEEDING.
 3. APPLY RESOIL WHERE NEEDED TO ESTABLISH VEGETATION.

- SEEDBED PREPARATION:
1. APPLY AGRICULTURAL GROUND LIMESTONE TO ACIDIC SOIL AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, APPLY AT RATE OF 100 LB/1,000 S.F. OR 2 TONS/AC.
 2. APPLY FERTILIZER AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, APPLY AT A RATE OF 12 LB/1,000 S.F. OR 500 LB/AC. OF 10-10-10 OR 12-12-12 ANALYSIS.
 3. LIME AND FERTILIZER TO BE WORKED INTO THE SOIL WITH A DISK HARROW, SPRING-TOOTH HARROW, OR OTHER SUITABLE FIELD IMPLEMENT TO A DEPTH OF 3".

- SEEDING DATES AND SOIL CONDITIONS:
1. SEED MARCH 1 TO MAY 31 OR AUGUST 1 TO SEPTEMBER 30. THESE ARE IDEAL SEEDING DATES, BUT SEEDING MAY BE MADE ANY TIME THROUGHOUT THE GROWING SEASON WITH THE USE OF ADDITIONAL MULCH AND IRRIGATION. TILLAGE/SEED BED PREPARATION TO BE DONE WHEN THE SOIL IS DRY ENOUGH TO CRUMBLE AND NOT FORM RIBBONS WHEN COMPRESSED BY HAND. SEE THE FOLLOWING SECTION ON DORMANT SEEDING FOR WINTER SEEDING.

- DORMANT SEEDINGS:
1. DO NOT PLANT SEEDINGS FROM OCTOBER 1 TO NOVEMBER 20. SEEDS ARE LIKELY TO GERMINATE DURING THIS PERIOD, BUT PROBABLY WILL NOT SURVIVE THE WINTER.
 2. THE FOLLOWING METHODS MAY BE USED:
 - FROM OCTOBER 1 TO NOVEMBER 20, PREPARE THE SEED BED, ADD THE REQUIRED AMOUNTS OF LIME AND FERTILIZER, THEN MULCH AND ANCHOR. AFTER NOVEMBER 20 AND BEFORE MARCH 15, INCREASE THE SEEDING RATES BY 50% AND BROADCAST THE SEED MIXTURE.
 - FROM NOVEMBER 20 THROUGH MARCH 15, WHEN SOIL CONDITIONS PERMIT, PREPARE THE SEED BED, LIME AND FERTILIZER, APPLY THE SEED MIXTURE, MULCH AND ANCHOR. INCREASE THE SEEDING RATES BY 50% FOR THIS TYPE OF SEEDING.
 - APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDRO-SEEDED (SLURRY MAY INCLUDE SEED AND FERTILIZER) ON FIRM, MOIST SEED BED.
 - WHERE FEASIBLE, EXCEPT WHEN A CULTIPACKER TYPE SEEDER IS USED, THE SEED BED IS TO BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A CULTIPACKER, ROLLER, OR LIGHT DRAG.

- MULCHING:
1. APPLY MULCH MATERIAL IMMEDIATELY AFTER SEEDING. SEEDING MADE DURING OPTIMUM SEEDING DATES ON FLAT AREAS WITH FAVORABLE SOIL CONDITIONS MAY NOT NEED MULCH TO ACHIEVE STABILIZATION. DORMANT SEEDING IS TO BE MULCHED.
 2. SEE MULCHING FOR MATERIALS AND ANCHORING METHODS.

- IRRIGATION:
1. PERMANENT SEEDING TO INCLUDE IRRIGATION TO ESTABLISH VEGETATION DURING DRY OR HOT WEATHER OR ON ADVERSE SITE CONDITIONS AS NEEDED FOR ADEQUATE MOISTURE FOR SEED GERMINATION AND PLANT GROWTH.
 2. EXCESSIVE IRRIGATION RATES TO BE AVOIDED AND IRRIGATION MONITORED TO PREVENT EROSION AND DAMAGE FROM RUNOFF.

- SPECIFICATIONS FOR MAINTENANCE OF PERMANENT SEEDING:
1. PERMANENT SEEDING TO NOT BE CONSIDERED ESTABLISHED FOR AT LEAST 1 FULL YEAR FROM THE TIME OF PLANTING. SEEDED AREAS TO BE INSPECTED FOR FAILURE AND VEGETATION REESTABLISHED AS NEEDED. DEPENDING ON SITE CONDITIONS, IT MAY BE NECESSARY TO IRRIGATE, FERTILIZE, OVERSEED, OR REESTABLISH PLANTINGS IN ORDER TO PROVIDE PERMANENT VEGETATION FOR ADEQUATE EROSION CONTROL.
 2. ESTABLISH MAINTENANCE FERTILIZATION RATES BY SOIL TEST RECOMMENDATIONS OR BY USING THE FOLLOWING RATES:

SEED MIX	SEEDING RATE		NOTES:
	LB./AC.	LB./1,000 S.F.	
GENERAL USE			
Creeping Red Fescue	20-40	1/2 TO 1	
Domestic Ryegrass	10-20	1/4 TO 1/2	
Kentucky Bluegrass	10-20	1/4 TO 1/2	
Tall Fescue	40	1	
Dwarf Fescue	40	1	
STEEP BANKS OR CUT SLOPES			
Tall Fescue	40	1	
Crown Vetch	10	1/4	Do not seed later than August
Tall Fescue	20	1/2	
Flat Pea	20	1/2	Do not seed later than August
Tall Fescue	20	1/2	
ROAD DITCHES AND SWALES			
Tall Fescue	40	1	
Dwarf Fescue	90	2-1/4	Do not seed later than August
Kentucky Bluegrass	5		
LAWN			
Kentucky Bluegrass	60	1-1/2	
Perennial Ryegrass	60	1-1/2	
Kentucky Bluegrass	60	1-1/2	For shaded areas
Creeping Red Fescue	60	1-1/2	

Note: Other approved seed species may be substituted.

PERMANENT SEEDING (continued)

MAINTENANCE FOR PERMANENT SEEDINGS FERTILIZATION AND MOWING				
MIXTURE	FORMULA	LB./AC.	TIME	MOWING
Creeping Red Fescue Domestic Ryegrass Kentucky Bluegrass	10-10-10	500		≥3"
Tall Fescue	10-10-10	500	Fall, yearly or as needed	≥4"
Dwarf Fescue	10-10-10	500		≥2"
Crown Vetch Fescue	0-20-20	400	Spring, yearly following establishment, then every 4-7 years	Do not mow
Flat Pea Fescue	0-20-20	400		

Note: Following soil test recommendations is preferred to the fertilizer rates above.

TEMPORARY SEEDING (TS)

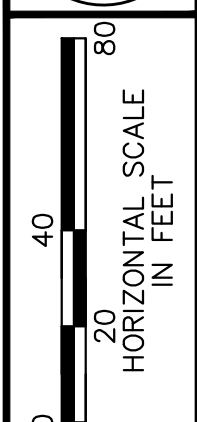
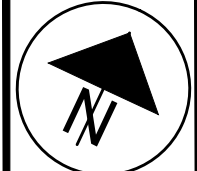
1. TEMPORARY SEED TO BE APPLIED BETWEEN CONSTRUCTION OPERATIONS ON SOIL THAT WILL NOT BE GRADED OR REWORKED FOR 14 DAYS OR MORE. THESE IDLE AREAS SHOULD BE SEED AS SOON AS POSSIBLE AFTER GRADING OR BE SEED WITHIN 7 DAYS. SEVERAL APPLICATIONS OF TEMPORARY SEEDING ARE NECESSARY ON TYPICAL CONSTRUCTION PROJECTS.
2. THE SEED BED IS TO BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION.
3. SOIL AMENDMENTS MAY BE REQUIRED TO ESTABLISH ADEQUATE STANDS OF VEGETATION. PERFORM SOIL TESTS ON THE SITE TO PREDICT THE NEED FOR LIME AND FERTILIZER.
4. APPLY SEED UNIFORMLY WITH CYCLONE SEEDER, CULTIPACKER SEEDER OR HYDROSEEDER. COVER BROADCASTED SEED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPING INTO PLACE USING A ROLLER OR CULTIPACKER. IF HYDROSEEDING IS USED, MIX THE SEED AND FERTILIZER ON SITE AND IMMEDIATELY USE.

- MULCHING TEMPORARY SEEDING
1. APPLY MULCH MATERIAL IMMEDIATELY AFTER SEEDING. SEEDING MADE DURING OPTIMUM SEEDING DATES ON FLAT AREAS WITH FAVORABLE SOIL CONDITIONS MAY NOT NEED MULCH TO ACHIEVE STABILIZATION. DORMANT SEEDING IS TO BE MULCHED.
 2. SEE MULCHING FOR MATERIALS AND ANCHORING METHODS.

TEMPORARY SEEDING SPECIES SELECTION

SEEDING DATES	SPECIES	LB./1,000 S.F.	PER AC.
March 1 to August 15	Oats	3	4 bushel
	Tall Fescue	1	40 lb.
	Perennial Ryegrass	1	40 lb.
August 16 to November 1	Perennial Ryegrass	2	40 lb.
	Tall Fescue	1	40 lb.
	Rye	3	2 bushel
November 1 to Spring Seeding	Tall Fescue	1	40 lb.
	Perennial Ryegrass	1	40 lb.
	Wheat	3	2 bushel
November 1 to Spring Seeding	Tall Fescue	1	40 lb.
	Perennial Ryegrass	1	40 lb.
	Perennial Ryegrass	2	40 lb.
November 1 to Spring Seeding	Tall Fescue	1	40 lb.
	Perennial Ryegrass	1	40 lb.

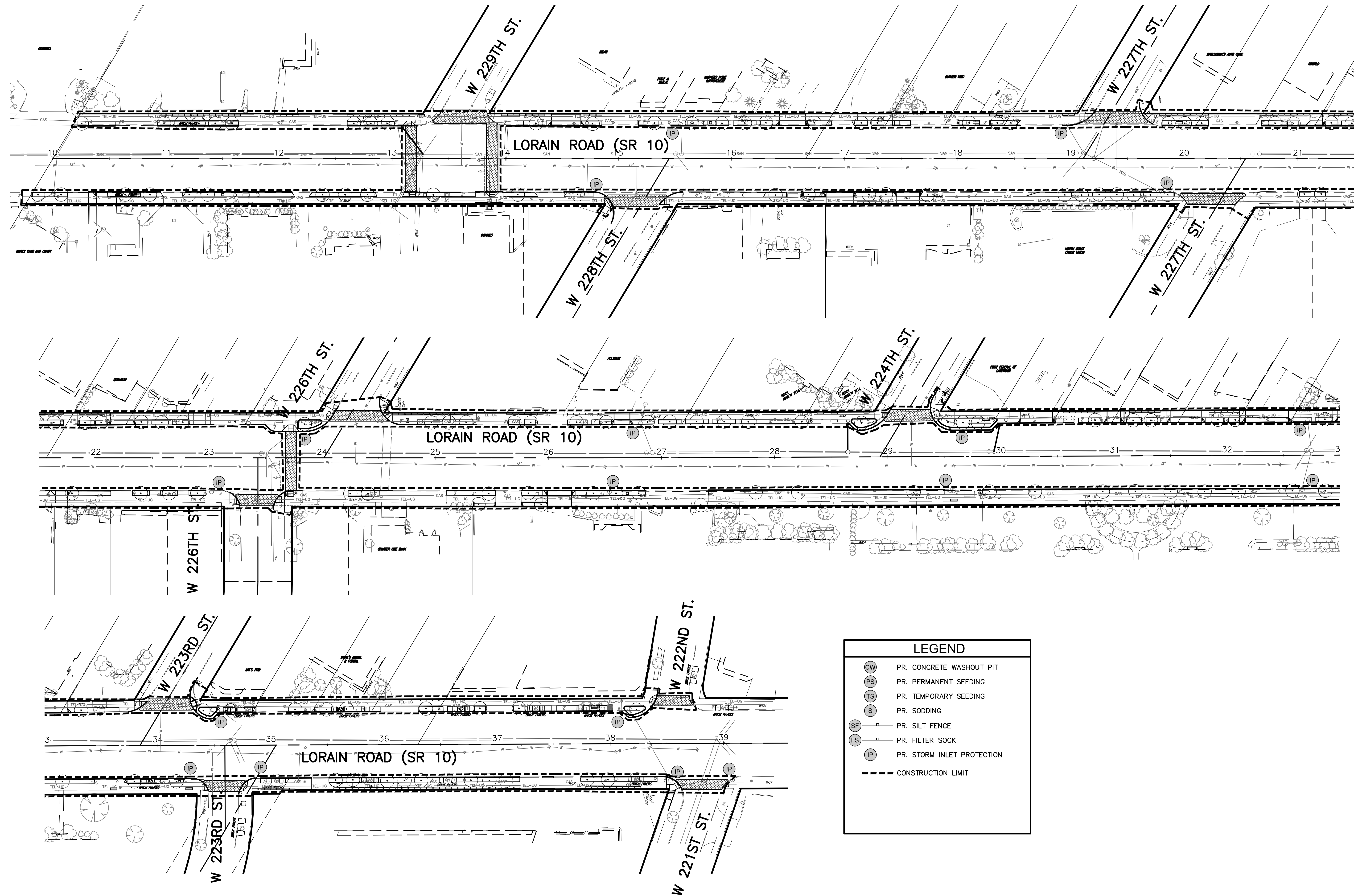
Use mulch only, sodding practices or dormant seeding.



CALCULATED: SSA
CHECKED: BEK

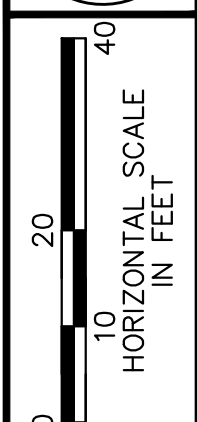
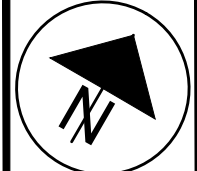
STORM WATER POLLUTION PREVENTION PLAN

CUY- SR 010 - 6.00
STREETSCAPE



LEGEND	
(CW)	PR. CONCRETE WASHOUT PIT
(PS)	PR. PERMANENT SEEDING
(TS)	PR. TEMPORARY SEEDING
(S)	PR. SODDING
(SF)	PR. SILT FENCE
(FS)	PR. FILTER SOCK
(IP)	PR. STORM INLET PROTECTION
---	CONSTRUCTION LIMIT

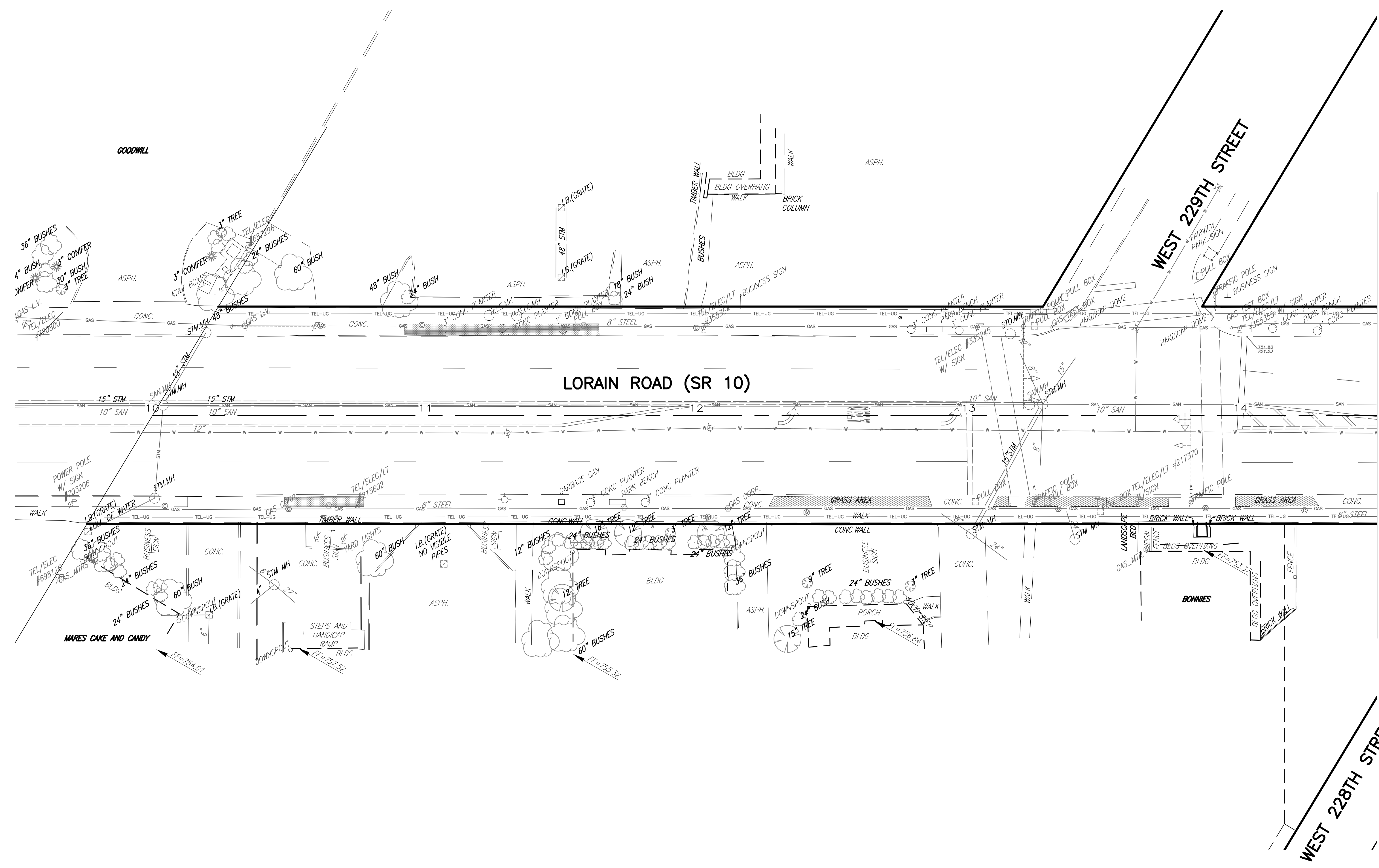
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EXISTING CONDITIONS

CUY- SR 010 - 6.00
STREETSCAPE



MATCHLINE STA. 14+50
SEE SHEET 14

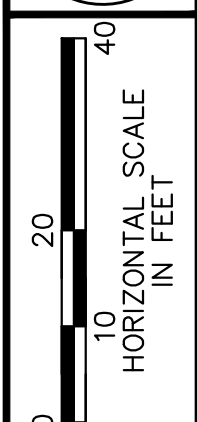
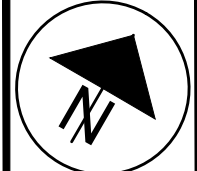
WEST 228TH STREET

WEST 229TH STREET

LORAIN ROAD (SR 10)

SYMBOL	DESCRIPTION
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	EXISTING TREELAWN AREA

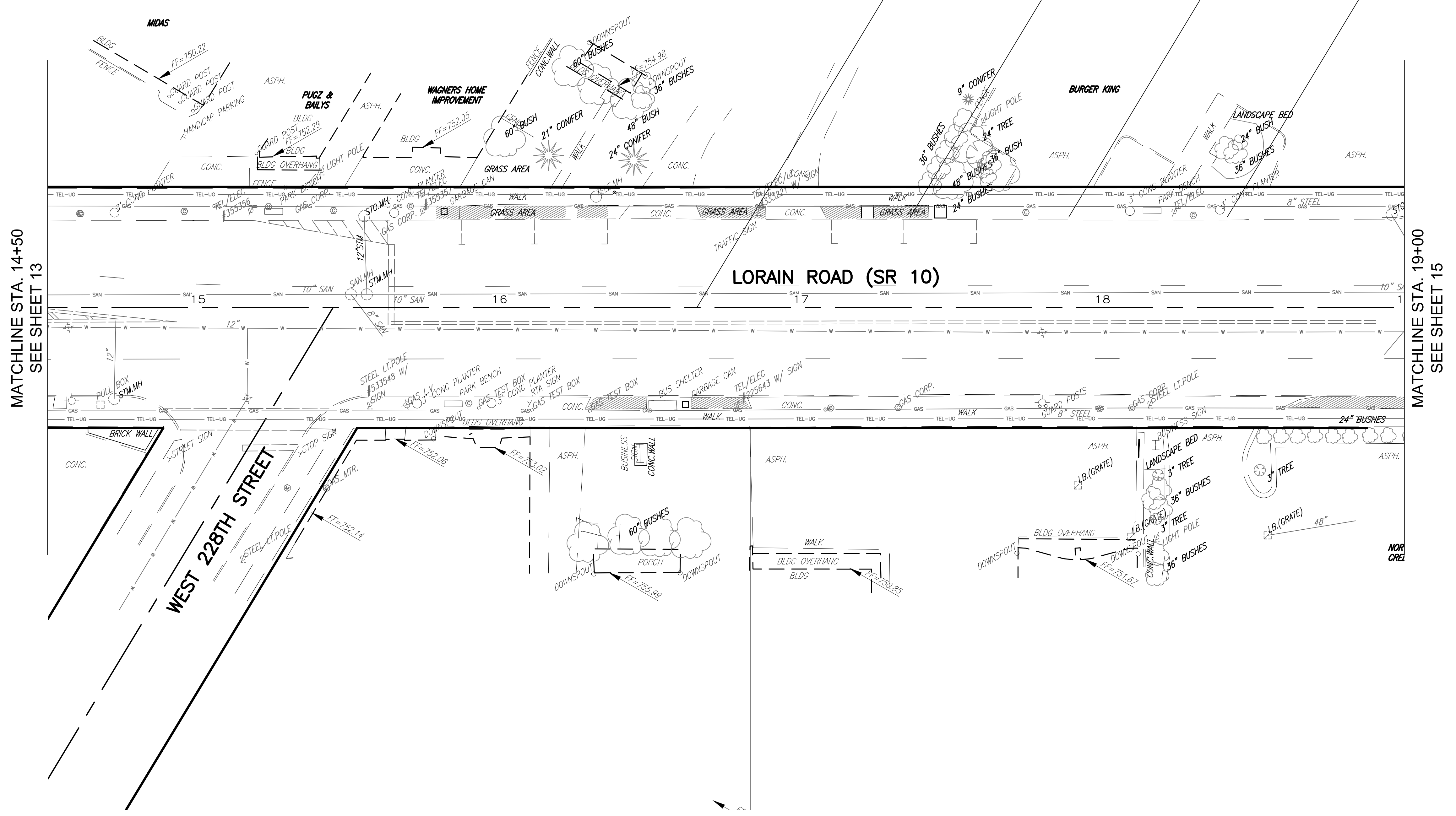
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CALCULATED: SSA
CHECKED: PJR

EXISTING CONDITIONS

CUY- SR 010 - 6.00
STREETSCAPE

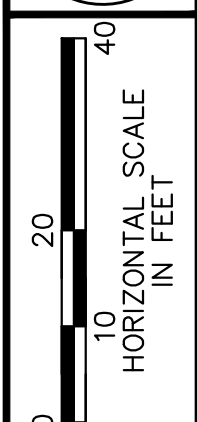
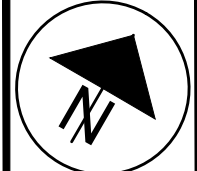


MATCHLINE STA. 14+50
SEE SHEET 13

MATCHLINE STA. 19+00
SEE SHEET 15

SYMBOL	DESCRIPTION
	BRICK PAVERS REMOVED
	EXISTING TREELAWN AREA

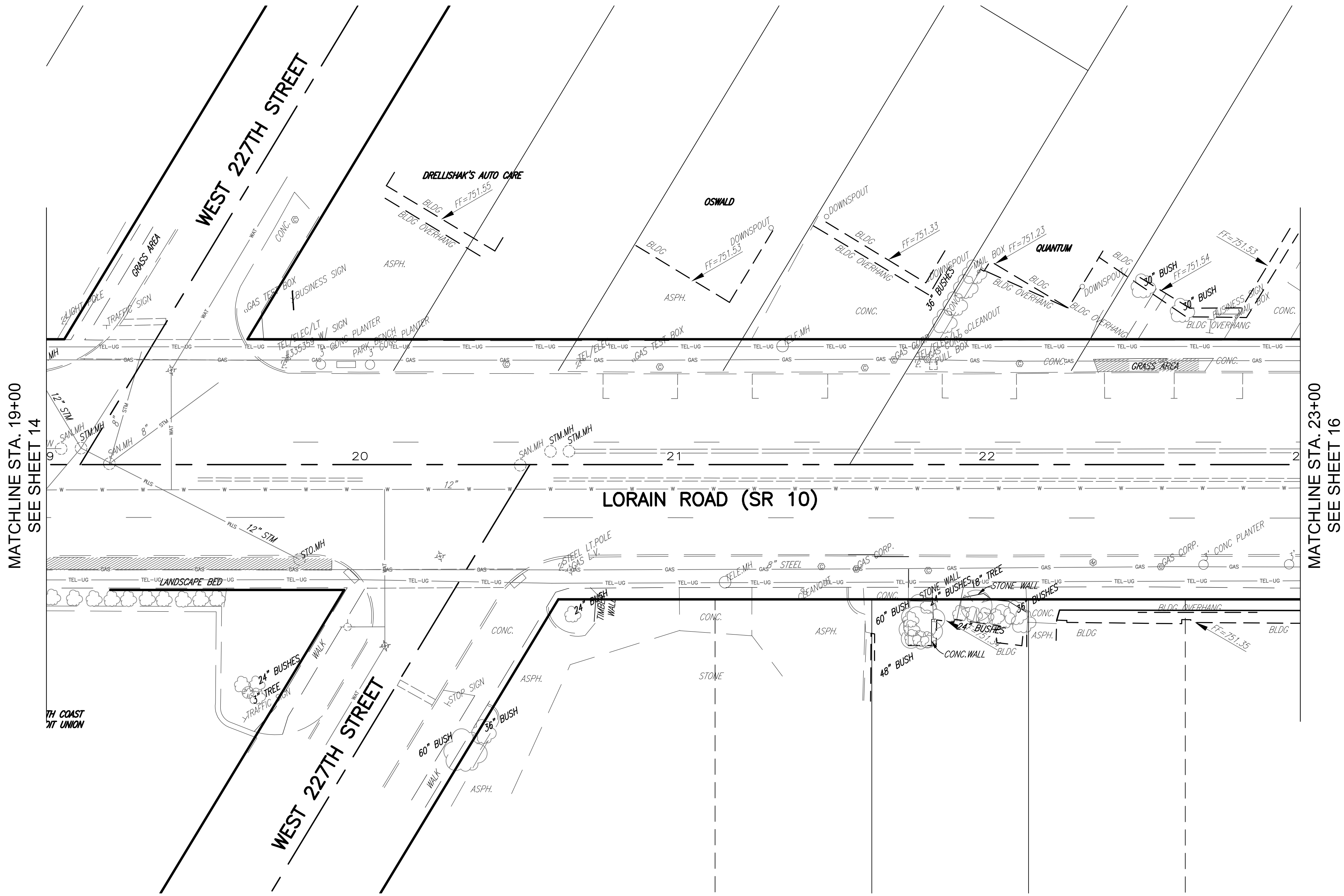
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CALCULATED: SSA
CHECKED: PJR

EXISTING CONDITIONS

CUY- SR 010 - 6.00
STREETSCAPE

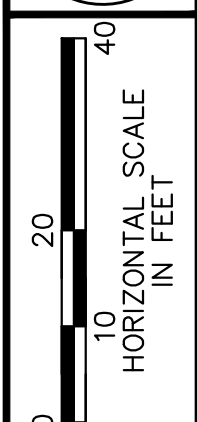
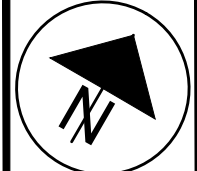


MATCHLINE STA. 19+00
SEE SHEET 14

MATCHLINE STA. 23+00
SEE SHEET 16

SYMBOL	DESCRIPTION
	BRICK PAVERS REMOVED
	EXISTING TREELAWN AREA

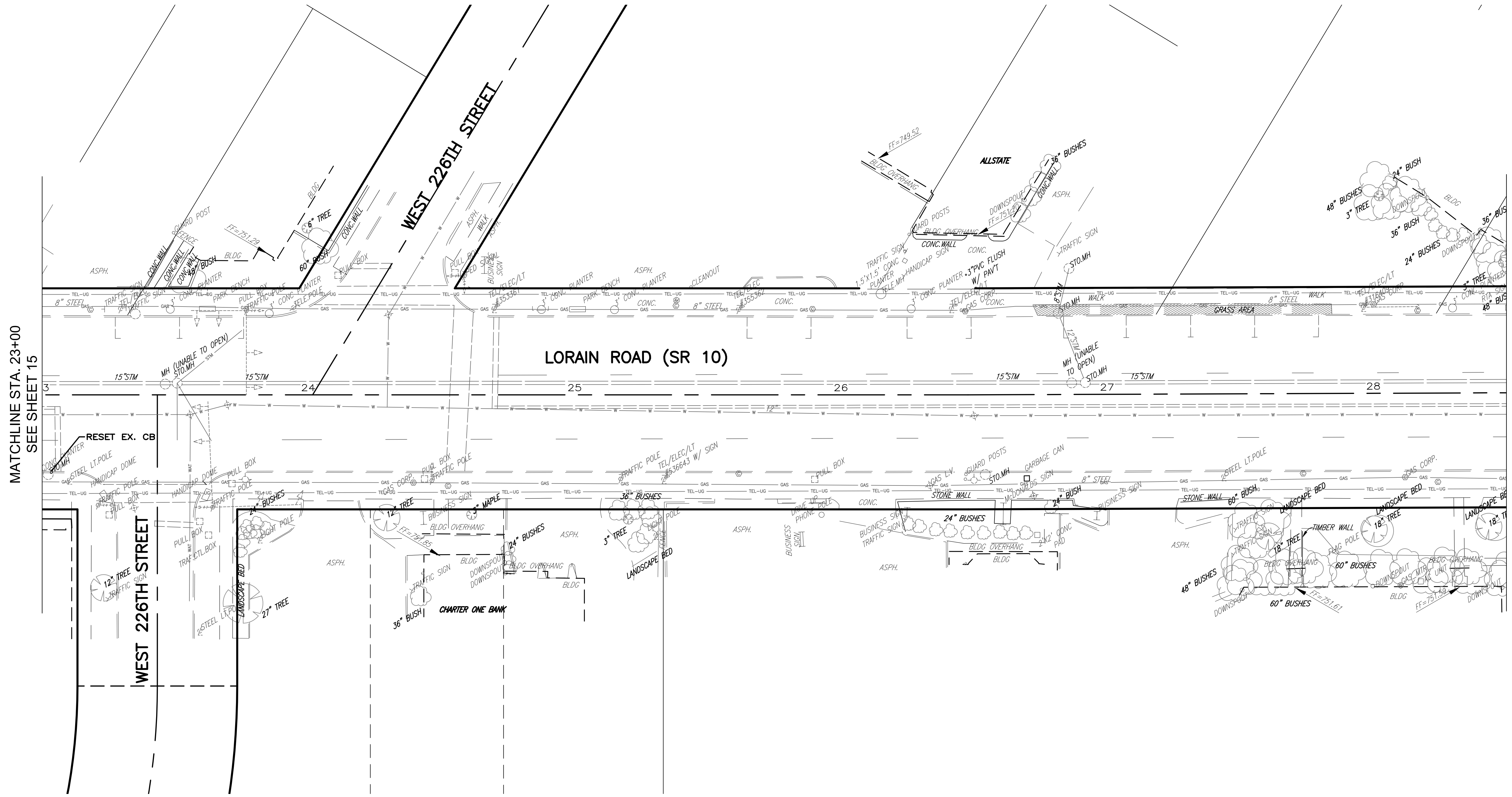
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CALCULATED: SSA
CHECKED: PJR

EXISTING CONDITIONS

CUY- SR 010 - 6.00
STREETSCAPE

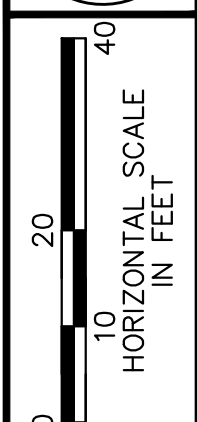
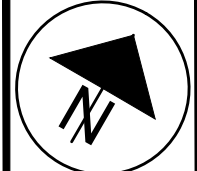


MATCHLINE STA. 23+00
SEE SHEET 15

MATCHLINE STA. 28+50
SEE SHEET 17

SYMBOL	DESCRIPTION
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	EXISTING TREELAWN AREA

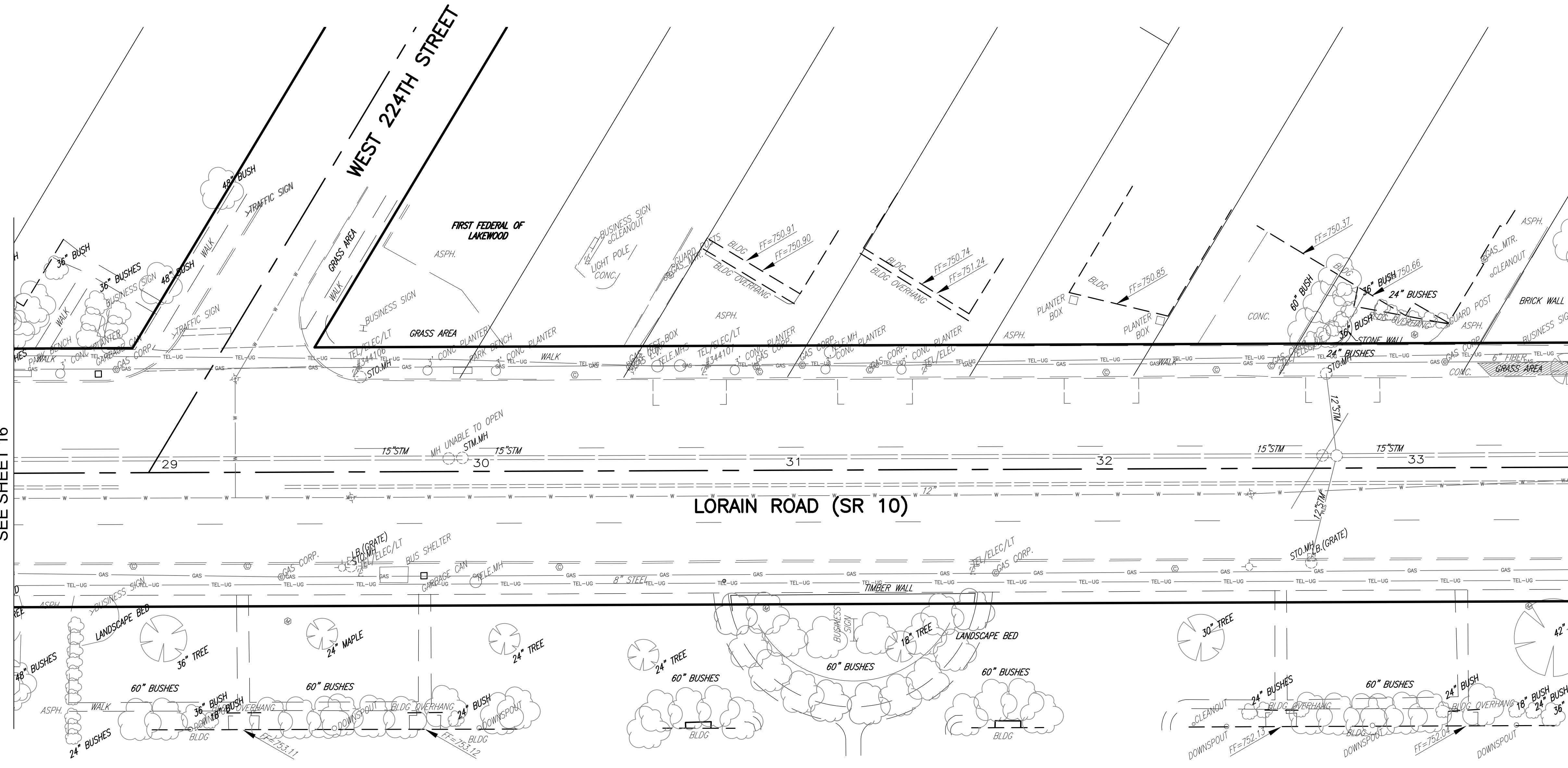
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CALCULATED: SSA
CHECKED: PJR

MATCHLINE STA. 28+50
SEE SHEET 16

MATCHLINE STA. 33+50
SEE SHEET 18



LORAIN ROAD (SR 10)

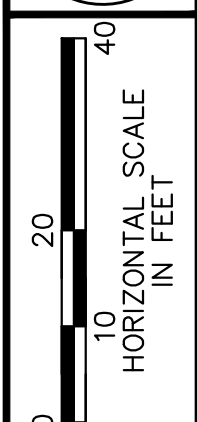
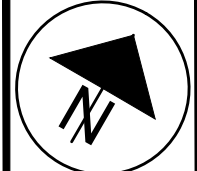
WEST 224TH STREET

FIRST FEDERAL OF LAKEWOOD

SYMBOL	DESCRIPTION
	BRICK PAVERS REMOVED
	EXISTING TREELAWN AREA

EXISTING CONDITIONS

CUY- SR 010 - 6.00
STREETSCAPE

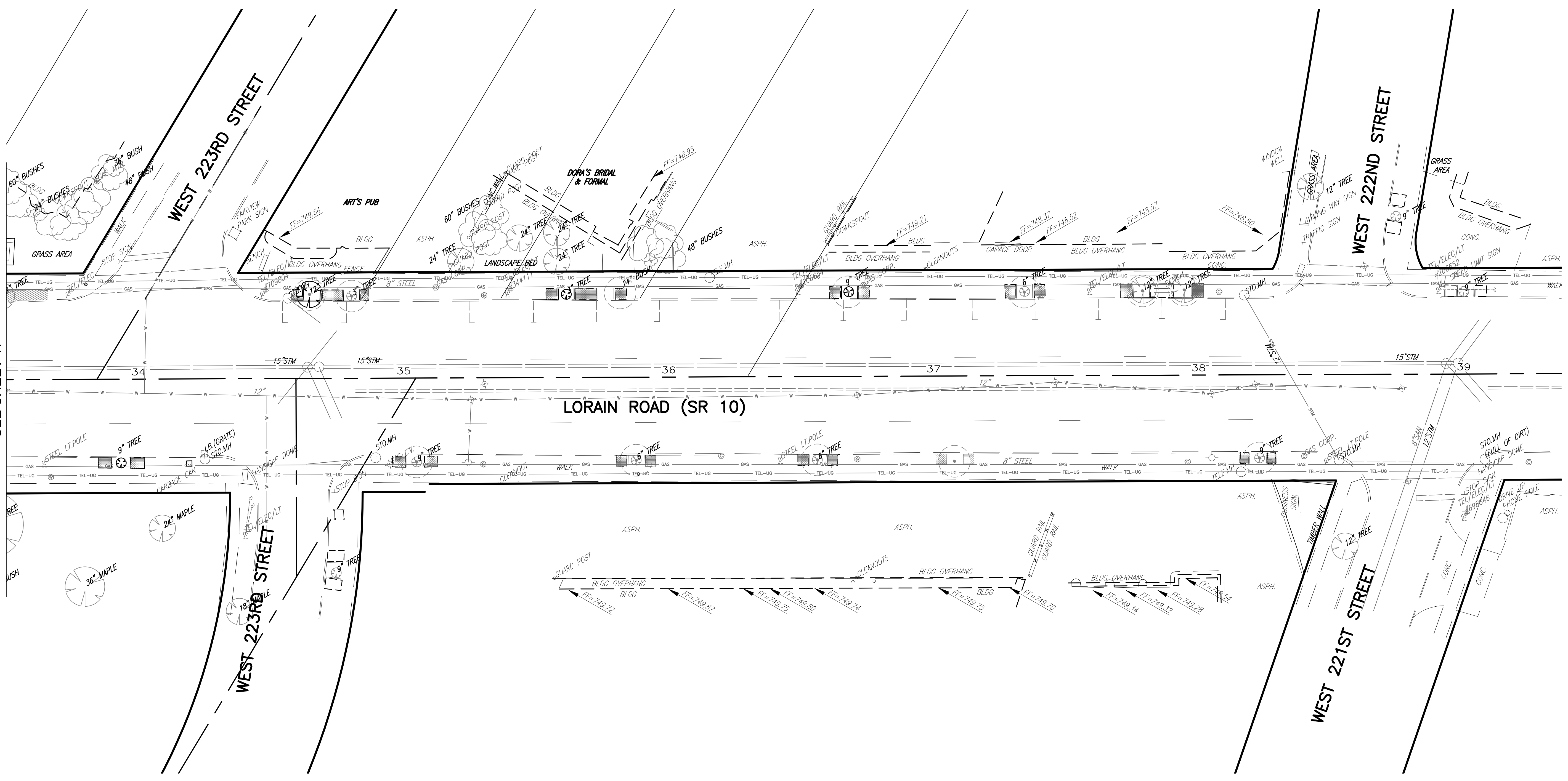


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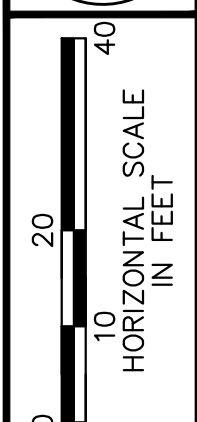
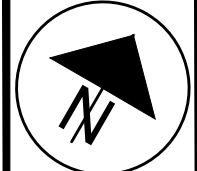
EXISTING CONDITIONS

CUY- SR 010 - 6.00
STREETSCAPE

MATCHLINE STA. 33+50
SEE SHEET 17



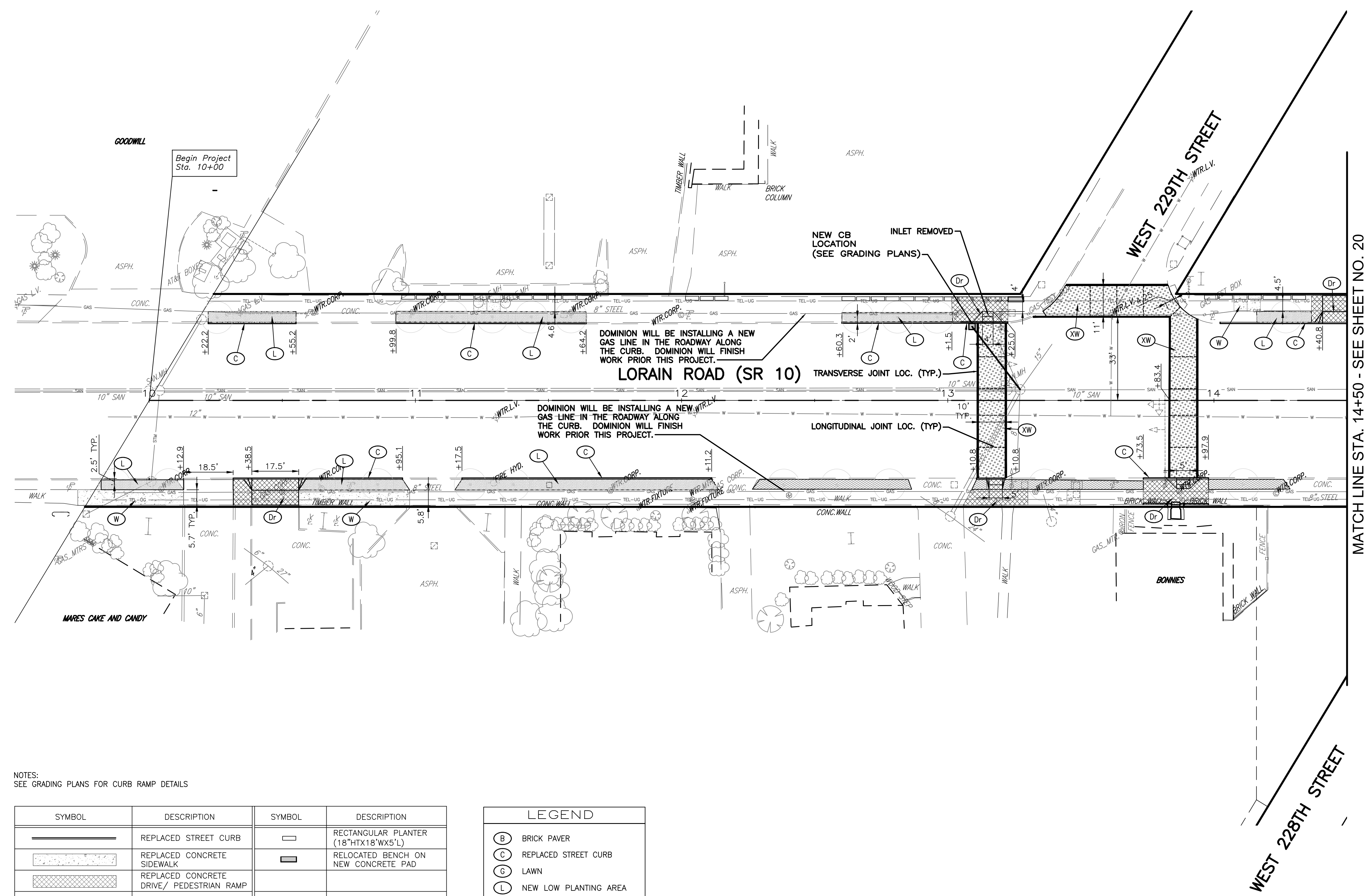
SYMBOL	DESCRIPTION
	BRICK PAVERS REMOVED
	EXISTING TREELAWN AREA



CALCULATED: SSA
CHECKED: PJR

PROPOSED LAYOUT

CUY- SR 010 - 6.00
STREETSCAPE

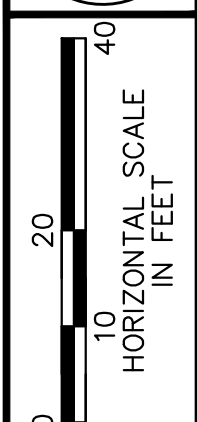
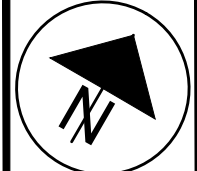


NOTES:
SEE GRADING PLANS FOR CURB RAMP DETAILS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	REPLACED STREET CURB		RECTANGULAR PLANTER (18"HTX18"WX5'L)
	REPLACED CONCRETE SIDEWALK		RELOCATED BENCH ON NEW CONCRETE PAD
	REPLACED CONCRETE DRIVE/ PEDESTRIAN RAMP		
	NEW TREELAWN AREA		
	EXISTING TREELAWN AREA		
	DECORATIVE STAMPED CONCRETE CROSSWALK		
	NEW LOW PLANTING AREA		
	BRICK PAVER (REUSE EXISTING BRICK)		
	NEW TRASH RECEPTACLE		

LEGEND	
	BRICK PAVER
	REPLACED STREET CURB
	LAWN
	NEW LOW PLANTING AREA
	REPLACED CONCRETE SIDEWALK
	REPLACED CONCRETE DRIVE/ PEDESTRIAN RAMP
	DECORATIVE STAMPED CONCRETE CROSSWALK

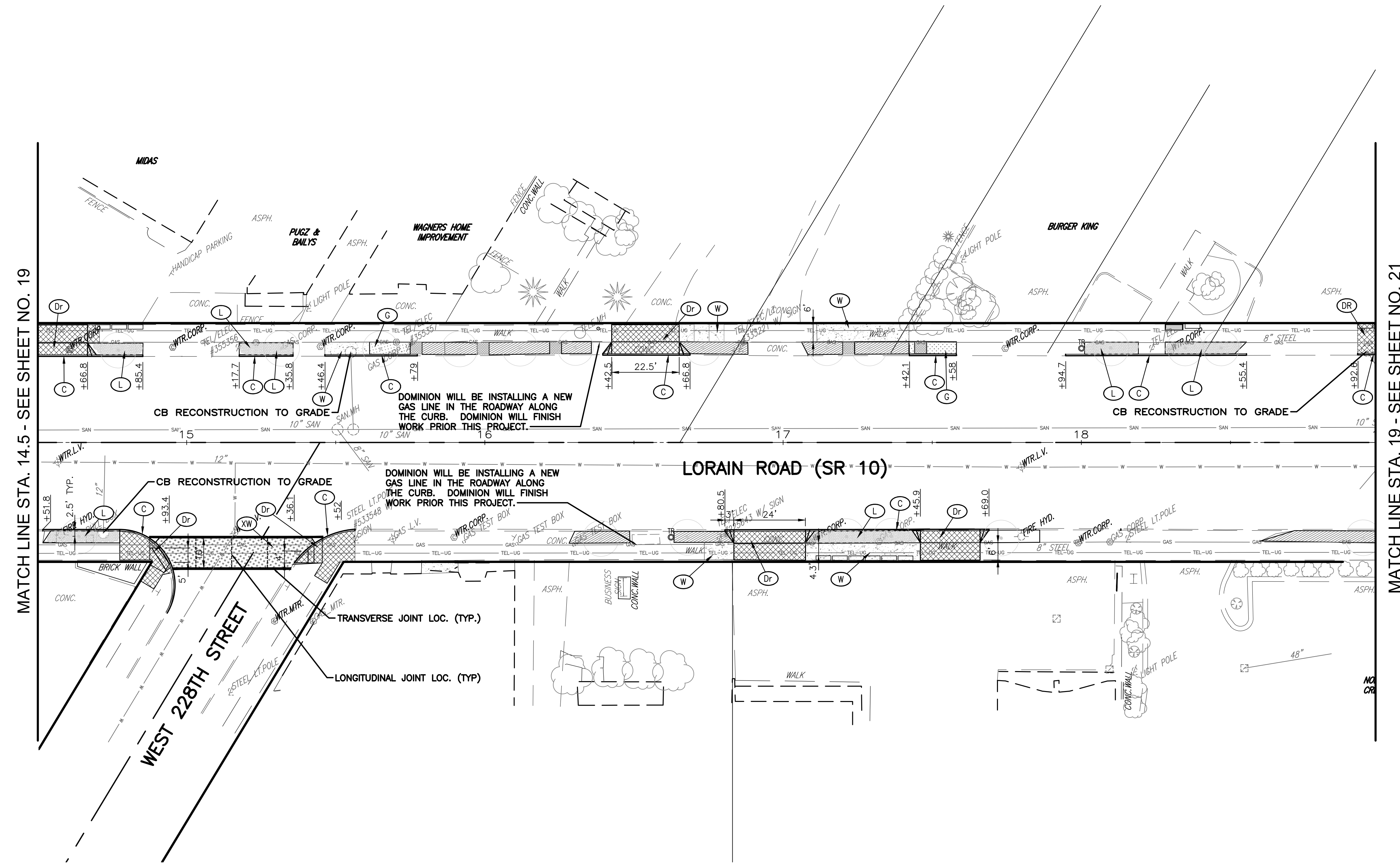
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PROPOSED LAYOUT

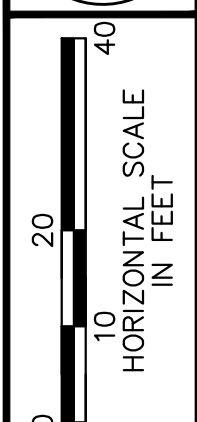
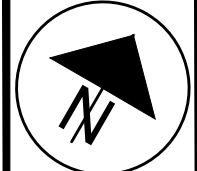
CUY - SR 010 - 6.00
STREETSCAPE



NOTES:
SEE GRADING PLANS FOR CURB RAMP DETAILS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	REPLACED STREET CURB		RECTANGULAR PLANTER (18"HTX18"WX5'L)
	REPLACED CONCRETE SIDEWALK		RELOCATED BENCH ON NEW CONCRETE PAD
	REPLACED CONCRETE DRIVE/ PEDESTRIAN RAMP		
	NEW TREELAWN AREA		
	EXISTING TREELAWN AREA		
	DECORATIVE STAMPED CONCRETE CROSSWALK		
	NEW LOW PLANTING AREA		
	BRICK PAVER (REUSE EXISTING BRICK)		
	NEW TRASH RECEPTACLE		

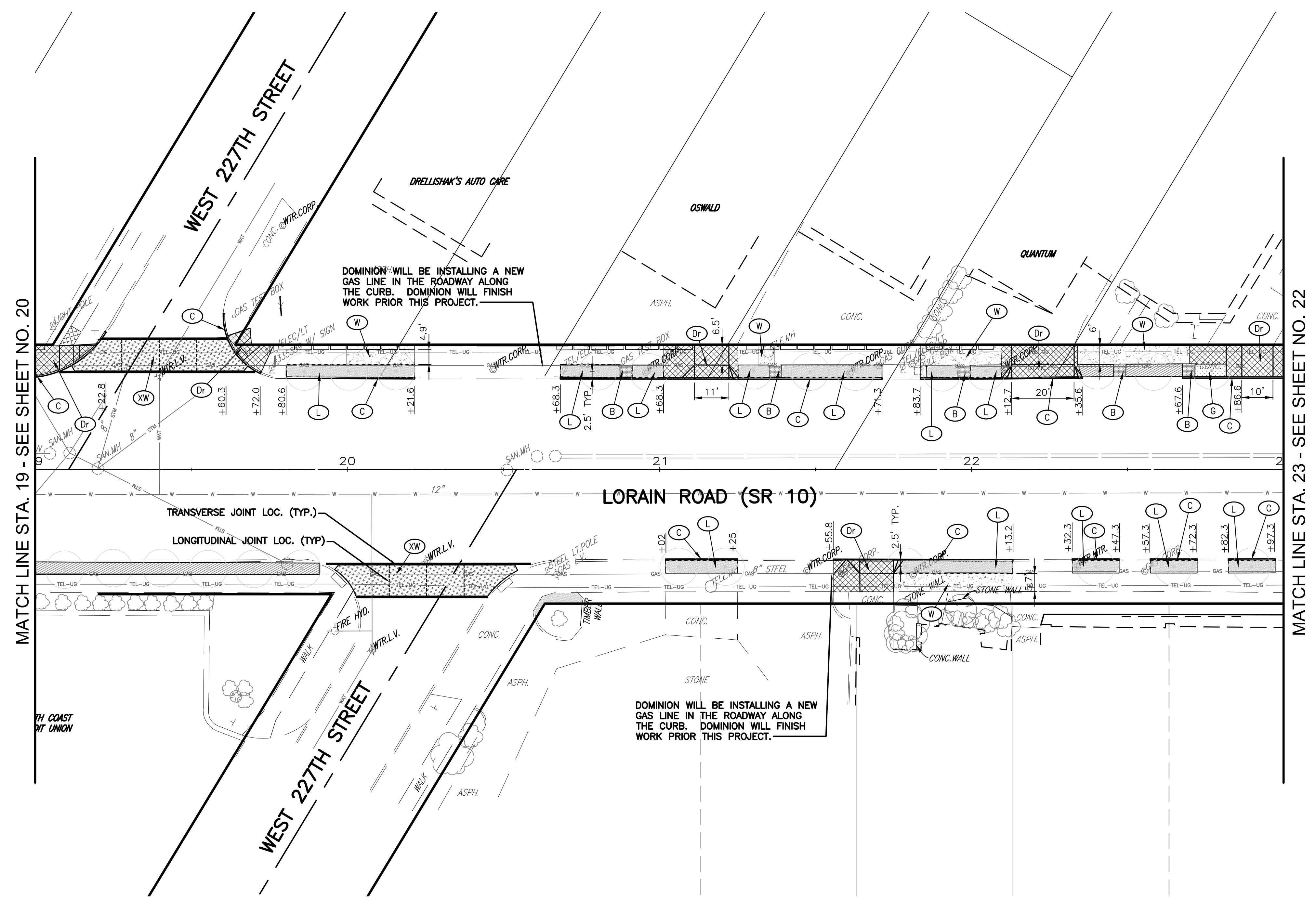
LEGEND	
	BRICK PAVER
	REPLACED STREET CURB
	LAWN
	NEW LOW PLANTING AREA
	REPLACED CONCRETE SIDEWALK
	REPLACED CONCRETE DRIVE/ PEDESTRIAN RAMP
	DECORATIVE STAMPED CONCRETE CROSSWALK



CALCULATED: SSA
CHECKED: PJR

PROPOSED LAYOUT

CUY- SR 010 - 6.00
STREETSCAPE

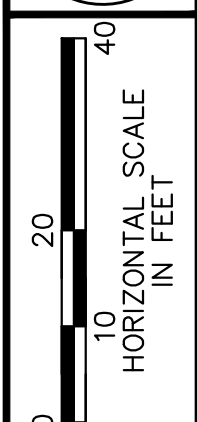
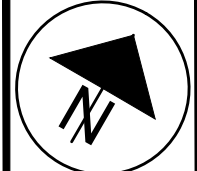


NOTES:
SEE GRADING PLANS FOR CURB RAMP DETAILS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	REPLACED STREET CURB		RECTANGULAR PLANTER (18"HTX18"WX5'L)
	REPLACED CONCRETE SIDEWALK		RELOCATED BENCH ON NEW CONCRETE PAD
	REPLACED CONCRETE DRIVE/ PEDESTRIAN RAMP		
	NEW TREELAWN AREA		
	EXISTING TREELAWN AREA		
	DECORATIVE STAMPED CONCRETE CROSSWALK		
	NEW LOW PLANTING AREA		
	BRICK PAVER (REUSE EXISTING BRICK)		
	NEW TRASH RECEPTACLE		

LEGEND	
	BRICK PAVER
	REPLACED STREET CURB
	LAWN
	NEW LOW PLANTING AREA
	REPLACED CONCRETE SIDEWALK
	REPLACED CONCRETE DRIVE/ PEDESTRIAN RAMP
	DECORATIVE STAMPED CONCRETE CROSSWALK

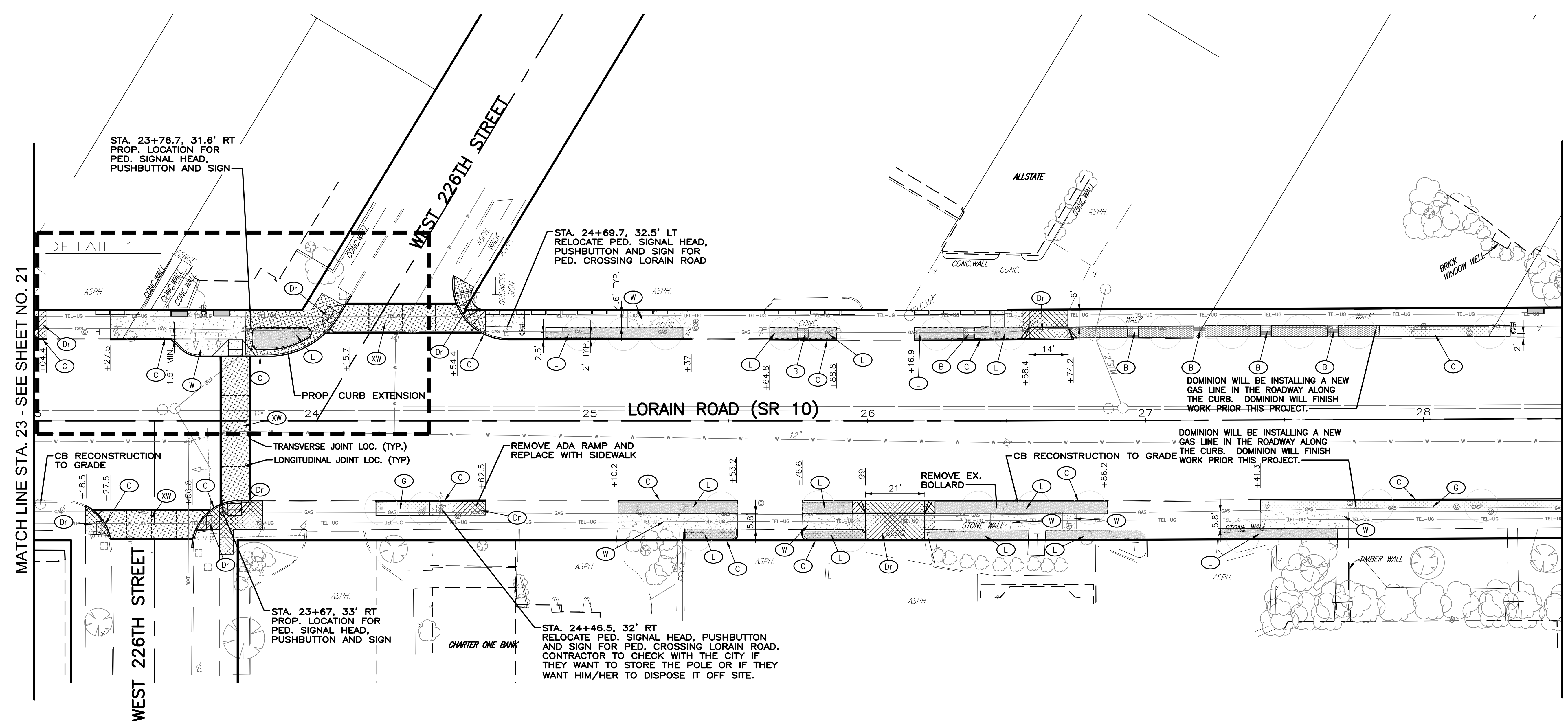
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CALCULATED: SSA
CHECKED: PJR

PROPOSED LAYOUT

CUY- SR 010 - 6.00
STREETSCAPE



MATCH LINE STA. 23 - SEE SHEET NO. 21

MATCH LINE STA. 28.5 - SEE SHEET NO. 23

LEGEND

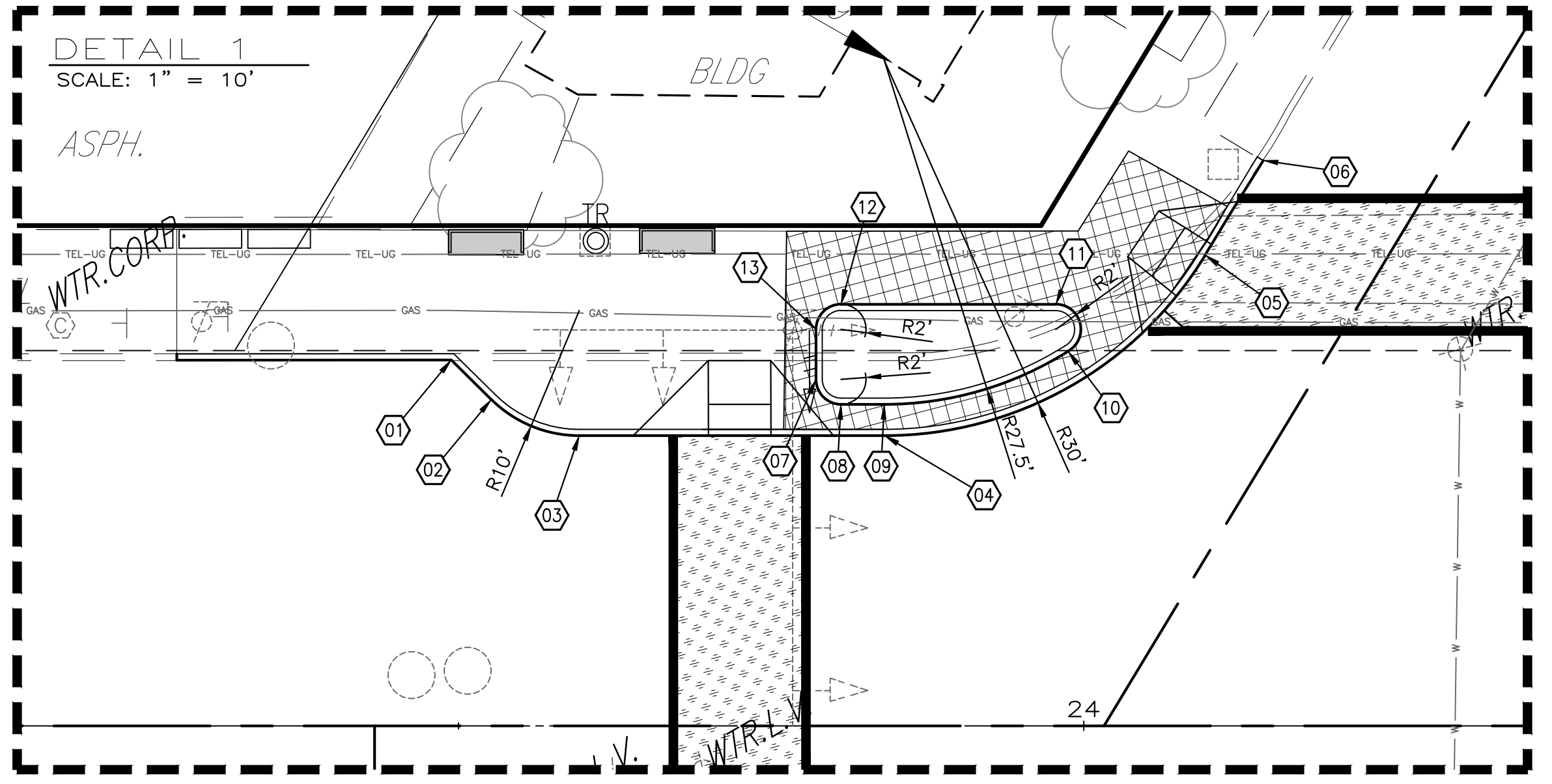
(B)	BRICK PAVER
(C)	REPLACED STREET CURB
(G)	LAWN
(L)	NEW LOW PLANTING AREA
(W)	REPLACED CONCRETE SIDEWALK
(Dr)	REPLACED CONCRETE DRIVE/ PEDESTRIAN RAMP
(XW)	DECORATIVE STAMPED CONCRETE CROSSWALK

COORDINATE POINTS

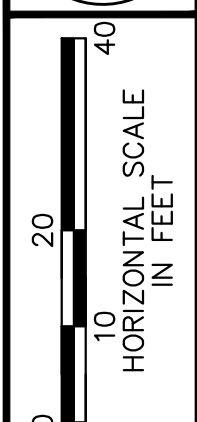
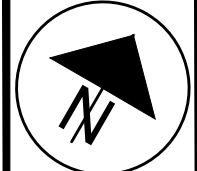
01	23+49.41	29.26'	LT
02	23+52.61	26.09'	LT
03	23+59.65	23.20'	LT
04	23+84.05	23.21'	LT
05	24+09.70	37.66'	LT
06	24+14.34	45.21'	LT
07	23+78.58	27.70'	LT
08	23+80.58	25.71'	LT
09	23+84.05	25.71'	LT
10	23+98.72	29.95'	LT
11	23+97.75	33.70'	LT
12	23+80.57	33.70'	LT
13	23+78.58	31.70'	LT

NOTES:
SEE GRADING PLANS FOR CURB RAMP DETAILS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	REPLACED STREET CURB		RECTANGULAR PLANTER (18"HTX18"WX5'L)
	REPLACED CONCRETE SIDEWALK		RELOCATED BENCH ON NEW CONCRETE PAD
	REPLACED CONCRETE DRIVE/ PEDESTRIAN RAMP		
	NEW TREELAWN AREA		
	EXISTING TREELAWN AREA		
	DECORATIVE STAMPED CONCRETE CROSSWALK		
	NEW LOW PLANTING AREA		
	BRICK PAVER (REUSE EXISTING BRICK)		
	NEW TRASH RECEPTACLE		



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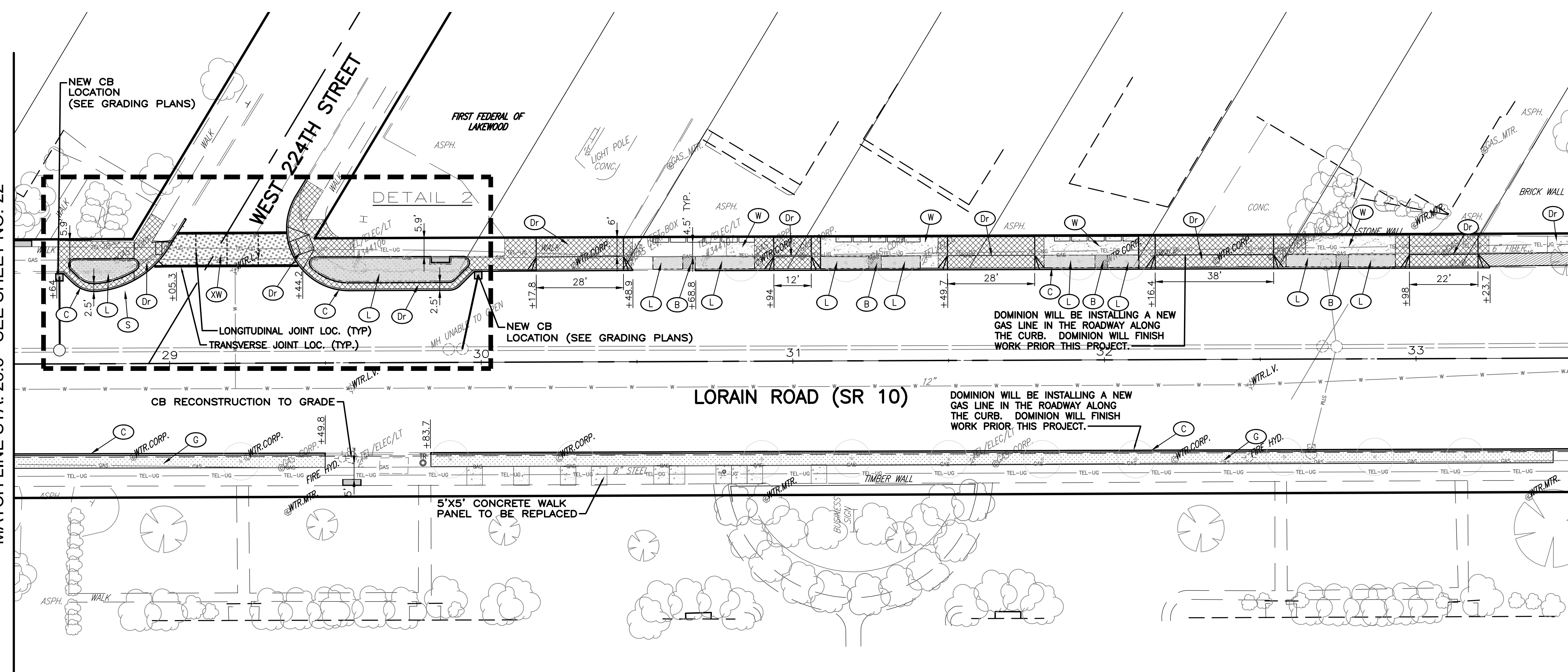
CALCULATED: SSA
CHECKED: PJR

PROPOSED LAYOUT

CUY- SR 010 - 6.00
STREETSCAPE

MATCH LINE STA. 28.5 - SEE SHEET NO. 22

MATCH LINE STA. 33.5 - SEE SHEET NO. 24



COORDINATE POINTS

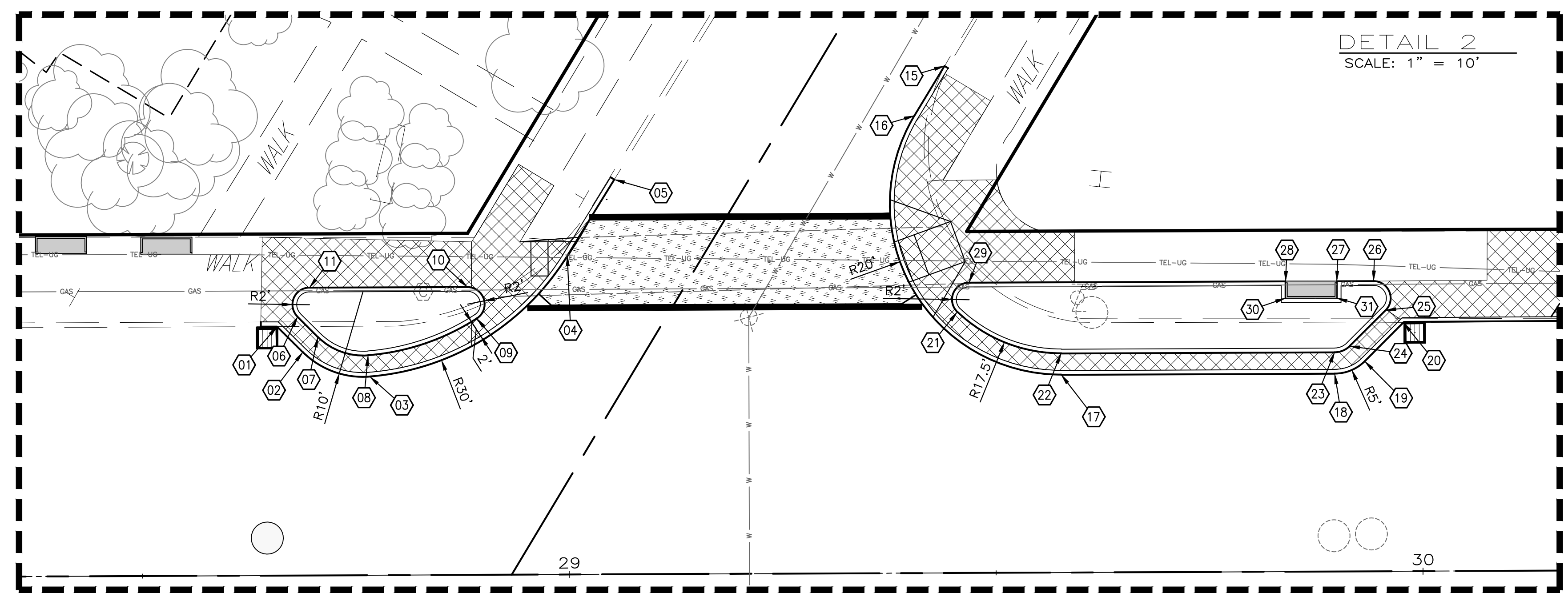
01	28+65.89	29.16'	LT	15	29+44.18	59.38'	LT
02	28+68.90	26.15'	LT	16	29+40.64	53.57'	LT
03	28+76.73	23.25'	LT	17	29+57.72	23.16'	LT
04	28+99.93	37.34'	LT	18	29+89.74	23.16'	LT
05	29+05.46	46.24'	LT	19	29+93.26	24.61'	LT
06	28+68.29	30.29'	LT	20	29+97.89	29.20'	LT
07	28+70.66	27.92'	LT	21	29+45.58	30.55'	LT
08	28+76.54	25.75'	LT	22	29+57.72	25.66'	LT
09	28+89.29	30.02'	LT	23	29+89.74	25.66'	LT
10	28+88.21	33.70'	LT	24	29+91.50	26.39'	LT
11	28+69.70	33.71'	LT	25	29+95.73	30.58'	LT
				26	29+94.32	34.00'	LT
				27	29+90.04	34.00'	LT
				28	29+84.04	34.00'	LT
				29	29+46.96	34.00'	LT

LEGEND

(B)	BRICK PAVER
(C)	REPLACED STREET CURB
(G)	LAWN
(L)	NEW LOW PLANTING AREA
(W)	REPLACED CONCRETE SIDEWALK
(Dr)	REPLACED CONCRETE DRIVE/ PEDESTRIAN RAMP
(XW)	DECORATIVE STAMPED CONCRETE CROSSWALK

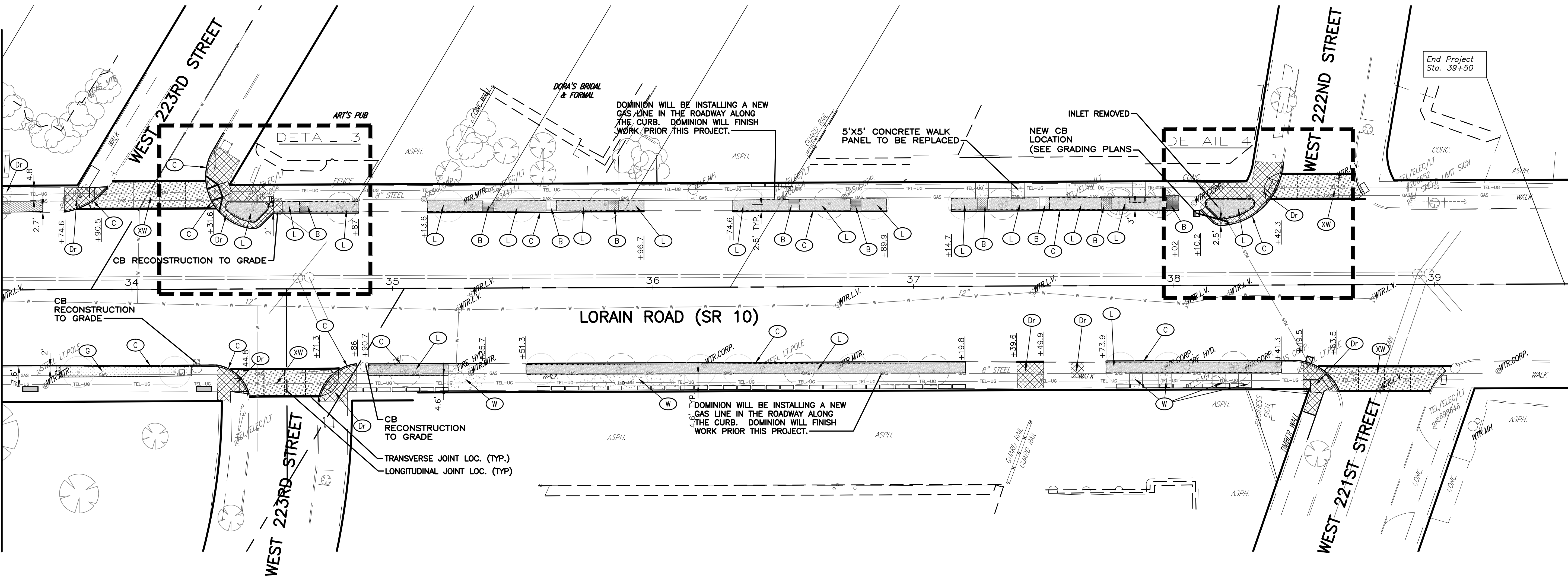
NOTES:
SEE GRADING PLANS FOR CURB RAMP DETAILS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	REPLACED STREET CURB		RECTANGULAR PLANTER (18"HTX18"WX5'L)
	REPLACED CONCRETE SIDEWALK		RELOCATED BENCH ON NEW CONCRETE PAD
	REPLACED CONCRETE DRIVE/ PEDESTRIAN RAMP		
	NEW TREELAWN AREA		
	EXISTING TREELAWN AREA		
	DECORATIVE STAMPED CONCRETE CROSSWALK		
	NEW LOW PLANTING AREA		
	BRICK PAVER (REUSE EXISTING BRICK)		
	NEW TRASH RECEPTACLE		



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MATCH LINE STA. 33.5 - SEE SHEET NO. 23



COORDINATE POINTS

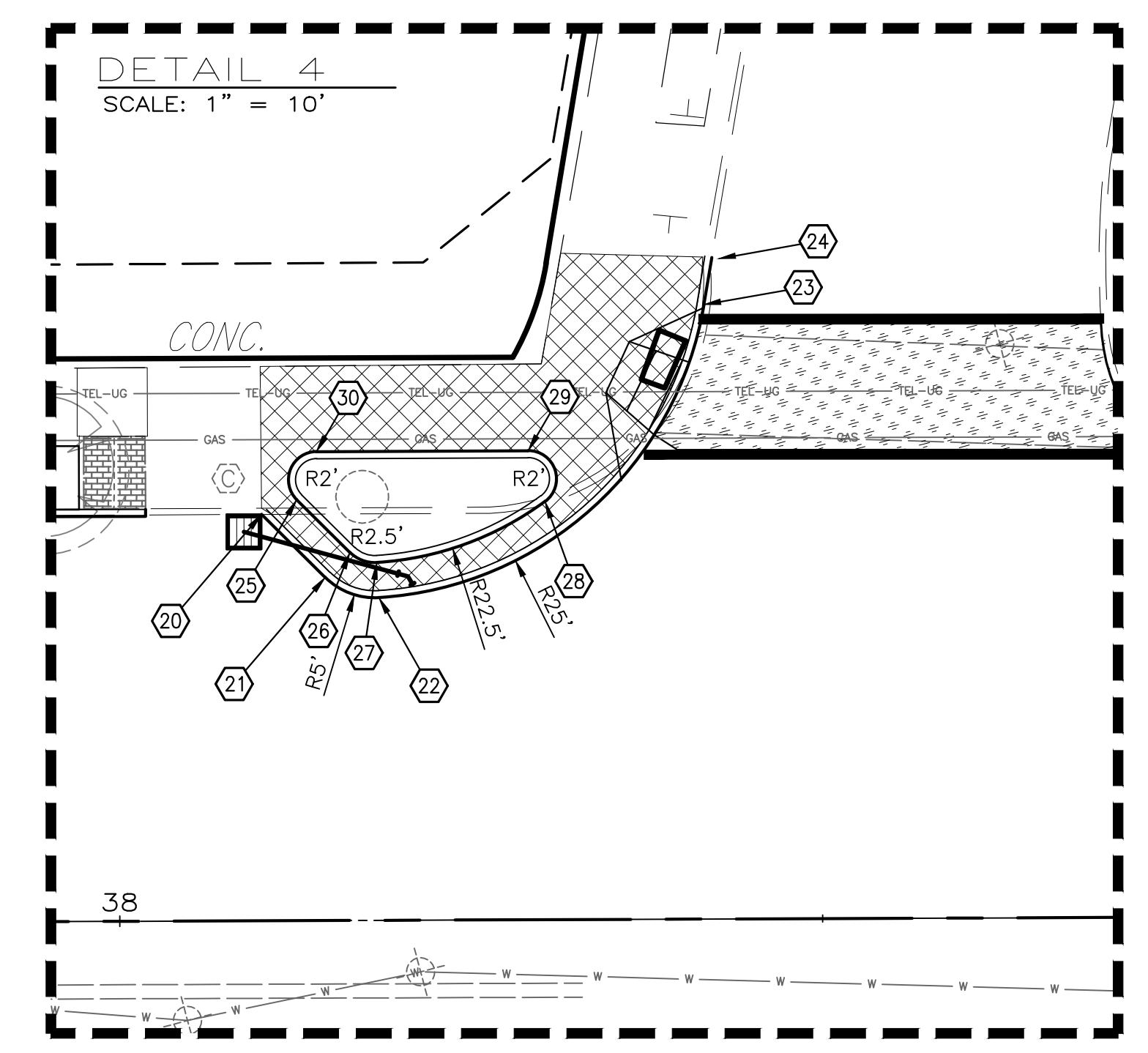
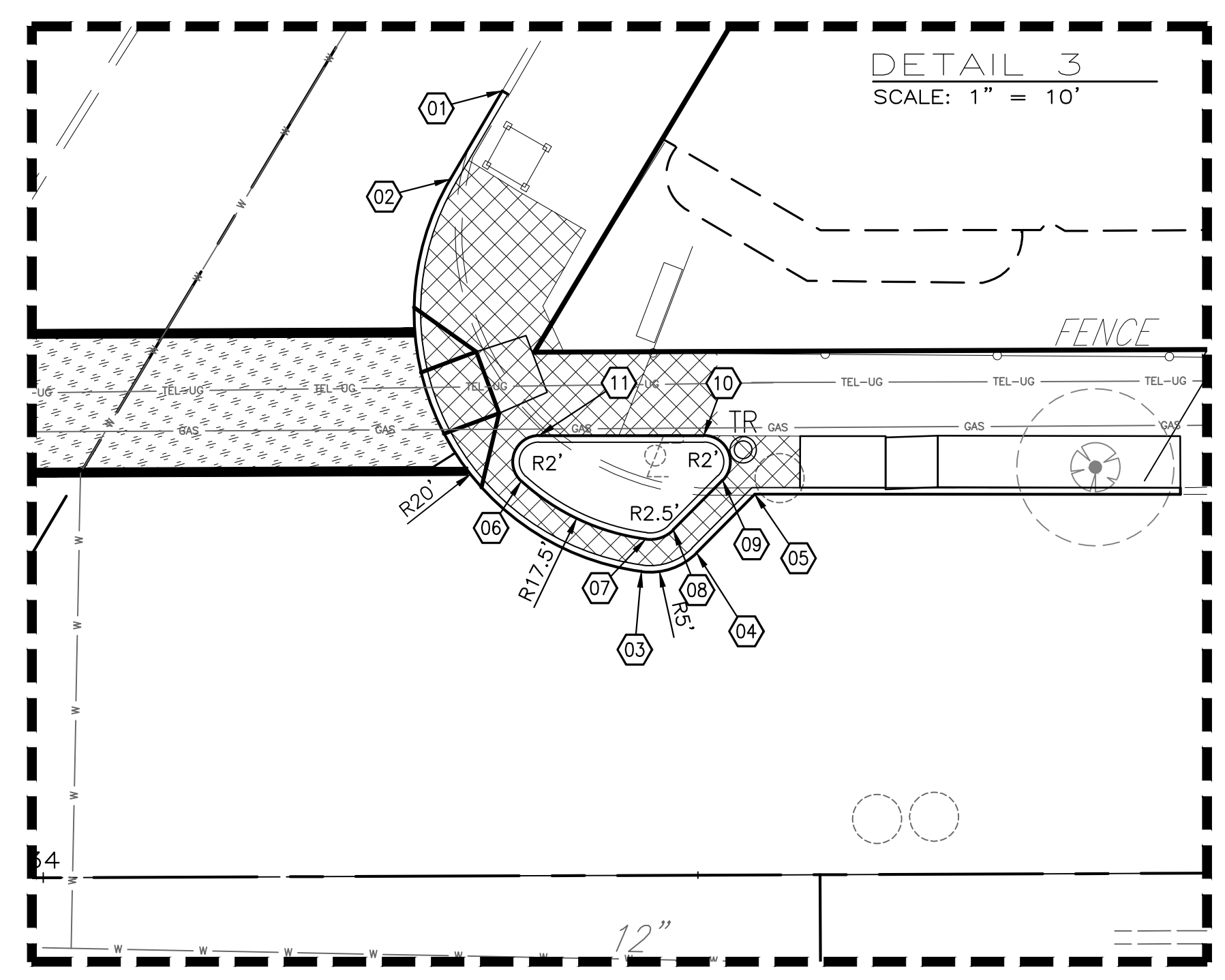
01	34+35.3	59.98'	LT	20	38+10.20	28.89'	LT
02	34+31.29	53.25'	LT	21	38+14.70	24.39'	LT
03	34+45.79	23.21'	LT	22	38+18.53	22.94'	LT
04	34+50.00	24.63'	LT	23	38+41.72	43.69'	LT
05	34+54.46	29.09'	LT	24	38+42.29	47.04'	LT
06	34+36.63	30.15'	LT	25	38+12.70	29.92'	LT
07	34+46.12	25.69'	LT	26	38+16.47	26.16'	LT
08	34+48.23	26.40'	LT	27	38+18.38	25.44'	LT
09	34+52.00	30.17'	LT	28	38+30.36	29.74'	LT
10	34+50.59	33.58'	LT	29	38+29.17	33.50'	LT
11	34+37.99	33.62'	LT	30	38+14.12	33.33'	LT

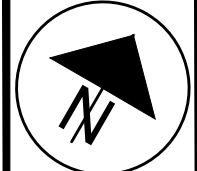
LEGEND

(B)	BRICK PAVER
(C)	REPLACED STREET CURB
(G)	LAWN
(L)	NEW LOW PLANTING AREA
(W)	REPLACED CONCRETE SIDEWALK
(Dr)	REPLACED CONCRETE DRIVE/ PEDESTRIAN RAMP
(XW)	DECORATIVE STAMPED CONCRETE CROSSWALK

NOTES:
SEE GRADING PLANS FOR CURB RAMP DETAILS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
(C)	REPLACED STREET CURB	(R2)	RECTANGULAR PLANTER (18"HTX18"WX5'L)
(W)	REPLACED CONCRETE SIDEWALK	(B)	RELOCATED BENCH ON NEW CONCRETE PAD
(Dr)	REPLACED CONCRETE DRIVE/ PEDESTRIAN RAMP		
(L)	NEW TREELAWN AREA		
(W)	EXISTING TREELAWN AREA		
(XW)	DECORATIVE STAMPED CONCRETE CROSSWALK		
(L)	NEW LOW PLANTING AREA		
(B)	BRICK PAVER (REUSE EXISTING BRICK)		
(Dr)	NEW TRASH RECEPTACLE		





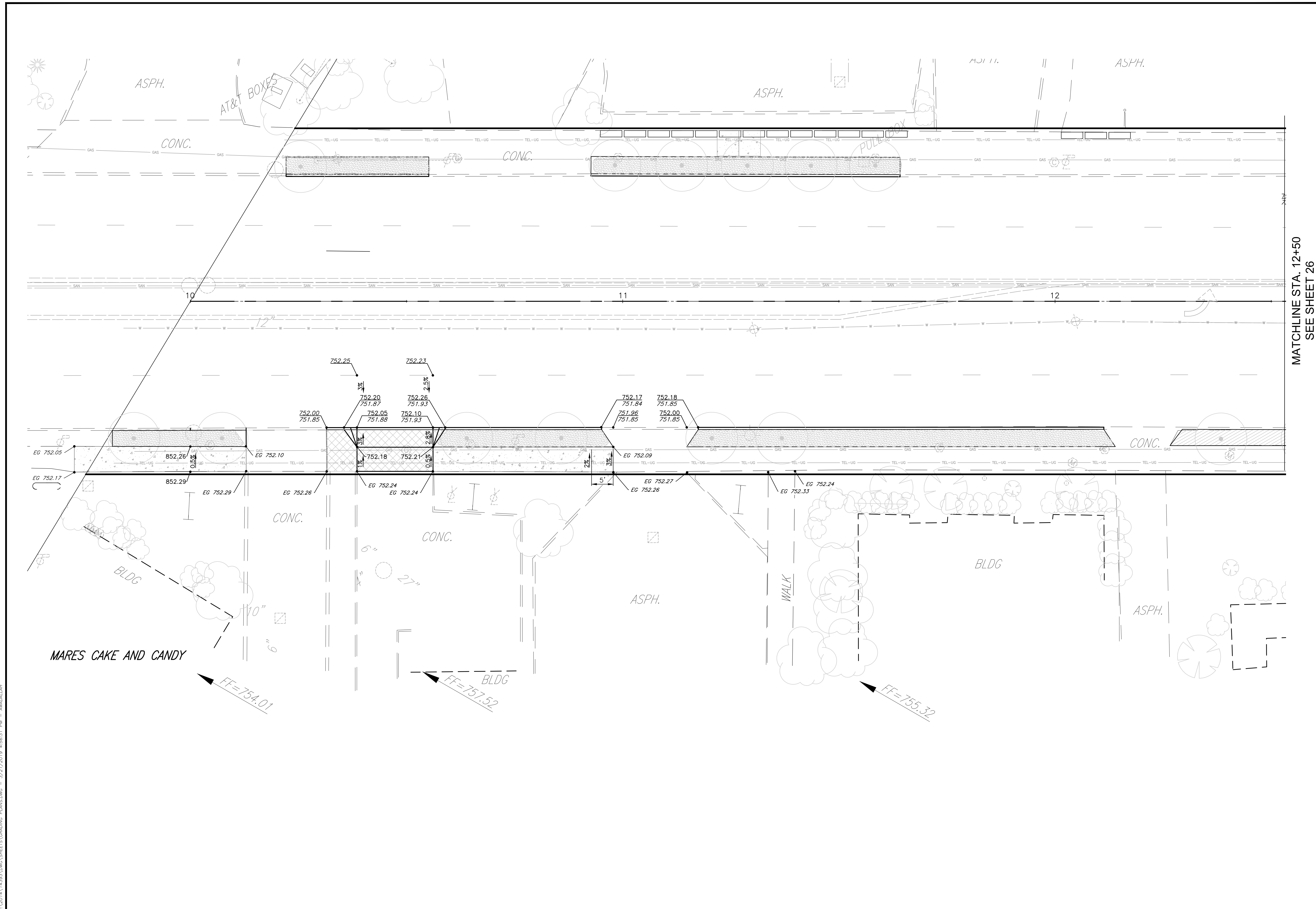
0 10 20
HORIZONTAL SCALE
IN FEET

CALCULATED: BEK
CHECKED: SSA

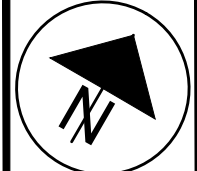
GRADING PLAN

CUY - SR 010 - 6.00
STREETSCAPE

25
57



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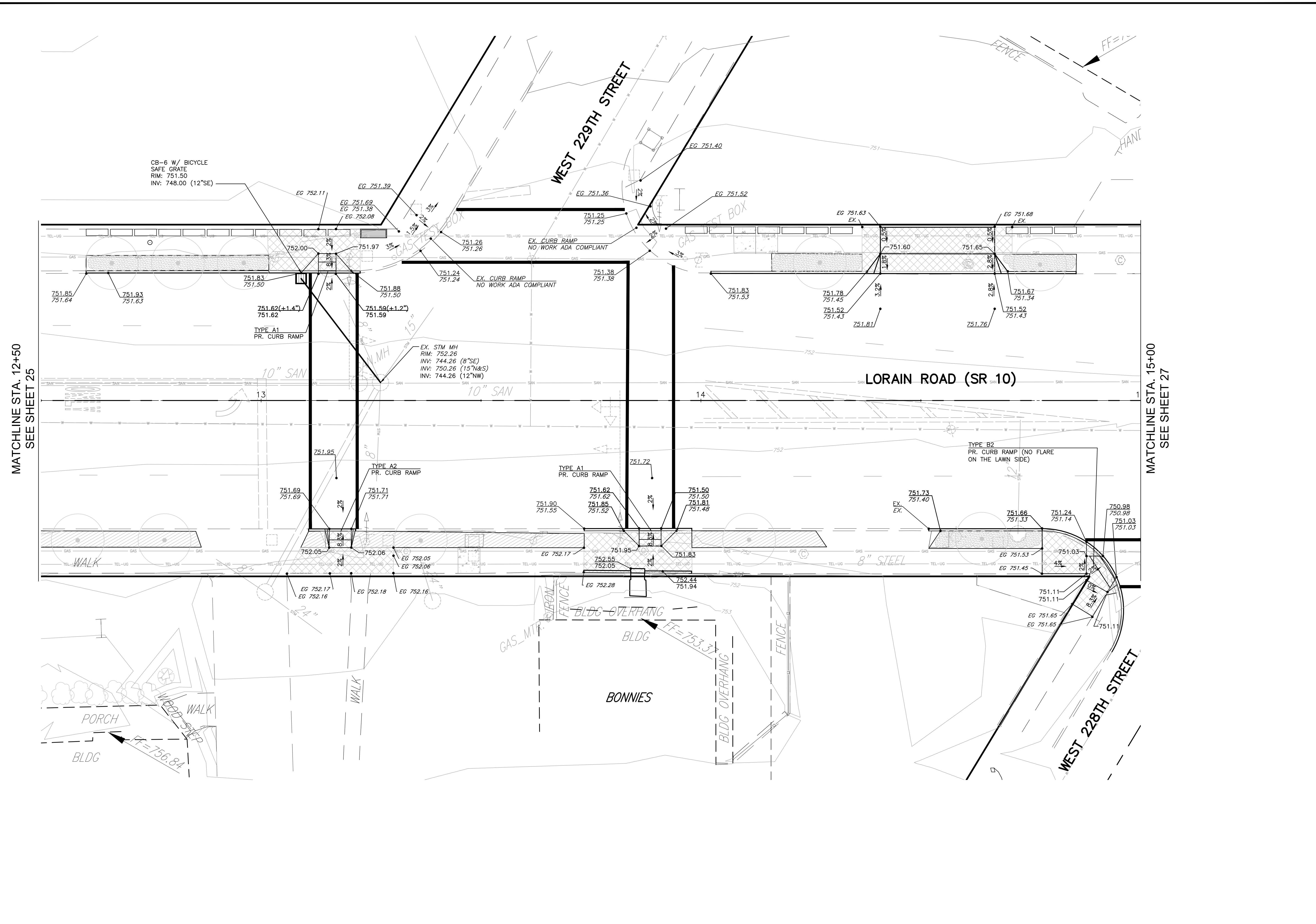


CALCULATED: BEK
CHECKED: SSA

GRADING PLAN

CUY - SR 010 - 6.00
STREETSCAPE

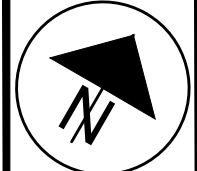
26
57



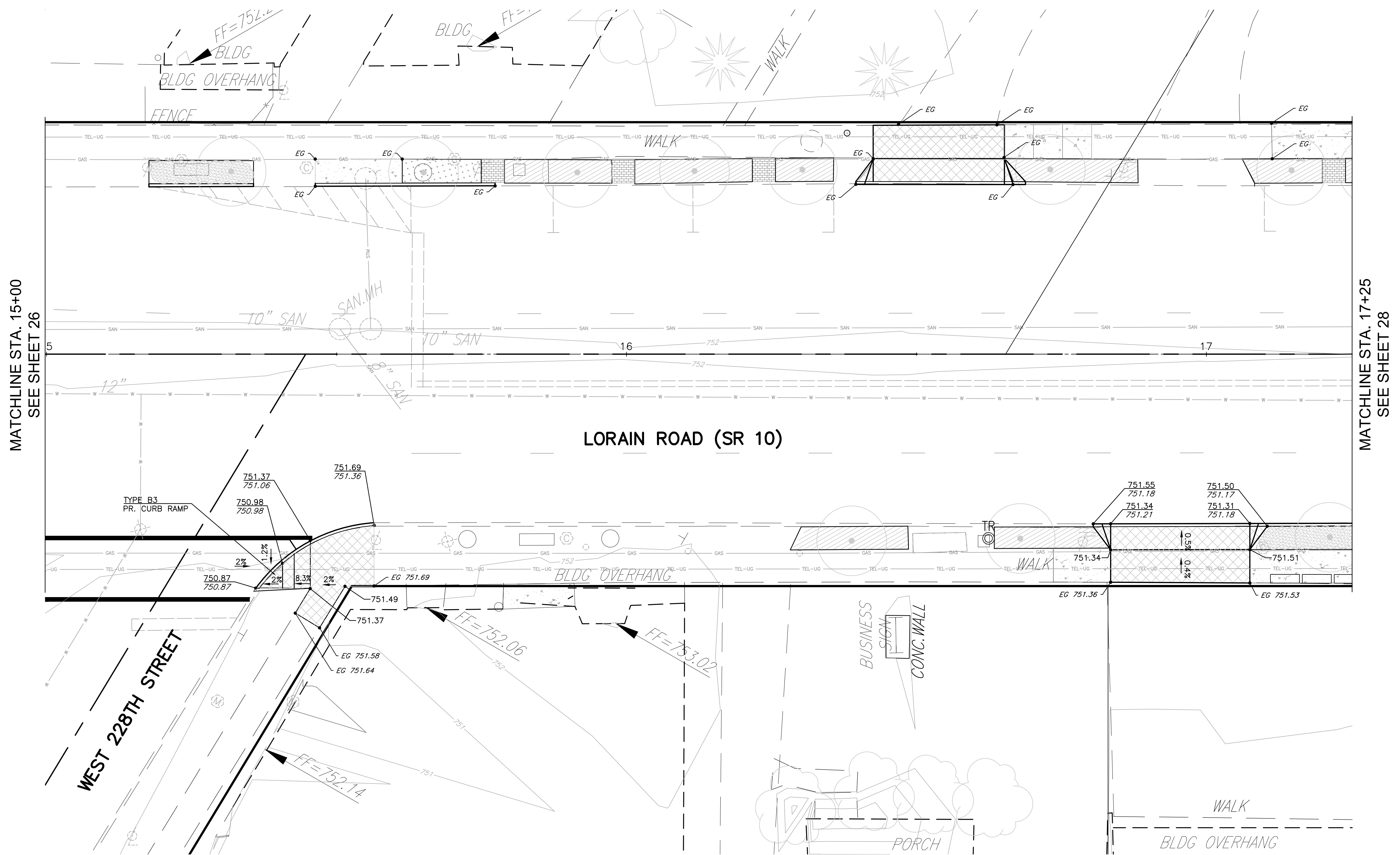
MATCHLINE STA. 12+50
SEE SHEET 25

MATCHLINE STA. 15+00
SEE SHEET 27

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CALCULATED: BEK
CHECKED: SSA



MATCHLINE STA. 15+00
SEE SHEET 26

MATCHLINE STA. 17+25
SEE SHEET 28

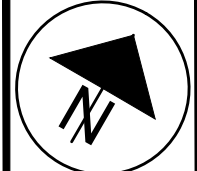
LORAIN ROAD (SR 10)

WEST 228TH STREET

GRADING PLAN

CUY - SR 010 - 6.00
STREETSCAPE

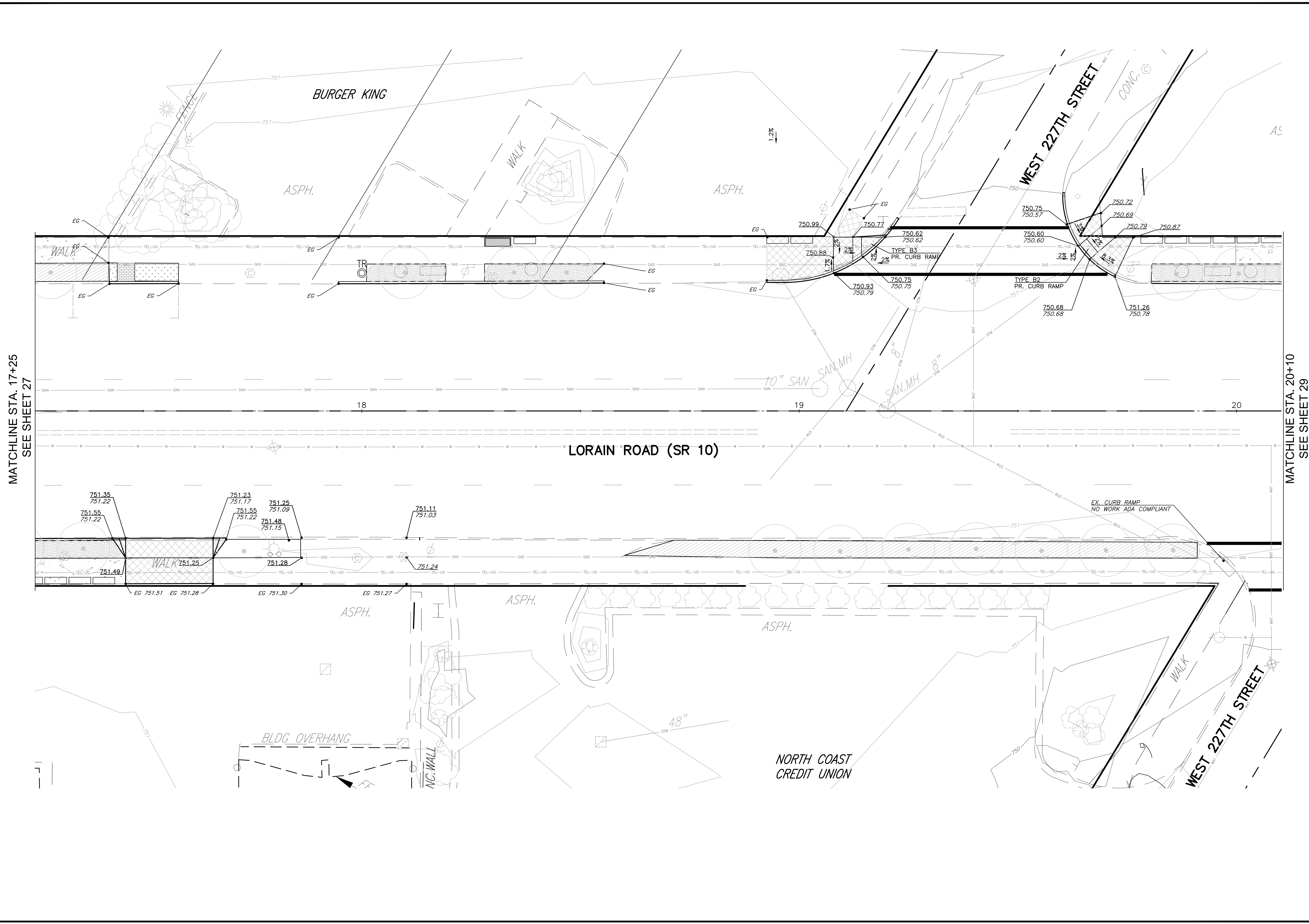
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CALCULATED: BEK
CHECKED: SSA

GRADING PLAN

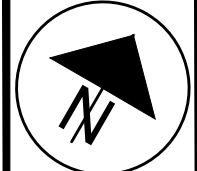
CUY - SR 010 - 6.00
STREETSCAPE



MATCHLINE STA. 17+25
SEE SHEET 27

MATCHLINE STA. 20+10
SEE SHEET 29

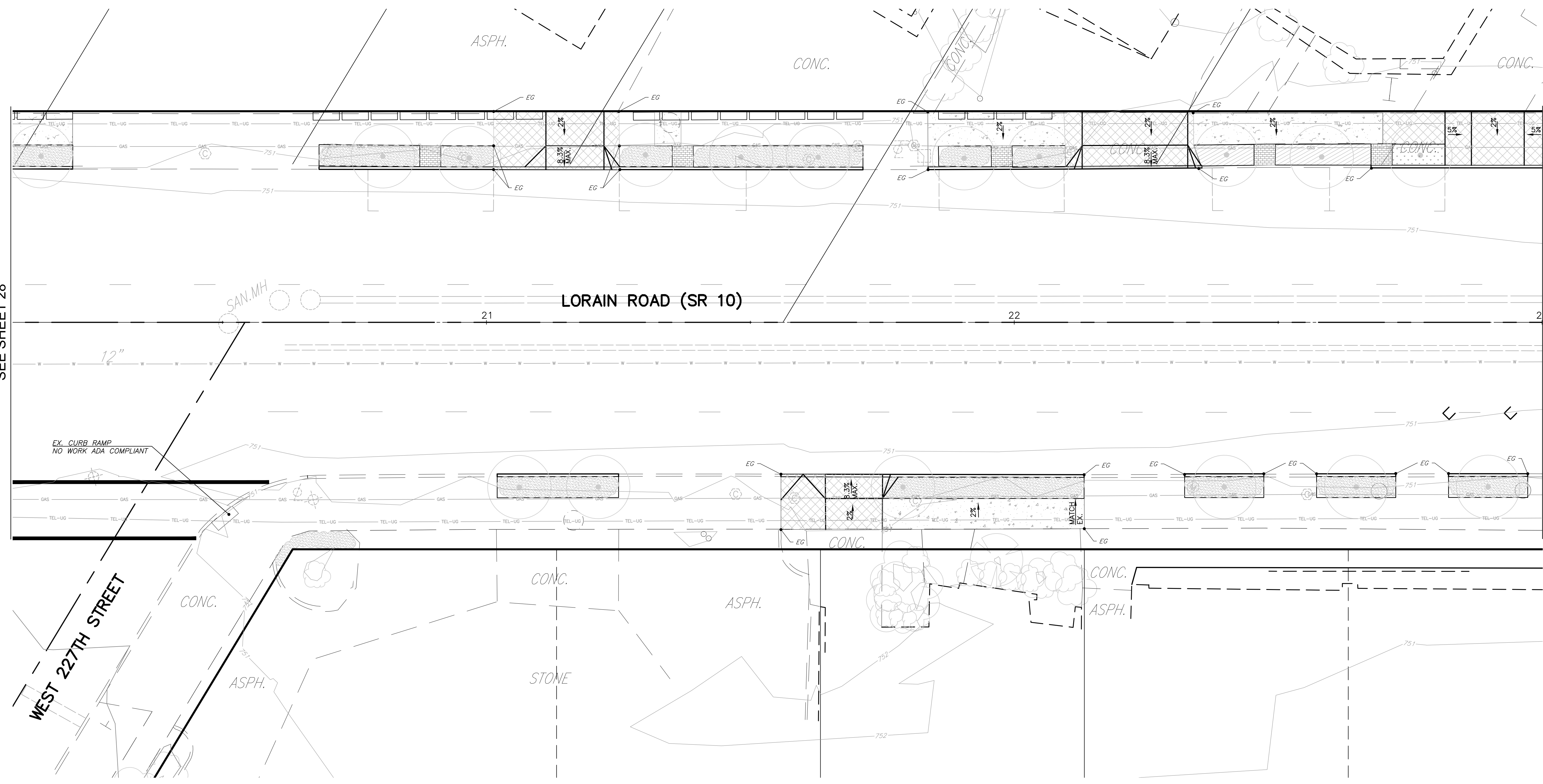
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CALCULATED: BEK
CHECKED: SSA

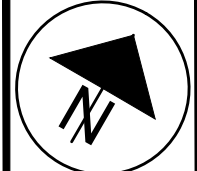
MATCHLINE STA. 20+10
SEE SHEET 28

MATCHLINE STA. 23+00
SEE SHEET 30



GRADING PLAN

CUY - SR 010 - 6.00
STREETSCAPE

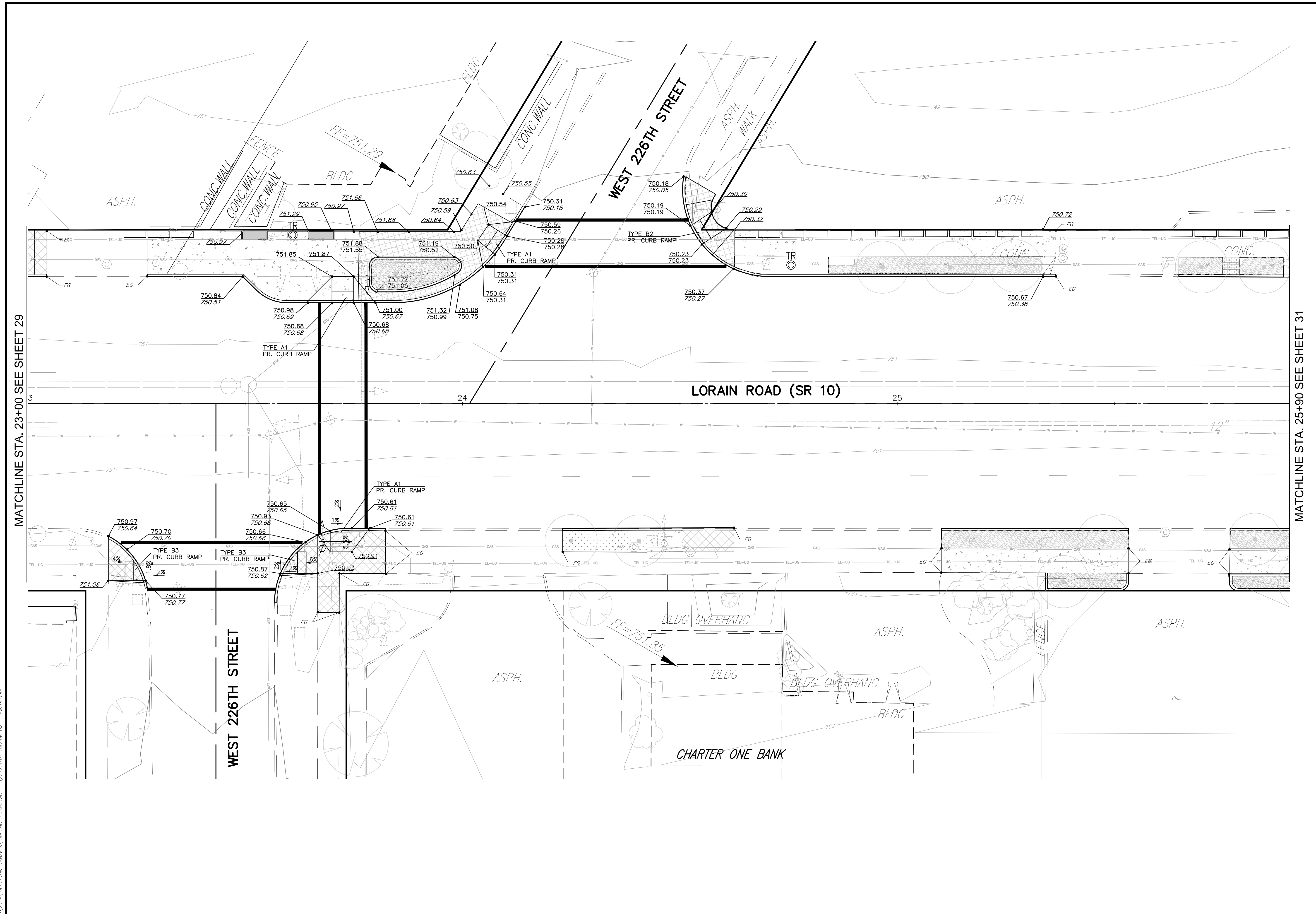


CALCULATED: BEK
CHECKED: SSA

GRADING PLAN

CUY - SR 010 - 6.00
STREETSCAPE

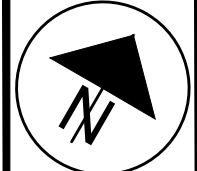
30
57



MATCHLINE STA. 23+00 SEE SHEET 29

MATCHLINE STA. 25+90 SEE SHEET 31

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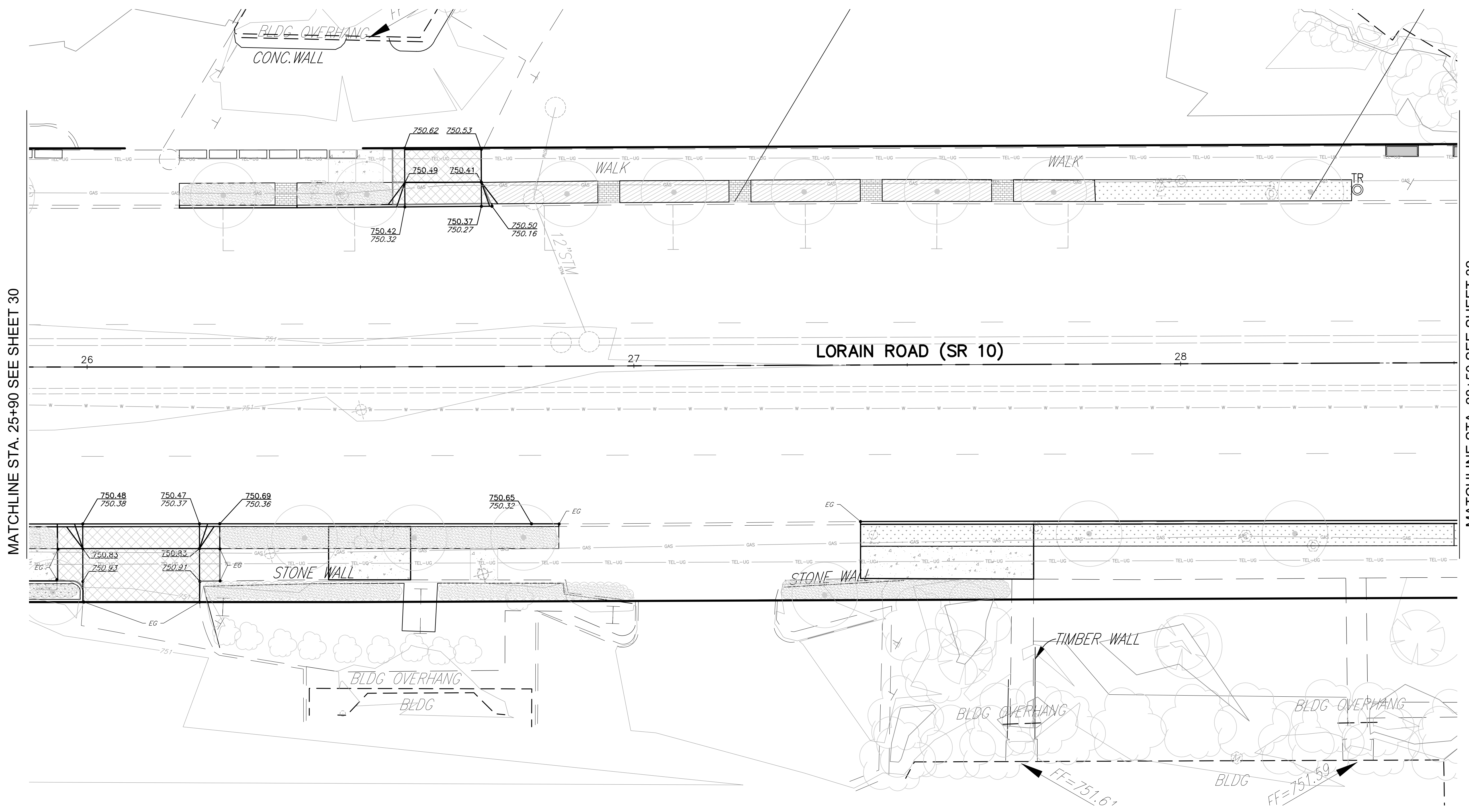


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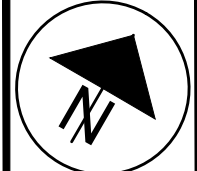
GRADING PLAN

CUY - SR 010 - 6.00
STREETSCAPE

31
57



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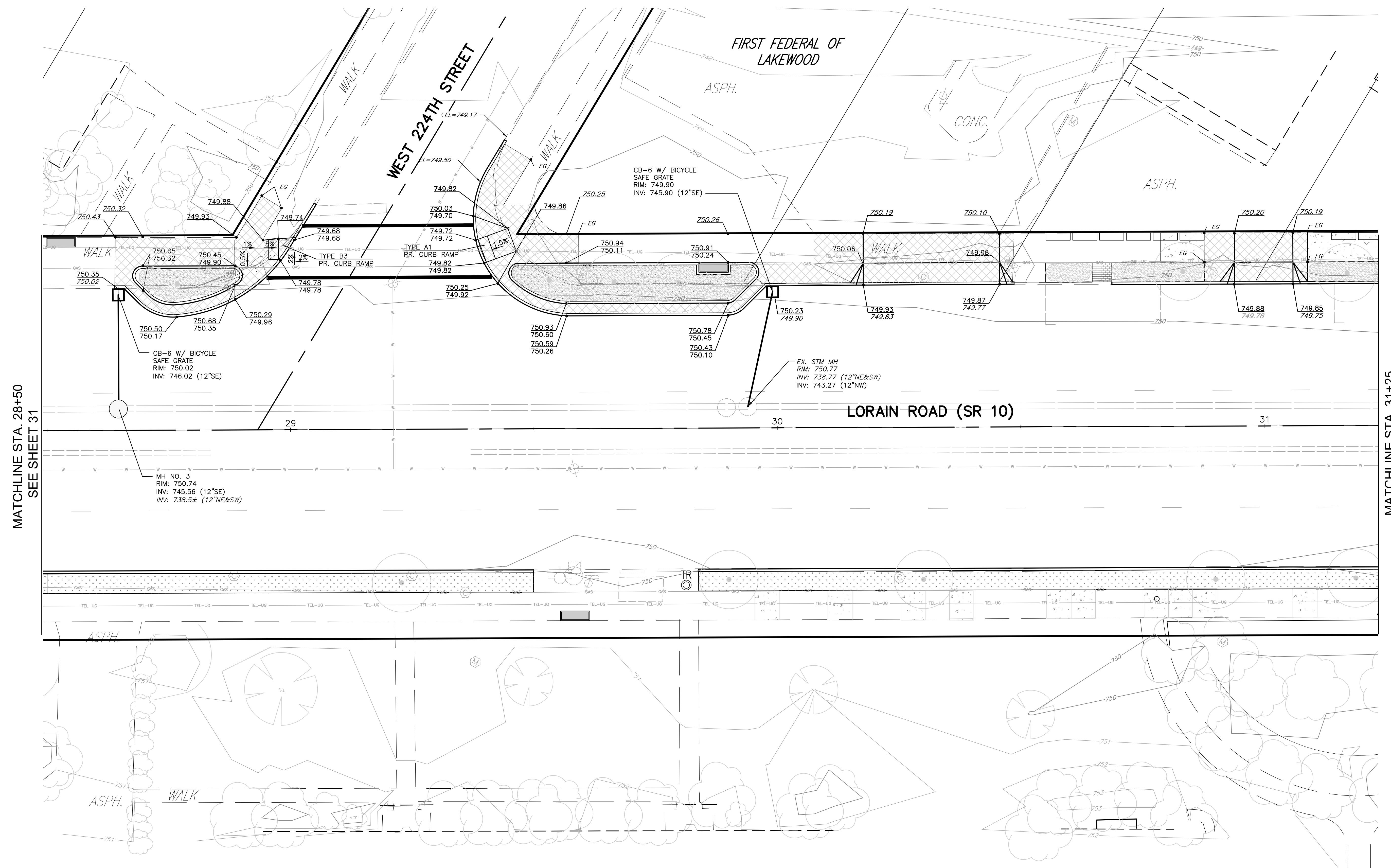


CALCULATED: BEK
CHECKED: SSA

GRADING PLAN

CUY - SR 010 - 6.00
STREETSCAPE

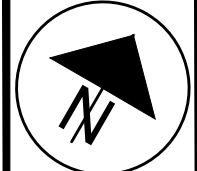
32
57



MATCHLINE STA. 28+50
SEE SHEET 31

MATCHLINE STA. 31+25
SEE SHEET 33

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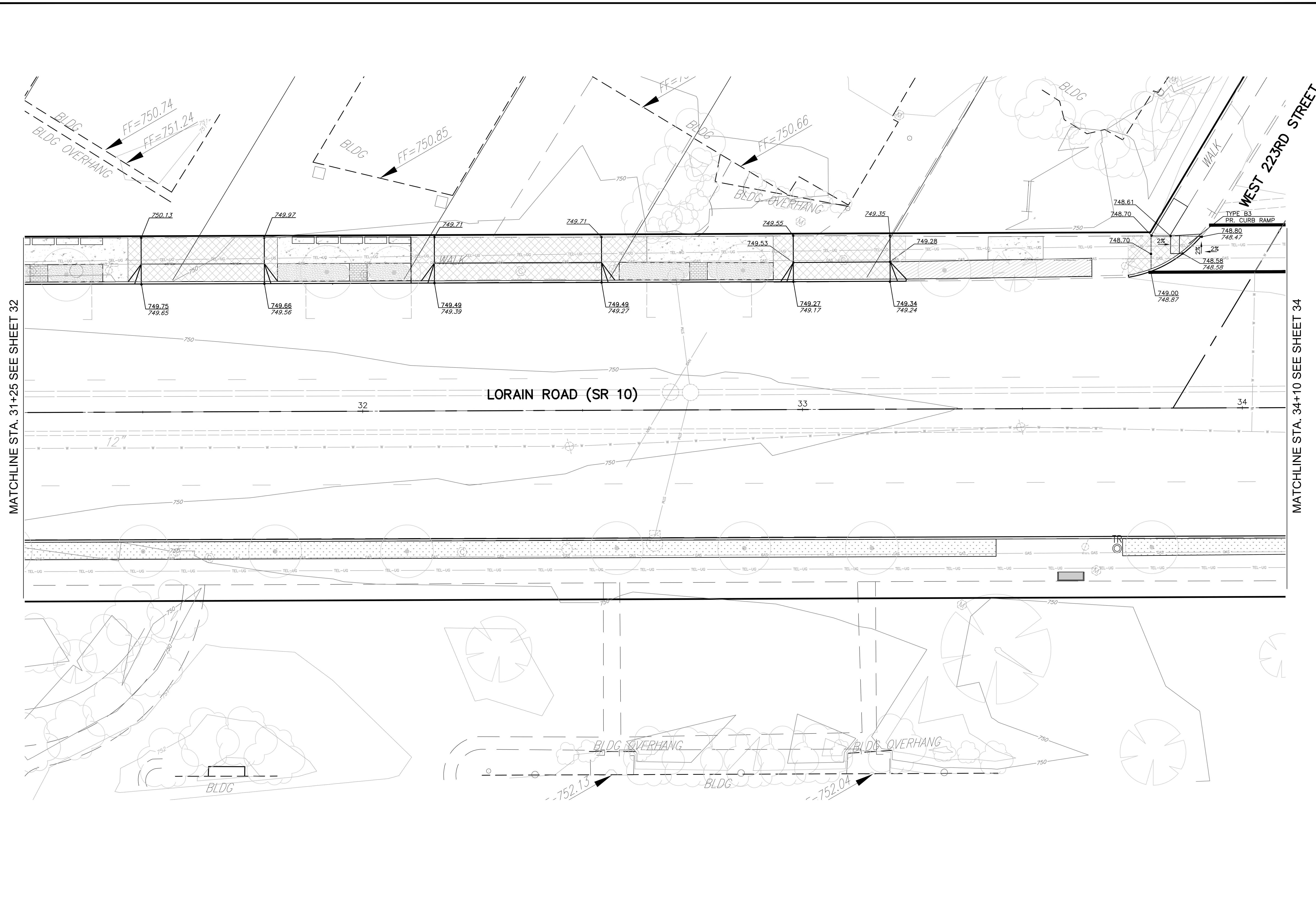


CALCULATED: BEK
CHECKED: SSA

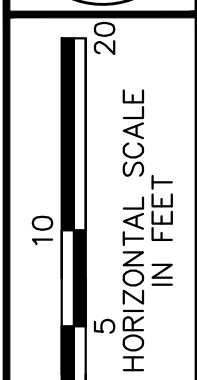
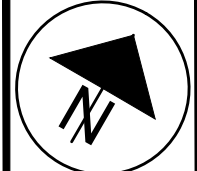
GRADING PLAN

CUY - SR 010 - 6.00
STREETSCAPE

33
57



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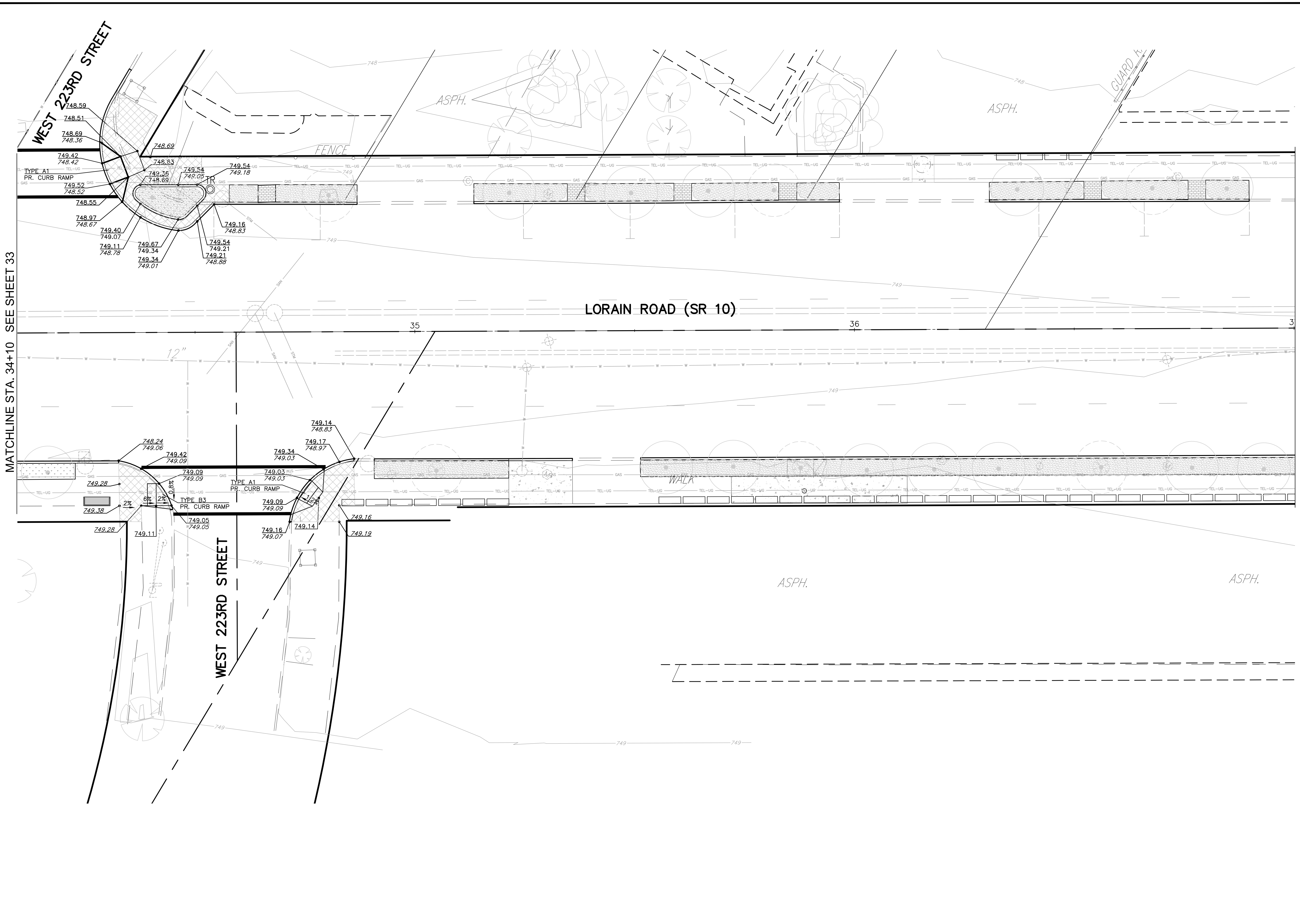


CALCULATED BY: BEK
CHECKED BY: SSA

MATCHLINE STA. 37+00
SEE SHEET 35

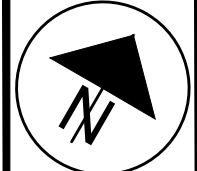
GRADING PLAN

CUY - SR 010 - 6.00
STREETSCAPE



MATCHLINE STA. 34+10 SEE SHEET 33

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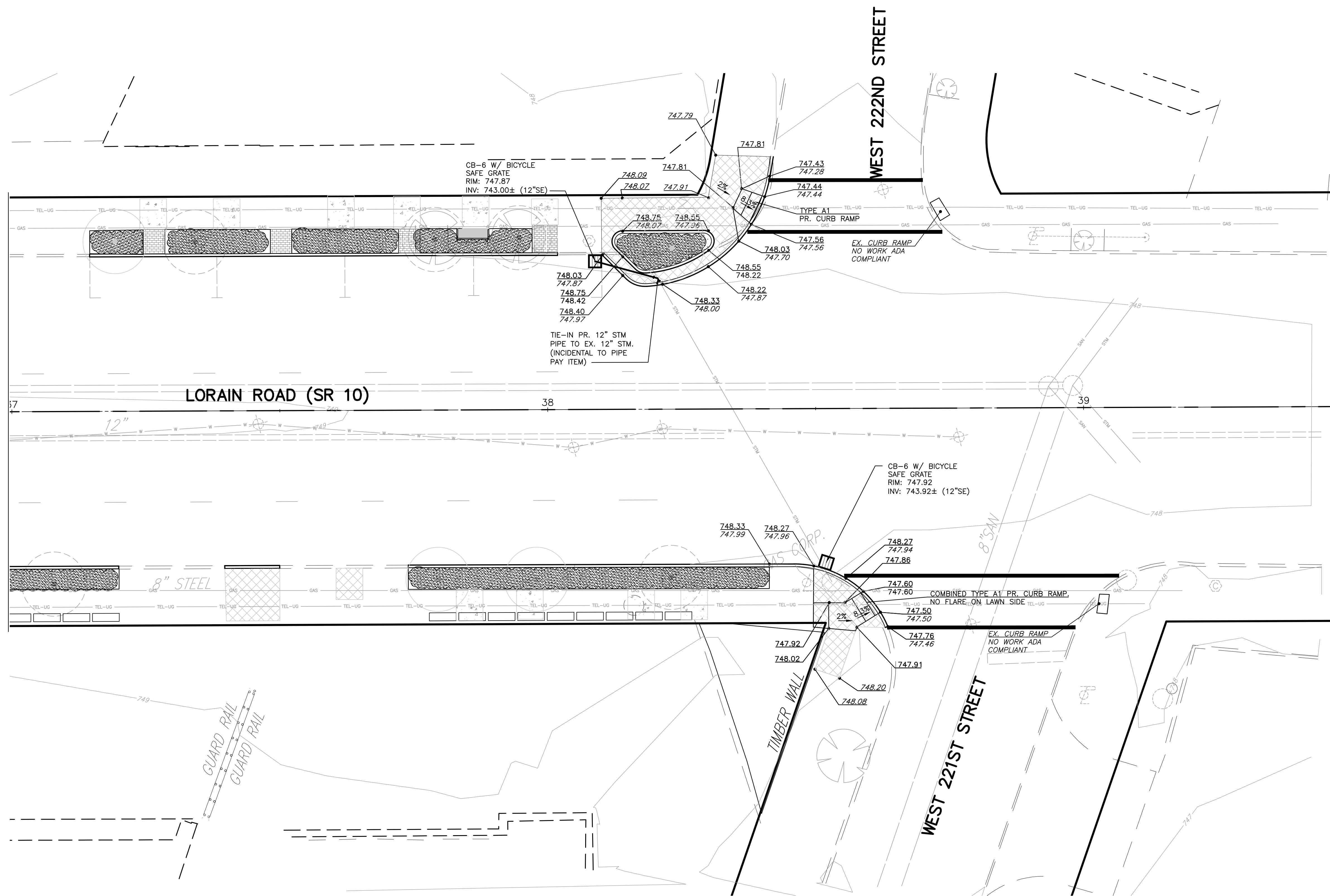
CALCULATED: BEK
CHECKED: SSA

GRADING PLAN

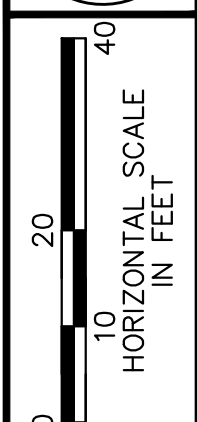
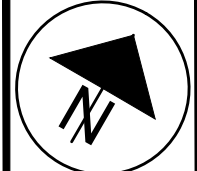
CUY- SR 010 - 6.00
STREETSCAPE

35
57

MATCHLINE STA. 37+00
SEE SHEET 34



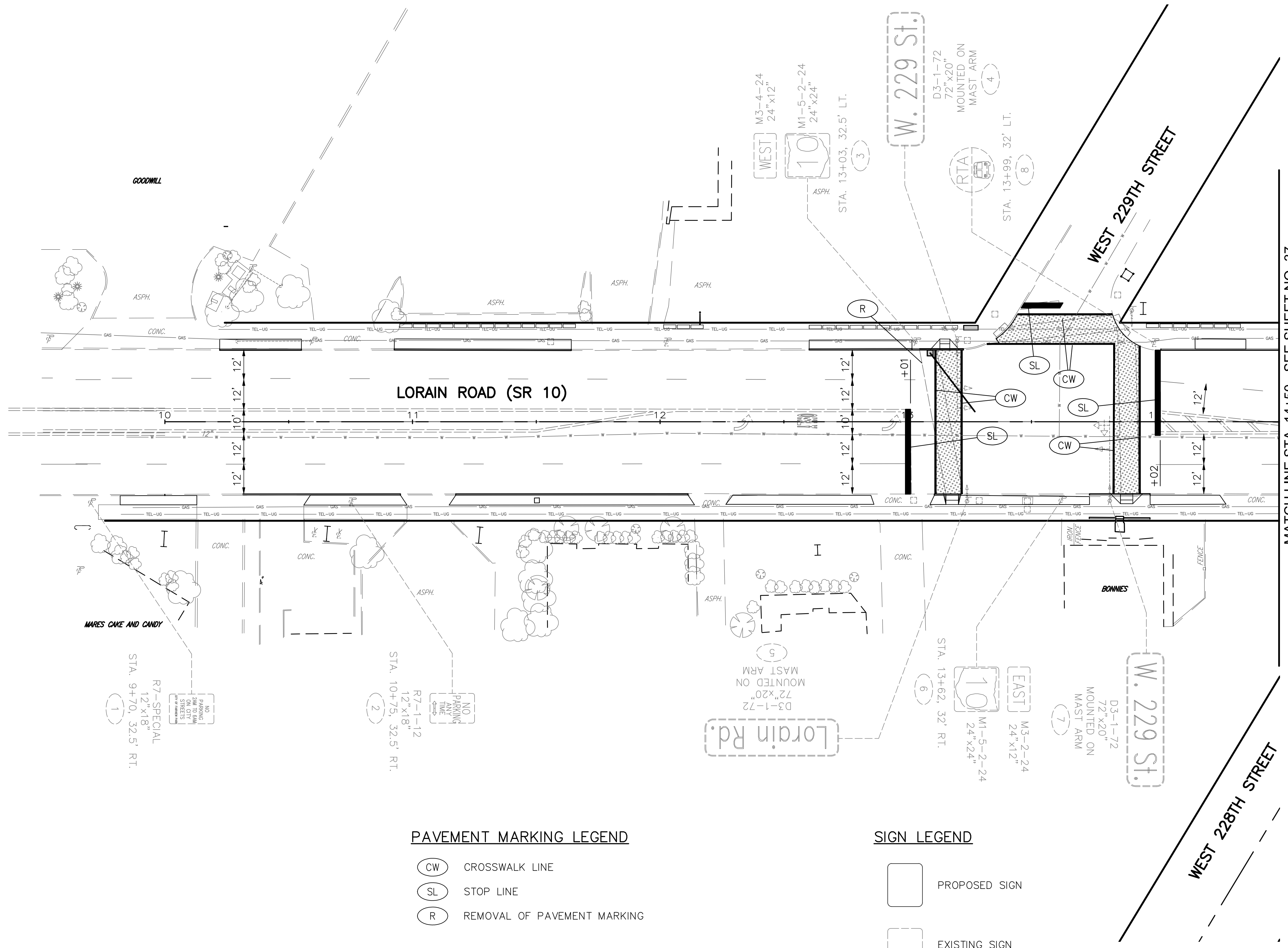
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CALCULATED: SSA
CHECKED: PJR

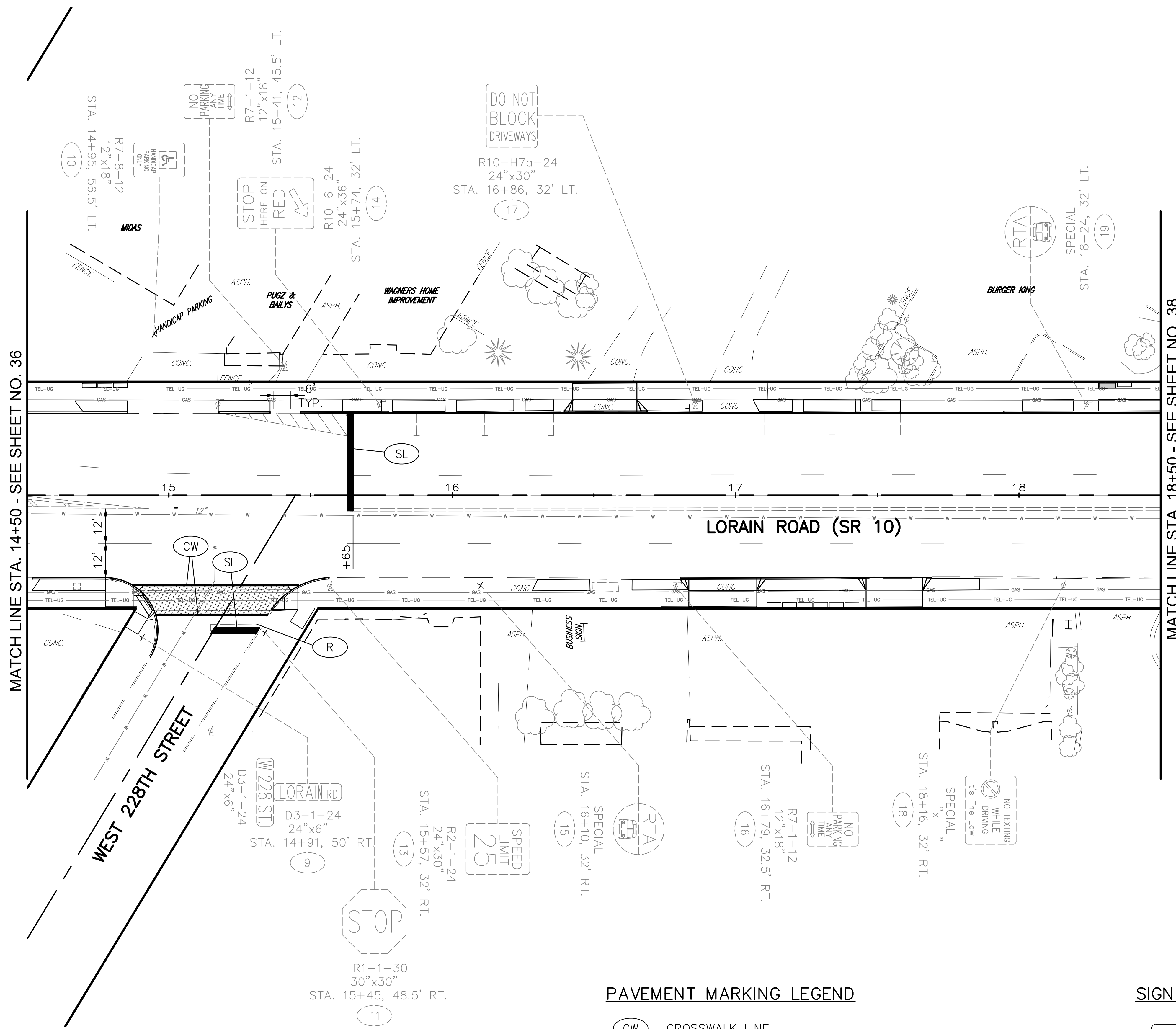
SIGNING AND PAVEMENT MARKING PLAN

CUY- SR 010 - 6.00
STREETSCAPE



MATCH LINE STA. 14+50 - SEE SHEET NO. 37




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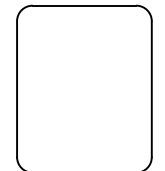
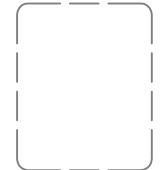
MATCH LINE STA. 14+50 - SEE SHEET NO. 36

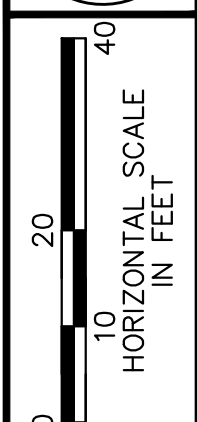
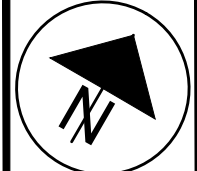
MATCH LINE STA. 18+50 - SEE SHEET NO. 38

PAVEMENT MARKING LEGEND

-  CROSSWALK LINE
-  STOP LINE
-  REMOVAL OF PAVEMENT MARKING

SIGN LEGEND

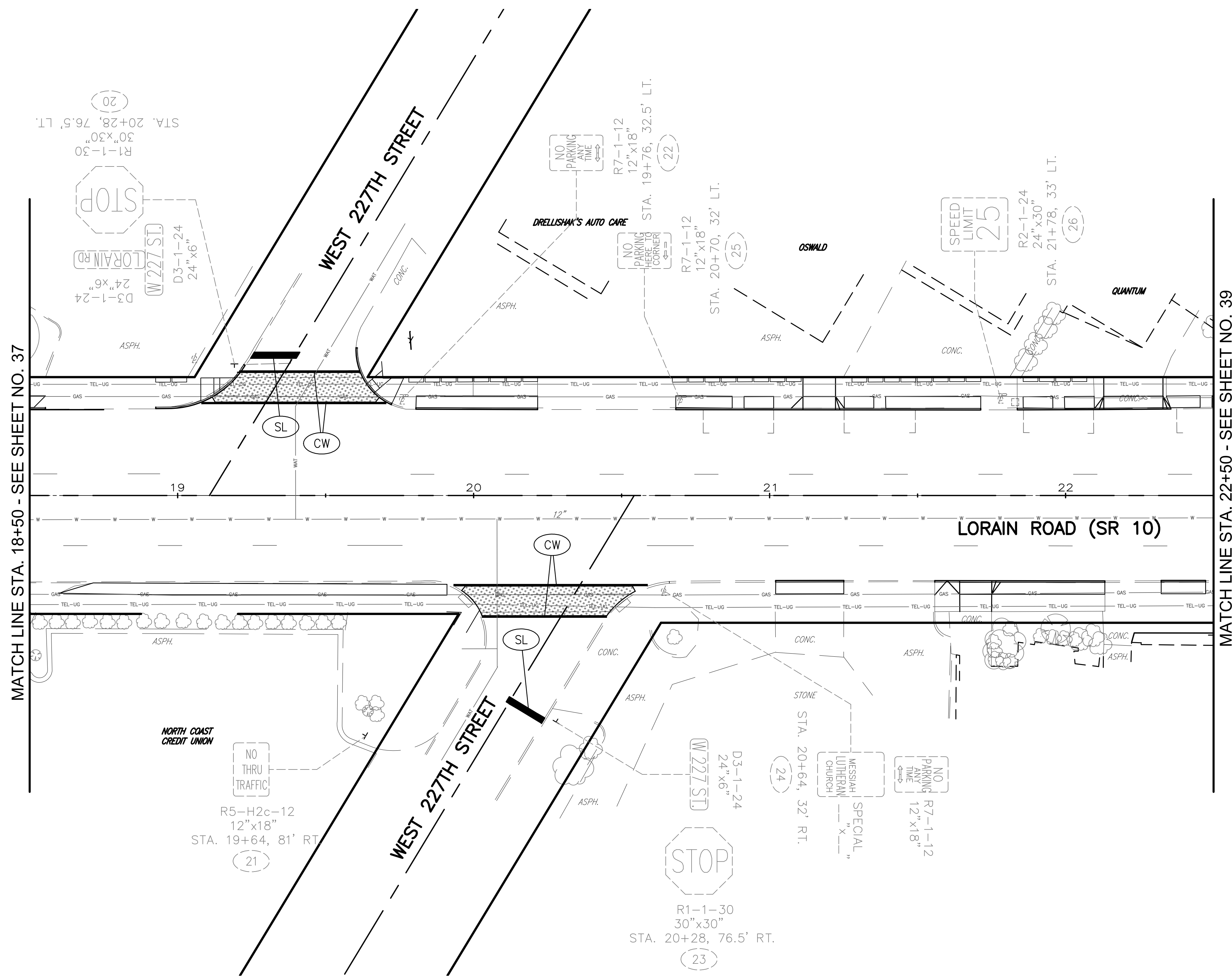
-  PROPOSED SIGN
-  EXISTING SIGN TO REMAIN



CALCULATED: SSA
CHECKED: PJR

SIGNING AND PAVEMENT MARKING PLAN




CUY- SR 010 - 6.00
STREETSCAPE



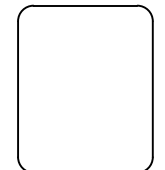
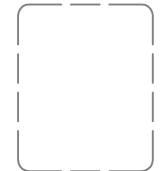
MATCH LINE STA. 18+50 - SEE SHEET NO. 37

MATCH LINE STA. 22+50 - SEE SHEET NO. 39

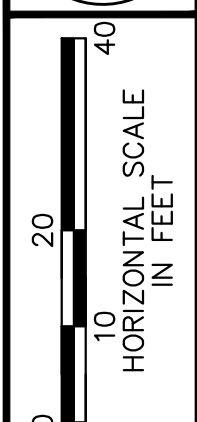
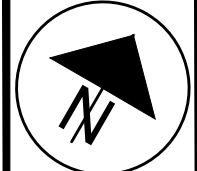
PAVEMENT MARKING LEGEND

-  CROSSWALK LINE
-  STOP LINE
-  REMOVAL OF PAVEMENT MARKING

SIGN LEGEND

-  PROPOSED SIGN
-  EXISTING SIGN TO REMAIN

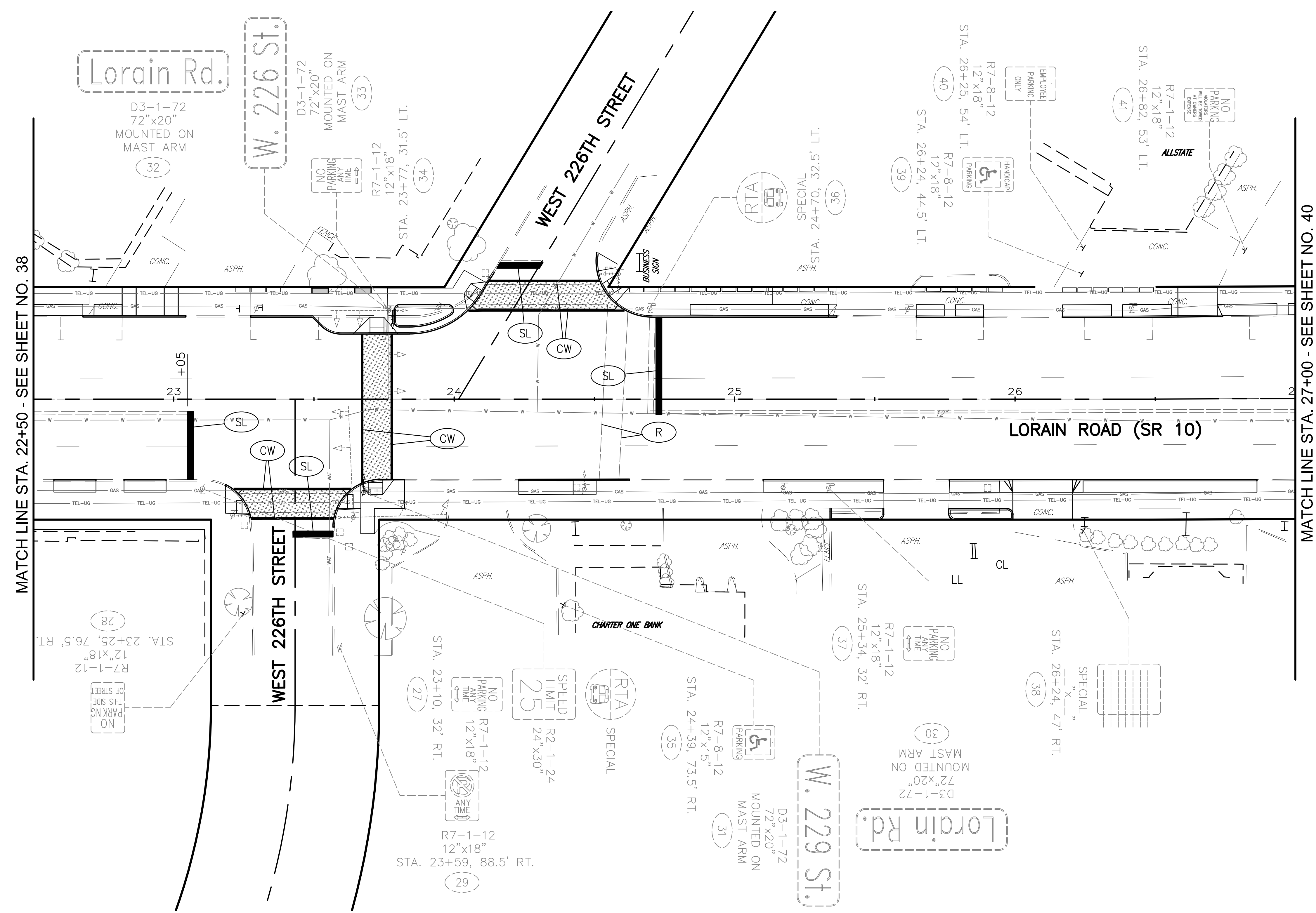
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CALCULATED: SSA
CHECKED: PJR

SIGNING AND PAVEMENT MARKING PLAN

CUY - SR 010 - 6.00
STREETSCAPE



PAVEMENT MARKING LEGEND

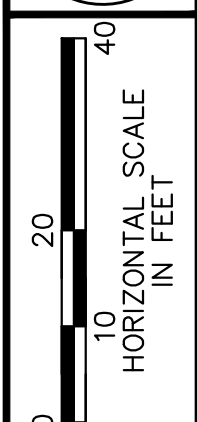
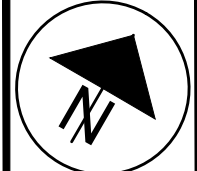
- (CW) CROSSWALK LINE
- (SL) STOP LINE
- (R) REMOVAL OF PAVEMENT MARKING

SIGN LEGEND

- PROPOSED SIGN
- EXISTING SIGN TO REMAIN

MATCH LINE STA. 22+50 - SEE SHEET NO. 38

MATCH LINE STA. 27+00 - SEE SHEET NO. 40

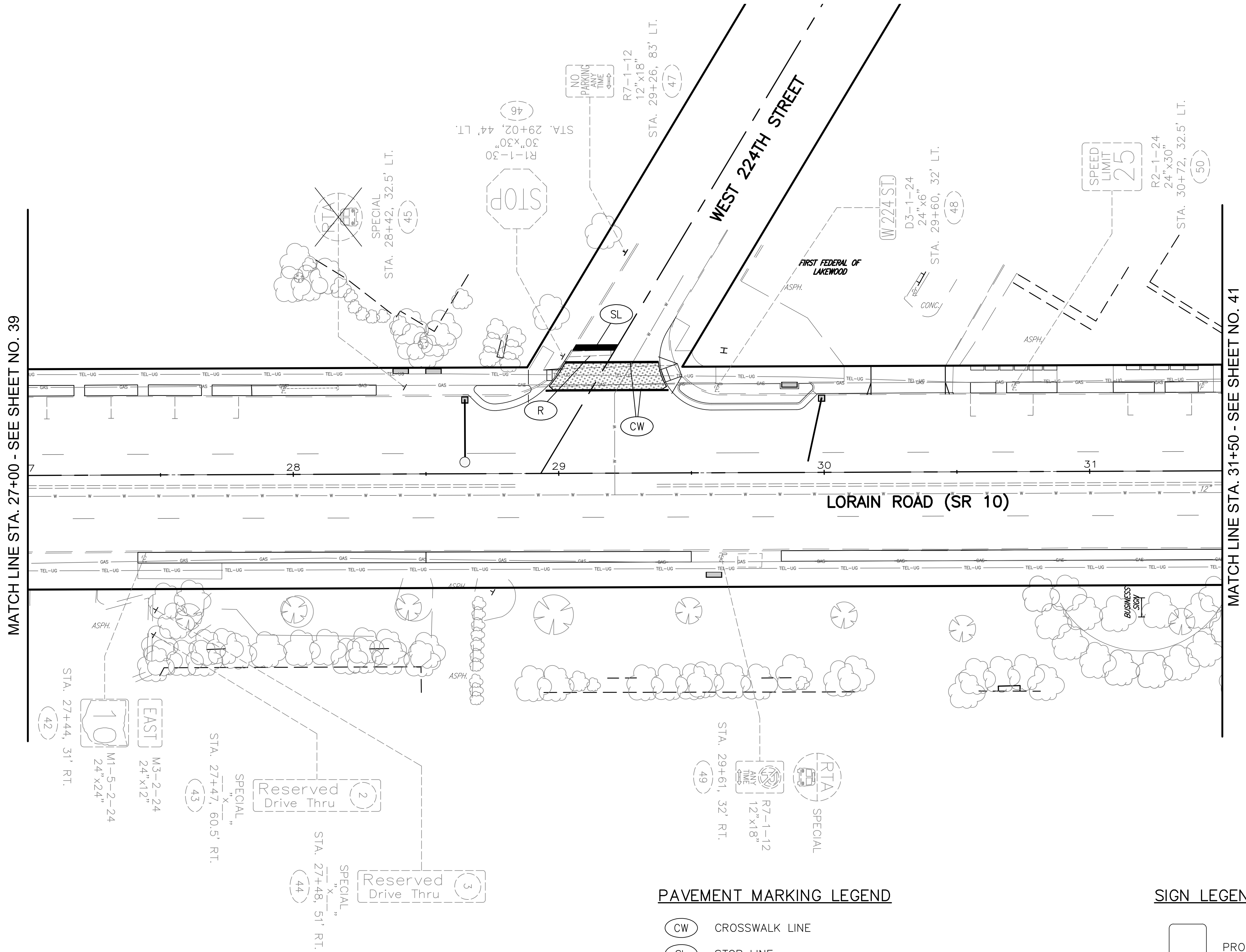


CALCULATED: SSA
CHECKED: PJR

SIGNING AND PAVEMENT MARKING PLAN

CUY- SR 010 - 6.00
STREETSCAPE

40
57



MATCH LINE STA. 27+00 - SEE SHEET NO. 39

MATCH LINE STA. 31+50 - SEE SHEET NO. 41

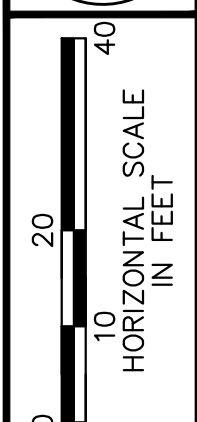
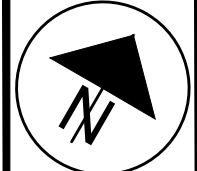
PAVEMENT MARKING LEGEND

- (CW) CROSSWALK LINE
- (SL) STOP LINE
- (R) REMOVAL OF PAVEMENT MARKING

SIGN LEGEND

- PROPOSED SIGN
- EXISTING SIGN TO REMAIN

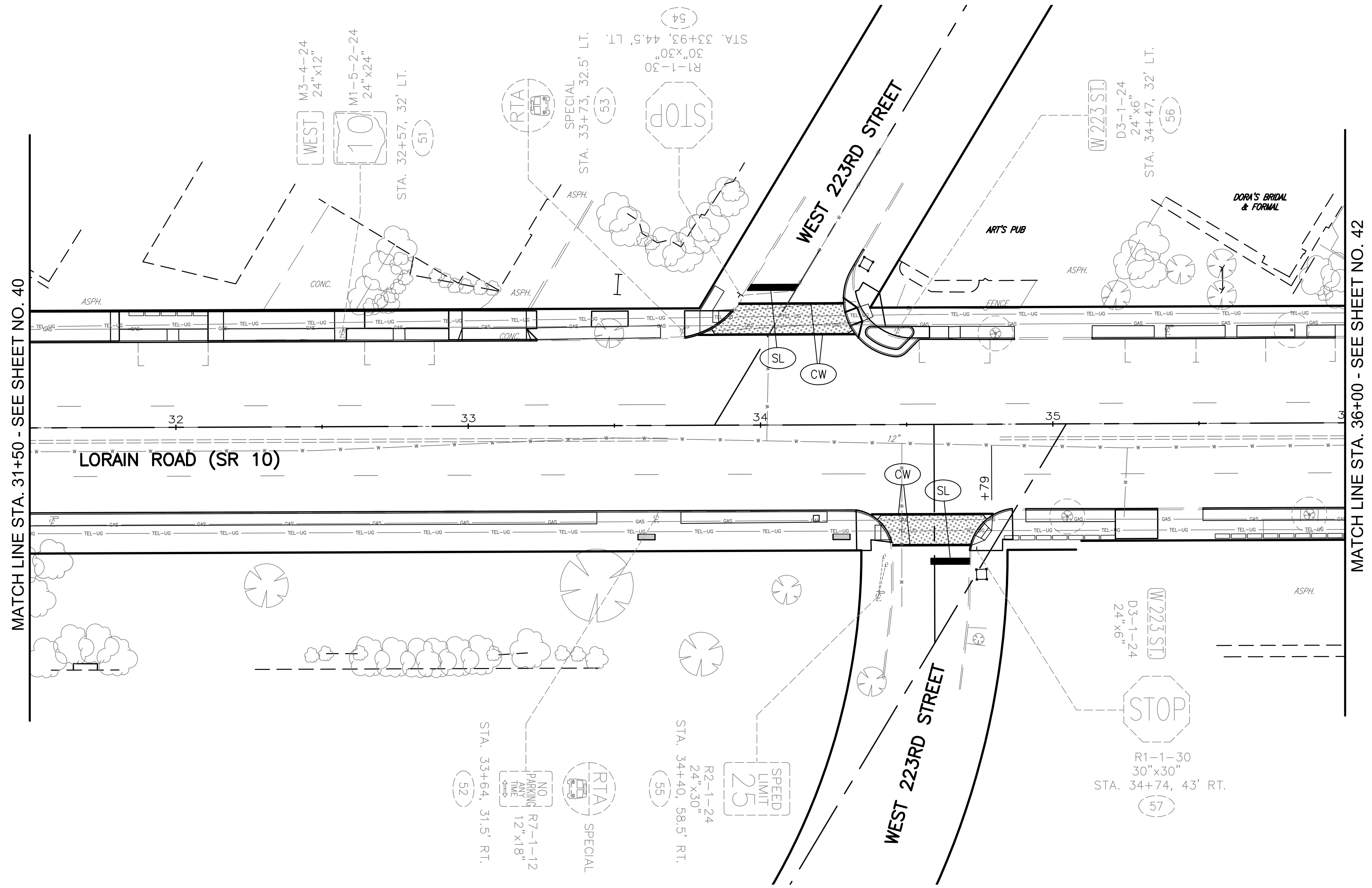
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CALCULATED: SSA
CHECKED: PJR

SIGNING AND PAVEMENT MARKING PLAN

CUY- SR 010 - 6.00
STREETSCAPE



PAVEMENT MARKING LEGEND

- CROSSWALK LINE
- STOP LINE
- REMOVAL OF PAVEMENT MARKING

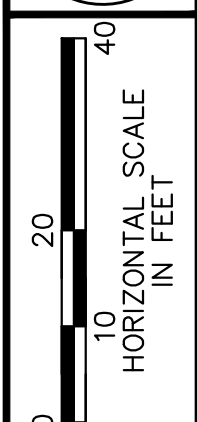
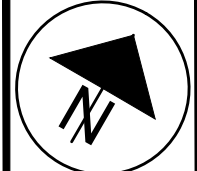
SIGN LEGEND

- PROPOSED SIGN
- EXISTING SIGN TO REMAIN

MATCH LINE STA. 31+50 - SEE SHEET NO. 40

MATCH LINE STA. 36+00 - SEE SHEET NO. 42

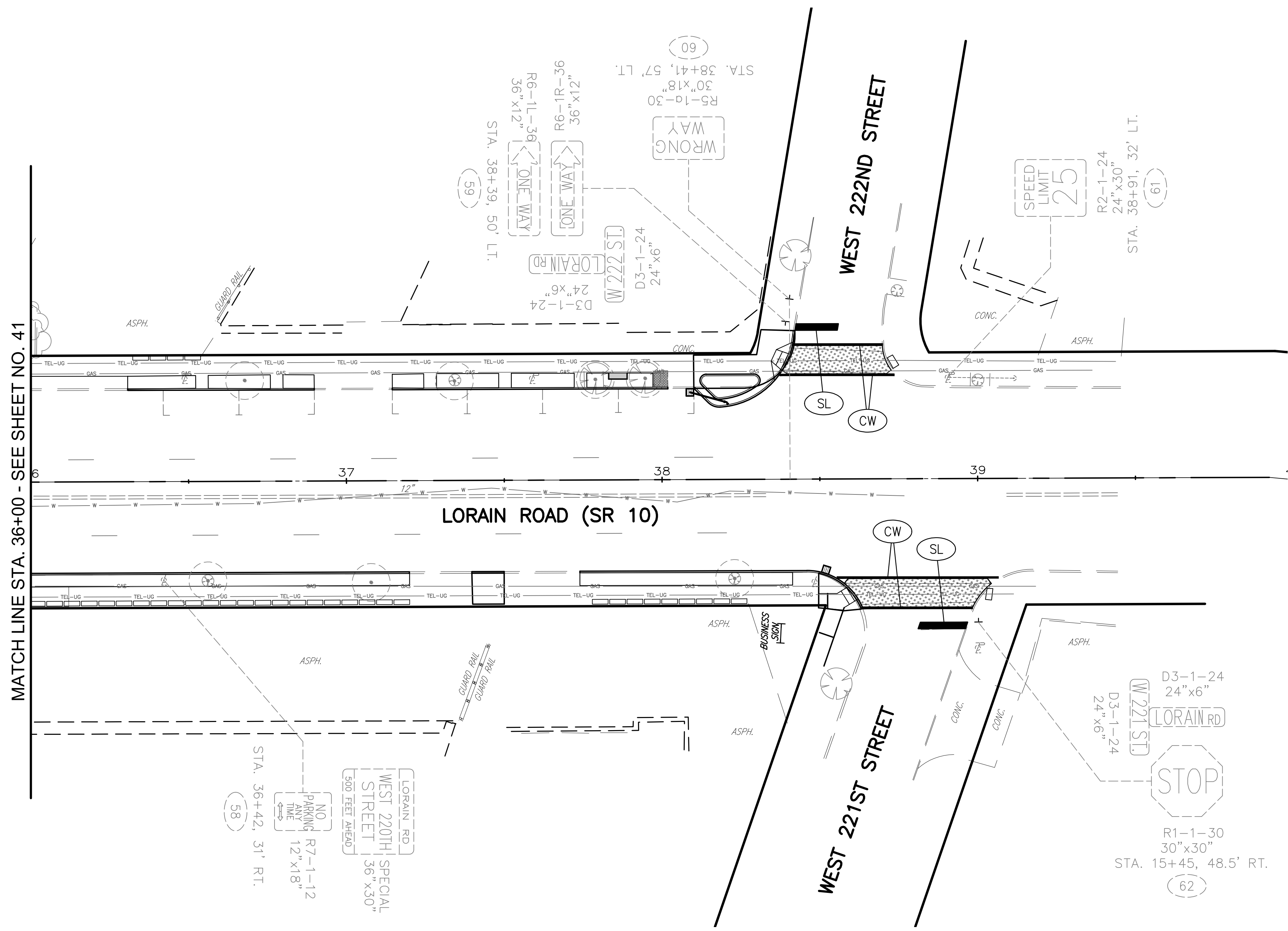
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SIGNING AND PAVEMENT MARKING PLAN

CUY- SR 010 - 6.00
STREETSCAPE

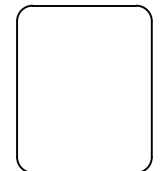
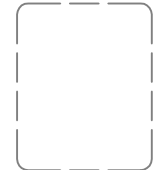


MATCH LINE STA. 36+00 - SEE SHEET NO. 41

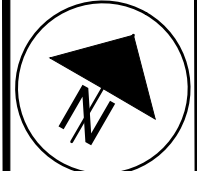
PAVEMENT MARKING LEGEND

-  CROSSWALK LINE
-  STOP LINE
-  REMOVAL OF PAVEMENT MARKING

SIGN LEGEND

-  PROPOSED SIGN
-  EXISTING SIGN TO REMAIN

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LANDSCAPE PLAN

CUY - SR 010 - 6.00
STREETSCAPE

44
57

TK BRICK COLUMN

SPH.

W. 229TH ST.

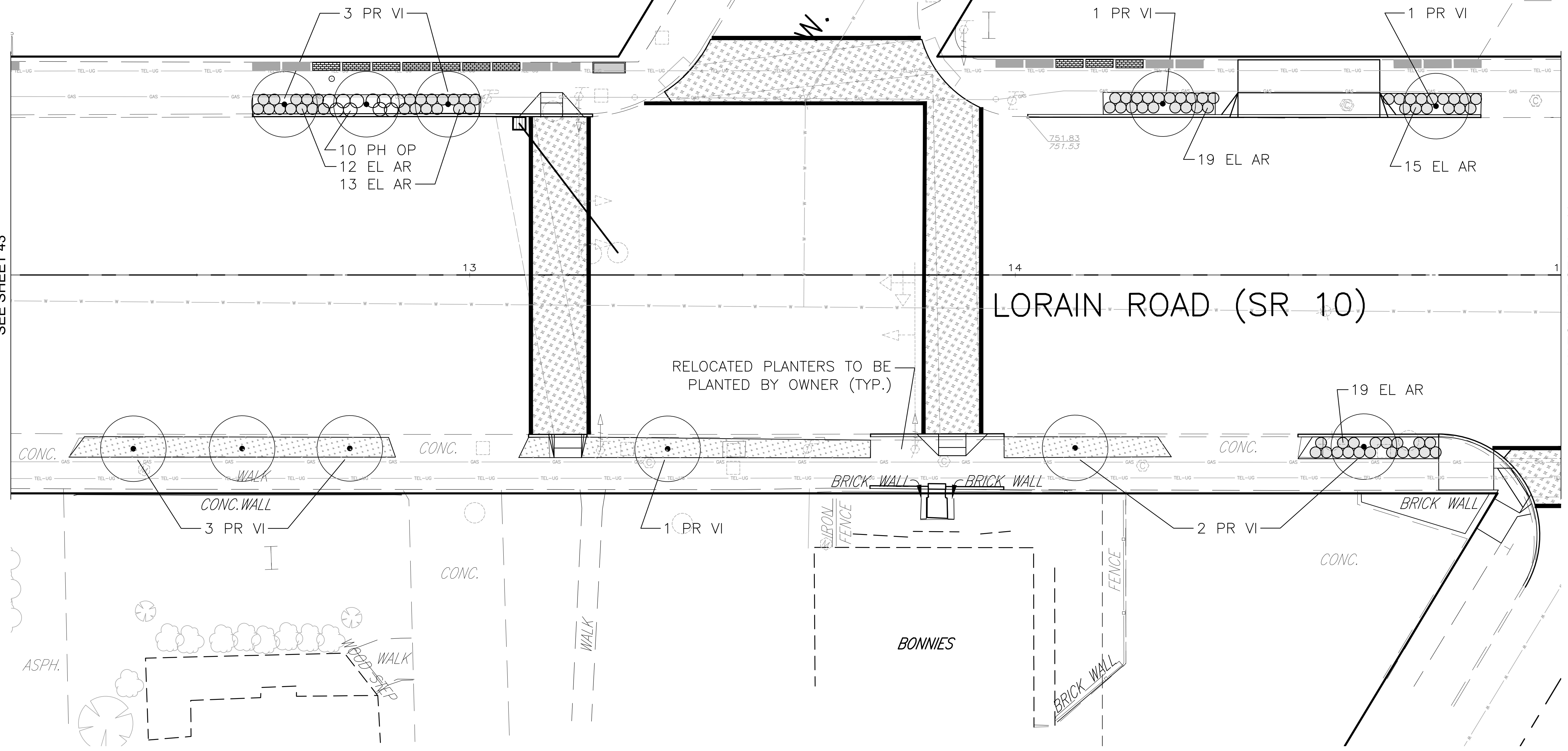
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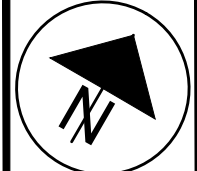
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SEE SHEET 45

LORAIN ROAD (SR 10)

RELOCATED PLANTERS TO BE
PLANTED BY OWNER (TYP.)



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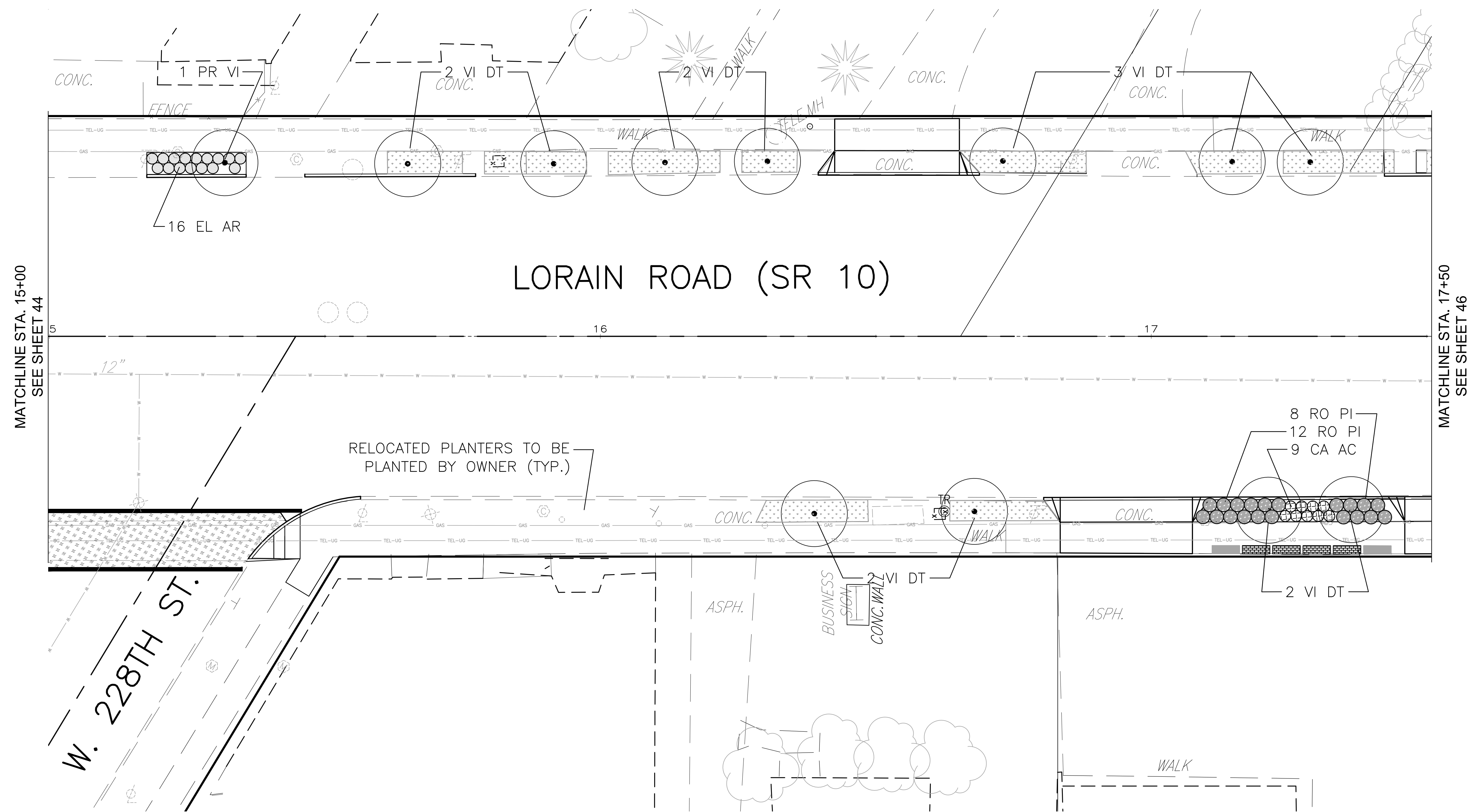


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LANDSCAPE PLAN

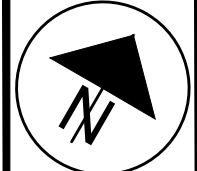
CUY- SR 010 - 6.00
STREETSCAPE

45
57



LORAIN ROAD (SR 10)

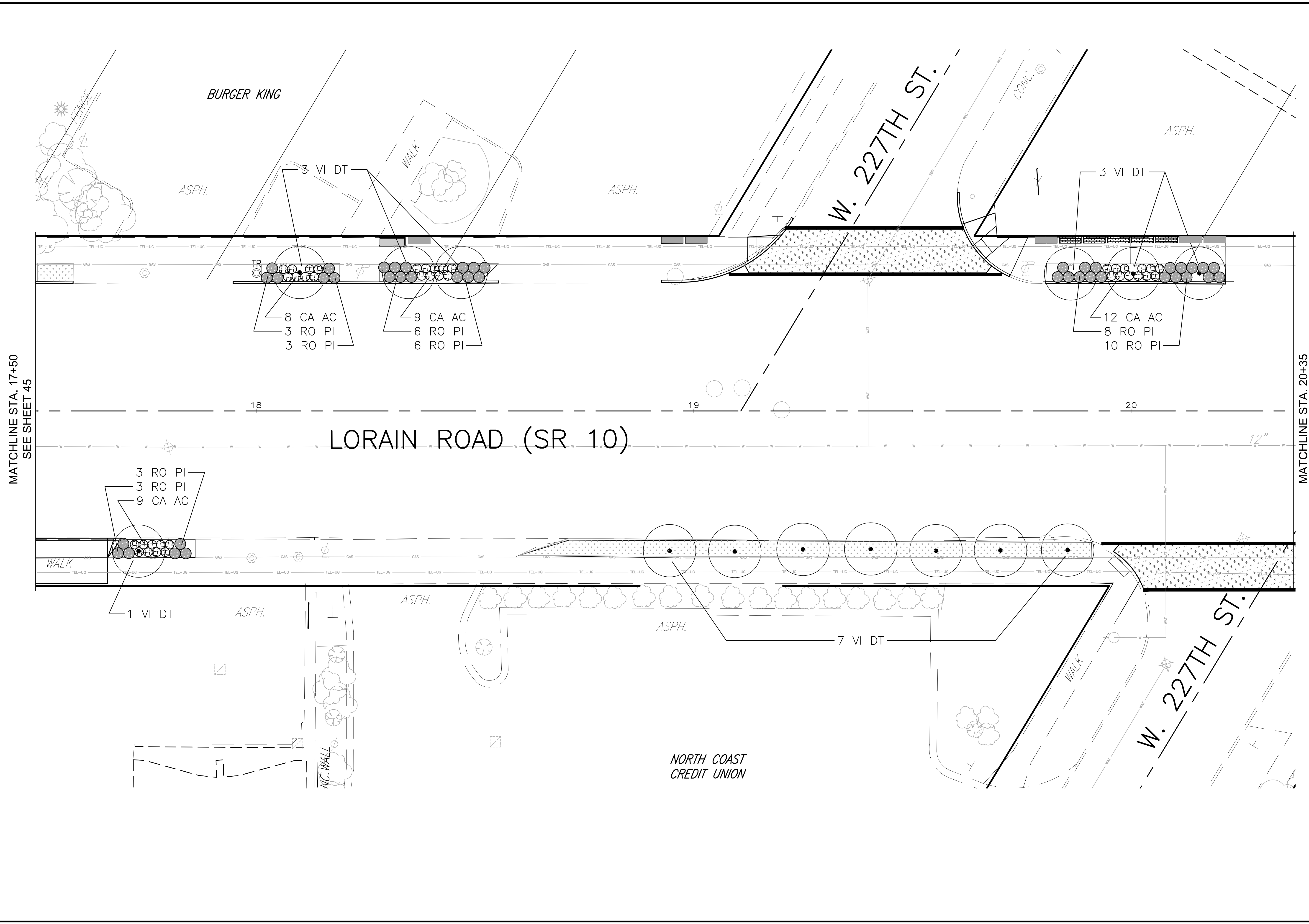
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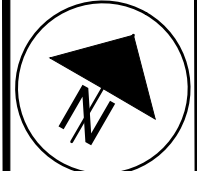
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LANDSCAPE PLAN

CUY- SR 010 - 6.00
STREETSCAPE



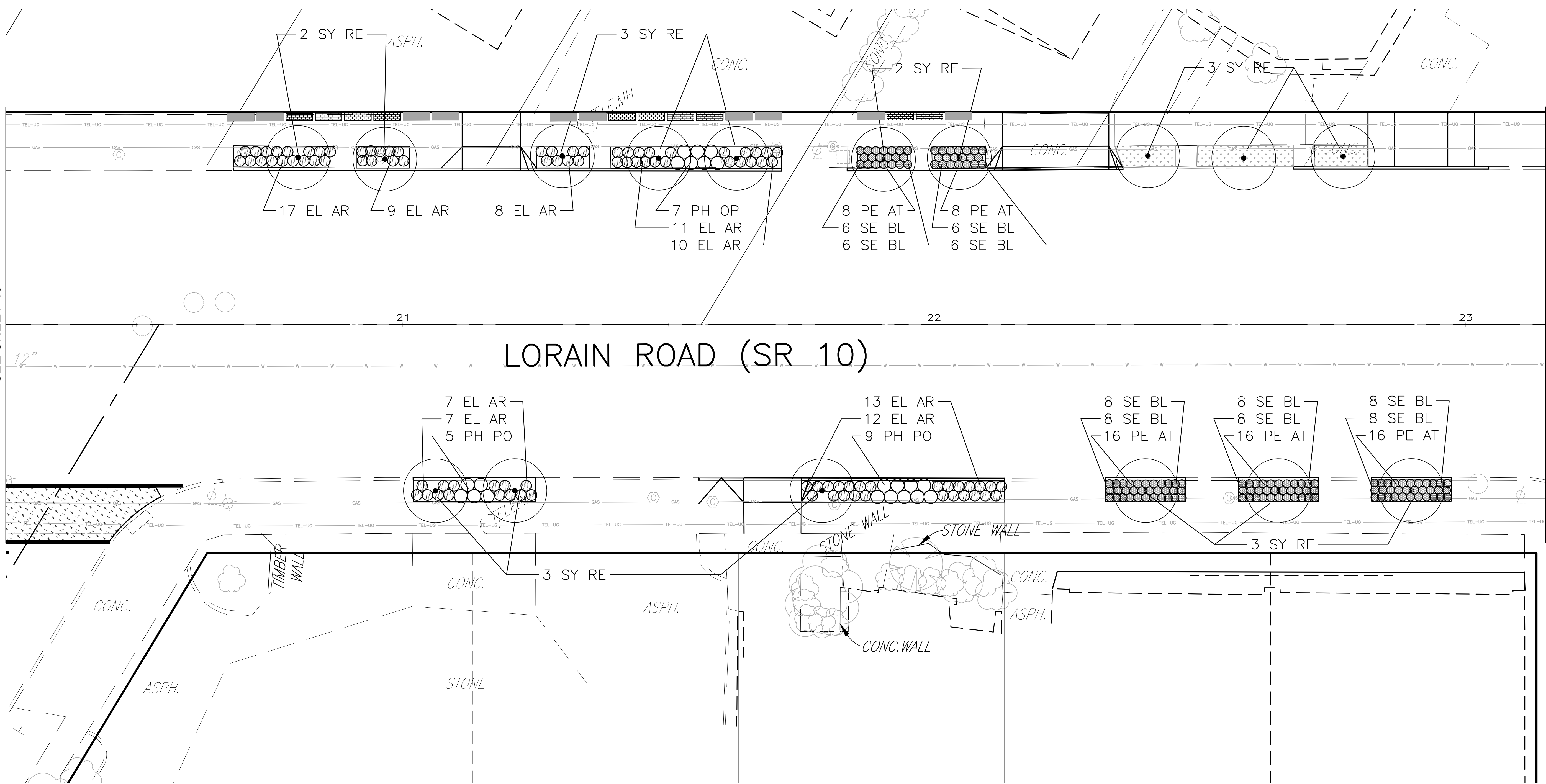
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MATCHLINE STA. 20+35
SEE SHEET 46

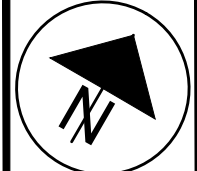
MATCHLINE STA. 23+15
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LORAIN ROAD (SR 10)

LANDSCAPE PLAN

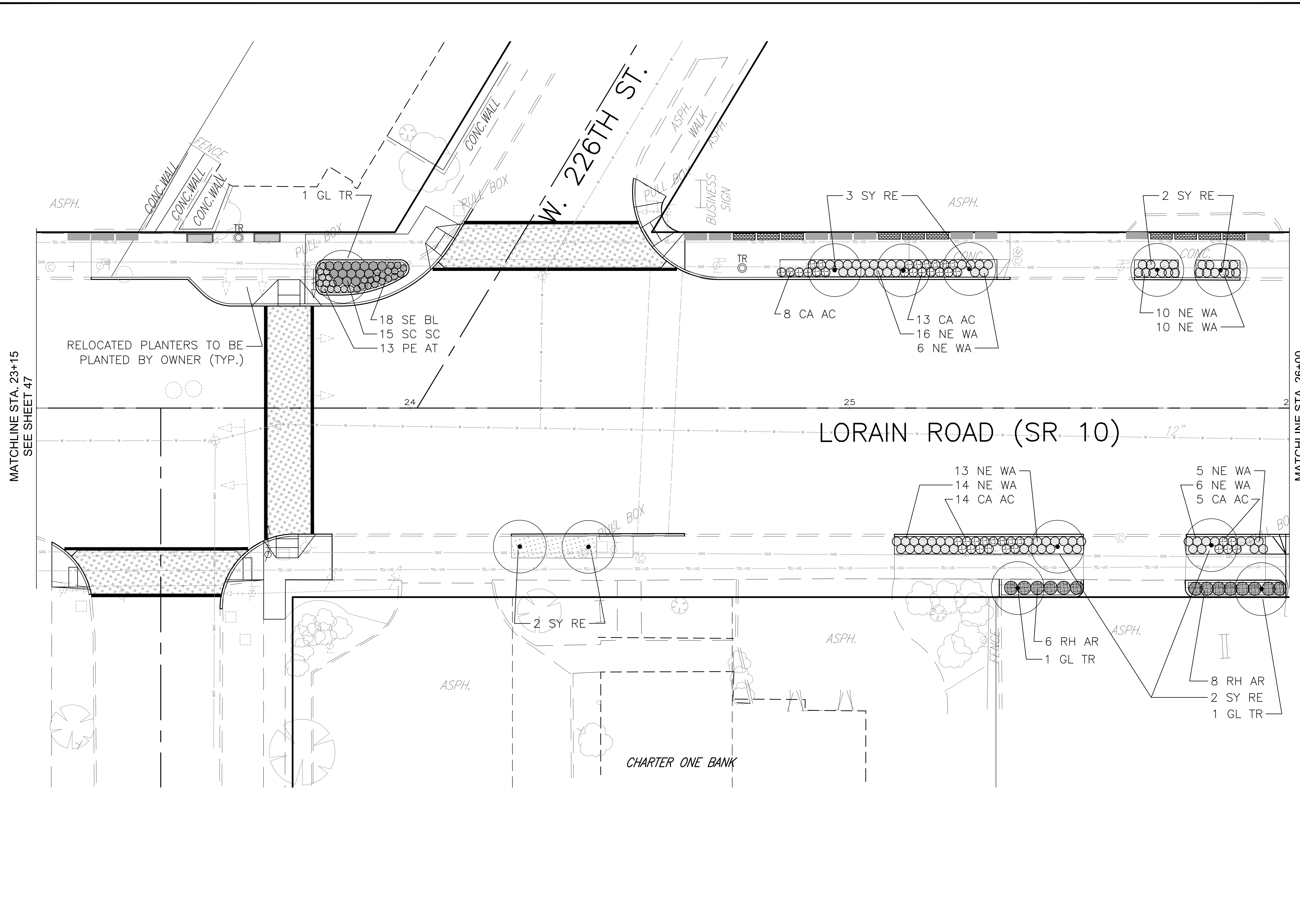
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STREETSCAPE



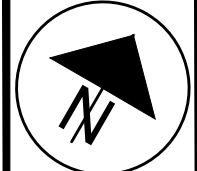
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LANDSCAPE PLAN

CUY- SR 010 - 6.00
STREETSCAPE



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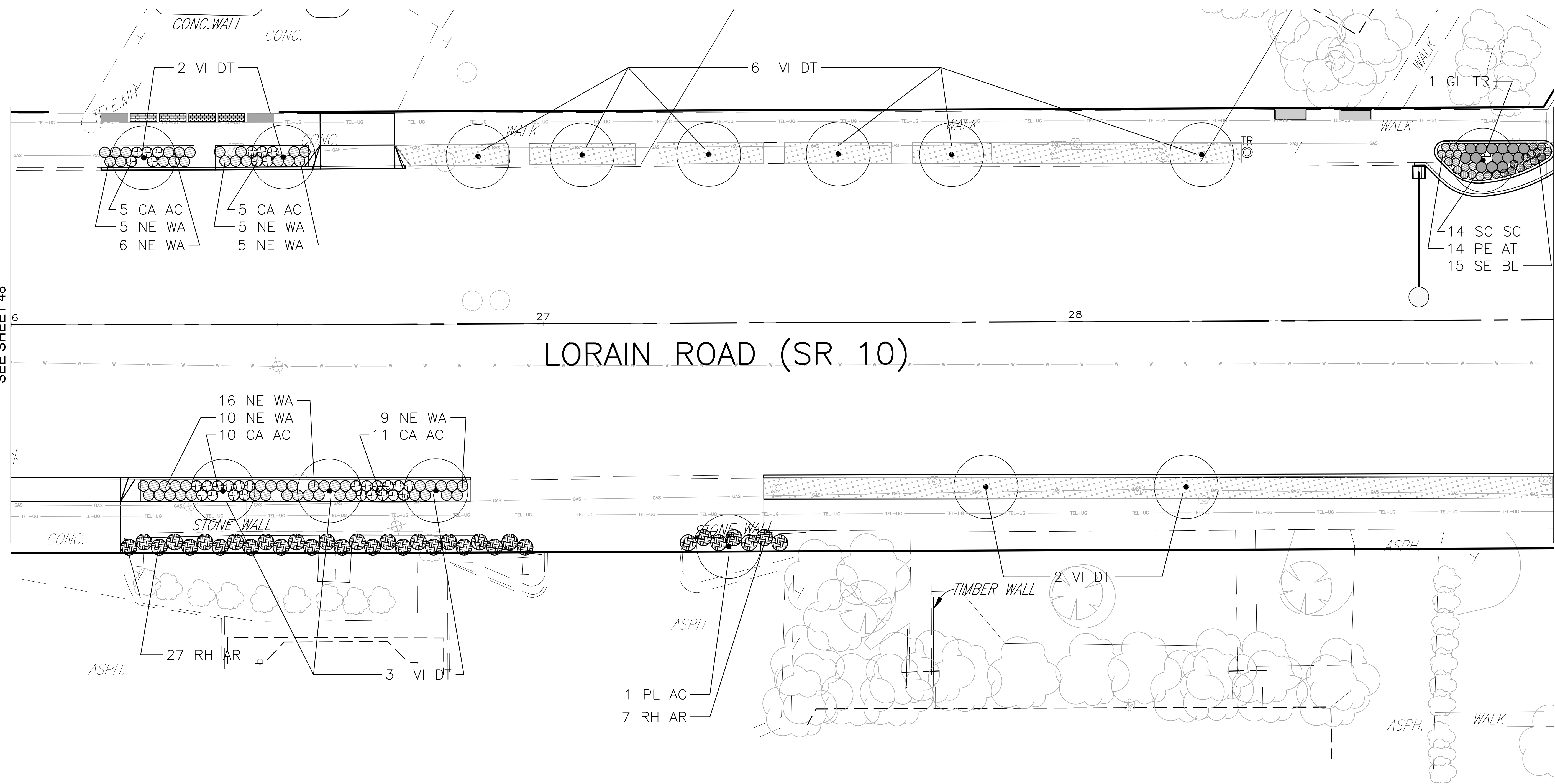
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SEE SHEET 48

MATCHLINE STA. 28+90
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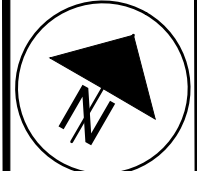
LANDSCAPE PLAN

CUY - SR 010 - 6.00
STREETSCAPE

49
57



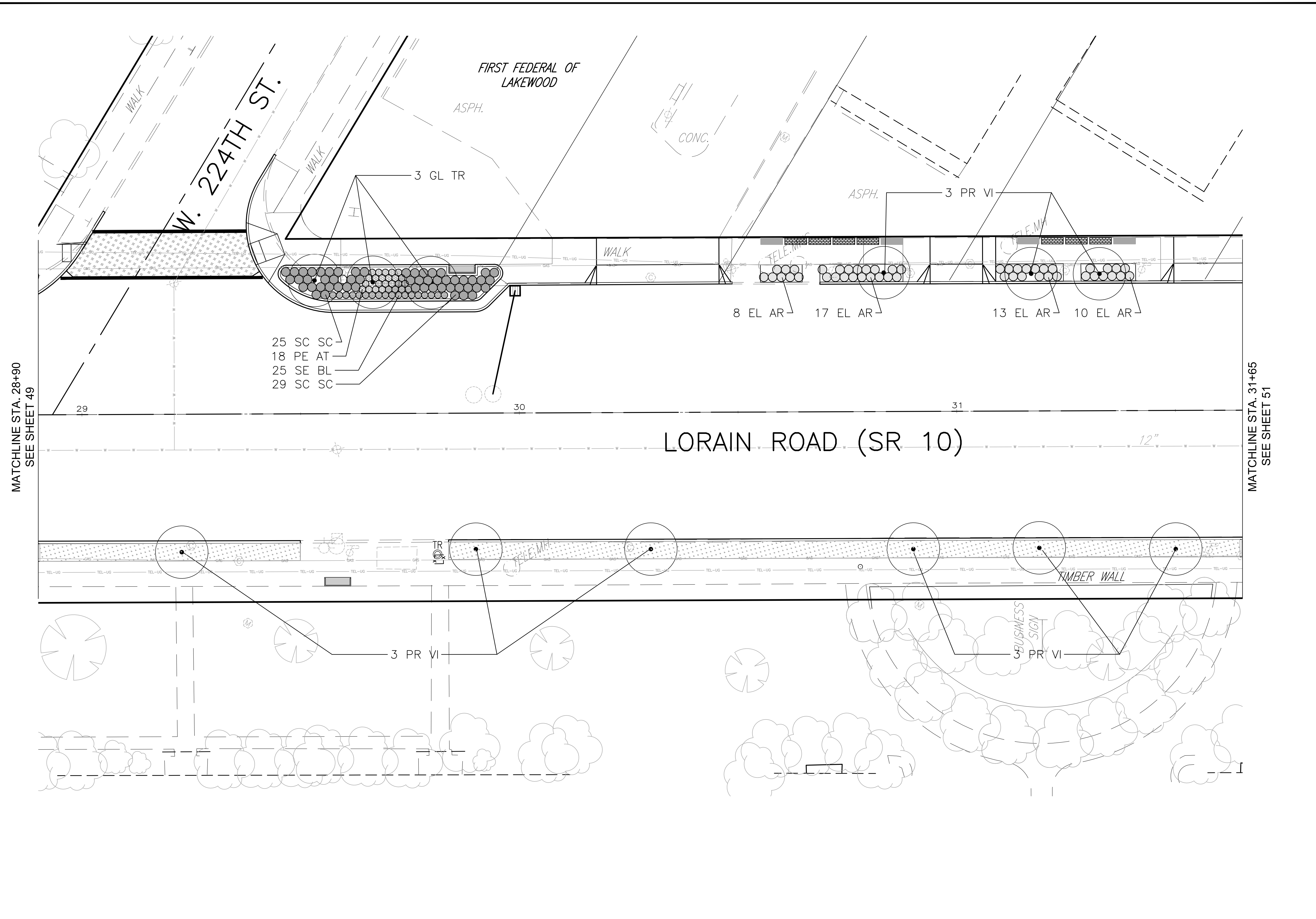
LORAIN ROAD (SR 10)



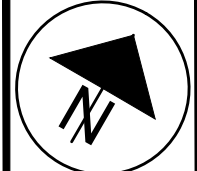
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LANDSCAPE PLAN

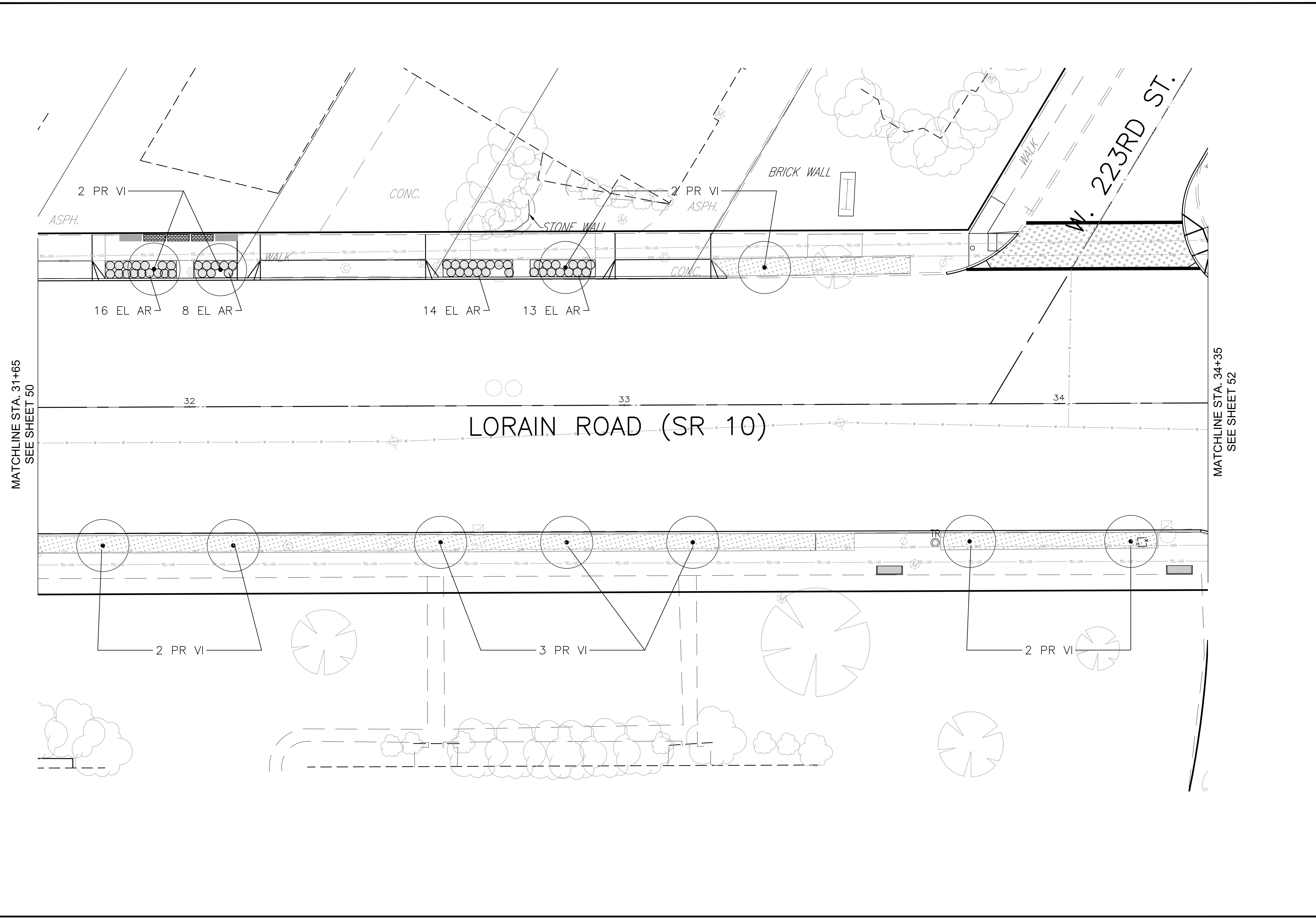
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STREETSCAPE



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MATCHLINE STA. 31+65
SEE SHEET 50

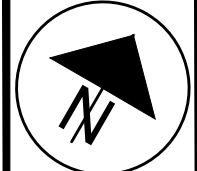
MATCHLINE STA. 34+35
SEE SHEET 52

LANDSCAPE PLAN

CUY- SR 010 - 6.00
STREETSCAPE

51
57

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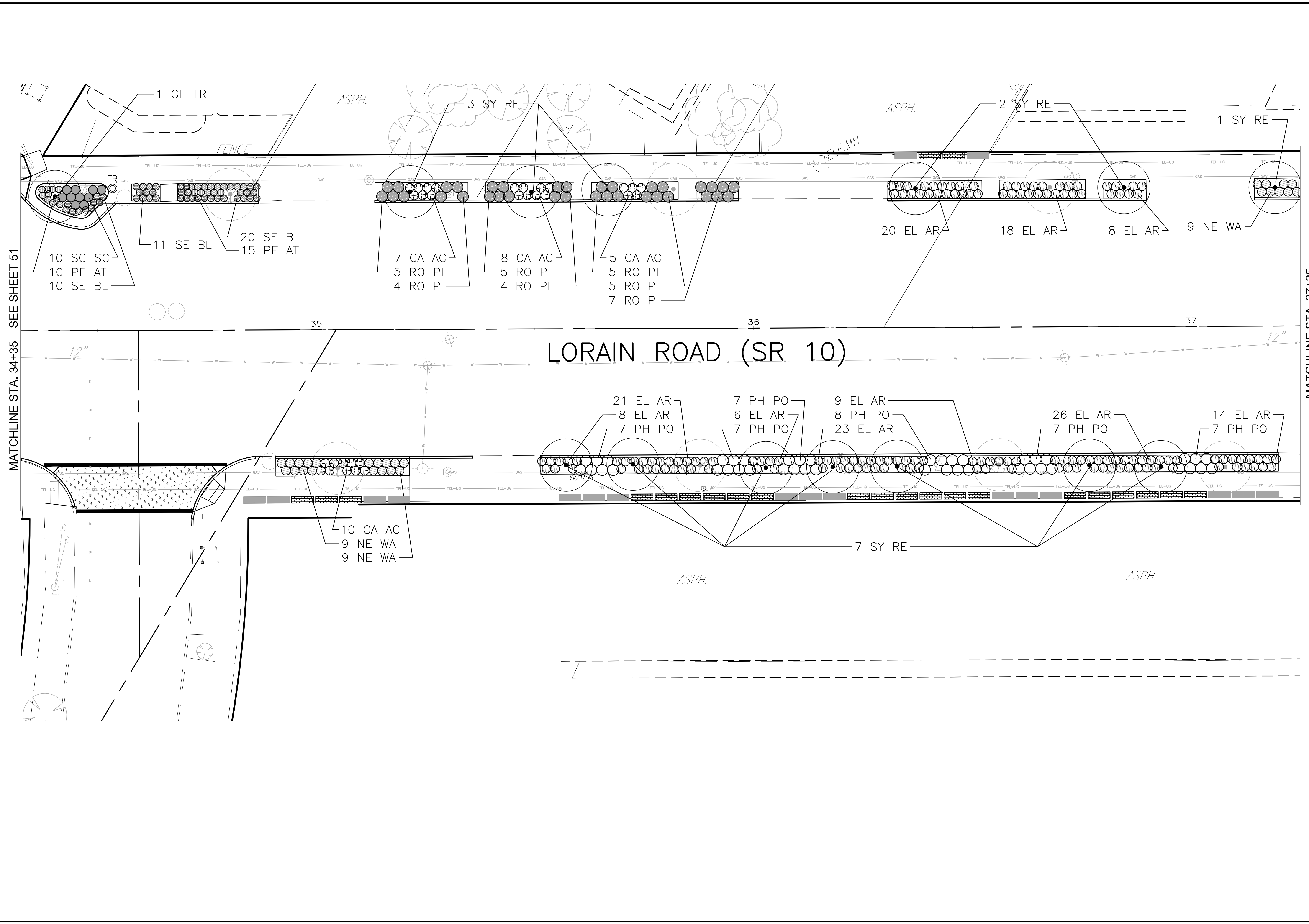


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MATCHLINE STA. 37+25
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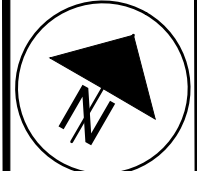
LANDSCAPE PLAN

CUY - SR 010 - 6.00
STREETSCAPE



MATCHLINE STA. 34+35
SEE SHEET 51

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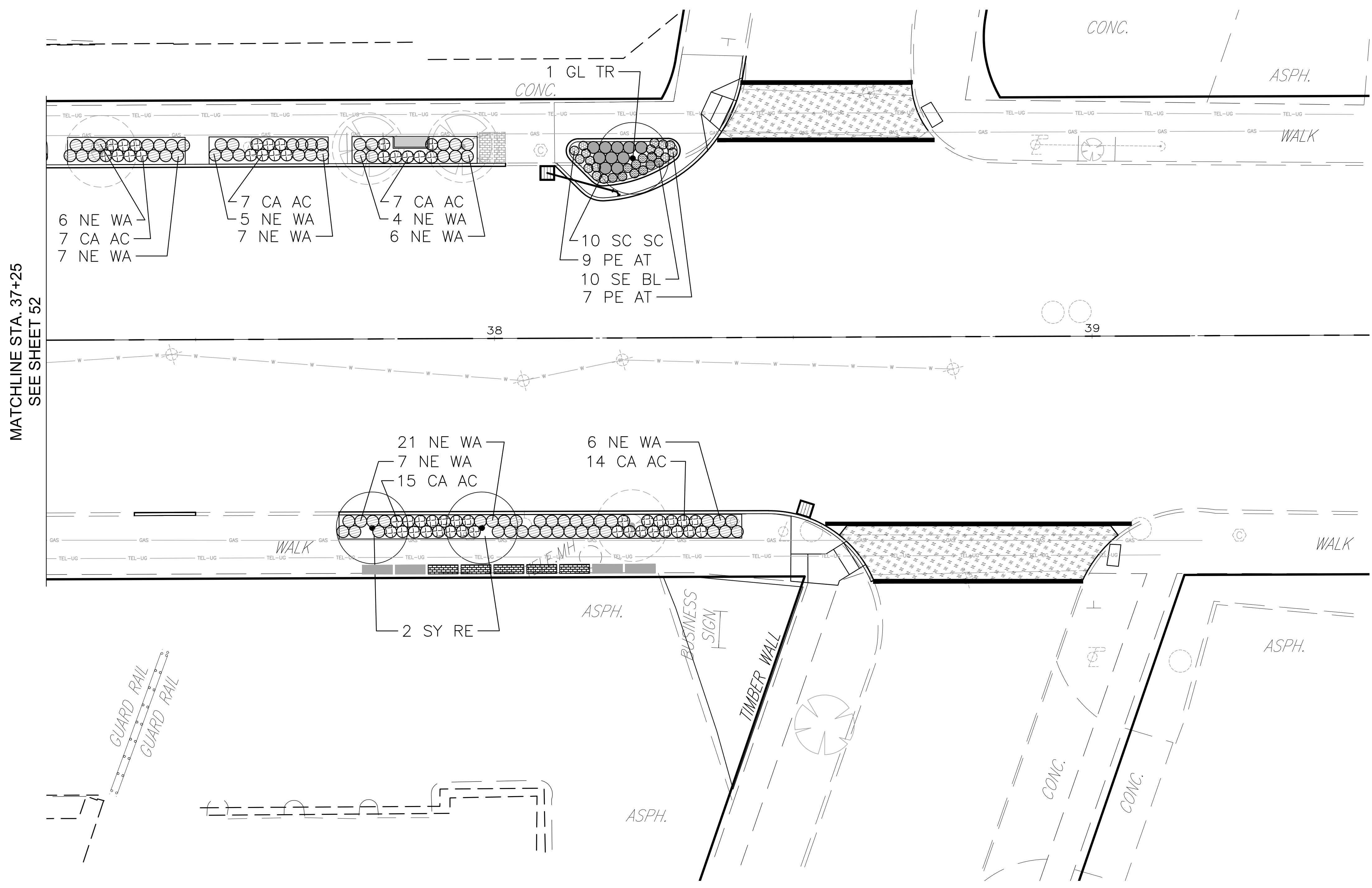


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LANDSCAPE PLAN

CUY - SR 010 - 6.00
STREETSCAPE

53
57



MATCHLINE STA. 37+25
SEE SHEET 52

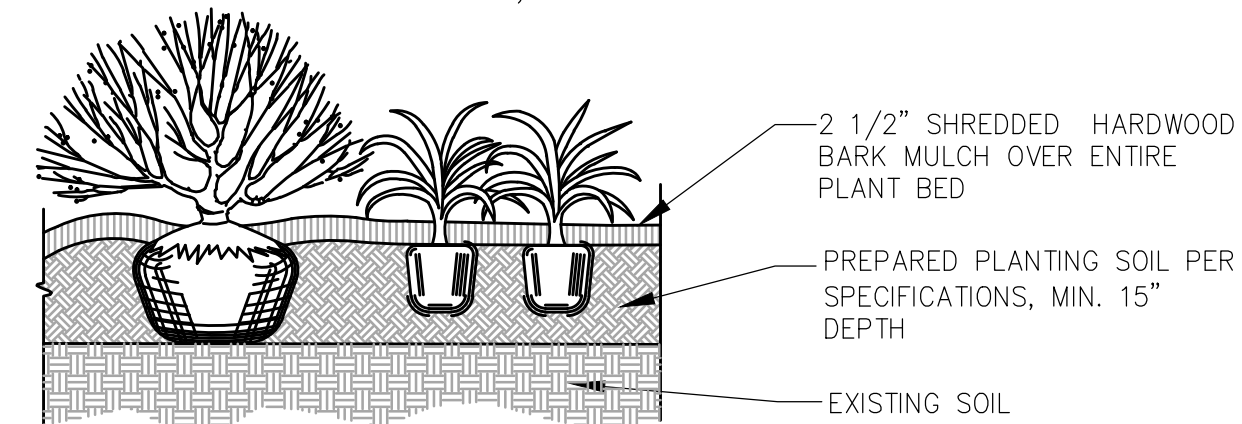
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PLANT LIST

SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOTS	COMMENTS
Deciduous Street Trees						
GL TR	9	Gleditsia tri. Inermis 'Skyline'	Skyline Honeylocust	2-1/2" cal.	B & B	
PR VI	44	Prunus virginiana 'Canada Red'	Canada Red Chokeberry	2-1/2" cal.	B & B	
SY RE	40	Syringa reticulata 'Ivory Silk'	Ivory Silk Japanese Tree Lilac	2-1/2" cal.	B & B	Single Trunk
VI DT	38	Viburnum prunifolium 'Dark Tower'	Dark Tower Blackhaw Viburnum	2-1/2" cal.	B & B	Single Trunk
Deciduous Shrubs						
PH OP	95	Physocarpus opulifolius 'Burgundy Candy'	Burgundy Candy Ninebark	18" Ht.	No. 3 Cont.	Plant 30" o.c.
RH AR	48	Rhus aromatica 'Gro-low'	Gro-low Fragrant Sumac	18" Sprd.	No. 3 Cont.	Plant 36" o.c.
RO PI	97	Rosa 'Pink Drift'	Pink Drift Rose	15" Sprd.	No. 3 Cont.	Plant 30" o.c.
Perennials and Ornamental Grasses						
CA AC	269	Calamagrostis acutiflora 'Karl Foerster'	Karl Foerster Reed Grass	Clump	No. 2 Cont.	Plant 24" o.c.
EL AR	506	Elymus arenarius 'Blue Dune'	Blue Dune Lyme Grass	Clump	No. 2 Cont.	Plant 24" o.c.
NE WA	322	Nepeta x faasseni 'Walker's Low'	Walker's Low Catmint	Clump	No. 1 Cont.	Plant 24" o.c.
PE AT	150	Perovskia atriplicifolia 'Little Spire'	Little Spire Russian Sage	Clump	No. 2 Cont.	Plant 18" o.c.
SC SC	103	Schizachyrium scoparium 'The Blues'	The Blues Little Bluestem	Clump	No. 2 Cont.	Plant 24" o.c.
SE BL	181	Sedum 'Black Jack'	Black Jack Sedum	Clump	No. 2 Cont.	Plant 18" o.c.
Plantings in Raised Planters						
HE SE	312	Helictotrichon sempervirens 'Sapphire'	Sapphire Blue Oat Grass	Clump	No. 2 Cont.	4 plants per planter
SC SC	264	Schizachyrium scoparium 'The Blues'	The Blues Little Bluestem	Clump	No. 2 Cont.	3 plants per planter

NOTES:

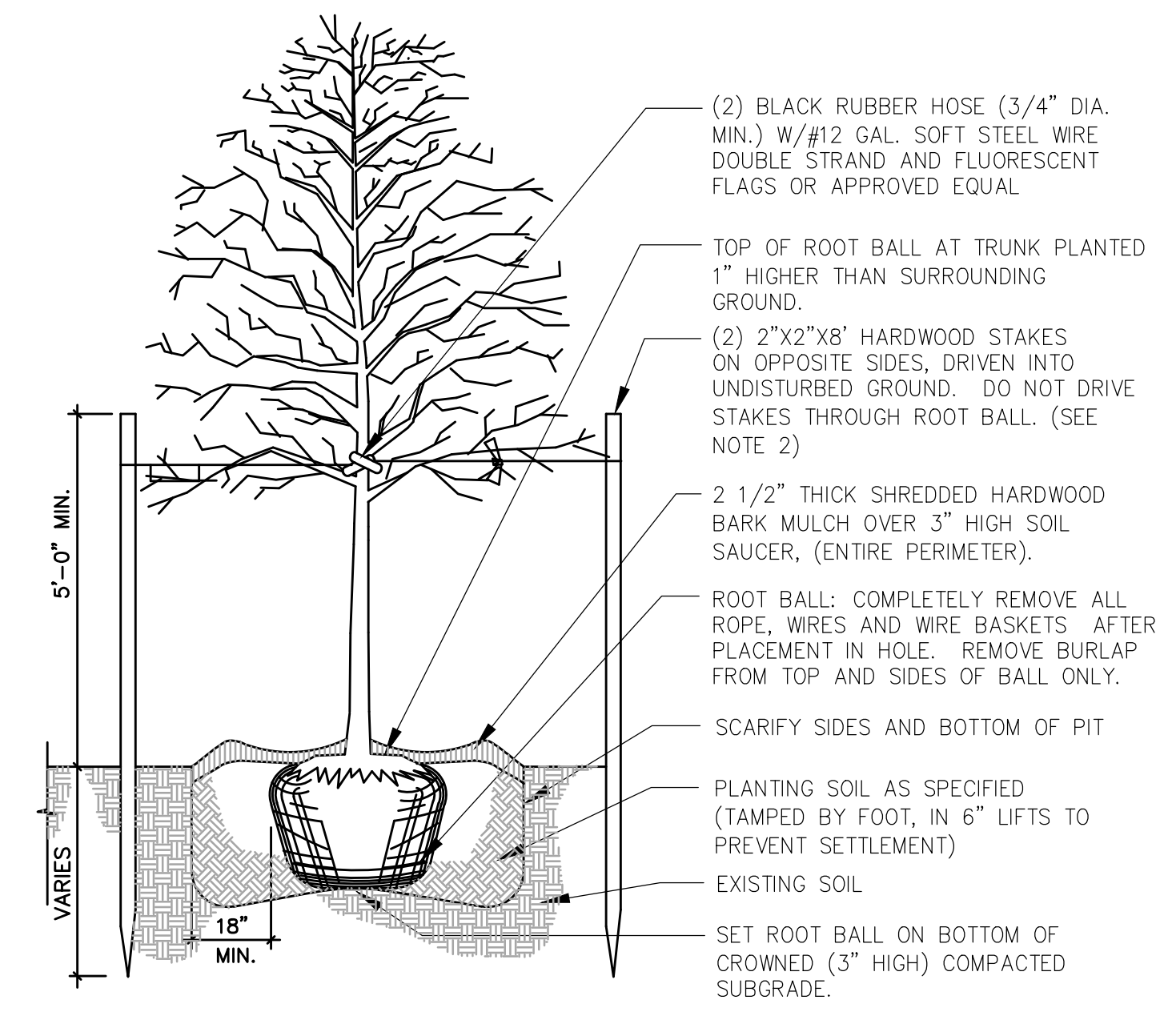
1. SET ALL PLANTS SO THAT WHEN SETTLED THEY WILL BEAR THE SAME RELATION TO THE FINISH GRADE AS THEY DID AT THE NURSERY.
2. NOTIFY LANDSCAPE ARCHITECT BEFORE PROCEEDING IF RUBBLE OR OTHER UNSUITABLE SOIL IS ENCOUNTERED DURING PLANTING OPERATIONS.
3. PREPARE PLANTING BEDS BY SPREADING A 4" LAYER OF ORGANIC MATTER OVER PLANTING AREA AND TILLING IT INTO THE EXISTING SOIL MATERIAL TO A MINIMUM DEPTH OF 15". (COST OF BED PREPARATION TO BE INCLUDED IN UNIT COSTS FOR PLANT MATERIALS).



SHRUBS, PERENNIALS AND ORNAMENTAL GRASS PLANTING DETAIL
 NO SCALE

NOTES:

- SET ALL TREES SO THAT WHEN SETTLED THEY WILL BE SLIGHTLY ABOVE (1") THE FINISHED GRADE.
- DECIDUOUS TREE STAKING SHALL BE DONE ONLY IF NECESSARY TO STABILIZE TREES AS DETERMINED BY LANDSCAPE ARCHITECT. THERE SHALL BE NO ADDITIONAL COST TO PROJECT FOR STAKING IF REQUIRED.
- NOTIFY LANDSCAPE ARCHITECT BEFORE PROCEEDING IF RUBBLE OR OTHER UNSUITABLE SOIL IS ENCOUNTERED DURING PLANTING OPERATIONS.
- ALL COST ASSOCIATED WITH ITEMS SHOWN ON THIS DETAIL ARE INCIDENTAL TO UNIT COST FOR PLANT MATERIALS.



DECIDUOUS TREE PLANTING DETAIL
 NO SCALE

1. PAY ITEMS FOR ALL LANDSCAPE PLANTINGS LISTED ON THE PLANT LIST- DECIDUOUS STREET TREES, DECIDUOUS SHRUBS, PERENNIALS, AND ORNAMENTAL GRASSES (EXCEPT PLANTINGS IN RAISED PLANTERS) SHALL INCLUDE ALL LABOR AND MATERIALS IN ACCORDANCE WITH "LANDSCAPE WORK SPECIFICATIONS".
2. THE "RAISED PLANTER, AS PER PLAN" PAY ITEM SHALL INCLUDE FURNISHING AND INSTALLING THE PLANTERS IN LOCATIONS PER THE PLANS.
3. THE "GEOTEXTILE FABRIC FOR RAISED PLANTERS, AS PER PLAN" PAY ITEM SHALL INCLUDE FURNISHING AND INSTALLING GEOTEXTILE FABRIC IN THE BOTTOM OF EACH RAISED PLANTER IN ACCORDANCE WITH "MISCELLANEOUS SITE ITEMS SPECIFICATIONS AND "LANDSCAPE WORK SPECIFICATIONS".
4. THE "SOIL MIX FOR RAISED PLANTERS, AS PER PLAN" PAY ITEM SHALL INCLUDE FURNISHING AND INSTALLING SOIL MIX IN RAISED PLANTERS IN ACCORDANCE WITH "LANDSCAPE WORK SPECIFICATIONS".
5. THE "SAPPHIRE BLUE OAT GRASS, AS PER PLAN" PAY ITEM SHALL INCLUDE FURNISHING AND INSTALLING EACH PLANT IN RAISED PLANTERS, INCLUDING MULCHING, IN ACCORDANCE WITH "LANDSCAPE WORK SPECIFICATIONS".
6. THE "THE BLUES LITTLE BLUE STEM, AS PER PLAN" PAY ITEM SHALL INCLUDE FURNISHING AND INSTALLING EACH PLANT IN RAISED PLANTERS, INCLUDING MULCHING, IN ACCORDANCE WITH "LANDSCAPE WORK SPECIFICATIONS".

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LAWN SPECIFICATIONS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. PLANTING LAWNS IN DISTURBED AREAS AND AREAS INDICATED ON THE DRAWINGS.
- B. WORK INCLUDES
 - 1. ESTABLISHING FINISH GRADES.
 - 2. PROVIDING SEEDED LAWNS.

1.02 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. DELIVER SEED MATERIALS IN ORIGINAL, UNOPENED CONTAINERS SHOWING WEIGHT, ANALYSIS AND NAME OF MANUFACTURER. STORE IN A MANNER NOT TO IMPAIR EFFECTIVENESS.

1.03 JOB CONDITIONS

- A. PLANTING SEASON: SOW GRASS SEED IMMEDIATELY AFTER PREPARATION OF BED. PERFORM SPRING SEEDING BETWEEN APRIL 1ST AND JUNE 1ST; FALL SEEDING BETWEEN AUGUST 15TH AND OCTOBER 15TH, OR AT SUCH TIME AS APPROVED BY OWNER'S REPRESENTATIVE.

PART 2 PRODUCTS/MATERIALS

2.01 MATERIALS

- A. FERTILIZER: COMMERCIAL FERTILIZER CONTAINING 10% NITROGEN, 6% PHOSPHORIC ACID AND 4% POTASH BY WEIGHT. ONE QUARTER OF NITROGEN SHALL BE IN FORM OF NITRATES, ONE QUARTER IN FORM OF AMMONIA SALT AND ONE HALF IN FORM OF ORGANIC NITROGEN. PHOSPHORIC ACID SHALL BE FROM SUPER-PHOSPHATE, BONE OR TANKAGE. POTASH SHALL BE IN FORM OF SULFATE OF POTASH. AVAILABILITY OF VARIOUS ELEMENTS SHALL CONFORM TO STANDARDS OF THE ASSOCIATION OF OFFICIAL AGRICULTURAL CHEMISTS.

B. GRASS SEED:

- 25% INFERNO OR JAGUAR 4 TALL FESCUE
- 25% SPYDER LS TALL FESCUE
- 25% BULLSEYE OR HEMI TALL FESCUE
- 18% COCHISE IV TALL FESCUE
- 7% JACKPOT OR BROOKLAWN KENTUCKY BLUEGRASS

DEPENDING ON TIME OF SEEDING, ANNUAL RYEGRASS MAY BE ADDED TO THE SEED MIX FOR QUICK COVER, IF REQUESTED BY OWNER, AT NO ADDITIONAL COST TO PROJECT.

- C. TOPSOIL: FURNISH NEW TOPSOIL IN ACCORDANCE WITH ODOT ITEM 653.02 TO ACHIEVE A MINIMUM 4" DEPTH OF TOPSOIL IN ALL AREAS TO BE SEEDED.

- D. MULCH: CLEAN STRAW OR OTHER APPROVED MATERIAL, WELL-SEASONED BEFORE BALING, CONTAINING LESS THAN 20% MOISTURE BY WEIGHT, FREE FROM MATURE SEED- BEARING STALKS OR ROOTS OF PROHIBITED OR NOXIOUS WEEDS. MULCH SHALL NOT CONTAIN THE STEMS OF TOBACCO, SOYBEANS OR OTHER COARSE OR WOODY MATERIALS.

- E. ASPHALTIC EMULSION: REFINED PETROLEUM ASPHALT EMULSIFIED IN ALKALINE WATER WITHOUT USE OF CLAY, STARCH OR DELTERIOUS SUBSTANCES, AND NOT MORE THAN 0.75% OF SAPONIFIABLE ACIDS; OF A FLUID CONSISTENCY SUITABLE FOR SPRAY APPLICATION WITH OR WITHOUT DILUTION WITH WATER AND WITH NO PETROLEUM SOLVENTS OR OTHER DILUTING AGENTS TOXIC TO PLANT LIFE.

PART 3 EXECUTION

3.01 GENERAL

- A. HYDROSEEDING MY UTILIZED TO INSTALL LAWNS ONLY IF APPROVED IN WRITING BY THE OWNER. IF HYDROSEEDING IS APPROVED BY THE OWNER, PROTECT ADJACENT PAVEMENTS AND/OR STRUCTURES FROM OVERSPRAY. ANY OVERSPRAY SHALL BE IMMEDIATELY AND COMPLETED REMOVED FROM AFFECTED PAVEMENTS AND/OR STRUCTURES.

3.02 PREPARATION

- A. CONTRACTOR SHALL TEST TOPSOIL AT AN APPROVED TESTING LAB TO OBTAIN RECOMMENDATIONS FOR AMENDMENTS FOR LAWN CROPS.
- B. SPREAD NEW TOPSOIL TO A MINIMUM 4" DEPTH IN ALL AREAS TO BE SEEDED, OR TO A DEPTH AS MAY BE OTHERWISE REQUIRED TO FILL AREAS TO BE SEEDED UP TO FINISH GRADE/LEVEL WITH ADJACENT SIDEWALK PAVEMENT.
- C. FINISH GRADE ALL AREAS TO RECEIVE NEW LAWNS. REMOVE ANY FOREIGN MATERIALS LARGER THAN 2" FROM LAWN AREAS. AREAS SHALL BE RAKED OF ALL DENUDED MATTER.
- D. DO NOT FINISH GRADE TOPSOIL IN MUDDY OR FROZEN CONDITION.
- E. PRIOR TO SEEDING, APPLY GROUND AGRICULTURAL LIMESTONE TO SOIL, IF NECESSARY, AT RATE DETERMINED BY CONTRACTOR'S SOIL TESTS TO ADJUST PH OF SOIL AT NO LESS THAN 5.0. DISTRIBUTE GROUND LIMESTONE EVENLY BY MACHINE OVER WHOLE AREA AND INCORPORATE THOROUGHLY INTO SOIL.
- F. AFTER TOPSOIL AND, IF NECESSARY, LIMESTONE HAVE BEEN SPREAD, APPLY FERTILIZER AT RATE RECOMMENDED IN THE SOIL TEST.

3.03 LAWN SEEDING

- A. SOW GRASS SEED IMMEDIATELY AFTER PREPARATION OF BED.
- B. SOW GRASS SEED EVENLY BY MECHANICAL SPREADER AT RATE OF FIVE (5) POUNDS PER 1000 SQUARE FEET. DO ALL SEEDING WHEN SOIL IS DRY AND WIND DOES NOT EXCEED 5 MPH VELOCITY.
- C. AFTER SEEDING, RAKE SURFACE OF SOIL SLIGHTLY WITH A FINE TOOTHED RAKE TO INCORPORATE SEED INTO TOP 1/8" OF SOIL AND ROLL WITH LIGHT LAWN ROLLER AS DIRECTED BY OWNER'S REPRESENTATIVE.
- D. PLACE MULCH UNIFORMLY ON SEEDED AREAS WITHIN 24 HOURS AFTER SEEDING.
- E. PLACE MULCH UNIFORMLY IN A CONTINUOUS BLANKET AT RATE OF ONE AND ONE HALF BALES PER 1,000 SQUARE FEET.
- F. WHERE SIZE OF AREAS MULCHED PRECLUDES USE OF EQUIPMENT, MULCH MAY BE ANCHORED BY USE OF A LIGHT COVERING OF TOPSOIL OR OTHER APPROVED MEANS.
- G. PROTECT BUILDINGS, SITE WALLS, PAVEMENTS AND PLANTINGS AND NON-SEEDED AREAS FROM ASPHALTIC EMULSION OVERSPRAY.

3.04 CLEANUP AND PROTECTION

- A. DURING LAWN OPERATIONS, KEEP PAVEMENTS CLEAN AND WORK AREA IN AN ORDERLY CONDITION.

3.05 LAWN MAINTENANCE

- A. MAINTENANCE OF SEEDED AREAS SHALL BEGIN IMMEDIATELY AFTER EACH AREA IS SEEDED AND SHALL CONTINUE UNTIL A UNIFORM STAND OF GRASS IS ACHIEVED AND UNTIL ACCEPTANCE OF PROJECT BY THE OWNER, BUT NOT FOR LESS THAN THIRTY DAYS AFTER INITIAL SEEDING.
- B. WATER AS REQUIRED TO MAINTAIN ADEQUATE MOISTURE IN THE UPPER 4" OF SOIL, NECESSARY TO PROMOTE PROPER ROOT GROWTH. CONTRACTOR SHALL FURNISH WATER TO THE SITE FOR PURPOSES OF LAWN WATERING UNLESS THE CONTRACTOR MAKES OTHER ARRANGEMENTS WITH THE OWNER FOR WATER SUPPLY.
- C. REMOVE WEEDS, DISEASED AND UNSATISFACTORY LAWN AREAS; DO NOT BURY INTO SOIL.

3.06 INSPECTION OF LAWN

- A. INSPECTION TO DETERMINE ACCEPTABILITY OF WORK WILL BE MADE BY THE OWNER'S REPRESENTATIVE UPON THE REQUEST BY THE CONTRACTOR.
- B. FAILURE TO REQUEST INSPECTION EXTENDS THE MAINTENANCE PERIOD UNTIL SUCH INSPECTION FOR ACCEPTANCE.
- C. AFTER INSPECTION, THE CONTRACTOR WILL BE NOTIFIED BY THE OWNER'S REPRESENTATIVE OF ACCEPTANCE OF SEEDING. IF THERE ARE ANY DEFICIENCIES, NOTIFICATION WILL BE FOR COMPLETION REQUIREMENTS OF THE WORK. WORK REMAINING TO BE DONE SHALL BE SUBJECT TO CONTINUED MAINTENANCE AND REINSPECTION BEFORE ACCEPTANCE.
- D. UPON ACCEPTANCE, THE OWNER SHALL BE RESPONSIBLE FOR ALL MAINTENANCE OF LAWNS.

3.07 GUARANTEE AND REPLACEMENT OF LAWN

- A. ALL LAWN SHALL BE GUARANTEED BY THIS CONTRACTOR TO ACHIEVE A UNIFORM STAND OF GRASS TO THE SATISFACTION OF THE OWNER. ALL LAWN NOT IN A VIGOROUS, THRIVING CONDITION SHALL BE IMMEDIATELY REPLACED BY THIS CONTRACTOR AT NO EXPENSE TO THE OWNER.
- B. SHOULD REPLACEMENT FALL DUE DURING A NON-PLANTING SEASON THE CONTRACTOR MAY REQUEST THE OWNER'S PERMISSION TO DEFER THE PLANTING UNTIL THE PROPER SEASON. REPLACEMENT LAWN SHALL BE OF THE SAME VARIETY ORIGINALLY SPECIFIED AND SHALL BE GUARANTEED AS ORIGINALLY SPECIFIED.

PART 4 MEASUREMENT AND PAYMENT

FURNISHING AND INSTALLING ALL WORK DESCRIBED ABOVE (LAWN) IS INCLUDED WITH SEEDING AND MULCHING PAY ITEM, SY

LANDSCAPE WORK SPECIFICATIONS

PART 1 GENERAL

1.01 DESCRIPTION OF WORK

- A. PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO PERFORM THE LANDSCAPE WORK, COMPLETE, AS INDICATED ON THE DRAWINGS AND AS SPECIFIED. LANDSCAPE DEVELOPMENT WORK INCLUDES, BUT IS NOT LIMITED TO, PLANT MATERIALS, SOILS, SOIL AMENDMENTS, AND MISCELLANEOUS APPURTENANCES.
- B. A COMPLETE LIST OF PLANTS, INCLUDING A SCHEDULE OF QUANTITIES, SIZES AND OTHER REQUIREMENTS IS SHOWN ON THE DRAWINGS. IN THE EVENT THAT DISCREPANCIES OCCUR BETWEEN THE QUANTITIES OF PLANTS INDICATED IN THE PLANT LIST AND AS INDICATED ON THE PLAN, THE PLANT QUANTITIES INDICATED ON THE PLAN SHALL GOVERN.

1.02 QUALITY ASSURANCE

- A. **GENERAL:**
 - 1. LANDSCAPE WORK SHALL BE PERFORMED BY A FIRM(S) SPECIALIZING IN TYPE OF LANDSCAPE WORK REQUIRED FOR THIS PROJECT.
 - 2. SHIP LANDSCAPE MATERIALS WITH CERTIFICATES OF INSPECTION REQUIRED BY GOVERNING AUTHORITIES. COMPLY WITH REGULATIONS APPLICABLE TO LANDSCAPE MATERIALS.
- B. **SUBSTITUTIONS:** IF SPECIFIED LANDSCAPE MATERIAL IS NOT OBTAINABLE, SUBMIT PROOF OF NON-AVAILABILITY TO OWNER'S REPRESENTATIVE TOGETHER WITH A PROPOSAL FOR USE OF SUBSTITUTE MATERIAL.
- C. **ANALYSIS AND STANDARDS:** PACKAGE STANDARD PRODUCTS WITH MANUFACTURER'S CERTIFIED ANALYSIS. FOR OTHER MATERIALS, PROVIDE ANALYSIS BY RECOGNIZED LABORATORY MADE IN ACCORDANCE WITH METHODS ESTABLISHED BY THE ASSOCIATION OF OFFICIAL AGRICULTURAL CHEMISTS, WHEREVER APPLICABLE.
- D. **PLANT MATERIALS:** PROVIDE PLANT MATERIALS OF QUANTITY, SIZE, GENUS, SPECIES AND VARIETY SHOWN AND SCHEDULED FOR LANDSCAPE WORK AND COMPLYING WITH RECOMMENDATIONS AND REQUIREMENTS OF ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK". PROVIDE HEALTHY, VIGOROUS STOCK, GROWN IN RECOGNIZED NURSERY IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE AND FREE OF DISEASE, INSECTS, EGGS, LARVAE AND DEFECTS SUCH AS KNOTS, SUN-SCALD, INJURIES, ABRASIONS OR DISFIGUREMENTS. ALL PLANTS SHALL BE NURSERY GROWN FOR A MINIMUM OF TWO YEARS UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT. (PLANTS MUST BE FROM A NURSERY IN THE SAME U.S.D.A. HARDINESS ZONE AS THE PROJECT.)
- E. **SPECIMEN PLANTS:** PROVIDE "SPECIMEN" PLANTS WITH A SPECIAL HEIGHT, SHAPE OR CHARACTER OF GROWTH. SPECIMEN STOCK SHOULD BE EXCEPTIONALLY FULLY DEVELOPED, BUSHY AND HEAVILY BRANCHED PLANTS THAT HAVE BEEN GROWN INDIVIDUALLY IN THE NURSERY. TAG SPECIMEN TREES AT THE SOURCE OF SUPPLY FOR INSPECTION AND APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO DIGGING. WHEN SPECIMEN PLANTS CANNOT BE PURCHASED LOCALLY, PROVIDE SUFFICIENT PHOTOGRAPHS OF THE PROPOSED SPECIMEN PLANTS FOR APPROVAL.
- F. **LABELING:** LABEL EACH TREE WITH SECURELY ATTACHED WATERPROOF TAG BEARING LEGIBLE DESIGNATION OF BOTANICAL AND COMMON NAME.
 - 1. WHERE FORMAL ARRANGEMENTS OR CONSECUTIVE ORDER OF TREES ARE SHOWN, SELECT STOCK FOR UNIFORM CALIPER, HEIGHT AND SPREAD AND LABEL WITH NUMBER TO ASSURE SYMMETRY IN PLANTING.
- G. **INSPECTION:** THE OWNER'S REPRESENTATIVE WILL INSPECT TREES AT PLACE OF GROWTH BEFORE DIGGING, FOR COMPLIANCE WITH REQUIREMENTS FOR GENUS, SPECIES, VARIETY, SIZE AND QUALITY. THE OWNER'S REPRESENTATIVE RETAINS THE RIGHT TO FURTHER INSPECT TREES FOR SIZE AND CONDITION OF BALLS AND ROOT SYSTEMS, INSECTS, INJURIES AND LATENT DEFECTS. THE OWNER'S REPRESENTATIVE ALSO RETAINS THE RIGHT TO REJECT UNSATISFACTORY OR DEFECTIVE MATERIAL AT ANY TIME DURING PROGRESS OF WORK. REMOVE REJECTED TREES OR SHRUBS IMMEDIATELY FROM PROJECT SITE.
- H. **PLANT TAGGING:** THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO INSPECT AND TAG PLANT MATERIALS AT ACCEPTABLE NURSERIES FOR COMPLIANCE WITH REQUIREMENTS FOR GENUS, SPECIES, VARIETY, SIZE AND VISUAL QUALITY. THE OWNER'S REPRESENTATIVE RETAINS THE RIGHT TO FURTHER INSPECT PLANT MATERIALS AND TO REJECT UNSATISFACTORY OR DEFECTIVE MATERIALS AT ANY TIME DURING PROGRESS OF WORK.
 - 1. SUBMIT TO THE OWNER'S REPRESENTATIVE THE NAMES AND LOCATIONS OF NURSERIES PROPOSED AS SOURCES OF ACCEPTABLE PLANT MATERIALS.
 - 2. IF REQUESTED BY THE OWNER'S REPRESENTATIVE, THE CONTRACTOR SHALL PROVIDE TRANSPORTATION FOR THE OWNER'S REPRESENTATIVE TO ALL OUT-OF-STATE NURSERIES AND IS RESPONSIBLE FOR ALL EXPENSES RELATED TO SUCH TRANSPORTATION. AIR FARE, LODGING (IF REQUIRED), AND MEALS SHALL BE PROVIDED FOR THE OWNER'S REPRESENTATIVE AND PAID FOR BY THE CONTRACTOR FOR TRIPS TO ALL NURSERIES NOT ACCESSIBLE BY CAR DURING A SINGLE DAY TRIP (THERE AND BACK, NOT EXCEEDING 12 HOURS).

- 3. SCHEDULE WITH THE OWNER'S REPRESENTATIVE A TIME FOR VIEWING PLANT MATERIAL AT THE NURSERY. TRIPS TO NURSERIES SHALL BE EFFICIENTLY ARRANGED TO ALLOW THE OWNER'S REPRESENTATIVE TO MAXIMIZE HIS VIEWING TIME.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR PURCHASING THE TAGGED MATERIAL AND DELIVERING IT TO THE SITE FOR PLANTING. THESE REQUIREMENTS DO NOT REMOVE THE CONTRACTOR FROM HIS GUARANTEE REQUIREMENTS.

SUBMITTALS

- A. **SAMPLES:** WHEN REQUESTED BY THE OWNER'S REPRESENTATIVE, SAMPLES OF ALL MATERIALS SHALL BE SUBMITTED FOR APPROVAL. CONTRACTOR SHALL NOT DELIVER BULK MATERIALS TO THE PROJECT SITE UNTIL SAMPLES AND TEST RESULTS ARE APPROVED.
 - 1. **SAMPLES OF THE FOLLOWING SHALL BE SUBMITTED:**
 - a. COMPOST/ORGANIC MATTER: SUBMIT ONE CUBIC FOOT.
 - b. MULCH: SUBMIT ONE CUBIC FOOT.
 - c. TREE WRAP: SUBMIT A THREE FOOT LENGTH.
- B. **CERTIFICATION:** SUBMIT CERTIFICATES OF INSPECTION AS REQUIRED BY GOVERNMENTAL AUTHORITIES. SUBMIT MANUFACTURER'S OR VENDOR'S CERTIFIED ANALYSIS FOR SOIL AMENDMENTS AND FERTILIZER MATERIALS. SUBMIT OTHER DATA SUBSTANTIATING THAT MATERIALS COMPLY WITH SPECIFIED REQUIREMENTS.
- C. **TEST REPORTS:** TEST REPORTS FROM AN APPROVED TESTING AGENCY INDICATING COMPLIANCE WITH THE SPECIFICATIONS SHALL BE SUBMITTED FOR THE FOLLOWING MATERIALS (AND ANY OTHER MATERIALS DESIGNATED BY THE OWNER'S REPRESENTATIVE):
 - 1. COMPOST/ORGANIC MATTER
 - 2. PLANTING SOIL FOR SHRUBS INDICATING PH, OR REQUIRED AMENDMENTS TO ACHIEVE SPECIFIED PH.
- D. **PLANTING SCHEDULE:** SUBMIT PROPOSED PLANTING SCHEDULE INDICATING DATES FOR EACH TYPE OF LANDSCAPE WORK DURING NORMAL SEASONS FOR SUCH WORK IN AREA OF SITE. CORRELATE WITH SPECIFIED MAINTENANCE PERIODS TO PROVIDE MAINTENANCE FROM DATE OF SUBSTANTIAL COMPLETION. ONCE ACCEPTED, REVISE DATES ONLY AS APPROVED IN WRITING, AFTER DOCUMENTATION OF REASONS FOR DELAYS.
- E. **RECORD DRAWINGS:** PROVIDE PLANT MATERIAL RECORD DRAWINGS.
 - 1. LEGIBLY MARK DRAWINGS TO RECORD ACTUAL CONSTRUCTION.
 - 2. IDENTIFY FIELD CHANGES OF DIMENSION AND DETAIL AND CHANGES MADE BY CHANGE ORDER, INCLUDING APPROVED PLANT VARIETY CHANGES.

1.04 INSPECTION, TESTING, AND APPROVALS

- A. IN-PROGRESS INSPECTIONS SHALL BE MADE BY THE OWNER'S REPRESENTATIVE AT REGULAR INTERVALS DURING EXECUTION OF WORK ON THE PROJECT.
- B. MATERIALS SHALL NOT BE USED IN CONSTRUCTION UNTIL TEST RESULTS HAVE BEEN REVIEWED BY THE OWNER'S REPRESENTATIVE.
- C. ALL COSTS ASSOCIATED WITH TESTING SHALL BE AT CONTRACTOR'S EXPENSE.
- D. ALL APPROVALS SHALL BE IN WRITING.

1.05 DELIVERY, STORAGE AND HANDLING

- A. **DELIVERY**
 - 1. DELIVER FRESH MATERIALS IN SEALED CONTAINERS. PROTECT FROM DETERIORATION DURING DELIVERY, AND WHILE STORED AT THE SITE. MATERIAL WHICH BECOMES CAKED OR OTHERWISE DAMAGED, MAKING IT UNSUITABLE FOR USE, SHALL BE REJECTED.
 - 2. FERTILIZER SHALL BE DELIVERED TO THE SITE IN BAGS OR OTHER SEALED CONTAINERS, EACH FULLY LABELED, CONFORMING TO THE APPLICABLE STATE FERTILIZER LAW, AND BEARING THE NAME, TRADE NAME OR TRADEMARK, AND WARRANTY OF THE MANUFACTURER.
 - 3. PROTECT PLANTS DURING TRANSPORTATION BY PROPER COVERAGE WITH TARP OR OTHER MEANS TO REDUCE TRANSPIRATION AND DAMAGE. CLOSED VEHICLES SHALL BE ADEQUATELY VENTILATED TO PREVENT OVERHEATING OF THE PLANTS.
 - 4. TREES TRANSPORTED IN FULL-LEAF ARE TO BE ADEQUATELY SPRAYED WITH AN ANTI-DESICCANT TO PROVIDE A FILM OVER TRUNKS, BRANCHES, STEMS, TWIGS, AND FOLIAGE.
 - 5. PLANTS SHALL BE KEPT MOIST, FRESH, AND PROTECTED AT ALL TIMES. SUCH PROTECTION SHALL ENCOMPASS THE ENTIRE PERIOD DURING WHICH THE PLANTS ARE IN TRANSIT, BEING HANDLED, OR ARE IN TEMPORARY STORAGE.
 - 6. NOTIFY THE OWNER'S REPRESENTATIVE AT LEAST THREE WORKING DAYS IN ADVANCE OF THE ANTICIPATED DELIVERY DATE OF ANY PLANT MATERIAL. A LEGIBLE COPY OF THE BILL OF LADING, SHOWING THE QUANTITIES, KINDS (GENUS, SPECIES, CULTIVAR, VARIETY), AND SIZES OF MATERIALS INCLUDED FOR EACH SHIPMENT SHALL BE FURNISHED TO THE OWNER'S REPRESENTATIVE.
- B. **STORAGE:** UNLESS SPECIFIC AUTHORIZATION IS OBTAINED FROM THE OWNER'S REPRESENTATIVE, PLANTS SHALL NOT REMAIN ON THE SITE OF WORK LONGER THAN THREE DAYS PRIOR TO BEING PLANTED.
 - 1. PLANTS THAT ARE NOT PLANTED IMMEDIATELY SHALL BE PROTECTED AS FOLLOWS:
 - a. IF PLANTING IS TO BE DELAYED MORE THAN SIX (6) HOURS AFTER DELIVERY, SET TREES, SHRUBS AND PLANTS IN SHADE OR PROTECTED AREA. KEEP ROOTS MOIST BY COVERING WITH MULCH, BURLAP OR OTHER ACCEPTABLE MEANS OF RETAINING MOISTURE.
 - b. PLANTS SHALL NOT BE ALLOWED TO DRY OUT OR FREEZE.
 - 2. BOTH THE DURATION AND METHOD OF STORAGE OF PLANT MATERIALS SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE.
- C. **HANDLING:**
 - 1. PLANTS SHALL NOT BE DUG AT THE NURSERY OR APPROVED SOURCE UNTIL THE CONTRACTOR IS READY TO TRANSPORT THEM FROM THEIR ORIGINAL LOCATIONS TO THE SITE OF WORK OR ACCEPTABLE STORAGE LOCATION.
 - 2. AS SOON AS POSSIBLE AFTER DIGGING, ALL ROOT BALLS SHALL BE THOROUGHLY SOAKED AND THE TOP OF THE PLANT SYRINGED (IN ACTIVE SEASON).
 - 3. PLANTS SHALL BE HANDLED BY THE BALL AND NOT BY TRUNK OR TOP GROWTH. NO PLANT SHALL BE SO BOUND WITH ROPE OR WIRE AT ANY TIME AS TO DAMAGE THE BARK, BREAK BRANCHES, OR DESTROY ITS NATURAL SHAPE.
 - 4. PROTECT ALL PLANT AREAS AND PLANTS FROM DAMAGE. TREAT OR REPLACE ANY PLANTS THAT ARE INJURED. PERFORM NO WORK IN OR OVER PREPARED PLANT AREAS OR ADJACENT TO PLANTING WITHOUT PROPER SAFEGUARDS AND PROTECTION.
 - 5. DO NOT REMOVE CONTAINER GROWN STOCK FROM CONTAINERS UNTIL PLANTING TIME.
 - 6. PREPARE PLANTING PITS AND INSTALL PLANT MATERIAL IN ACCORDANCE WITH SPECIFICATION.

CALCULATED:
PUR

CHECKED:
BEK

LANDSCAPE PLAN

CUY-SR 010 - 6.00
STREETSCAPE

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57

1.06 JOB CONDITIONS

A. GENERAL:

- EXAMINE SUBGRADE, VERIFY THE ELEVATIONS, OBSERVE THE CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED. DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
- PROCEED WITH AND COMPLETE THE LANDSCAPE WORK AS RAPIDLY AS PORTIONS OF THE SITE BECOME AVAILABLE, WORKING WITHIN THE SEASONAL LIMITATIONS FOR EACH KIND OF LANDSCAPE WORK REQUIRED.
- WHEN CONDITIONS DETRIMENTAL TO PLANT GROWTH ARE ENCOUNTERED, SUCH AS RUBBLE FILL, ADVERSE DRAINAGE CONDITIONS, OR OBSTRUCTIONS, DO NOT PLANT.
- IF UNDERGROUND OBSTRUCTIONS ARE ENCOUNTERED IN THE EXCAVATION OF PLANT PITS, ALTERNATE LOCATIONS MAY BE SELECTED BY THE OWNER'S REPRESENTATIVE. WHERE LOCATIONS CANNOT BE CHANGED, THE OBSTRUCTION SHALL BE REMOVED TO A DEPTH OF NOT LESS THAN 3 FEET BELOW GRADE AND NO LESS THAN 6" BELOW BOTTOM OF BALL OR ROOTS WHEN PLANT IS PROPERLY SET AT THE REQUIRED GRADE.
- PLANT ONLY DURING NORMAL PLANTING SEASONS FOR EACH TYPE OF LANDSCAPE WORK REQUIRED. CORRELATE PLANTING WITH SPECIFIED MAINTENANCE SERVICE PERIODS TO PROVIDE MAINTENANCE UNTIL OCCUPANCY BY THE OWNER.

B. UTILITIES:

- DETERMINE LOCATION OF UNDERGROUND UTILITIES AND PERFORM WORK IN A MANNER WHICH WILL AVOID POSSIBLE DAMAGE.
- HAND EXCAVATE, AS REQUIRED, TO MINIMIZE POSSIBILITY OF DAMAGE TO UNDERGROUND UTILITIES.
- MAINTAIN ALL STAKES AND MARKERS SET BY OTHERS UNTIL REMOVAL IS MUTUALLY AGREED UPON BY ALL PARTIES CONCERNED.

C. TREES:

- PLANT TREES AFTER FINAL GRADES ARE ESTABLISHED AND PRIOR TO PLANTING OF LAWNS AND LANDSCAPE PLANTINGS. IF PLANTING OF TREES OCCURS AFTER LAWN WORK OR LANDSCAPE PLANTINGS, PROMPTLY REPAIR DAMAGE TO LAWNS AND LANDSCAPE PLANTINGS RESULTING FROM TREE PLANTING OPERATIONS.

1.07 PLANTING SEASON

- A. **SPRING PLANTING:** SPRING PLANTING MAY COMMENCE APRIL 1 AND AS SOON AS WEATHER CONDITIONS MAKE IT PRACTICABLE TO WORK BOTH AT THE NURSERY AND AT THE SITE.

- B. **FALL PLANTING:** FALL PLANTING MAY COMMENCE SEPTEMBER 1 AND SHALL CONTINUE UNTIL SUCH TIME AS WEATHER CONDITIONS MAKE IT IMPRACTICAL TO WORK.

NOTE: REGARDLESS OF THE DATES SPECIFIED ABOVE, PLANTING SHALL ONLY BE PERFORMED WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE FOR PLANTING THE MATERIAL SPECIFIED IN ACCORDANCE WITH LOCALLY ACCEPTED PRACTICE.

PLANTING SEASON MAY BE EXTENDED ONLY WITH THE WRITTEN PERMISSION OF THE OWNER'S REPRESENTATIVE.

PART 2 PRODUCTS/MATERIALS

2.01 PLANTING SOIL FOR TREES

- A. FOR BACKFILLING TREE PITS IN EXISTING OR NEW LAWN AREAS, PLANTING SOIL MIXTURE SHALL BE PREPARED USING THE FOLLOWING RATE OF MATERIALS:

THREE (3) PARTS EXISTING SOIL ON SITE, BY VOLUME
ONE (1) PART COMPOST/ORGANIC MATTER, BY VOLUME

MIXTURE SHALL BE WELL MIXED AND APPROVED BY THE OWNER'S REPRESENTATIVE BEFORE ANY PLANTS ARE INSTALLED.

- B. FOR BACKFILLING TREES IN PLANT BEDS, USE THE PREPARED SOIL MIXTURE PER SECTION 3.02 OF THIS SPECIFICATION SECTION.

2.02 SOIL MIX FOR RAISED PLANTERS

- A. REFER TO MISC. SITE ITEMS SPECIFICATIONS FOR RAISED PLANTER MATERIAL SPECIFICATIONS.

- B. SOIL MIXTURE FOR RAISED PLANTERS SHALL BE PREPARED USING THE FOLLOWING MATERIALS:

ONE (1) PART NEW TOPSOIL IN ACCORDANCE WITH ODOT ITEM 653.02, BY VOLUME
ONE (1) PART HORTICULTURAL COARSE VERMICULITE, BY VOLUME
ONE (1) PART COMPOST/ORGANIC MATTER, BY VOLUME
ONE (1) PART CANADIAN SPHAGNUM PEAT MOSS OR COCO COIR (COCONUT FIBER), BY VOLUME

OR APPROVED EQUAL PLANTING MIX

2.03 SOIL AMENDMENTS AND MISCELLANEOUS MATERIALS

- A. **GENERAL:** UNLESS SPECIFIED OTHERWISE BELOW, THE FOLLOWING SOIL AMENDMENTS SHALL BE USED AT RATES RECOMMENDED BY TOPSOIL TESTING.

- B. **LIME:** NATURAL DOLOMITIC LIMESTONE CONTAINING NOT LESS THAN 85% OF TOTAL CARBONATES WITH A MINIMUM OF 30% MAGNESIUM CARBONATES, GROUND SO THAT NOT LESS THAN 90% PASSES A 10-MESH SIEVE AND NOT LESS THAN 50% PASSES A 100-MESH SIEVE. LIMESTONE SHALL BE USED TO RAISE THE PH OF THE PLANTING SOIL WHEN NECESSARY.

- C. **ALUMINUM SULFATE:** UNADULTERATED FREE FLOWING AND DELIVERED IN CONTAINERS WITH THE NAME OF THE MATERIAL, NAME OF THE MANUFACTURER, NET WEIGHT AND PURITY. ALUMINUM SULFATE SHALL BE USED TO LOWER THE PH OF THE PLANTING SOIL WHEN NECESSARY.

- C. **WEED CONTROL:** SHALL BE A LABELED HERBICIDE APPROPRIATE FOR USE WITH THE PLANTS GROWN. IT CAN BE APPLIED IN EITHER GRANULAR OR LIQUID FORM ACCORDING TO DIRECTIONS.

- D. **TOPSOIL:** NEW TOPSOIL IN ACCORDANCE WITH ODOT ITEM 653.02.

- E. **COMPOST/ORGANIC MATTER:** LEAVES COMPOSTED 18-24 MONTHS IN HIGH TEMPERATURES, CREATING RICH, MELLOW DARK LEAF HUMUS. LEAF HUMUS TO BE SHREDDED AND SCREENED, AND SHALL BE FREE OF WEED SEEDS AND TOXIC MATERIALS. LEAF HUMUS (OR OTHER APPROVED ORGANIC MATTER) SHALL CONFORM TO THE FOLLOWING:

- 100% SHALL PASS THROUGH A 1" SCREEN.
- PATHOGEN FREE; TIME AND TEMPERATURE TESTS MINIMUM 55° CELSIUS FOR 3 DAYS.
- ORGANIC CONTENT SHALL BE BETWEEN 35-75%; EACH SOURCE SHALL NOT VARY MORE THAN 5%.
- INERT CONTAMINATION SHALL BE LESS THAN 1% BY WEIGHT.
- MATERIAL SHALL BE CURED FOR AT LEAST 90 DAYS.
- SOLUBLE SALTS SHALL BE BETWEEN 1-5 MMHOS.
- PH SHALL BE BETWEEN 6 AND 8.

NOTE: COMPOST/ORGANIC MATTER OTHER THAN LEAF HUMUS IS ACCEPTABLE PROVIDING IT CONFORMS TO THESE SPECIFICATIONS.

- F. **COMMERCIAL FERTILIZERS:** COMPLETE FERTILIZER OF NEUTRAL CHARACTER WITH SOME ELEMENTS DERIVED FROM ORGANIC SOURCES AND CONTAINING THE FOLLOWING PERCENTAGES OF AVAILABLE PLANT NUTRIENTS:

- FOR TREES, SHRUBS, GROUNDCOVERS, AND PERENNIALS, PROVIDE CONTROLLED RELEASE FERTILIZER WITH NOT LESS THAN 5% TOTAL NITROGEN, 10% AVAILABLE PHOSPHORIC ACID AND 5% SOLUBLE POTASH. FERTILIZER SHALL BE ADDED IN PROPORTIONS DETERMINED BY SOIL ANALYSIS AND PER MANUFACTURER'S RECOMMENDATION.

2.04 PLANT MATERIALS

A. GENERAL:

- PROVIDE PLANTS OF SIZE, GENUS, SPECIES AND VARIETY SHOWN AND SCHEDULED FOR LANDSCAPE WORK AND COMPLYING WITH LATEST RECOMMENDATIONS AND REQUIREMENTS OF ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK". ALL PLANTS SHALL BE NURSERY GROWN.
- ALL PLANTS SHALL BE HARDY UNDER CLIMATIC CONDITIONS AND NURSERY GROWN IN THE SAME HARDINESS ZONE, OR COLDER, AS THE PROJECT.
- PLANTS SHALL HAVE OUTSTANDING FORM; SYMMETRICAL, HEAVILY BRANCHED WITH AN EVEN BRANCH DISTRIBUTION, DENSELY FOLIATED AND/OR BUDDED, AND A STRONG, STRAIGHT, DISTINCT LEADER WHERE THIS IS CHARACTERISTIC OF SPECIES. PLANTS SHALL POSSESS A NORMAL BALANCE BETWEEN HEIGHT AND SPREAD. THE OWNER'S REPRESENTATIVE WILL BE THE FINAL ARBITER OF ACCEPTABILITY OF PLANT FORM.
- PROVIDE PLANTS WITH A VIGOROUS, WELL-DEVELOPED FIBROUS ROOT SYSTEM.
- PLANTS SHALL BE HEALTHY AND VIGOROUS, FREE OF DISEASE, INSECT PESTS AND THEIR EGGS, LARVAE, BORERS, AND ALL OTHER FORMS OF INFESTATION.
- PLANTS SHALL BE FREE OF PHYSICAL DAMAGE SUCH AS SCRAPES, BROKEN OR SPLIT BRANCHES, SCARS, BARK ABRASIONS, SUN SCALDS, FROST CRACKS, FRESH LIMB CUTS, DISFIGURING KNOTS, OR OTHER DEFECTS.
- PLANTS SHALL MEET THE SIZES INDICATED IN THE PLANT LIST. PLANTS LARGER THAN SPECIFIED MAY BE USED ONLY IF ACCEPTED BY THE OWNER'S REPRESENTATIVE, AND WITHOUT ADDITIONAL COST TO THE OWNER.
- BALLED AND BURLAPPED PLANTS SHALL BE DUG WITH FIRM, NATURAL BALLS OF EARTH OF SUFFICIENT DIAMETER AND DEPTH TO ENCOMPASS THE FIBROUS AND FEEDING ROOT SYSTEM NECESSARY FOR FULL RECOVERY OF THE PLANT. PROVIDE BALL SIZES COMPLYING WITH THE LATEST EDITION OF THE "AMERICAN STANDARD FOR NURSERY STOCK." CRACKED OR MUSHROOMED BALLS ARE NOT ACCEPTABLE. PLASTIC BURLAP AND/OR TWINE IS NOT ACCEPTABLE.

- B. **DECIDUOUS TREES:** PROVIDE TREES OF HEIGHT AND CALIPER SCHEDULED OR SHOWN AND WITH BRANCHING CONFIGURATION RECOMMENDED BY ANSI Z60.1 FOR TYPE AND SPECIES REQUIRED. PROVIDE SINGLE STEM TREES EXCEPT WHERE SPECIAL FORMS ARE SHOWN OR LISTED. SINGLE STEM TREES SHALL HAVE A SINGLE, STRAIGHT CENTRAL LEADER.

- PROVIDE BALLED AND BURLAPPED (B&B) DECIDUOUS TREES.
- CANOPY TREES SHALL BE BRANCHED UP 5½' TO 6'

2.05 MISCELLANEOUS LANDSCAPE MATERIALS

- A. **SHREDDED BARK MULCH:** SHALL BE A FINELY SHREDDED HARDWOOD TREE BARK OF UNIFORM TEXTURE AND SIZE AND SHALL BE A SLOW DECOMPOSING, ALL ORGANIC MATERIAL. SHREDDED BARK SHALL BE AGED AT LEAST ONE YEAR AND DARK BROWN IN COLOR. IT SHALL NOT CONTAIN AN EXCESSIVE AMOUNT OF ACID THAT MAY ADVERSELY AFFECT PLANT GROWTH. MULCH SHALL BE FREE OF WEEDS AND WEED SEEDS.

- B. **ANTI-DESICCANT:** EMULSION TYPE, FILM FORMING AGENT DESIGNED TO PERMIT TRANSPIRATION BUT RETARD EXCESSIVE LOSS OF MOISTURE FROM PLANTS. DELIVER IN MANUFACTURER'S FULLY IDENTIFIABLE CONTAINERS AND MIX IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

- C. **HERBICIDE:** SHALL BE A LABELED HERBICIDE FOR THE PLANTS GROWN. IT CAN BE APPLIED IN EITHER GRANULAR OR LIQUID FORM ACCORDING TO DIRECTIONS.

D. GUYING AND STAKING:

- GUYING STAKES:** SHALL BE SOUND UNIFORM HARDWOOD STAKES 2" X 2" X 36", OR AS SHOWN ON DETAILED DRAWINGS.
- BRACING STAKES:** SHALL BE SOUND UNIFORM HARDWOOD STAKES 2" X 2" X 8' TO 10', OR AS SHOWN ON DETAILED DRAWINGS.
- TRUNK PROTECTOR:** FOR COVERING STAKING WIRE SHALL BE ARBOR TIE OR EQUAL.
- TWINE:** SHALL BE A JUTE TWINE NOT LESS THAN TWO PLY (NO SYNTHETIC TWINES).
- CABLE/WIRE:** SHALL BE 12 OR 14 GAUGE GALVANIZED STEEL SOLID STRAND WIRE DEPENDING ON SIZE OF TREE. SEE PLANTING DETAILS.
- TURNBUCKLES:** GALVANIZED OR ZINC COATED, HAVING A 3" MINIMUM LENGTHWISE OPENING FITTED WITH SCREW EYES, AND SHALL HAVE A TENSILE STRENGTH EQUAL TO OR GREATER THAN THE ATTACHING WIRE OR CABLE.

- E. **WATER:** SHALL BE SUITABLE FOR IRRIGATION AND SHALL BE FREE FROM INGREDIENTS HARMFUL TO PLANT LIFE. CONTRACTOR SHALL FURNISH WATER TO SITE FOR PURPOSES OF PLANT WATERING UNLESS THE CONTRACTOR MAKES OTHER ARRANGEMENTS WITH THE OWNER FOR WATER SUPPLY.

PART 3 EXECUTION

3.01 GENERAL

- A. EXAMINE PROPOSED PLANTING AREAS AND CONDITIONS OF INSTALLATION. DO NOT START PLANTING WORK UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED.
- B. IT SHALL BE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WORK WITH OTHER CONTRACTORS ON THE PROJECT.
- C. THE CONTRACTOR SHALL TAKE ALL PROPER PRECAUTIONS SO AS NOT TO DISTURB OR DAMAGE SUBSURFACE IMPROVEMENTS (SEE PARAGRAPH 1.06 OF THIS SECTION).
- D. EXISTING SOIL AND ORGANIC MATTER SHALL BE TESTED AT AN APPROVED TESTING LAB BY THE CONTRACTOR. WHEN TESTING INDICATES A DEFICIENCY, SOIL AMENDMENTS AND FERTILIZER SHALL BE APPLIED AT RATES INDICATED BY TESTING AS SPECIFIED HEREIN, FOR OPTIMAL GROWTH OF SPECIFIED PLANTINGS. SEE PARAGRAPH 2.02 OF THESE SPECIFICATIONS FOR SPECIFIC REQUIREMENTS FOR PLANTING SOIL FOR SHRUBS.

3.02 BED PREPARATION FOR SHRUBS, PERENNIALS, AND ORNAMENTAL GRASSES

- A. WHERE PLANT BEDS ARE SPECIFIED IN AREAS CURRENTLY PLANTED WITH LAWN OR OTHER VEGETATION, APPLY HERBICIDE TO COMPLETELY KILL EXISTING VEGETATION, IN ACCORDANCE WITH HERBICIDE MANUFACTURER'S SPECIFICATIONS. REAPPLY IF NEEDED, IN ACCORDANCE WITH HERBICIDE MANUFACTURER'S SPECIFICATIONS. WAIT THE PERIOD RECOMMENDED BY THE HERBICIDE MANUFACTURER PRIOR TO BED PREPARATION AND PLANTING.

- B. FILL PLANT BEDS UP TO FINISH GRADE/LEVEL WITH ADJACENT SIDEWALK PAVEMENT, IF REQUIRED, WITH UNCOMPACTED TOPSOIL IN ACCORDANCE WITH ITEM 2.03, D ABOVE.

- C. SPREAD A 4" THICK LAYER OF UNCOMPACTED COMPOST/ORGANIC MATTER IN ACCORDANCE WITH ITEM 2.03, E ABOVE OVER ALL BEDS TO BE PLANTED. TILL ORGANIC MATTER INTO THE BED TO AN APPROX. DEPTH OF 15".

3.03 EXCAVATION FOR PLANTS

- A. EXCAVATE TREE, SHRUB, PERENNIAL, AND ORNAMENTAL GRASS PITS WITH VERTICAL SIDES, TAKING CARE NOT TO DAMAGE ANY SUBSURFACE IMPROVEMENTS OR UTILITIES. LOOSEN HARD SUBSOIL ON BOTTOM AND SIDES OF EXCAVATION.

- B. REFER TO THE DRAWINGS AND DETAILS FOR PLANT LOCATIONS.

- C. USE SOIL REMOVED FROM EXCAVATION OF PLANTING PITS TO BACKFILL ALL TREES, SHRUBS, PERENNIALS, AND ORNAMENTAL GRASSES PLANTED IN BEDS PREPARED PER SECTION 3.02 OF THIS SPECIFICATION SECTION.

3.04 PLANTING INSTALLATION

- A. **SETTING OF PLANTS:**
- SET ALL TREES, SHRUB, PERENNIAL, AND ORNAMENTAL GRASS PLANTS IN PITS AS INDICATED ON DETAILS. EACH PLANT SHALL BE SET IN THE CENTER OF AN INDIVIDUAL PIT AND SET PLUMB AND STRAIGHT. ALL PLANTS SHALL BE PROPERLY FACED SO AS TO GIVE THE BEST EFFECT.
 - NO FILLING IS PERMITTED AROUND TRUNK OR STEMS. CUT OFF ALL BROKEN OR FRAYED ROOTS. NO PLANTING MIXTURE IN A FROZEN OR MUDDY CONDITION IS PERMITTED FOR BACKFILLING.
 - PLANTS WITH BROKEN ROOT BALLS WILL NOT BE ACCEPTED AND WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
 - PLANTS SHALL BE INSTALLED PLUMB. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ADJUSTMENT OF TREES AND PLANTS IF NOT INSTALLED PLUMB OR CENTERED IN PIT.

B. BURLAP AND CONTAINER REMOVAL:

- ALL TWINE SHALL BE REMOVED FROM THE BASE OF ALL PLANTS. CUT WIRE BASKETS FROM BALL AFTER SETTING IN PIT. REMOVE BURLAP FROM TOP AND SIDES OF BALL AND RETAIN ON BOTTOM. COMPLETELY REMOVE CONTAINERS FROM POTTED PLANTS; DO NOT DISTURB ROOT BALL.

C. BACKFILL:

- WHEN THE PLANT HAS BEEN PROPERLY SET, THE PIT SHALL BE BACKFILLED WITH SPECIFIED PLANTING SOIL. BACKFILL SHALL BE THOROUGHLY MIXING IN THE PROPER PROPORTIONS PRIOR TO BACKFILLING THE PIT.
- INCORPORATE FERTILIZER INTO BACKFILL MIX AT THE RATE RECOMMENDED IN THE SOIL ANALYSIS AND PER MANUFACTURER'S RECOMMENDATIONS.
- THE PIT SHALL BE LOOSELY FILLED UNTIL FULL. BACKFILL SHALL BE SETTLED BY WATERING AND REFILLED AS NECESSARY. DISH TOP OF BACKFILL TO ALLOW FOR MULCHING.
- NO FILLING IS PERMITTED AROUND TRUNKS OR STEMS. NO PLANTING MIXTURE IN A FROZEN OR MUDDY CONDITION IS PERMITTED FOR BACKFILLING.

D. WATERING OF ALL PLANTS:

- ONCE BACKFILLED, ALL PLANTS SHALL BE THOROUGHLY SOAKED TO THE DEPTH OF THE PIT EXCAVATION.
 - SUBSEQUENT WATERING SHALL BE PERFORMED BY THE LANDSCAPE CONTRACTOR UNTIL FINAL ACCEPTANCE. THE CONTRACTOR SHALL FURNISH WATER TO THE SITE, UNLESS THE CONTRACTOR MAKES ARRANGEMENTS WITH THE OWNER FOR WATER SUPPLY.

3.05 PLANT FINISHING

- A. **PRUNING:** PRUNING OF DECIDUOUS STOCK SHALL BE LIMITED TO REMOVAL OF DEAD AND BROKEN LIMBS AND CONFLICTING BRANCHES, AND TO ENHANCE THE PLANT'S NATURAL CHARACTER, IF NECESSARY.
- EXCESSIVELY PRUNED OR MISFORMED STOCK RESULTING FROM IMPROPER HANDLING OR PRUNING SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

- B. **WEED CONTROL:** SHALL BE DONE BY APPLYING APPROPRIATE HERBICIDE AT THE RATE SPECIFIED BY MANUFACTURER.

- C. **MULCHING:** MULCH ALL TREES, PLANT BEDS, AND RAISED PLANTERS TO THE DEPTHS SPECIFIED.

- D. **WATERING:** WATER ALL PLANTED MATERIAL THOROUGHLY, IMMEDIATELY AFTER PLANTING.

- E. **APPLYING ANTI-DESICCANT:** DEPENDENT ON THE TIME OF YEAR AND WEATHER, AND IF DIRECTED BY THE OWNER REPRESENTATIVE, USE A POWER SPRAY TO PROVIDE AN ADEQUATE FILM OVER TRUNKS, BRANCHES, STEMS, TWIGS AND FOLIAGE.

- IF DECIDUOUS TREES ARE MOVED IN FULL- LEAF, SPRAY WITH ANTI-DESICCANT AT NURSERY BEFORE MOVING AND AGAIN IN 2 WEEKS AFTER PLANTING.

- F. **GUYING AND STAKING:** TREES SHALL BE STAKED IMMEDIATELY AFTER PLANTING IF DIRECTED BY OWNER REPRESENTATIVE. ON B&B STOCK, STAKES SHALL NOT BE DRIVEN THROUGH BALL. STAKES SHALL BE FIRMLY DRIVEN INTO FIRM SOIL. (SEE PLANTING DETAILS ON DRAWING)

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO KEEP GUYING WIRES TIGHTENED WHILE CONTRACT AND GUARANTEE IS IN FORCE.

3.06 RAISED PLANTERS

- A. INSTALL A LAYER OF GEOTEXTILE FABRIC ON INSIDE BOTTOM OF RAISED PLANTERS PRIOR TO FILLING. CUT GEOTEXTILE FABRIC TO FIT BOTTOM OF PLANTER. USING A SHARP KNIFE, CUT A SLIT IN THE GEOTEXTILE FABRIC ALIGNING WITH EACH DRAINAGE HOLE IN THE PLANTER; SLIT IN GEOTEXTILE FABRIC SHALL BE APPROX. 1/2" IN LENGTH. REFER TO MISC. SITE ITEMS SPECIFICATIONS FOR RAISED PLANTERS.

- B. THOROUGHLY BLEND SOIL MIX COMPONENTS TOGETHER ON SITE (IF A-PRE-BLENDED SOIL MIX IS NOT USED) PRIOR TO FILLING PLANTERS. FILL PLANTERS WITH SOIL MIX TO A DEPTH THAT AFTER THE PLANTS ARE INSTALLED, THERE IS APPROX. A 2-1/2" DEPTH FROM THE TOP OF THE PLANTER TO THE SOIL SURFACE.

- A. INSTALL SPECIFIED PLANTS IN PLANTERS IN ACCORDANCE WITH ITEM 3.03 OF THIS SECTION.

- B. MULCH PLANTERS AFTER INSTALLATION OF PLANTS WITH A 1" THICK LAYER OF MULCH SPECIFIED IN THIS SECTION. MAINTAIN AN APPROX. DEPTH OF 1-1/2" FROM THE TOP OF THE PLANTER TO THE MULCH SURFACE.

3.07 CLEAN-UP AND PROTECTION

- A. DURING LANDSCAPE PREPARATION, INSTALLATION AND MAINTENANCE, KEEP PAVEMENTS DEBRIS FREE AND WORK AREA IN ORDERLY CONDITION. REMOVE ALL TAGS, LABELS, NURSERY STAKES AND TIES FROM PLANTS. REMOVE ALL EXCESS SOIL, DEBRIS AND SURPLUS MATERIAL ATTRIBUTED TO LANDSCAPE OPERATIONS, AND LEAVE PREMISES IN NEAT, CLEAN CONDITION.

- B. PROTECT LANDSCAPE WORK AND MATERIALS FROM DAMAGE DUE TO LANDSCAPE OPERATIONS, OPERATIONS BY OTHER CONTRACTORS AND TRADES AND TRESPASSERS. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS. TREAT, REPAIR OR REPLACE DAMAGED LANDSCAPE WORK AS DIRECTED.

3.08 FINAL INSPECTION OF LANDSCAPE WORK

- A. WHEN LANDSCAPE WORK IS COMPLETED, THE OWNER'S REPRESENTATIVE WILL, UPON REQUEST, MAKE AN INSPECTION TO DETERMINE ACCEPTABILITY.

- B. WHERE INSPECTED LANDSCAPE WORK DOES NOT COMPLY WITH REQUIREMENTS, REPLACE REJECTED WORK AND CONTINUE SPECIFIED MAINTENANCE UNTIL REINSPECTED BY OWNER'S REPRESENTATIVE AND FOUND TO BE ACCEPTABLE. REMOVE REJECTED PLANTS AND MATERIALS PROMPTLY FROM PROJECT SITE.

- C. **NOTE:** CONTRACTOR IS RESPONSIBLE FOR WATERING PLANTS AS REQUIRED TO MAINTAIN OPTIMUM PLANT HEALTH.

3.09 MAINTENANCE OF PLANTS DURING THE ONE YEAR GUARANTEE PERIOD

- A. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN ALL PLANTINGS FOR ONE YEAR (BEGINNING AT THE DATE OF ACCEPTANCE OF ALL PLANTINGS). THIS ONE-YEAR PERIOD SHALL COINCIDE WITH THE GUARANTEE PERIOD.

- B. DURING THE GUARANTEE PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING, FERTILIZING, WEEDING, CULTIVATING, PRUNING, MULCHING, SPRAYING, TRIMMING, PROTECTING FROM WIND, STAKING (OR RESTAKING), RESETTling, REPLACING OR OTHER PROCEDURES NECESSARY TO SUSTAIN ALL THE PLANT MATERIALS IN A HEALTHY AND THRIVING CONDITION. ADDITIONAL WATERINGS OF PLANT MATERIALS SHALL BE PROVIDED BY THE LANDSCAPE CONTRACTOR AS REQUIRED TO MAINTAIN OPTIMUM PLANT HEALTH.

- C. THE CONTRACTOR, ON A MONTHLY BASIS DURING THE GUARANTEE PERIOD, SHALL SUBMIT TO THE OWNER'S REPRESENTATIVE A WRITTEN SUMMARY OF ALL INSPECTION AND MAINTENANCE ACTIVITIES.

3.10 GUARANTEE AND REPLACEMENT OF PLANT MATERIAL

- A. ALL PLANTS SHALL BE GUARANTEED BY THIS CONTRACTOR FOR A PERIOD OF ONE (1) YEAR FOLLOWING ACCEPTANCE. THE CONTRACTOR SHALL MAKE A MINIMUM MONTHLY CHECK OF THE PROJECT DURING THIS ONE-YEAR GUARANTEE PERIOD AND ALL DEAD PLANTS OR PLANTS NOT IN A VIGOROUS, THRIVING CONDITION SHALL BE IMMEDIATELY REPLACED BY THIS CONTRACTOR AT NO EXPENSE TO THE OWNER.

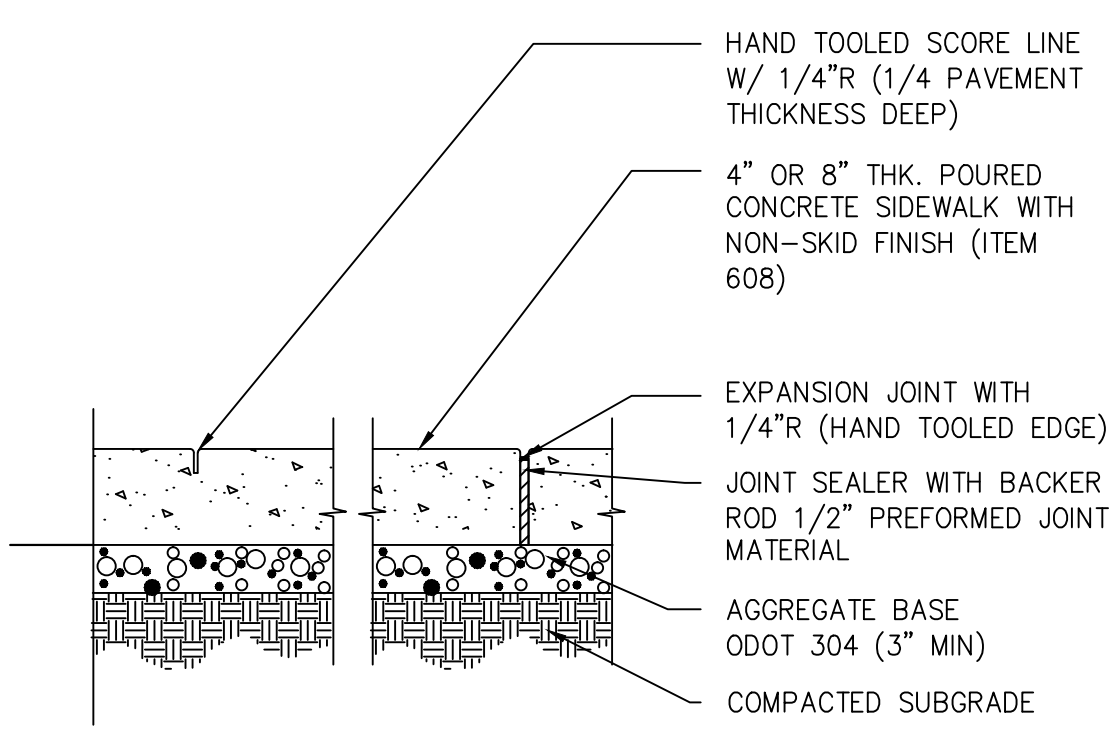
- B. SHOULD REPLACEMENT FALL DUE DURING A NON-PLANTING SEASON THE CONTRACTOR MAY REQUEST THE OWNER'S PERMISSION TO DEFER THE PLANTING UNTIL THE PROPER SEASON. HOWEVER, THE CONTRACTOR WILL BE REQUIRED TO IMMEDIATELY REMOVE AND DISPOSE OF THE DEAD PLANTS, INCLUDING ALL ROOTS. THE HOLE SHALL BE BACKFILLED PROPERLY WITH TOPSOIL TO FINISH GRADE UNTIL PROPER PLANTING SEASON OCCURS.

- C. PLANTS USED FOR REPLACEMENTS SHALL BE OF THE SAME KIND AND SIZE ORIGINALLY SPECIFIED, AND THEY SHALL BE PLANTED, MULCHED AND GUARANTEED AS ORIGINALLY SPECIFIED. ONLY ONE REPLACEMENT OF EACH PLANT WILL BE REQUIRED EXCEPT FOR LOSSES OF REPLACEMENTS DUE TO FAILURE TO COMPLY WITH SPECIFIED REQUIREMENTS.

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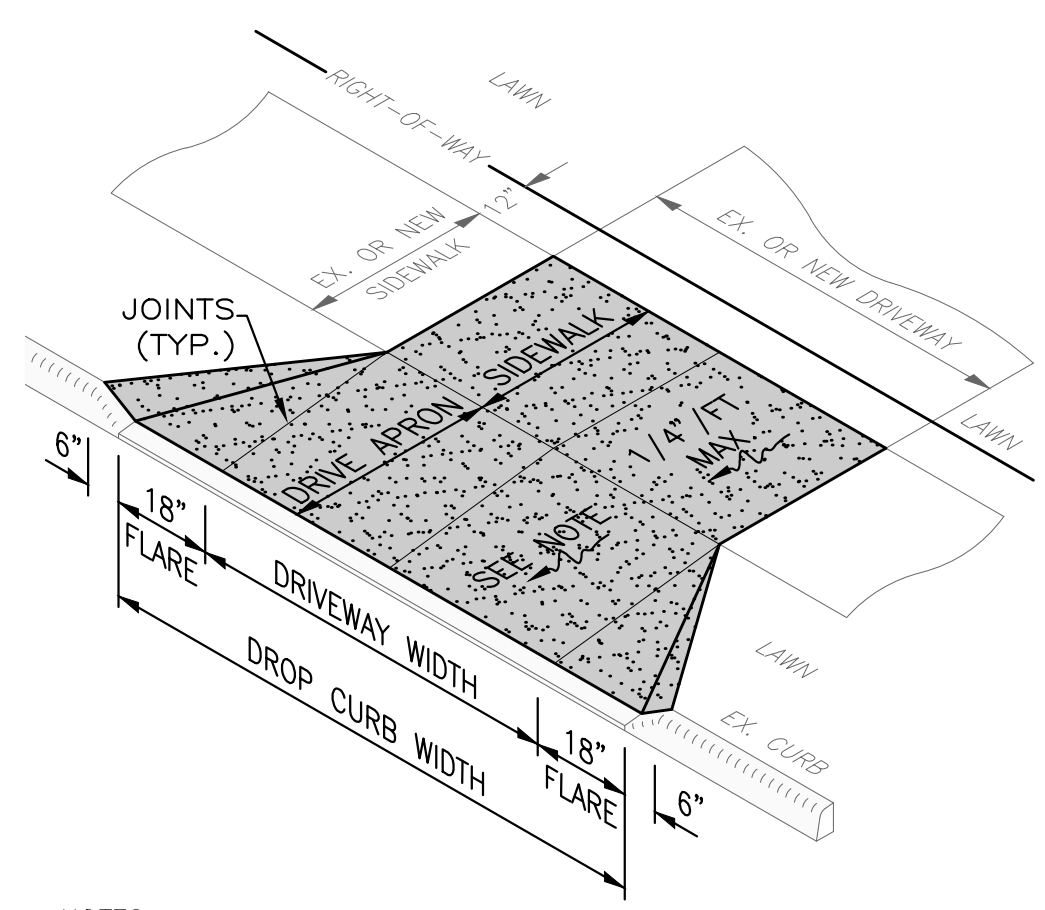
LANDSCAPE PLAN

CUY-SR 010 - 6.00
STREETSCAPE



- NOTES:**
- 1) FINISH CONCRETE SIDEWALK WITH A MEDIUM BROOM FINISH PERPENDICULAR TO PEDESTRIAN TRAFFIC.
 - 2) ALL HAND TOOLED JOINTS AND EDGES SHALL BE FINISHED AFTER PANEL INTERIOR TEXTURE HAS BEEN APPLIED (WINDOW PANE EFFECT).
 - 3) 1/2" PREFORMED EXPANSION JOINT REQUIRED ADJACENT TO ALL STRUCTURES.
 - 4) USE 8" CONCRETE AT DRIVEWAYS AND PEDESTRIAN RAMPS (SEE PROPOSED LAYOUT PLANS).
 - 5) MONUMENT BOXES, UTILITY VALVES AND BOXES LOCATED IN THE PROPOSED WALK AREA TO BE ADJUSTED TO GRADE. ADJUSTMENT TO GRADE FOR THESE ITEMS TO BE INCIDENTAL TO 4" CONCRETE WALK OR 8" CONCRETE WALK.

1 CONCRETE SIDEWALK/DRIVE
SCALE: NONE



- NOTES:**
- 1) THE DROP CURB SHALL BE HAND FORMED AT THE TIME THE CONCRETE CURB IS POURED. SEE LAYOUT PLAN FOR ACTUAL DROP CURB WIDTH.
 - 2) THIS DETAIL SHOWS A DRIVE APRON WITH 24" APRON FLARES. SEE LAYOUT PLAN FOR ACTUAL FLARE WIDTHS.
 - 3) JOINTS SHALL BE PROVIDED AT THE NORMAL FACE AND BACK OF SIDEWALK LOCATION.
 - 4) MINIMUM DRIVE APRON SLOPE PERMITTED IS 1/4"/FT. (2.08%) AND MAXIMUM IS 1"/FT. (8.33%). SEE GRADING PLAN FOR ACTUAL SLOPES AND ELEVATIONS.

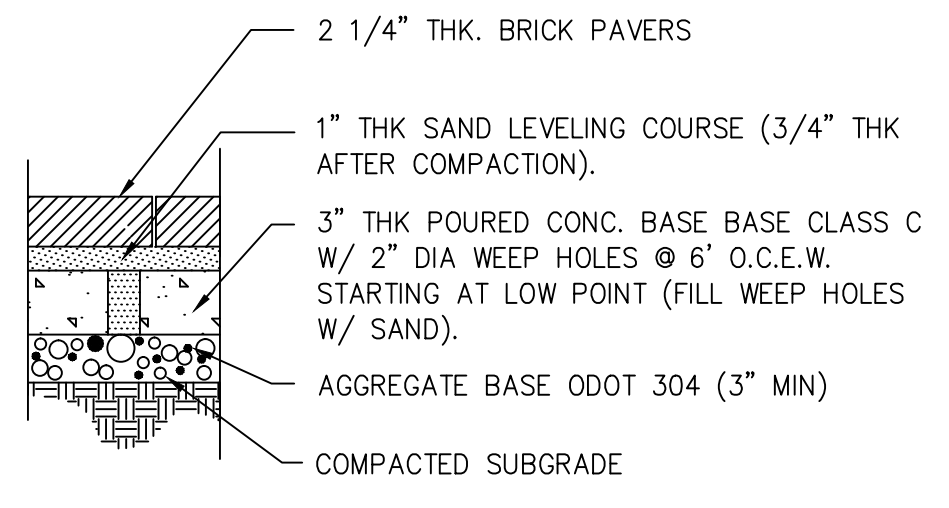
3 CONCRETE DRIVE APRON DETAIL
SCALE: NONE

EXISTING LEGEND

- (A) AGGREGATE BASE
- (B) 9± CONCRETE BASE
- (C) BRICK PAVER
- (D) 3"-5" ASPHALT CONCRETE

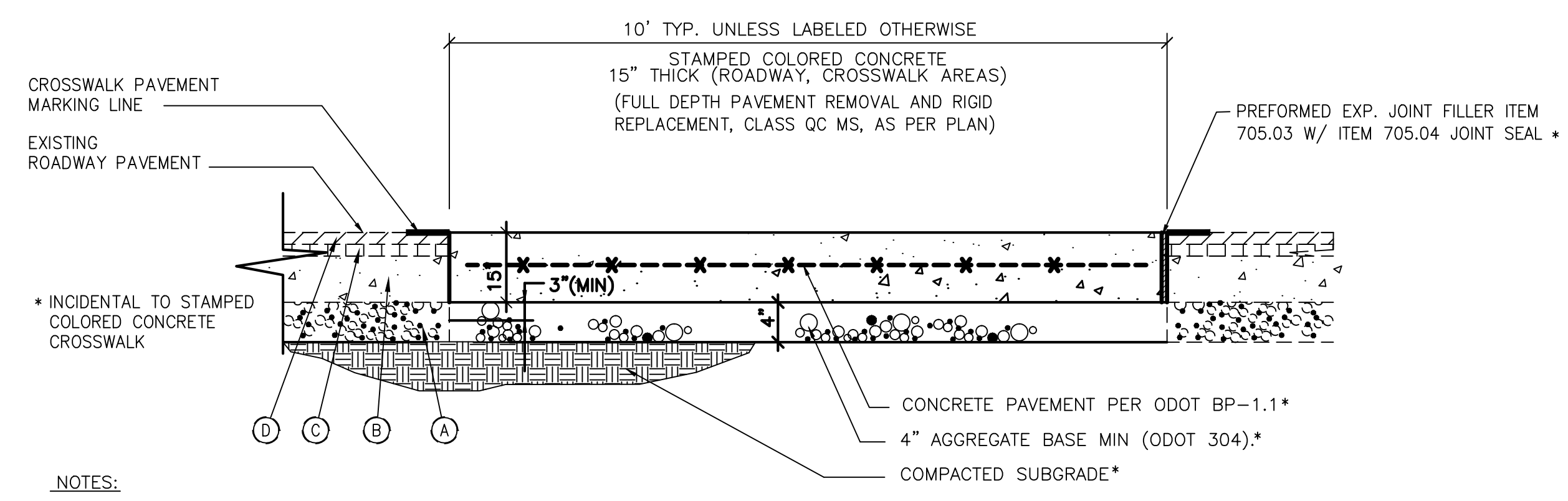
CROSSWALK W/ COLORED, STAMPED COLORED CONCRETE: RUNNING BOND PATTERN WITH BRICK HEADER COURSE EACH SIDE

LONGITUDINAL CONSTRUCTION JOINT PER ODOT BP-2.1. SEE LAYOUT PLAN FOR APPROXIMATE LOCATION. THE INTENT IS TO MATCH EXISTING JOINTS.



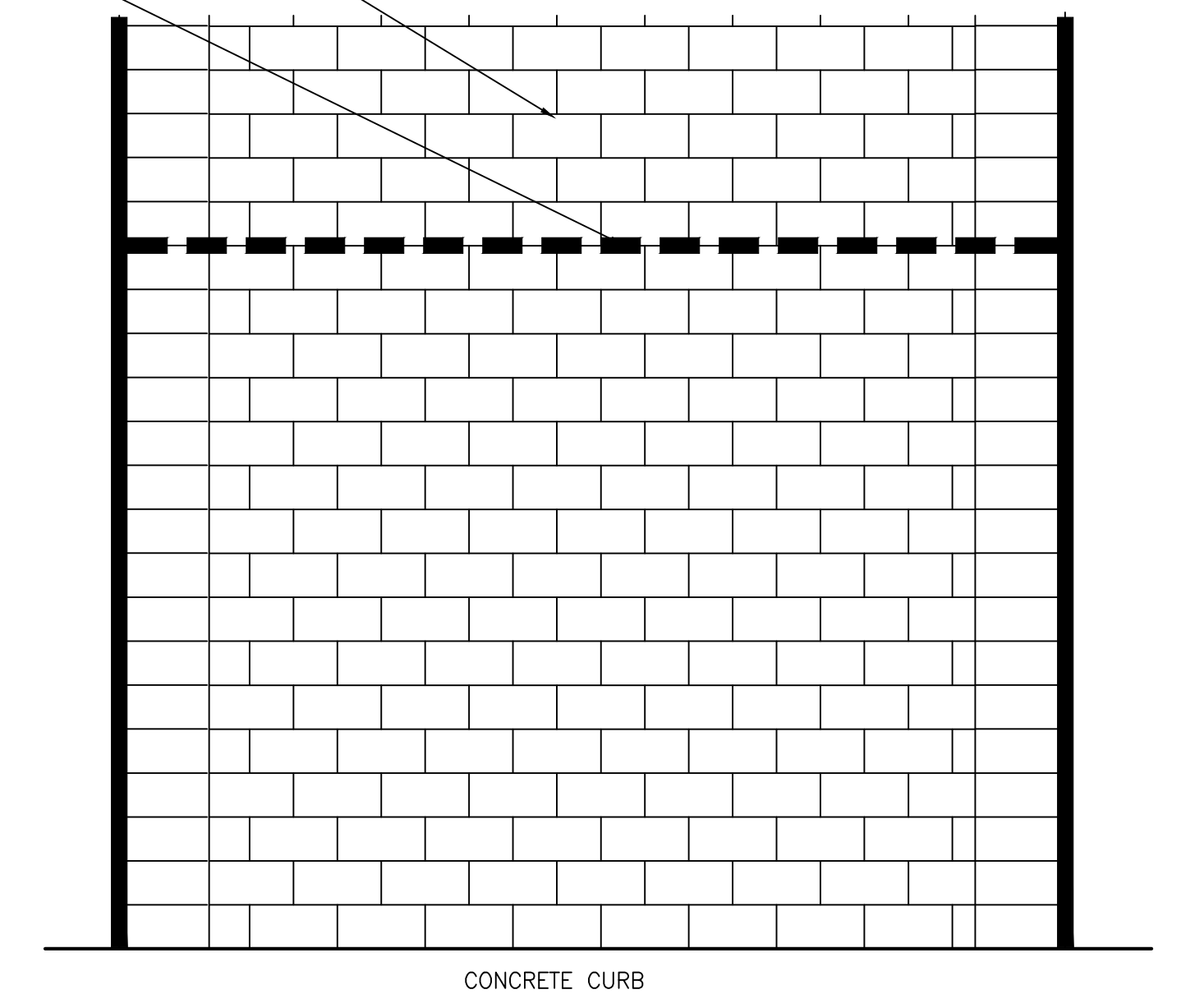
- NOTES:**
- 1) PAVERS SHALL BE PLACED IN PATTERNS AS INDICATED ON THE DRAWINGS AND TO MATCH EXISTING, WITH HAND TIGHT JOINTS NOT TO EXCEED 1/8" WIDE (MIN 1/16"). CONTRACTOR IS REQUIRED TO SAW CUT PAVERS AS NEEDED TO MAINTAIN ABOVE JOINT TOLERANCES.
 - 2) SWEEP JOINTS WITH SAND MIXED WITH JOINT STABILIZER.
 - 3) NO FILLERS SHALL BE USED TO FILL WITH EXCESSIVE WIDTH. PAVERS SHALL BE RESET AND SAW CUT AS REQUIRED TO ELIMINATE EXCESSIVE JOINT WIDTHS.

2 BRICK SIDEWALK
RESET BRICK SIDEWALK
SCALE: NONE



- NOTES:**
1. THE CONTRACTOR INSTALLING THE STAMPED CONCRETE SYSTEM TO CONFIRM JOINT LOCATION WITH ENGINEER. JOINTS SHALL BE AS UNOBTUSIVE AS POSSIBLE AND SHALL FIT IN WITH THE STAMPED CONCRETE PATTERN.

4 STAMPED COLORED CONCRETE CROSSWALK
SCALE: NONE



PLAN VIEW

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