

GOLDEN GATE BEAUTIFICATION M.S.T.U. CORONADO PARKWAY & HUNTER BOULEVARD LANDSCAPE & IRRIGATION PLANS

COMPONENTS OF CONTRACT PLANS SET

MEDIAN IMPROVEMENT PLANS
LANDSCAPE & IRRIGATION PLANS

A DETAILED INDEX APPEARS ON THE
KEY SHEET OF EACH COMPONENT

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Collier County Project # 4500107120
Project Preparation Date: June 2010
Coronado Parkway
Design Speed/Posted Speed: 35 Mph
Hunter Boulevard
Design Speed/Posted Speed: 25 Mph

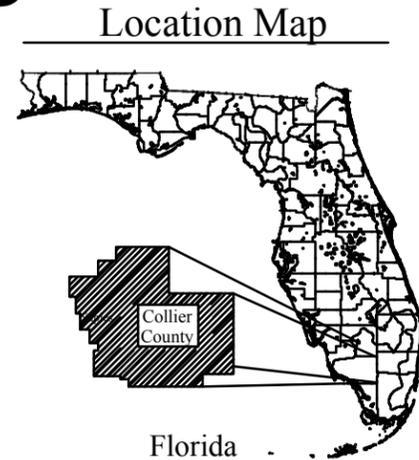
Prepared for:
Collier County
Board of County Commissioners
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Coordinating
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Landscape Architecture
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Naples, Florida 34113
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GENERAL PROJECT NOTES:
THESE PLANS HAVE BEEN PREPARED IN
ACCORDANCE WITH AND ARE GOVERNED BY
THE STATE OF FLORIDA, DEPARTMENT OF
TRANSPORTATION, ROADWAY AND TRAFFIC
DESIGN STANDARDS (BOOKLET DATED 2010),
AND STANDARD SPECIFICATIONS FOR ROAD
AND BRIDGE CONSTRUCTION DATED 2010,
AS AMENDED BY CONTRACT DOCUMENTS
HTTP://www.Dot.state.Fl.us/mapandpublications/

ATTENTION IS DIRECTED TO THE FACT THAT
THESE PLANS MAY HAVE BEEN ALTERED IN
SIZE BY REPRODUCTION. THIS MUST BE
CONSIDERED WHEN OBTAINING SCALED DATA.



UTILITY CONTACT REFERENCES:

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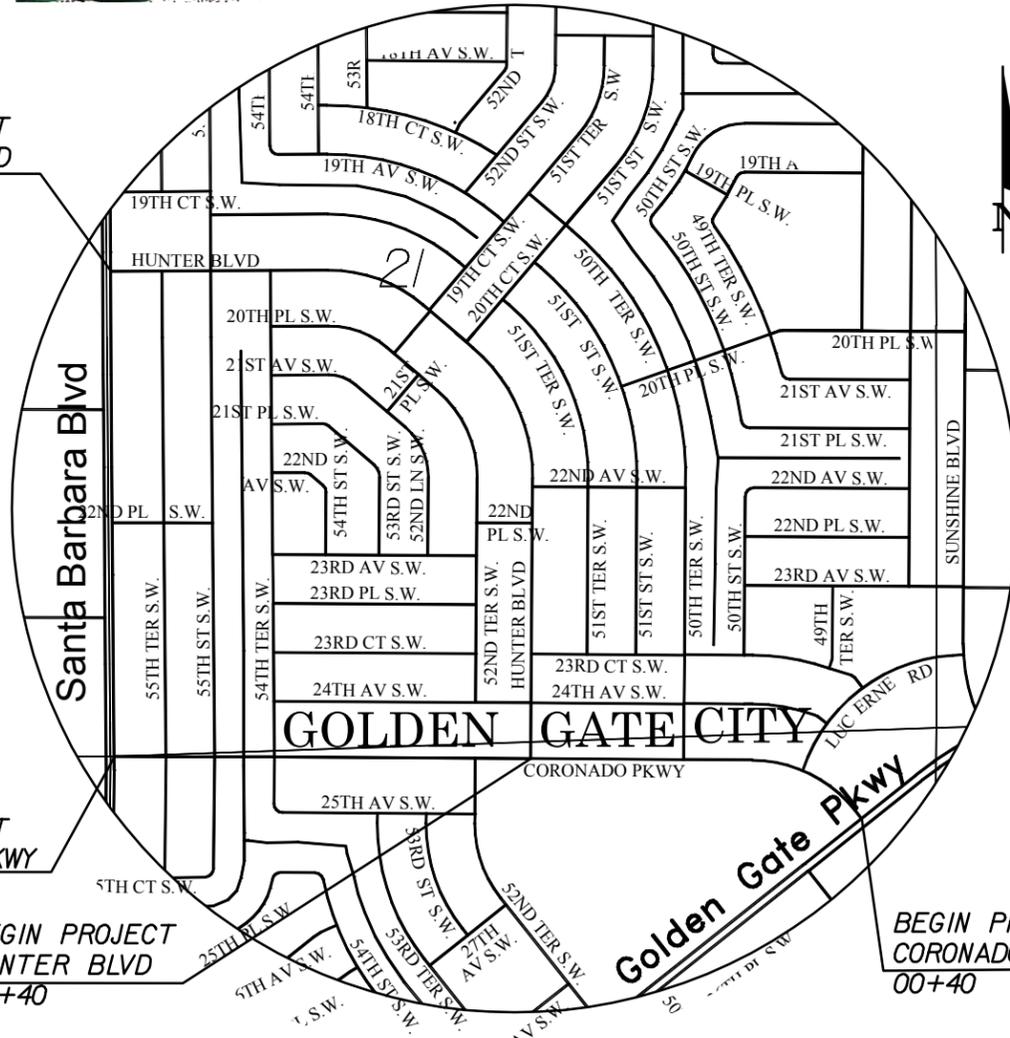
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PLANS APPROVED BY: _____ DATE: _____
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MICHAEL A. MCGEE, LANDSCAPE ARCHITECT, P.A., INC.
D.B.A. MCGEE & ASSOCIATES
FL. L.C. No. 000098 / L.A. No. 0000864



END PROJECT
HUNTER BLVD
51+65

END PROJECT
CORONADO PKWY
49+60

BEGIN PROJECT
HUNTER BLVD
00+40

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CORONADO PKWY
00+40



PROJECT MANAGER : Darryl Richard, RLA, MSTU Project Manager

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10	LD-1

TYPICAL LANDSCAPE DEVELOPMENT NOTES & INSTRUCTIONS TO BIDDERS:

- LANDSCAPE INSTALLATION SHALL BE IN GENERAL COMPLIANCE WITH THE COLLIER COUNTY RIGHT-OF-WAY ORDINANCE "CONSTRUCTION STANDARDS HANDBOOK AND FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (2010), AS APPLICABLE (I.E., SECTION 580 LANDSCAPING, SECTION 102 MAINTENANCE OF TRAFFIC, SECTION 162 FINISH SOIL LAYER, SECTION 987 FINISH SOIL LAYER MATERIALS, SECTION 575 SODDING, AS WELL AS THE FDOT "DESIGN STANDARDS" (2010) INDEXES CURRENT EDITION #544, INDEX #546 WITH VARIANCE TO SPECIAL AREAS LIMITED TO GROUND COVERS" REQUIREMENTS OF ONLY 18" HEIGHT GROUND COVERS MAXIMUM, APPLICABLE 600 SERIES, AND 1721. MEDIAN HORIZONTAL CLEARANCES IN ACCORDANCE WITH FDOT "DESIGN STANDARDS" INDEX 700 AND MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION, AND MAINTENANCE FOR STREETS AND HIGHWAYS (2003) CLEAR ZONES TABLE 3-12.
- CONTRACTORS ARE ADVISED TO REFER TO THE SPECIFICATIONS, CONTRACT DOCUMENTS, AND PLAN SHEETS FOR A MORE DETAILED DISCLOSURE OF PERFORMANCE STANDARDS AND REQUIREMENTS.
- ANY PRODUCTS SPECIFIED OR REFERRED TO WITHIN THESE PLANS AND SPECIFICATIONS BY PRODUCT AND/OR MANUFACTURER'S NAME AND SPECIFICATIONS IS PROVIDED TO SET A LOCAL STANDARD. ALL PRODUCTS AND/OR MANUFACTURERS ARE SUBJECT TO THE " OR APPROVED EQUAL" DESIGNATION MAKING ALL PRODUCTS OR MANUFACTURERS ELIGIBLE FOR BIDDING PROVIDED THEY ARE EQUAL TO THE SPECIFIED PRODUCT OR MANUFACTURER.
- THE CONTRACTOR IS CAUTIONED TO BE AWARE OF UNDERGROUND UTILITIES. PRIOR TO EXCAVATION, THE CONTRACTOR SHALL CONTACT SUNSHINE ONE AND OTHER UTILITY AGENCIES FOR LOCATION OF ALL UTILITIES PER FLORIDA STATUE 553.851 (1979) OR AS AMENDED BEFORE BEGINNING WORK.
- ALL SOD SHALL BE 50% SAND GROWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINISH GRADING IN SOD AREAS, HAND RAKE PRIOR TO INSTALLING SOD. NEW SOD AREAS ABUTTING EXISTING TURF AREAS SHALL HAVE THE GRADE ADJUSTED PRIOR TO LAYING THE SOD SO THAT THE NEW SOD BLENDS INTO THE EXISTING TURF EVENLY. STAGGER JOINTS AND MAKE TIGHT. ALL SOD ROLLED IMMEDIATELY AFTER INSTALLATION.
- CONTRACTOR SHALL APPLY MINIMUM 2 APPLICATIONS OF FOLIAGE CONTACT HERBICIDE ON EXISTING TURF WHERE REQUIRED TO REMOVED FOR NEW PLANTINGS OR TURF. HERBICIDE SHALL BE SPRAYED PRIOR TO COMMENCING ANY GRADING OPERATIONS. CONTRACTOR SHALL REVIEW TURF KILL WITH LANDSCAPE ARCHITECT OR OWNER REPRESENTATIVE FOR APPROVAL. ALL HERBICIDE MUST BE APPLIED BY LICENSED APPLICATORS PER MANUFACTURER'S RECOMMENDED RATES AND INSTRUCTIONS. POST ON-SITE ALL APPLICATIONS.
- CONTRACTOR SHALL INSTALL ALL SOIL AS SPECIFIED IN THE PLANS AND PROVIDE GRADING TO BLEND INTO EXISTING GRADES. SOIL SHALL BE TOPSOIL AS SPECIFIED IN THE PLAN NOTES. SUBMIT SOIL SAMPLES AND SOIL ANALYSIS TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL. ALL MOUNDING SOIL AND EXISTING SOIL AREAS SHALL BE GRADED TO PROVIDE FOR SMOOTH UNIFORM GRADE. IF APPLICABLE, NO SOIL SHALL BE ADDED WITHIN THE CANOPY LIMITS OF EXISTING TREES UNLESS APPROVED BY THE LANDSCAPE ARCHITECT.
- ALL EXCESS SOIL, HORTICULTURAL OR CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SITE PRIOR TO LANDSCAPE INSTALLATION AND BECOMES THE PROPERTY OF THE CONTRACTOR DISPOSED OF LAWFULLY.
- MULCH NEW PLANTINGS WITH 3" DEPTH, PER INDEX 544, (OR AS NOTED OTHERWISE ON PLANS), OF SPECIFIED RECYCLED MULCH.
- THE LANDSCAPE CONTRACTOR SHALL HAND WATER ALL PLANT MATERIAL DAILY UNTIL SUBSTANTIAL COMPLETION AND ACCEPTANCE BY THE OWNER, UNLESS IRRIGATION SYSTEM IS OPERATIONAL PROVIDING PROPER WATERING, IN ADDITION FOR THE FIRST 90 DAYS OF THE ESTABLISHMENT PERIOD ALL LARGE TREES AND PALMS SHALL BE ADDITIONALLY HAND WATERED BY FILLING THE TREE WATER RING TO REMOVE POTENTIAL AIR POCKETS AND PROVIDE SETTLEMENT OF THE PLANTING BACKFILL. THE LANDSCAPE CONTRACTOR SHALL BE LIABLE FOR REPLACING TREES AND SHRUBS EXPERIENCING TRANSPLANT SHOCK DUE TO LACK OF WATER AT ANY TIME DURING THE CONTRACT PERIOD.
- ALL TREES AND PALMS PLANTED SINGULARLY OR GROUPED WITHIN SOD AREAS SHALL HAVE A 4 FOOT MINIMUM RADIUS OF MULCH RING OR BED AROUND OR AWAY FROM THE PLANT TRUNKS. TREE OR PALM STAKES SHALL BE PLACED WITHIN MULCH RINGS OR BEDS.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL EXISTING SOD, DEBRIS, WEEDS, AND HAND GRADING IN PREPARATION FOR ANY PLANTINGS.
- CONTRACTOR SHALL REPAIR ANY AREAS DISTURBED DURING THE COMPLETION OF WORK INCLUDING RE-SODDING OF IRRIGATION TRENCHES AND PLANTING PITS RESULTING FROM MATERIAL RELOCATIONS.
- ALL PLANT MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO PURCHASE AND/ OR DELIVERY TO THE SITE BY THE CONTRACTOR. CONTRACTOR SHALL STAKE ALL TREES AS PER FDOT INDEX 544 DETAILS.
- ALL TREE RINGS EVIDENCING WEED GROWTH SHALL HAVE THE WEEDS HAND REMOVED. NO HERBICIDE SHALL BE USED WITHIN THE MULCH RING OF ANY TREE OR PALM SPECIES. TREE RINGS AND ALL BEDS ARE TO REMAIN WEED FREE UNTIL FINAL OBSERVATION FOR ACCEPTANCE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL DISTURBED LANDSCAPE OR NATURAL VEGETATION AREAS CAUSED BY THE CONSTRUCTION PROCESS. THIS SHALL INCLUDE ALL TURF AREAS RESTORED TO A SMOOTH UNIFORM PRE-EXISTING CONDITION SURFACE.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS NOT PROVIDED FOR BY THE OWNER PRIOR TO COMMENCING ANY WORK.

- THE FIRST EMERGING SURFACE ROOTS OF THE PLANT ROOT BALL SHALL BE AT FINISHED GRADE AND VISIBLE UNDER THE MULCH AT FINAL OBSERVATION.
- MULCH, PLANTS, SEEDING, SOIL OR SOD QUANTITIES, AS SPECIFIED IN THE PLAN MATERIAL SCHEDULES SHALL BE CONSIDERED ESTIMATES ONLY, SUBJECT TO FIELD COUNTS AND MEASUREMENTS BASED UPON CONTRACTED UNIT PRICES, UNLESS BID AS A LUMP SUM BID ITEM.
- PLANTING BEDS OR AREAS CONTAINING LIME ROCK OR OTHERWISE UNSUITABLE PLANT GROWING MATERIAL SHALL HAVE THE MATERIAL REMOVED PER INDEX 544 PLANTING PIT DEPTHS AND WIDTHS. UNSUITABLE MATERIAL SHALL BE REPLACED WITH A TOPSOIL AS SPECIFIED OR OTHER SPECIFIED GROWING QUALITY PLANTING SOIL BEFORE PLANT MATERIAL IS INSTALLED. EXISTING SOIL BELOW THE PLANTING PIT DEPTH SHALL BE LOOSENER OR SCARIFIED AN ADDITIONAL 6 INCH MINIMUM DEPTH SO TO PROVIDE FOR PROPER PERCOLATION OF WATER PRIOR TO BACKFILLING. UPON SCARIFYING EXISTING MATERIAL 6 INCHES BELOW PLANT PIT DEPTH THE PIT SHALL BE TESTED FOR PERCOLATION AND IF IT DOES NOT DRAIN THEN ADDITIONAL MATERIAL MUST BE REMOVED OR A SUB DRAIN SYSTEM INSTALLED AROUND THE PLANTING PIT TO REMOVE STANDING WATER.
- THE CONTRACTOR SHALL PROVIDE IN ADDITION TO CONTRACT DOCUMENTS REQUIREMENTS THE LANDSCAPE ARCHITECT WITH 3 COPIES OF "AS-BUILT/ RECORD DRAWINGS" TO I INCLUDE ANY CHANGES TO THE APPROVED CONSTRUCTION OR PERMITTED PLANS.
- THE CONSTRUCTION BID PRICES FOR ITEMS THAT REQUIRE DEMOLITION AND/OR REMOVAL OF EXISTING MATERIALS SHALL INCLUDE THE COST OF DEMOLITION AND PROPER DISPOSAL OF THE EXISTING MATERIALS, SUCH AS PLANTINGS, ASPHALT, LIMESTONE, FILL DIRT, AND CONCRETE.
- THE CONSTRUCTION BID PRICES SHALL INCLUDE PROVIDING INSPECTION AND TESTING SERVICES AND CERTIFICATIONS OF DENSITY AND CONCRETE TESTING PERFORMED BY AN INDEPENDENT, CERTIFIED AND FDOT APPROVED LABORATORY OR TESTING FIRM.
- ALL PRODUCTS OR MATERIALS SUPPLIED FOR THE PROJECT WILL HAVE TO HAVE SAMPLES SUBMITTED FOR APPROVAL AS DIRECTED BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE.
- ALL LARGE TREES AND PALM SHALL BE INSTALLED SO AS TO TRY TO MAINTAIN A 5-FOOT VERTICAL AND HORIZONTAL SEPARATION, OR A MINIMUM 2.5 FOOT SEPARATION IF APPROVED BY THE OWNER, FROM EXISTING UNDER GROUND UTILITIES. ALL OVERHEAD UTILITIES SHALL HAVE A PLANTING SEPARATION AS PER THE UTILITY AGENCY'S REQUIREMENTS OR RECOMMENDATIONS.
- IT IS NOT THE PURPOSE OF THESE PLANS TO SHOW ALL DETAILS OF INSTALLATION OR CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO BID SO TO FURNISH ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE 100 PERCENT AND/OR OPERATING INSTALLATION OF ALL THE LANDSCAPE AND IRRIGATION ITEMS OR SYSTEMS INDICATED IN THE PLANS AND SPECIFICATIONS.
- ALL DIRECTIONAL BORING OF IRRIGATION CONDUIT/SLEEVEING SHALL COMPLY WITH THE FDOT " UTILITY ACCOMMODATIONS MANUAL" CURRENT EDITION OR FDOT DISTRICT POLICY THAT EXIST AT THE TIME OF CONSTRUCTION.
- AN AUTOMATIC IRRIGATION SYSTEM PROVIDING 100 PERCENT COVERAGE OF PLANTING AND/OR TURF AREAS, AS CALLED FOR IN THE PLANS SHALL BE INSTALLED. IRRIGATION SYSTEM TO INCLUDE INSTALLATION OF AN AUTOMATIC RAIN SHUT-OFF SWITCH.
- SODDING AND/OR SEEDING OF IRRIGATION PIPE TRENCHES ALONG THE RIGHTS-OF-WAY SHALL BE INCLUDED IN THE IRRIGATION PIPING INSTALLATION COST.
- IF PROPOSED OR EXISTING VEGETATION OBSTRUCTS THE VISIBILITY OF THE EXISTING SIGNS IN THE MEDIAN THE CONTRACTOR IS TO RELOCATE THE SIGNS IN ACCORDANCE WITH MUTCD SPECIFICATIONS AND AS APPROVED BY THE DESIGN PROFESSIONAL. RELOCATED SIGNS MUST BE COORDINATED WITH AND APPROVED BY THE COUNTY. THE LANDSCAPE CONTRACTOR WILL BE REQUIRED TO RELOCATE SIGNS AND/OR VEGETATION TO ASSURE THAT THE VISIBILITY OF TRAFFIC CONTROL SIGNS ARE MAINTAINED. RELOCATION OF SIGNS MUST BE COORDINATED WITH AND APPROVED BY THE COUNTY.
- THE LANDSCAPE ARCHITECT Michael A. McGee, Michael A. McGee Landscape Architect PA (d.b.a. MCGEE & ASSOCIATES IS NOT RESPONSIBLE FOR THE MEANS AND METHODS OF INSTALLATION AND/OR CONSTRUCTION BY THE CONTRACTOR OR SUBCONTRACTORS.

GRADES AND STANDARDS

- ALL NEW PLANT MATERIALS SHALL CONFORM TO THE STANDARDS FOR FLORIDA No. 1 GRADE OR BETTER AS ESTABLISHED IN THE STATE OF FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES "GRADES AND STANDARDS FOR NURSERY PLANTS" LATEST EDITION.
- ALL PLANTS NOT LISTED IN GRADES AND STANDARDS FOR NURSERY PLANTS, PUBLISHED BY THE DIVISION OF PLANT INDUSTRY, SHALL CONFORM TO A FLORIDA NO. 1 AS TO: 1. HEALTH AND VITALITY; 2. CONDITION OF FOLIAGE; 3. ROOT SYSTEM, 4. FREEDOM FROM PEST OR MECHANICAL DAMAGE, 5. HEAVILY BRANCHED AND DENSELY FOLIATED ACCORDING TO THE ACCEPTED NORMAL SHAPE OF THE SPECIES.
- EXCESSIVELY ROOTBOUND AS INDICATED IN THE GRADES AND STANDARDS SHALL ALSO MEAN NO CIRCLING OR GIRDLING ROOTS SHALL BE PRESENT IN THE ROOTBALL WHETHER PLANTS ARE CONTAINER GROWN OR FIELD GROWN WHEN DELIVERED TO THE PROJECT SITE.

GENERAL LANDSCAPE DEVELOPMENT NOTES:

- THESE LANDSCAPE AND IRRIGATION PLANS HAVE BEEN DEVELOPED IN GENERAL COMPLIANCE WITH THE COLLIER COUNTY STREETScape MASTER PLAN'S GENERAL INTENT AND IN CONJUNCTION WITH THE COLLIER COUNTY STAFF AND OTHER APPLICABLE F.D.O.T STANDARDS, CODES AND ORDINANCES GOVERNING ROADWAY BEAUTIFICATION PROJECTS.

LANDSCAPE MAINTENANCE REQUIREMENTS

- CONTRACTOR SHALL PROVIDE MAINTENANCE AND WARRANTY SERVICES PER THE "PLANT ESTABLISHMENT PERIOD AND/OR COLLIER COUNTY ANNUAL MAINTENANCE UNTIL ACCEPTANCE BY THE COUNTY.
- THE SITE POST INSTALLATION MAINTENANCE PROGRAM SHALL UTILIZES XERISCAPE PRINCIPLES AND PROPER HORTICULTURAL MAINTENANCE SERVICES PER ACCEPTED CURRENT INDUSTRY STANDARDS.
- CANOPY TREE OR PALM STAKING AND/OR GUYING SHALL BE REMOVED WITHIN 6 TO 8 MONTHS AFTER INSTALLATION BASED UPON THE STABILITY OF THE TREE OR PALM.
- OWNER SHALL PROVIDE CONTINUOUS PROPER HORTICULTURAL MAINTENANCE OF THE PROPOSED AND/OR EXISTING LANDSCAPE AND IRRIGATION PLAN ELEMENTS. ALL PROPOSED AND/OR PRESERVED LANDSCAPING SHOWN ON THESE PLANS REQUIRES CONTINUOUS PROPER HORTICULTURAL MAINTENANCE SERVICES TO BE PROVIDED BY THE OWNER OR OWNER'S REPRESENTATIVE. THIS IS REQUIRED FOR PROPER PLANT ESTABLISHMENT, PROPER OR CONTROLLED GROWTH OF THE ABOVE GROUND FOLIAGE AND UNDERGROUND ROOT SYSTEM.
- LANDSCAPE PROJECT MAINTENANCE SHALL INCLUDE THE FOLIAGE PRUNING, ROOT PRUNING AND/OR REMOVAL OF PLANT MATERIALS ADJACENT TO ROADWAYS, PARKING AREAS, BIKE PATHWAYS AND SIDEWALKS, SO TO KEEP ANY LIMITS OF CLEAR SIGHT WINDOWS OPEN PER F.D.O.T. INDEX 546, TO ENSURE FOR PROPER FOLIAGE HEIGHTS AND NO PAVEMENT LIFTING FROM ROOT SYSTEMS.
- LANDSCAPING SHALL BE MAINTAINED AND/OR ADJUSTED FROM TIME OF PLANTING TO MATURITY TO AT NO TIME PERMIT AN ADVERSE AFFECT ON THE VISIBILITY ABOVE GROUND OF ANY AND ALL TRAFFIC CONTROL DEVICES (SUCH AS BUT NOT LIMITED TO TRAFFIC SIGNALIZATION, SIGNAGE, ETC.) NOR THE UNDER GROUND WIRING RUNS AND/OR PULL-BOXES RELEVANT TO SAME AND THOSE FOR TRAFFIC STREET LIGHTING.
- TREE FOLIAGE, SHRUBS AND GROUND COVERS LOCATED WITHIN THE LIMITS OF CLEAR SIGHT AREAS FREE OF SIGHT OBSTRUCTIONS AS SHOWN ON THE PLANS SHALL BE MAINTAINED CONTINUOUSLY TO COMPLY WITH THE SIGHT WINDOW DETAIL REQUIREMENTS AS INDICATED IN THE FDOT INDEX 546, SHEET 6 OF 6.
- ALL SHRUBS AND GROUND COVERS PLANTED WITHIN THE LIMITS OF CLEAR SIGHT AREAS SHALL BE MAINTAINED CONTINUALLY SO THAT THE PLANTINGS DO NOT EXCEED A 24 INCH HEIGHT FROM THE ADJACENT PAVED ROADWAY SURFACE. THIS INCLUDES THE HEIGHT OF CURBING.

MAINTENANCE OF TRAFFIC CONTROL NOTES:

- THE PREPARATION OF THE TRAFFIC CONTROL PLAN FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE 2003 EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD PART VI, TRAFFIC CONTROLS FOR STREET AND HIGHWAY CONSTRUCTION), AS REVISED TO DATE. FOR GENERAL TRAFFIC CONTROL ZONE REQUIREMENTS AND ADDITIONAL INFORMATION, REFER TO THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) BOOKLET "DESIGN STANDARDS" DATED JANUARY 2006 INDEX Nos. 600 THROUGH 660, AS APPLICABLE AND PER COLLIER COUNTY M.O.T. POLICY.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PREPARATION OF THE TRAFFIC CONTROL PLAN (T.C.P.), THE COST OF WHICH SHALL BE INCLUDED IN PAY ITEM - MAINTENANCE OF TRAFFIC. THE T.C.P SHALL BE PREPARED BY AN INDIVIDUAL WITH THE ADVANCED FDOT "WORK ZONE TRAFFIC CONTROL" CERTIFICATION. THIS PLAN SHALL BE SUBMITTED TO THE PROJECT MANAGER FOR APPROVAL WITH THE APPLICATION FOR THE RIGHT-OF-WAY PERMIT.

PROJECT SIGHT LIMITS & CLEAR ZONE DISTANCES

Project area contains Curbed Medians & Uncurbed R/W Areas
 FDOT "Design Standards", 2010 Index 546
 FDOT "Design Standards", 2010 Index 700
 "Plans Preparation Manual" - (2009)

Coronado Parkway--Posted 35 mph; Index 546 , sheet 4 of 6, Four Lane Divided Highway with Medians

Intersecting Roadways:

Limit of Clear Sight Establishment Criteria
 Per Index 546 (P) Passenger vehicle Design Speed: 35 Mph 22' or less MEDIAN d = 460 ft.

Horizontal Clearances:

Manual of Uniform Minimum Standards for Design, Construction & Maintenance Median Horizontal Clearance Table 3-12, 4 ft. preferred 1.5 ft. min. from travel lane
 Index 700 Median Horizontal Clearance - 6 ft. from travel lane
 R/W Horizontal Clearance - 18 ft. from travel lane, 10' from auxiliary/turn lane
 Guardrail Setback - 5 ft.

Hunter Boulevard--Posted 25 mph; Index 546, sheet 4 of 6, Modified Four to Two Lane Divided Highway with Medians

Intersecting Roadways:

Limit of Clear Sight Establishment Criteria
 Per Index 546 (P) Passenger vehicle Design Speed: 35 Mph 22' or less MEDIAN d = 460 ft.

Horizontal Clearances:

Manual of Uniform Minimum Standards for Design, Construction & Maintenance Median Horizontal Clearance Table 3-12, 1.5 ft. min. from travel lane
 Index 700 Median Horizontal Clearance - 6 ft. from travel lane
 R/W Horizontal Clearance - 18 ft. from travel lane, 10' from auxiliary/turn lane
 Guardrail Setback - 5 ft.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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COLLIER COUNTY TRANSPORTATION

CORONADO PKWY. & HUNTER BLVD.
 GOLDEN GATE BEAUTIFICATION, M.S.T.U.

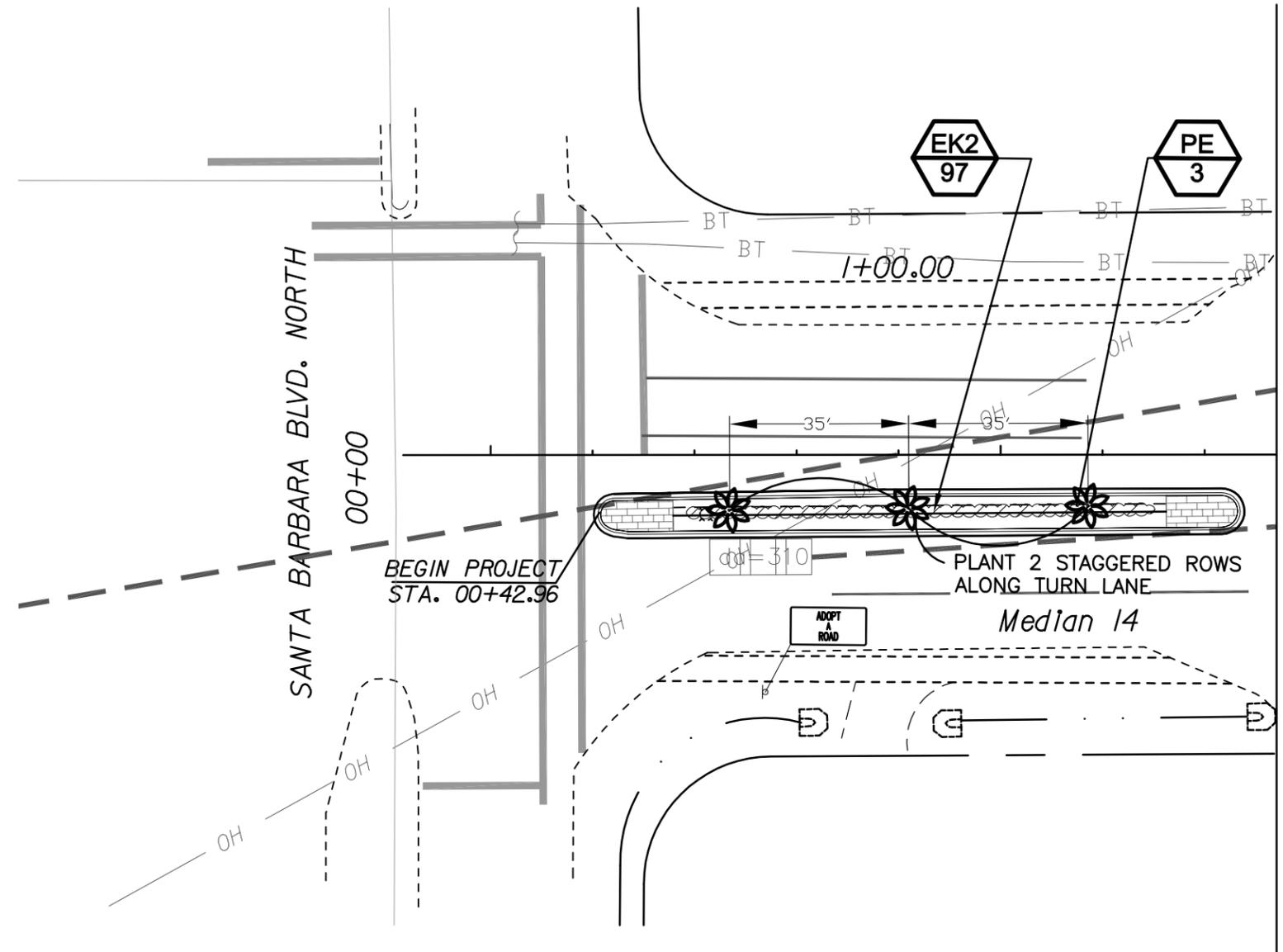
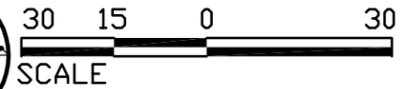
GENERAL INSTALLATION NOTES

SHEET NO.

LD-5

100% CONSTRUCTION PLANS

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100% CONSTRUCTION PLANS

LANDSCAPE INSTALLATION NOTES

1. FRANGIBLE AND NON-FRANGIBLE TREES ARE REQUIRED TO MEET THE MINIMUM 6 FOOT HORIZONTAL CLEARANCE IN THE MEDIANS OR AS PERMITTED BY CURRENT STANDARDS.
2. NO LARGE TYPE TREES OR PALMS SHALL BE INSTALLED WITHIN 3 FOOT OF A 24 INCH DEPTH IRRIGATION MAIN LINE. IF LARGE TREES OR PALMS ARE TO BE PLANTED WITHIN 3 FT. OR ON TOP OF THE MAIN LINE IT SHALL BE ENCASED WITHIN A SCH 40 PVC SLEEVE OR BE AT A 4 FOOT DEPTH.
3. THE FIRST ROW OF PLANTS ALONG THE BACK OF THE CURBING SHALL BE OFFSET A MINIMUM OF THREE FEET OFF THE BACK OF THE CURBING. PLANTS WITH ON CENTER SPACING GREATER THAN THREE FEET SHALL BE OFFSET FROM THE CURBING THE SAME DISTANCE AS THE ON CENTER SPECIFIED SPACING OF THE PLANTS.
4. ALL TREES AND PALMS SHALL HAVE A 4 FOOT MINIMUM RADIUS OF MULCH AROUND THE TRUNK. NO SHRUBS OR GROUND COVERS SHALL BE PLACED WITHIN THIS MULCH AREA.
5. ALL SHRUBS AND GROUND COVERS PLANTING AREAS SHALL HAVE THE FIRST ROW OF PLANTS OFF THE BACK OF THE CURBING LAID OUT TO THE CURBING OFFSET DISTANCE (3' MIN.) AND TO THE SPECIFIED ON CENTER SPACING ALONG THE MEDIAN. THE REMAINING INTERIOR PLANT ROWS SHALL THEN BE SPACED TO BEST ACCOMMODATE THE LAYOUT OF THE PLANTS. THE INTERIOR PLANT ROWS SHALL BE LAID OUT IN A TRIANGULAR TYPE SPACING/PATTERN.
6. A MINIMUM TWO FOOT WIDE MULCH BAND SHALL ALWAYS BE MAINTAINED BETWEEN THE OUTSIDE EDGE OF THE FOLIAGE OF THE FIRST ROW OF PLANTS AND THE BACK OF THE CURBING.
7. THE LANDSCAPE ARCHITECT AND/OR PROJECT MANAGER SHALL APPROVE THE PLANTING LAYOUTS PRIOR TO PLANTING.

LANDSCAPE LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	PROPOSED CANOPY TREES		PROPOSED MATERIALS SCHEDULE SYM.
	PROPOSED FLOWERING/ACCENT TREES		PROPOSED PLANT QUANTITY AND/OR HEIGHT
	PROPOSED PALMS		HC - HORIZONTAL CLEARANCE SETBACK
	PROPOSED SHRUB AND/OR GROUND COVER BEDS. PATTERNS VARIES		LIMIT OF CLEAR SIGHT LINE FOR SIGNS
	ARCHITECTURAL PAVERS (EX. SEE ENG. PLANS)		LIMIT OF CLEAR SIGHT LINE

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

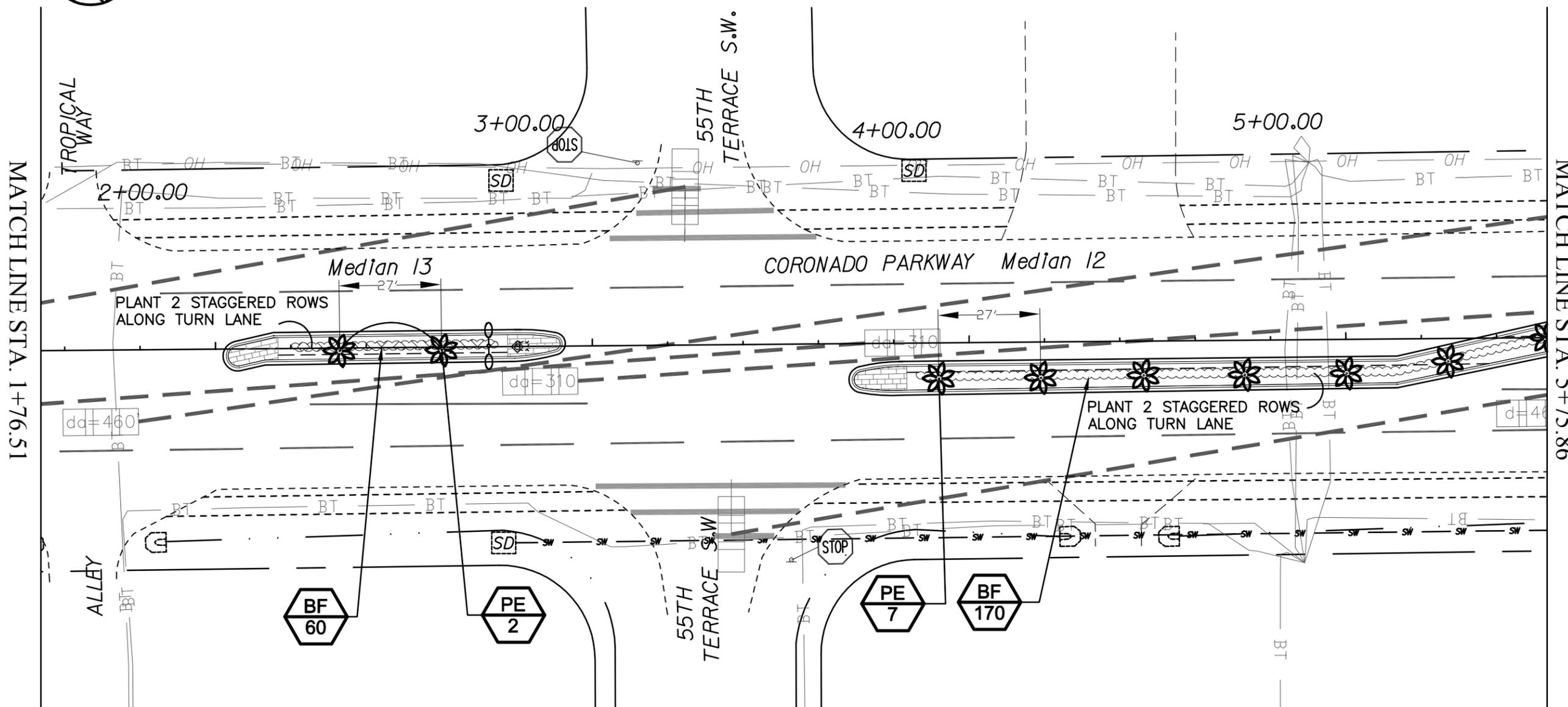
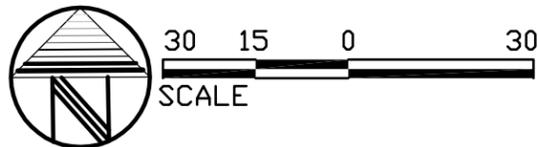
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COLLIER COUNTY TRANSPORTATION
 CORONADO PKWY. & HUNTER BLVD.
 GOLDEN GATE BEAUTIFICATION, M.S.T.U.

CORONADO PKY LANDSCAPE PLAN

SHEET NO.
 LD-6

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MATCH LINE STA. 5+75.86

100% CONSTRUCTION PLANS

LANDSCAPE INSTALLATION NOTES

1. FRANGIBLE AND NON-FRANGIBLE TREES ARE REQUIRED TO MEET THE MINIMUM 6 FOOT HORIZONTAL CLEARANCE IN THE MEDIANS OR AS PERMITTED BY CURRENT STANDARDS.
2. NO LARGE TYPE TREES OR PALMS SHALL BE INSTALLED WITHIN 3 FOOT OF A 24 INCH DEPTH IRRIGATION MAIN LINE. IF LARGE TREES OR PALMS ARE TO BE PLANTED WITHIN 3 FT. OR ON TOP OF THE MAIN LINE IT SHALL BE ENCASED WITHIN A SCH 40 PVC SLEEVE OR BE AT A 4 FOOT DEPTH.
3. THE FIRST ROW OF PLANTS ALONG THE BACK OF THE CURBING SHALL BE OFFSET A MINIMUM OF THREE FEET OFF THE BACK OF THE CURBING. PLANTS WITH ON CENTER SPACING GREATER THAN THREE FEET SHALL BE OFFSET FROM THE CURBING THE SAME DISTANCE AS THE ON CENTER SPECIFIED SPACING OF THE PLANTS.
4. ALL TREES AND PALMS SHALL HAVE A 4 FOOT MINIMUM RADIUS OF MULCH AROUND THE TRUNK. NO SHRUBS OR GROUND COVERS SHALL BE PLACED WITHIN THIS MULCH AREA.
5. ALL SHRUBS AND GROUND COVERS PLANTING AREAS SHALL HAVE THE FIRST ROW OF PLANTS OFF THE BACK OF THE CURBING LAID OUT TO THE CURBING OFFSET DISTANCE (3' MIN.) AND TO THE SPECIFIED ON CENTER SPACING ALONG THE MEDIAN. THE REMAINING INTERIOR PLANT ROWS SHALL THEN BE SPACED TO BEST ACCOMMODATE THE LAYOUT OF THE PLANTS. THE INTERIOR PLANT ROWS SHALL BE LAID OUT IN A TRIANGULAR TYPE SPACING/PATTERN.
6. A MINIMUM TWO FOOT WIDE MULCH BAND SHALL ALWAYS BE MAINTAINED BETWEEN THE OUTSIDE EDGE OF THE FOLIAGE OF THE FIRST ROW OF PLANTS AND THE BACK OF THE CURBING.
7. THE LANDSCAPE ARCHITECT AND/OR PROJECT MANAGER SHALL APPROVE THE PLANTING LAYOUTS PRIOR TO PLANTING.

LANDSCAPE LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	PROPOSED CANOPY TREES		PROPOSED MATERIALS SCHEDULE SYM.
	PROPOSED FLOWERING/ACCENT TREES		PROPOSED PLANT QUANTITY AND/OR HEIGHT
	PROPOSED PALMS		HC - HORIZONTAL CLEARANCE SETBACK
	PROPOSED SHRUB AND/OR GROUND COVER BEDS. PATTERNS VARIES		LIMIT OF CLEAR SIGHT LINE FOR SIGNS
	ARCHITECTURAL PAVERS (EX. SEE ENG. PLANS)		LIMIT OF CLEAR SIGHT LINE

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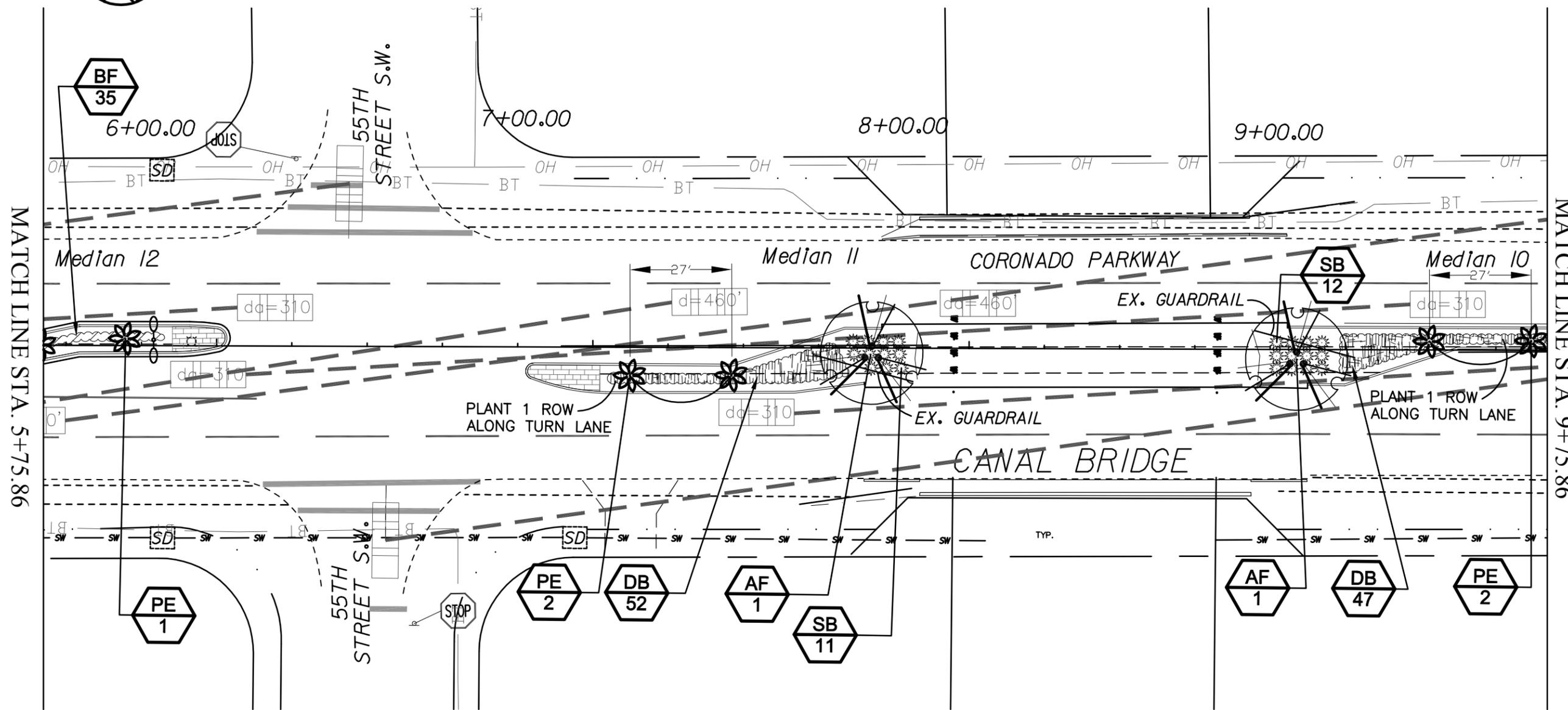
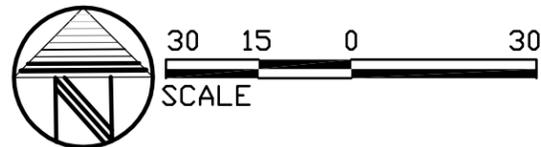
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4. ALL TREES AND PALMS SHALL HAVE A 4 FOOT MINIMUM RADIUS OF MULCH AROUND THE TRUNK. NO SHRUBS OR GROUND COVERS SHALL BE PLACED WITHIN THIS MULCH AREA.
5. ALL SHRUBS AND GROUND COVERS PLANTING AREAS SHALL HAVE THE FIRST ROW OF PLANTS OFF THE BACK OF THE CURBING LAID OUT TO THE CURBING OFFSET DISTANCE (3' MIN.) AND TO THE SPECIFIED ON CENTER SPACING ALONG THE MEDIAN. THE REMAINING INTERIOR PLANT ROWS SHALL THEN BE SPACED TO BEST ACCOMMODATE THE LAYOUT OF THE PLANTS. THE INTERIOR PLANT ROWS SHALL BE LAID OUT IN A TRIANGULAR TYPE SPACING/PATTERN.
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LANDSCAPE LEGEND			
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	PROPOSED FLOWERING/ACCENT TREES		HC - HORIZONTAL CLEARANCE SETBACK LIMIT OF CLEAR SIGHT LINE FOR SIGNS LIMIT OF CLEAR SIGHT LINE
	PROPOSED PALMS		PROPOSED SHRUB AND/OR GROUND COVER BEDS. PATTERNS VARIES
			ARCHITECTURAL PAVERS (EX. SEE ENG. PLANS)

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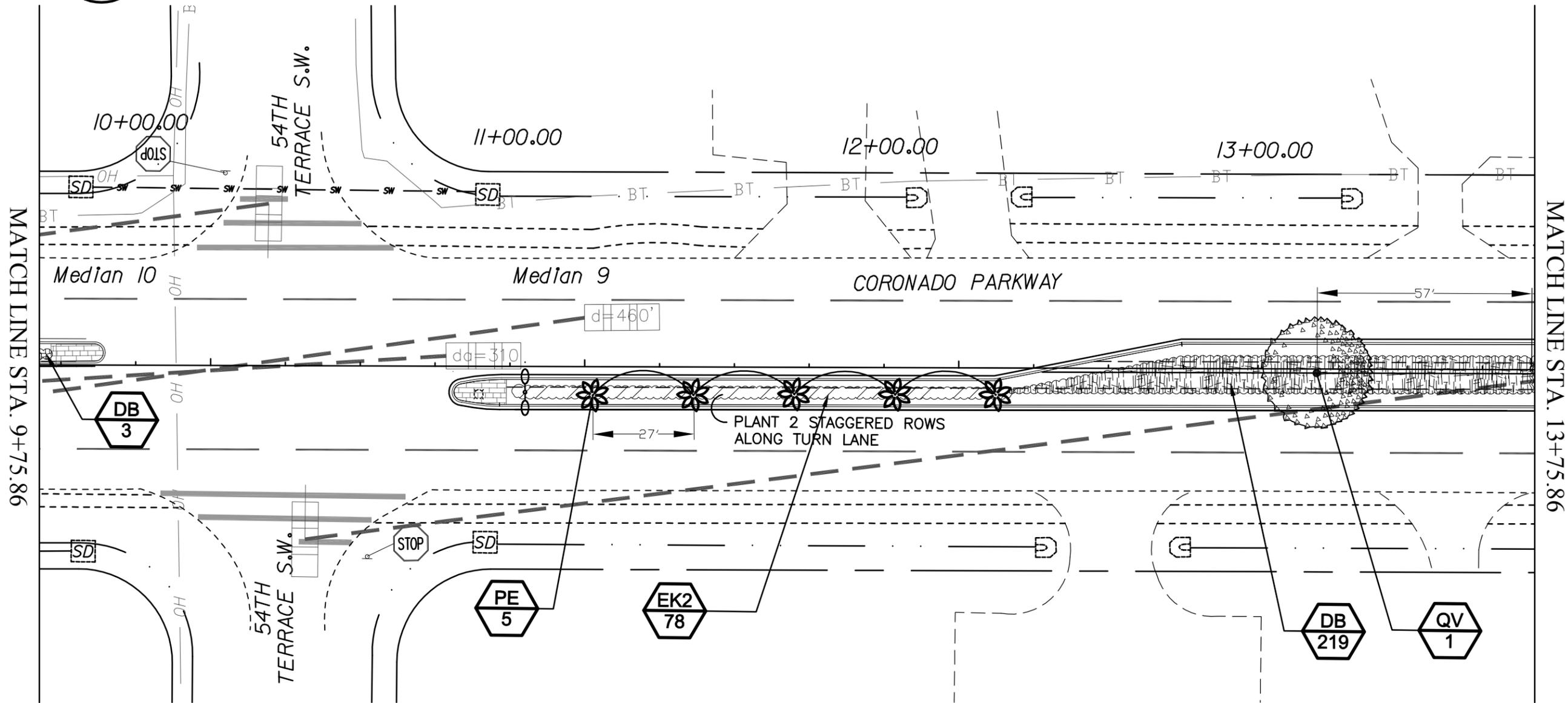
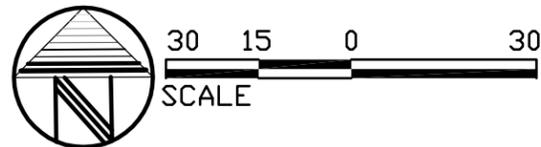
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4. ALL TREES AND PALMS SHALL HAVE A 4 FOOT MINIMUM RADIUS OF MULCH AROUND THE TRUNK. NO SHRUBS OR GROUND COVERS SHALL BE PLACED WITHIN THIS MULCH AREA.
5. ALL SHRUBS AND GROUND COVERS PLANTING AREAS SHALL HAVE THE FIRST ROW OF PLANTS OFF THE BACK OF THE CURBING LAID OUT TO THE CURBING OFFSET DISTANCE (3' MIN.) AND TO THE SPECIFIED ON CENTER SPACING ALONG THE MEDIAN. THE REMAINING INTERIOR PLANT ROWS SHALL THEN BE SPACED TO BEST ACCOMMODATE THE LAYOUT OF THE PLANTS. THE INTERIOR PLANT ROWS SHALL BE LAID OUT IN A TRIANGULAR TYPE SPACING/PATTERN.
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	PROPOSED FLOWERING/ACCENT TREES		HC - HORIZONTAL CLEARANCE SETBACK
	PROPOSED PALMS		LIMIT OF CLEAR SIGHT LINE FOR SIGNS
	PROPOSED SHRUB AND/OR GROUND COVER BEDS. PATTERNS VARIES		LIMIT OF CLEAR SIGHT LINE
	ARCHITECTURAL PAVERS (EX. SEE ENG. PLANS)		

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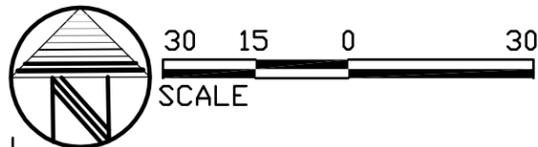
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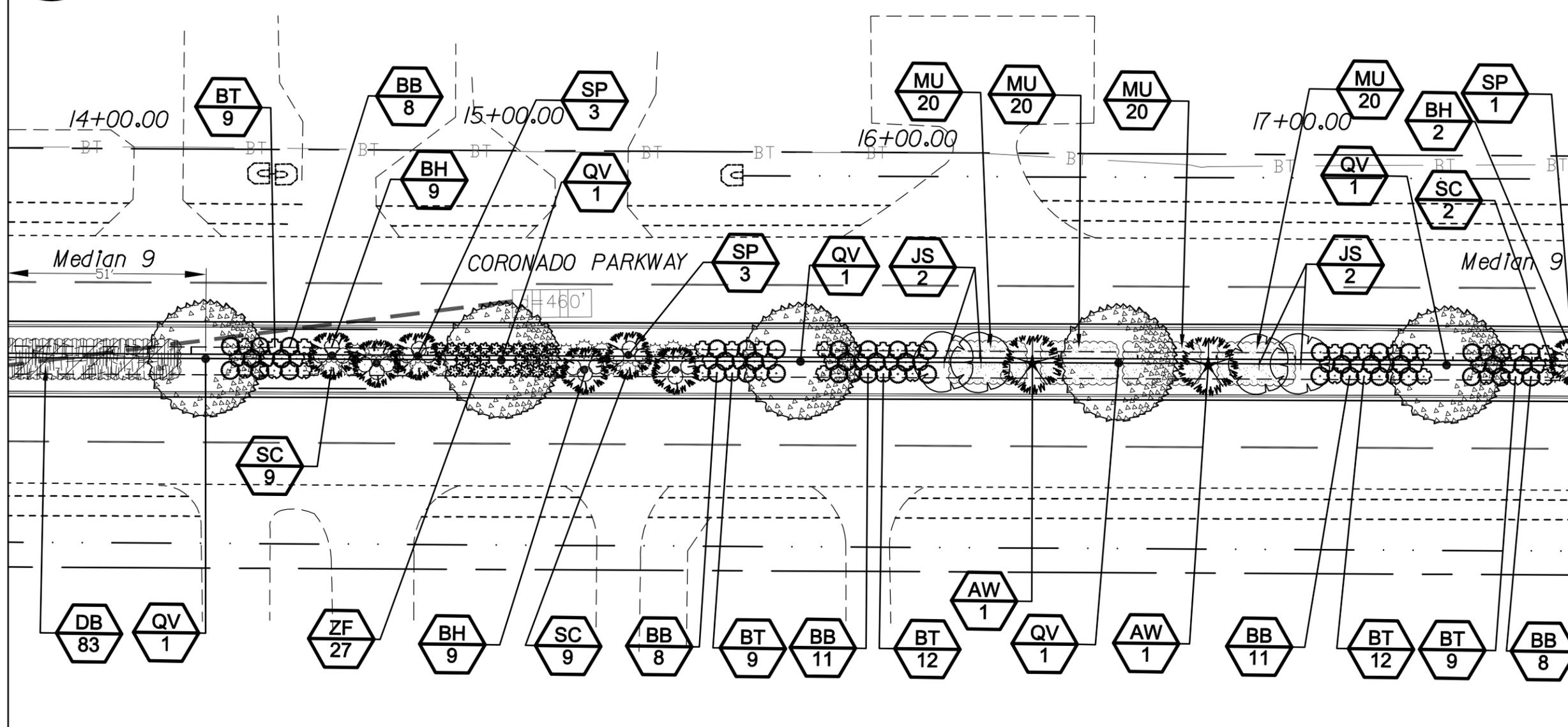
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MATCHLINE STA. 17+75.86

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4. ALL TREES AND PALMS SHALL HAVE A 4 FOOT MINIMUM RADIUS OF MULCH AROUND THE TRUNK. NO SHRUBS OR GROUND COVERS SHALL BE PLACED WITHIN THIS MULCH AREA.
5. ALL SHRUBS AND GROUND COVERS PLANTING AREAS SHALL HAVE THE FIRST ROW OF PLANTS OFF THE BACK OF THE CURBING LAID OUT TO THE CURBING OFFSET DISTANCE (3' MIN.) AND TO THE SPECIFIED ON CENTER SPACING ALONG THE MEDIAN. THE REMAINING INTERIOR PLANT ROWS SHALL THEN BE SPACED TO BEST ACCOMMODATE THE LAYOUT OF THE PLANTS. THE INTERIOR PLANT ROWS SHALL BE LAID OUT IN A TRIANGULAR TYPE SPACING/PATTERN.
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	PROPOSED FLOWERING/ACCENT TREES		HC - HORIZONTAL CLEARANCE SETBACK
	PROPOSED PALMS		LIMIT OF CLEAR SIGHT LINE FOR SIGNS LIMIT OF CLEAR SIGHT LINE
	PROPOSED SHRUB AND/OR GROUND COVER BEDS. PATTERNS VARIES		ARCHITECTURAL PAVERS (EX. SEE ENG. PLANS)

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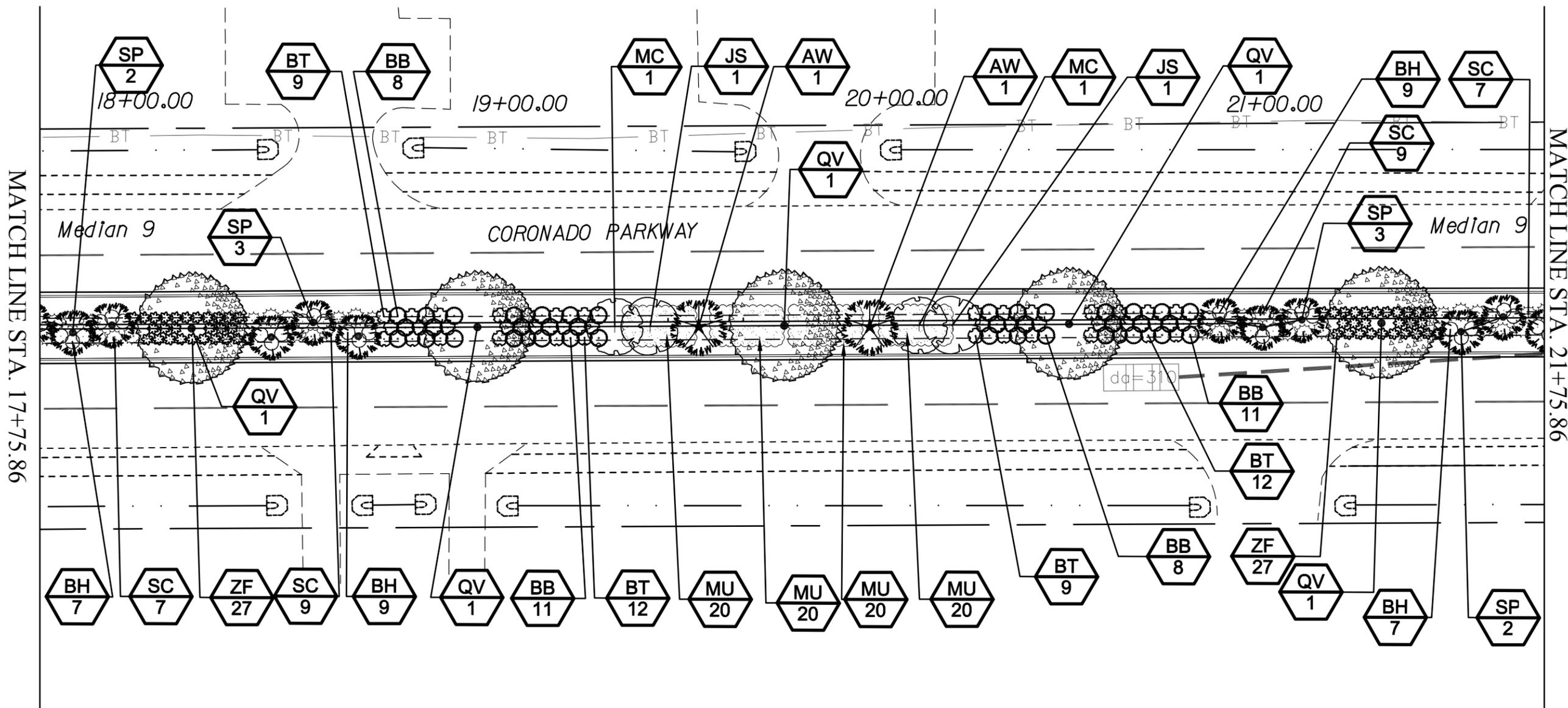
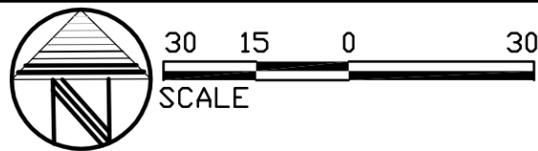
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CORONADO PKY LANDSCAPE PLAN

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4. ALL TREES AND PALMS SHALL HAVE A 4 FOOT MINIMUM RADIUS OF MULCH AROUND THE TRUNK. NO SHRUBS OR GROUND COVERS SHALL BE PLACED WITHIN THIS MULCH AREA.
5. ALL SHRUBS AND GROUND COVERS PLANTING AREAS SHALL HAVE THE FIRST ROW OF PLANTS OFF THE BACK OF THE CURBING LAID OUT TO THE CURBING OFFSET DISTANCE (3' MIN.) AND TO THE SPECIFIED ON CENTER SPACING ALONG THE MEDIAN. THE REMAINING INTERIOR PLANT ROWS SHALL THEN BE SPACED TO BEST ACCOMMODATE THE LAYOUT OF THE PLANTS. THE INTERIOR PLANT ROWS SHALL BE LAID OUT IN A TRIANGULAR TYPE SPACING/PATTERN.
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	PROPOSED FLOWERING/ACCENT TREES		HC - HORIZONTAL CLEARANCE SETBACK
	PROPOSED PALMS		LIMIT OF CLEAR SIGHT LINE FOR SIGNS
	PROPOSED SHRUB AND/OR GROUND COVER BEDS. PATTERNS VARIES		LIMIT OF CLEAR SIGHT LINE
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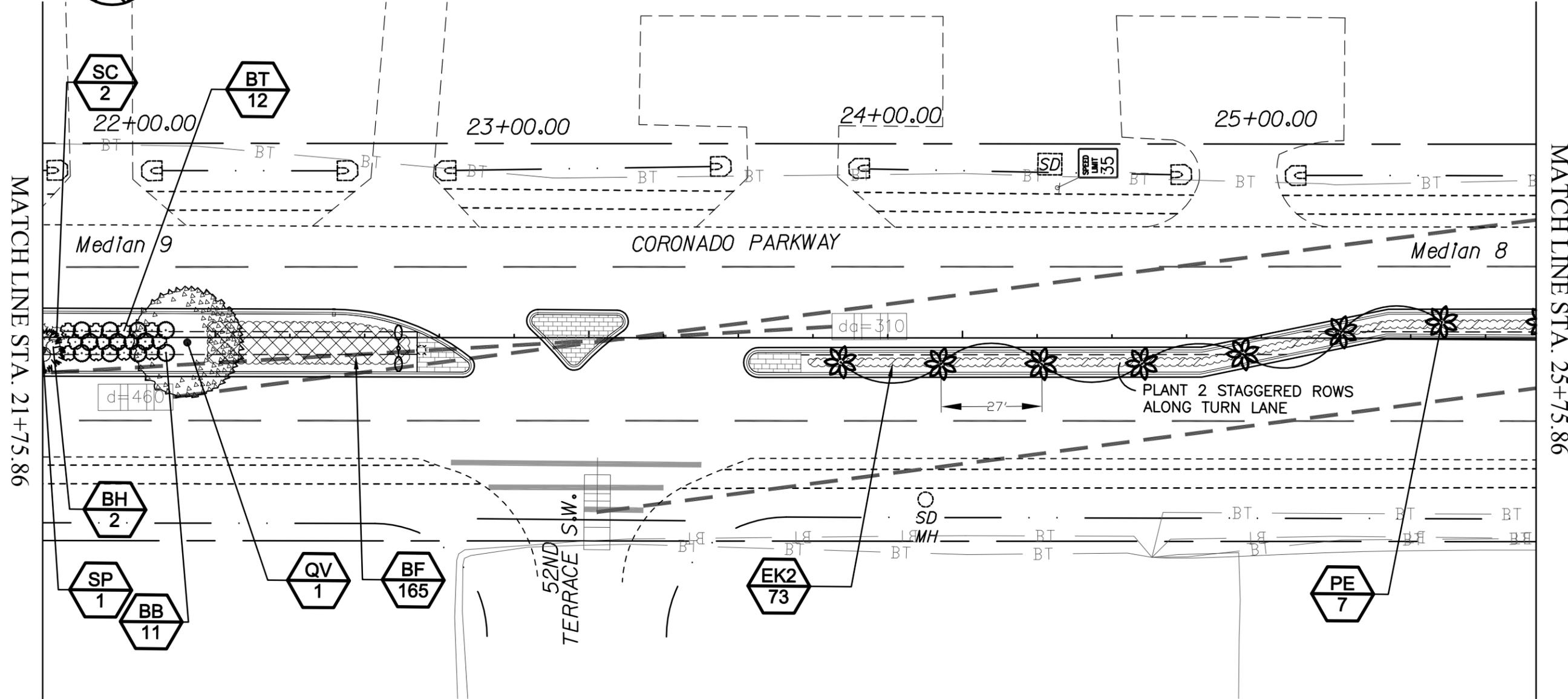
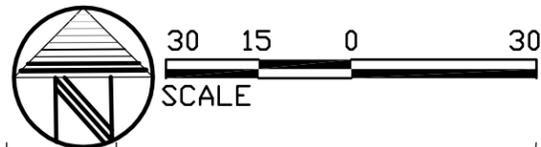
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CORONADO PKY LANDSCAPE PLAN

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MATCHLINE STA. 25+75.86

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	PROPOSED PALMS		HC - HORIZONTAL CLEARANCE SETBACK
			LIMIT OF CLEAR SIGHT LINE FOR SIGNS
			LIMIT OF CLEAR SIGHT LINE
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			ARCHITECTURAL PAVERS (EX. SEE ENG. PLANS)

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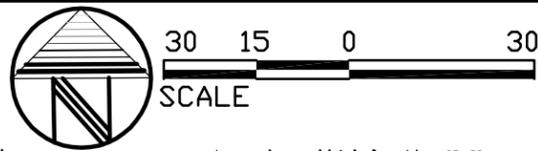
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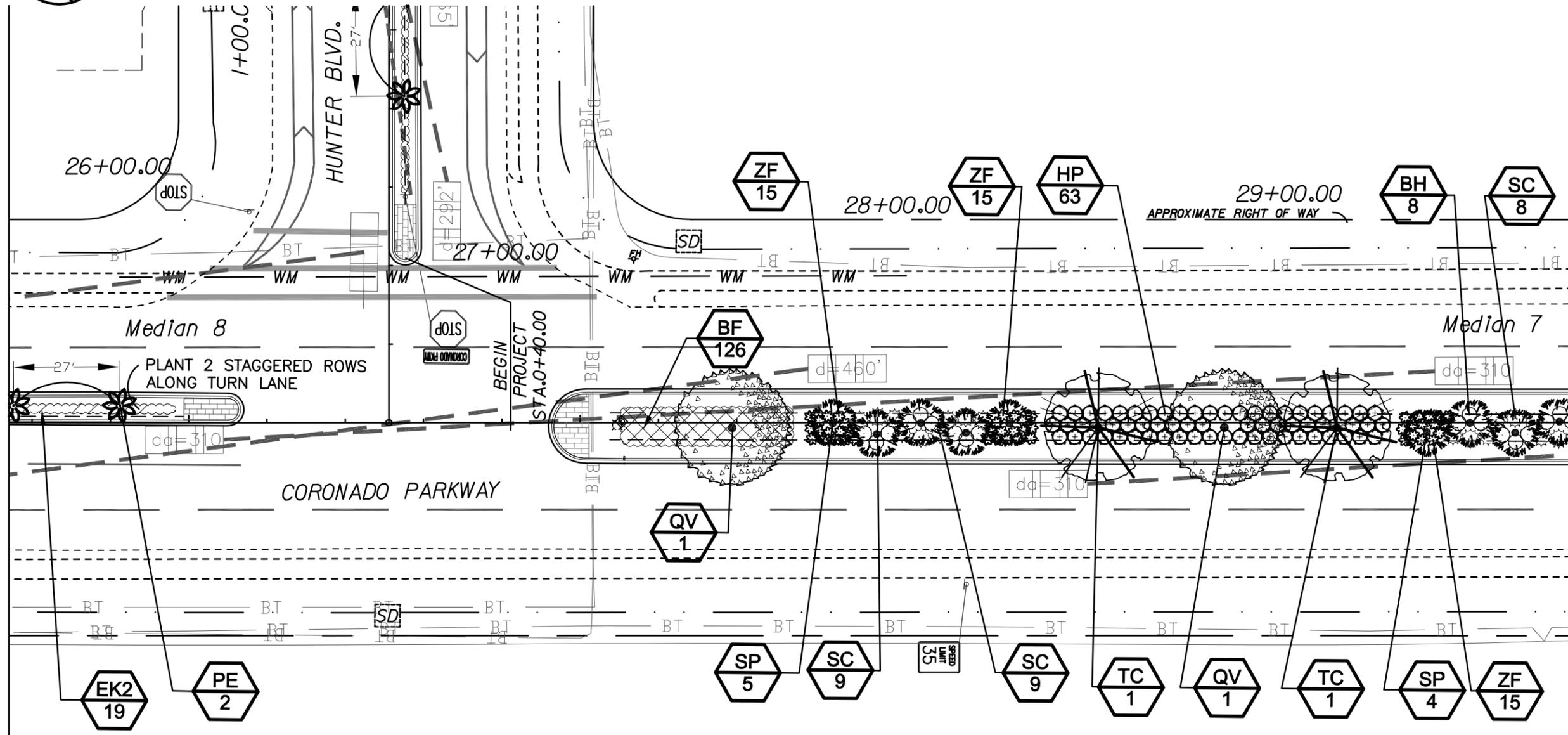
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MATCH LINE STA. 29+75.86

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LANDSCAPE LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
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	PROPOSED FLOWERING/ACCENT TREES		HC - HORIZONTAL CLEARANCE SETBACK
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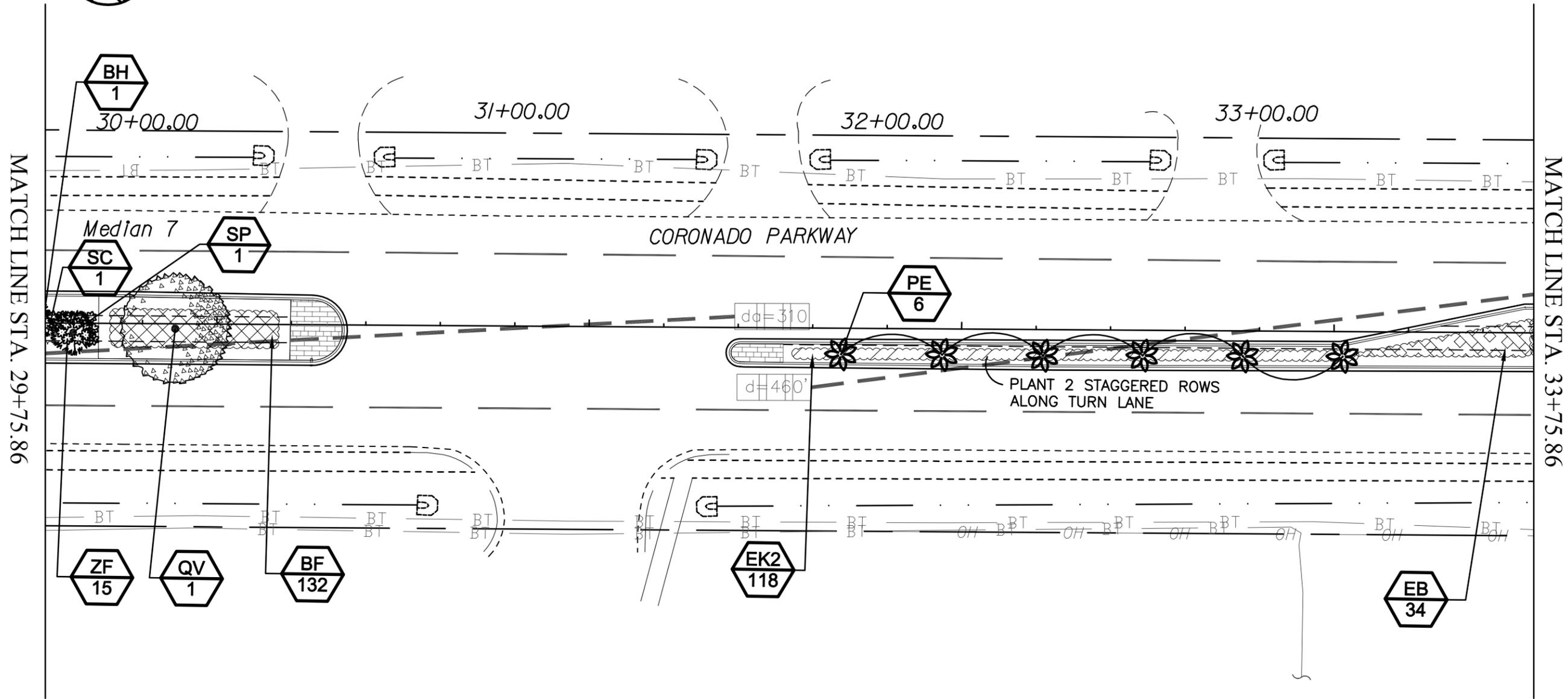
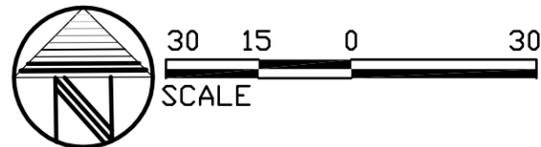
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CORONADO PKY LANDSCAPE PLAN

SHEET NO.
 LD-13

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LANDSCAPE INSTALLATION NOTES

1. FRANGIBLE AND NON-FRANGIBLE TREES ARE REQUIRED TO MEET THE MINIMUM 6 FOOT HORIZONTAL CLEARANCE IN THE MEDIANS OR AS PERMITTED BY CURRENT STANDARDS.
2. NO LARGE TYPE TREES OR PALMS SHALL BE INSTALLED WITHIN 3 FOOT OF A 24 INCH DEPTH IRRIGATION MAIN LINE. IF LARGE TREES OR PALMS ARE TO BE PLANTED WITHIN 3 FT. OR ON TOP OF THE MAIN LINE IT SHALL BE ENCASED WITHIN A SCH 40 PVC SLEEVE OR BE AT A 4 FOOT DEPTH.
3. THE FIRST ROW OF PLANTS ALONG THE BACK OF THE CURBING SHALL BE OFFSET A MINIMUM OF THREE FEET OFF THE BACK OF THE CURBING. PLANTS WITH ON CENTER SPACING GREATER THAN THREE FEET SHALL BE OFFSET FROM THE CURBING THE SAME DISTANCE AS THE ON CENTER SPECIFIED SPACING OF THE PLANTS.
4. ALL TREES AND PALMS SHALL HAVE A 4 FOOT MINIMUM RADIUS OF MULCH AROUND THE TRUNK. NO SHRUBS OR GROUND COVERS SHALL BE PLACED WITHIN THIS MULCH AREA.
5. ALL SHRUBS AND GROUND COVERS PLANTING AREAS SHALL HAVE THE FIRST ROW OF PLANTS OFF THE BACK OF THE CURBING LAID OUT TO THE CURBING OFFSET DISTANCE (3' MIN.) AND TO THE SPECIFIED ON CENTER SPACING ALONG THE MEDIAN. THE REMAINING INTERIOR PLANT ROWS SHALL THEN BE SPACED TO BEST ACCOMMODATE THE LAYOUT OF THE PLANTS. THE INTERIOR PLANT ROWS SHALL BE LAID OUT IN A TRIANGULAR TYPE SPACING/PATTERN.
6. A MINIMUM TWO FOOT WIDE MULCH BAND SHALL ALWAYS BE MAINTAINED BETWEEN THE OUTSIDE EDGE OF THE FOLIAGE OF THE FIRST ROW OF PLANTS AND THE BACK OF THE CURBING.
7. THE LANDSCAPE ARCHITECT AND/OR PROJECT MANAGER SHALL APPROVE THE PLANTING LAYOUTS PRIOR TO PLANTING.

LANDSCAPE LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	PROPOSED CANOPY TREES		PROPOSED MATERIALS SCHEDULE SYM. PROPOSED PLANT QUANTITY AND/OR HEIGHT
	PROPOSED FLOWERING/ACCENT TREES		HC - HORIZONTAL CLEARANCE SETBACK
	PROPOSED PALMS		LIMIT OF CLEAR SIGHT LINE FOR SIGNS
			LIMIT OF CLEAR SIGHT LINE
			PROPOSED SHRUB AND/OR GROUND COVER BEDS. PATTERNS VARIES
			ARCHITECTURAL PAVERS (EX. SEE ENG. PLANS)

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

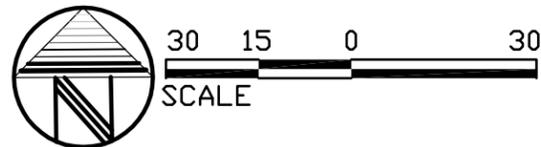
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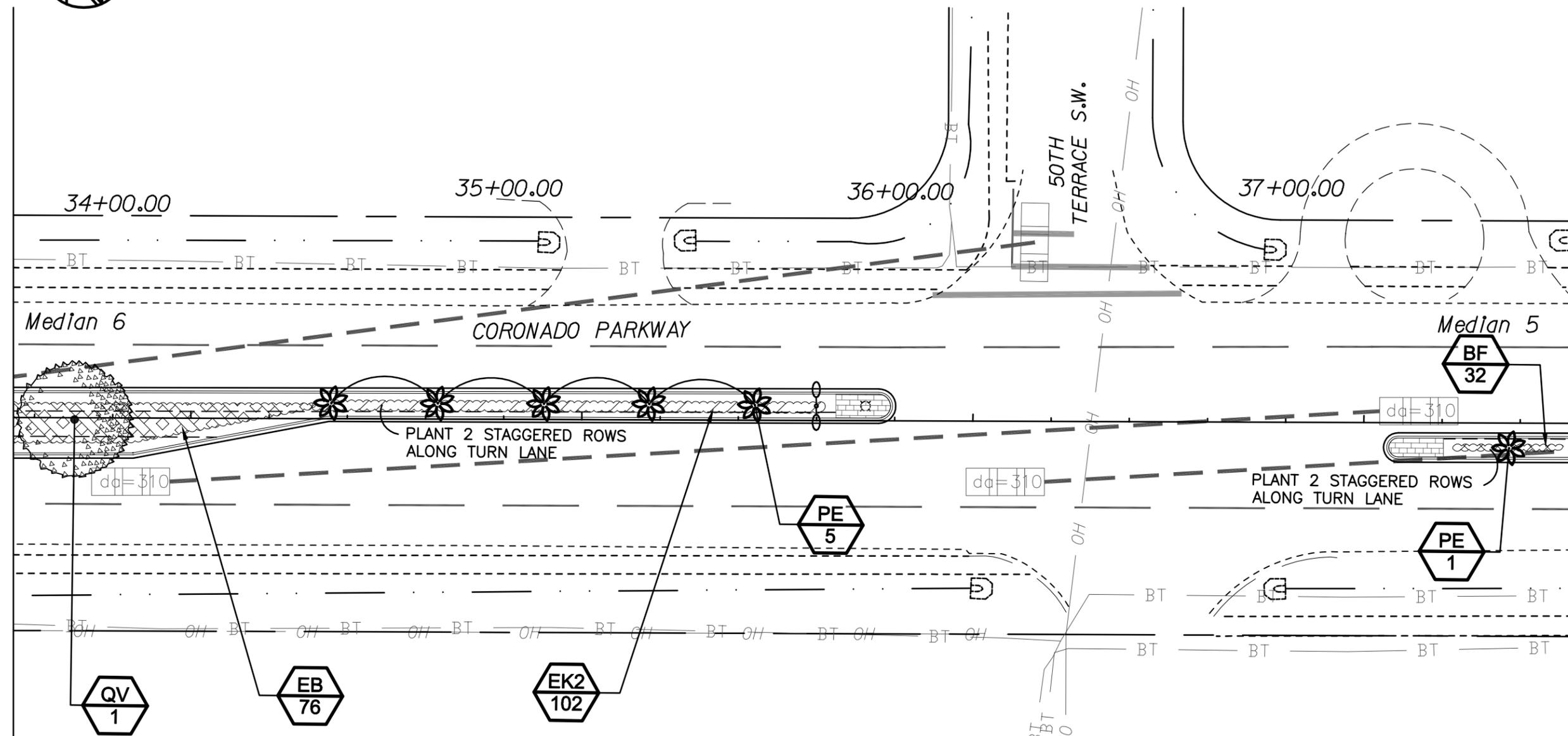
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MATCHLINE STA. 33+75.86



MATCHLINE STA. 37+75.86

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4. ALL TREES AND PALMS SHALL HAVE A 4 FOOT MINIMUM RADIUS OF MULCH AROUND THE TRUNK. NO SHRUBS OR GROUND COVERS SHALL BE PLACED WITHIN THIS MULCH AREA.
5. ALL SHRUBS AND GROUND COVERS PLANTING AREAS SHALL HAVE THE FIRST ROW OF PLANTS OFF THE BACK OF THE CURBING LAID OUT TO THE CURBING OFFSET DISTANCE (3' MIN.) AND TO THE SPECIFIED ON CENTER SPACING ALONG THE MEDIAN. THE REMAINING INTERIOR PLANT ROWS SHALL THEN BE SPACED TO BEST ACCOMMODATE THE LAYOUT OF THE PLANTS. THE INTERIOR PLANT ROWS SHALL BE LAID OUT IN A TRIANGULAR TYPE SPACING/PATTERN.
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LANDSCAPE LEGEND		LANDSCAPE LEGEND	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
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	PROPOSED FLOWERING/ ACCENT TREES		HC - HORIZONTAL CLEARANCE SETBACK
	PROPOSED PALMS		LIMIT OF CLEAR SIGHT LINE FOR SIGNS
			LIMIT OF CLEAR SIGHT LINE
			PROPOSED SHRUB AND/OR GROUND COVER BEDS. PATTERNS VARIES
			ARCHITECTURAL PAVERS (EX. SEE ENG. PLANS)

REVISIONS					
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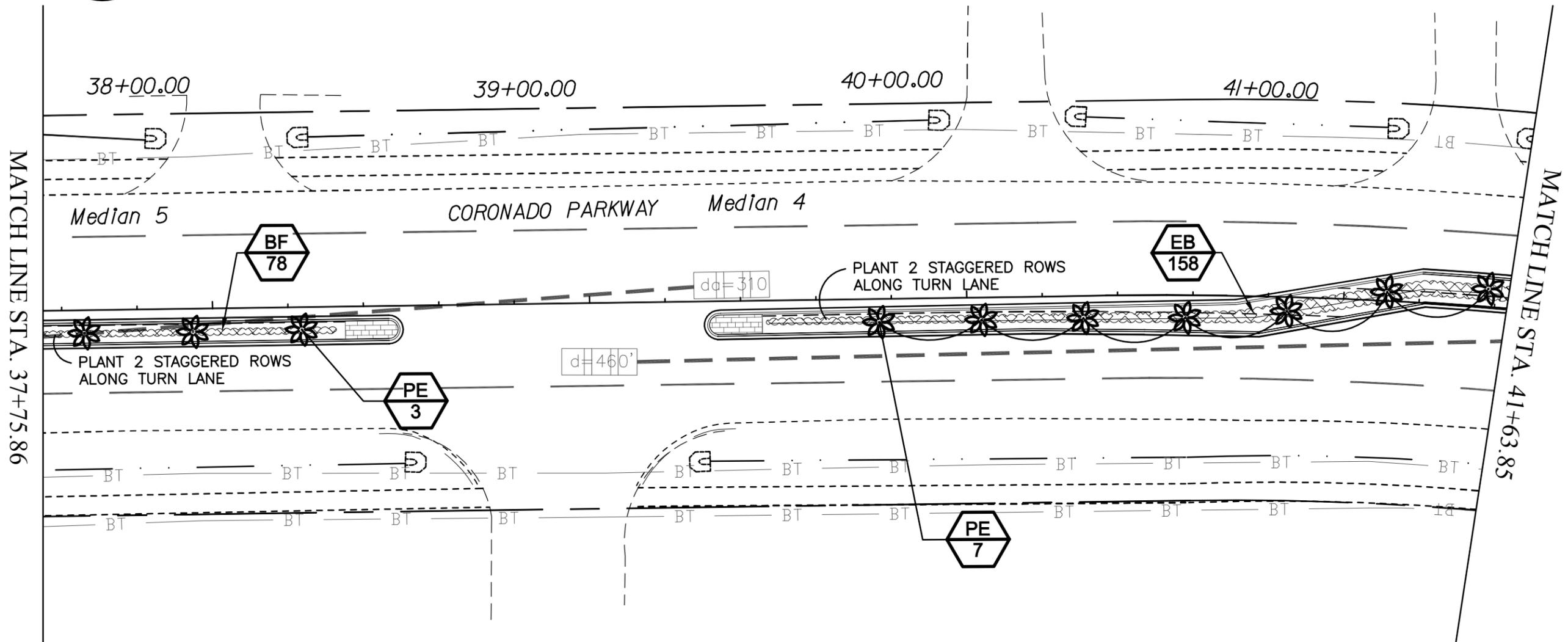
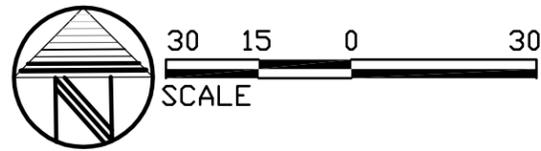
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MATCH LINE STA. 41+63.85

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4. ALL TREES AND PALMS SHALL HAVE A 4 FOOT MINIMUM RADIUS OF MULCH AROUND THE TRUNK. NO SHRUBS OR GROUND COVERS SHALL BE PLACED WITHIN THIS MULCH AREA.
5. ALL SHRUBS AND GROUND COVERS PLANTING AREAS SHALL HAVE THE FIRST ROW OF PLANTS OFF THE BACK OF THE CURBING LAID OUT TO THE CURBING OFFSET DISTANCE (3' MIN.) AND TO THE SPECIFIED ON CENTER SPACING ALONG THE MEDIAN. THE REMAINING INTERIOR PLANT ROWS SHALL THEN BE SPACED TO BEST ACCOMMODATE THE LAYOUT OF THE PLANTS. THE INTERIOR PLANT ROWS SHALL BE LAID OUT IN A TRIANGULAR TYPE SPACING/PATTERN.
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	PROPOSED FLOWERING/ACCENT TREES		HC - HORIZONTAL CLEARANCE SETBACK
	PROPOSED PALMS		LIMIT OF CLEAR SIGHT LINE FOR SIGNS LIMIT OF CLEAR SIGHT LINE
	PROPOSED SHRUB AND/OR GROUND COVER BEDS. PATTERNS VARIES		ARCHITECTURAL PAVERS (EX. SEE ENG. PLANS)

REVISIONS					
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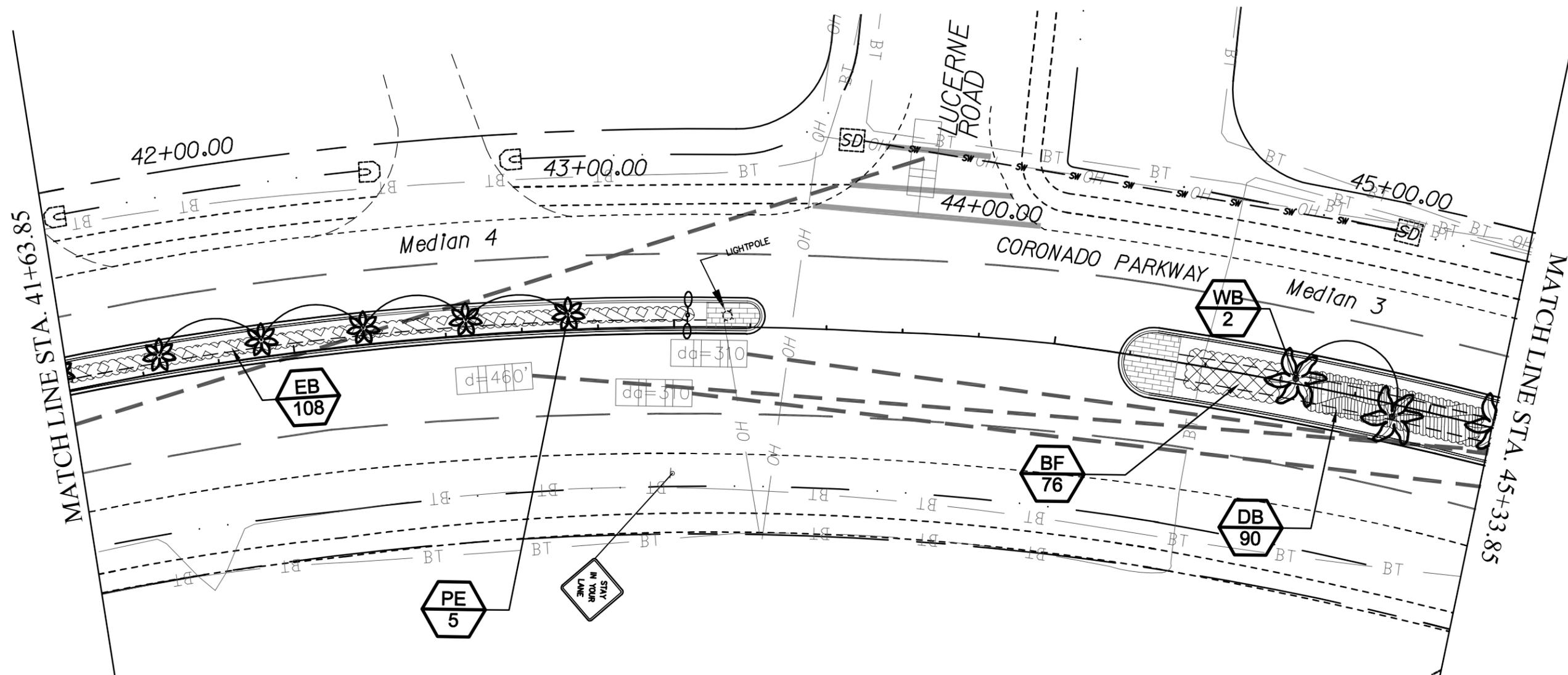
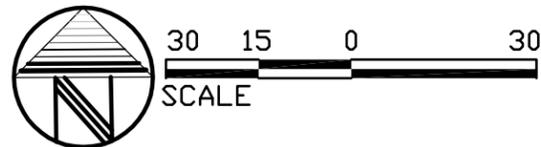
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CORONADO PKY LANDSCAPE PLAN

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4. ALL TREES AND PALMS SHALL HAVE A 4 FOOT MINIMUM RADIUS OF MULCH AROUND THE TRUNK. NO SHRUBS OR GROUND COVERS SHALL BE PLACED WITHIN THIS MULCH AREA.
5. ALL SHRUBS AND GROUND COVERS PLANTING AREAS SHALL HAVE THE FIRST ROW OF PLANTS OFF THE BACK OF THE CURBING LAID OUT TO THE CURBING OFFSET DISTANCE (3' MIN.) AND TO THE SPECIFIED ON CENTER SPACING ALONG THE MEDIAN. THE REMAINING INTERIOR PLANT ROWS SHALL THEN BE SPACED TO BEST ACCOMMODATE THE LAYOUT OF THE PLANTS. THE INTERIOR PLANT ROWS SHALL BE LAID OUT IN A TRIANGULAR TYPE SPACING/PATTERN.
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LANDSCAPE LEGEND			
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	PROPOSED CANOPY TREES		PROPOSED MATERIALS SCHEDULE SYM. PROPOSED PLANT QUANTITY AND/OR HEIGHT
	PROPOSED FLOWERING/ACCENT TREES		HC - HORIZONTAL CLEARANCE SETBACK
	PROPOSED PALMS		LIMIT OF CLEAR SIGHT LINE FOR SIGNS
	PROPOSED SHRUB AND/OR GROUND COVER BEDS. PATTERNS VARIES		LIMIT OF CLEAR SIGHT LINE
	ARCHITECTURAL PAVERS (EX. SEE ENG. PLANS)		PROPOSED SHRUB AND/OR GROUND COVER BEDS. PATTERNS VARIES

REVISIONS					
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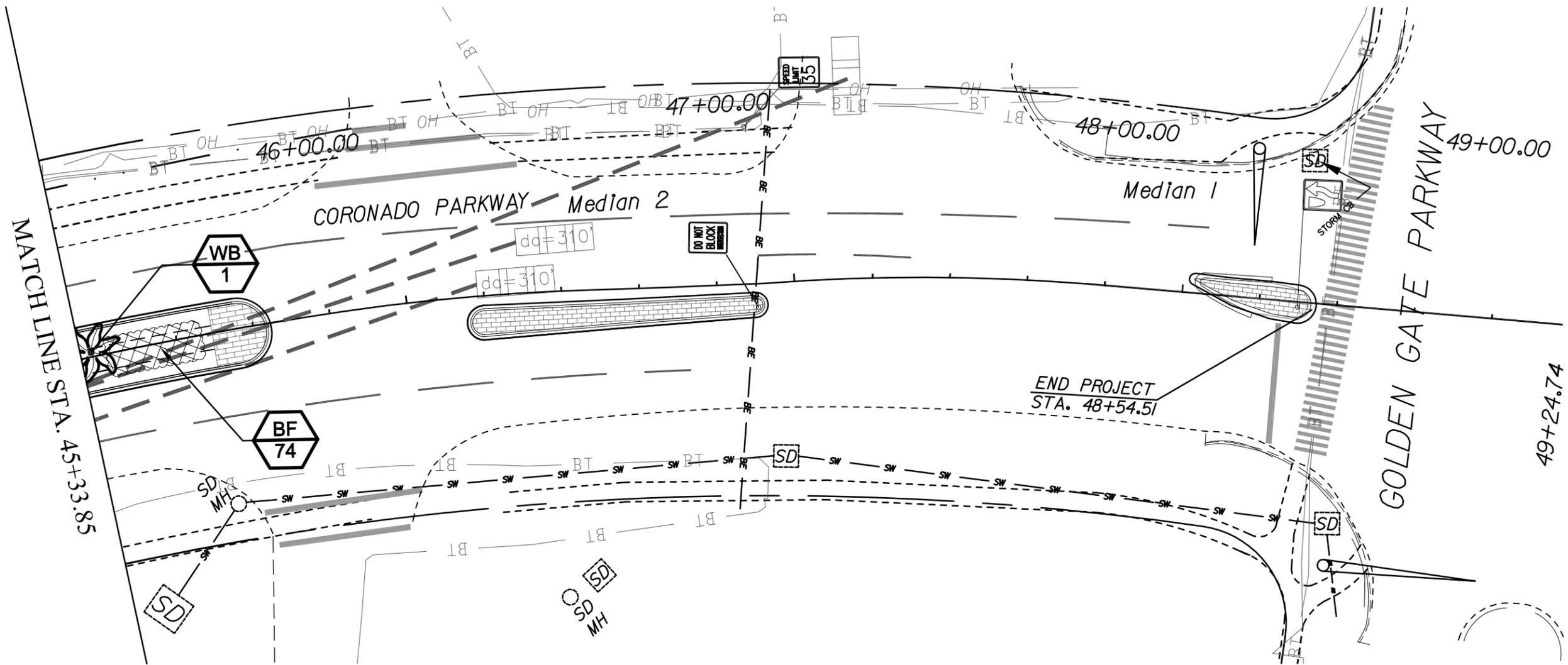
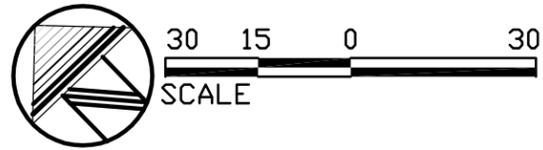
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CORONADO PKY LANDSCAPE PLAN

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- ALL TREES AND PALMS SHALL HAVE A 4 FOOT MINIMUM RADIUS OF MULCH AROUND THE TRUNK. NO SHRUBS OR GROUND COVERS SHALL BE PLACED WITHIN THIS MULCH AREA.
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	PROPOSED PALMS		PROPOSED SHRUB AND/OR GROUND COVER BEDS. PATTERNS VARIES
			ARCHITECTURAL PAVERS (EX. SEE ENG. PLANS)

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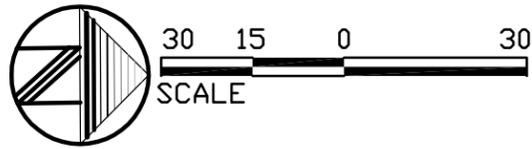
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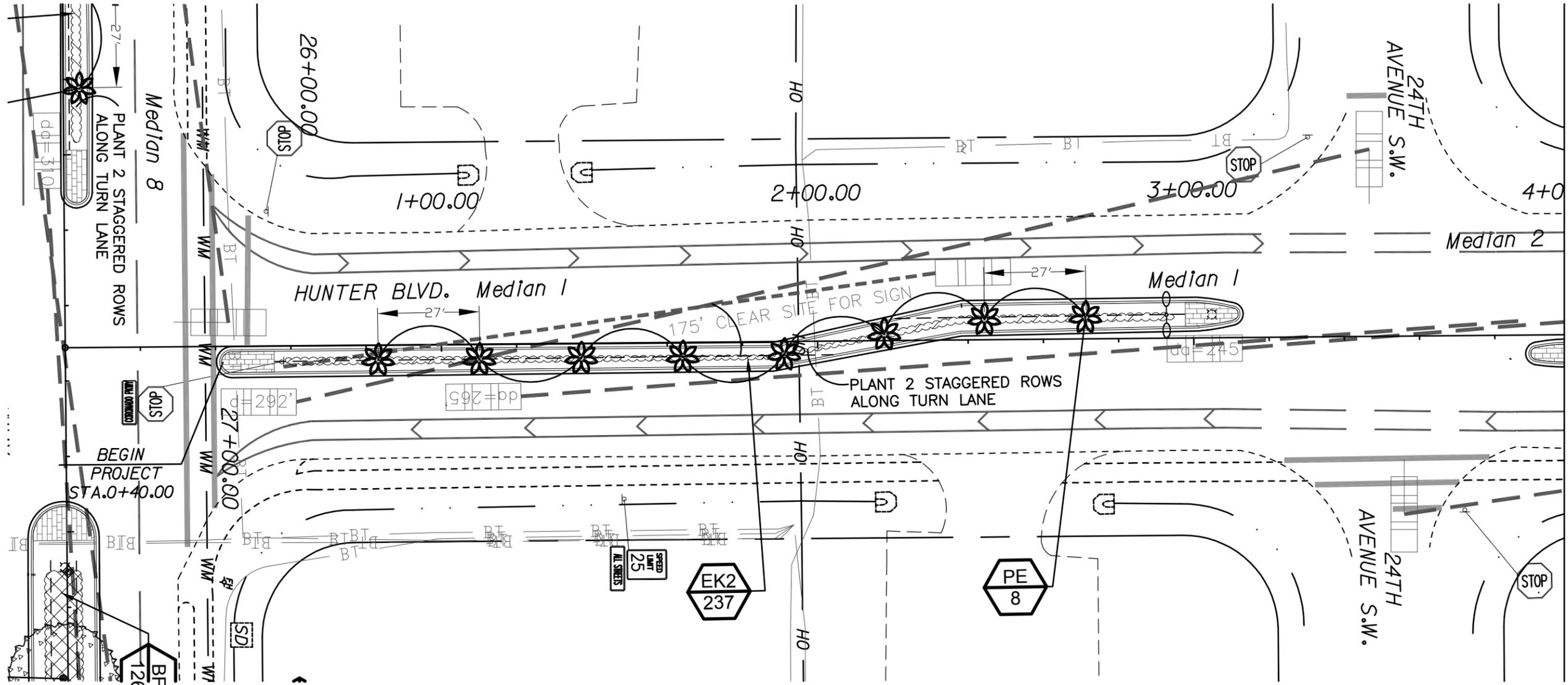
CORONADO PKY LANDSCAPE PLAN

SHEET NO.
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MATCH LINE CORONADO PKWY. STA. 22+48.85 -
HUNTER BLVD. STA. 0+00.00 BEGIN PROJECT



MATCHLINE STA. 3+97.25

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LANDSCAPE LEGEND

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	PROPOSED FLOWERING/ACCENT TREES		PROPOSED PLANT QUANTITY AND/OR HEIGHT
	PROPOSED PALMS		HC - HORIZONTAL CLEARANCE SETBACK
			LIMIT OF CLEAR SIGHT LINE FOR SIGNS
			LIMIT OF CLEAR SIGHT LINE
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			ARCHITECTURAL PAVERS (EX. SEE ENG. PLANS)

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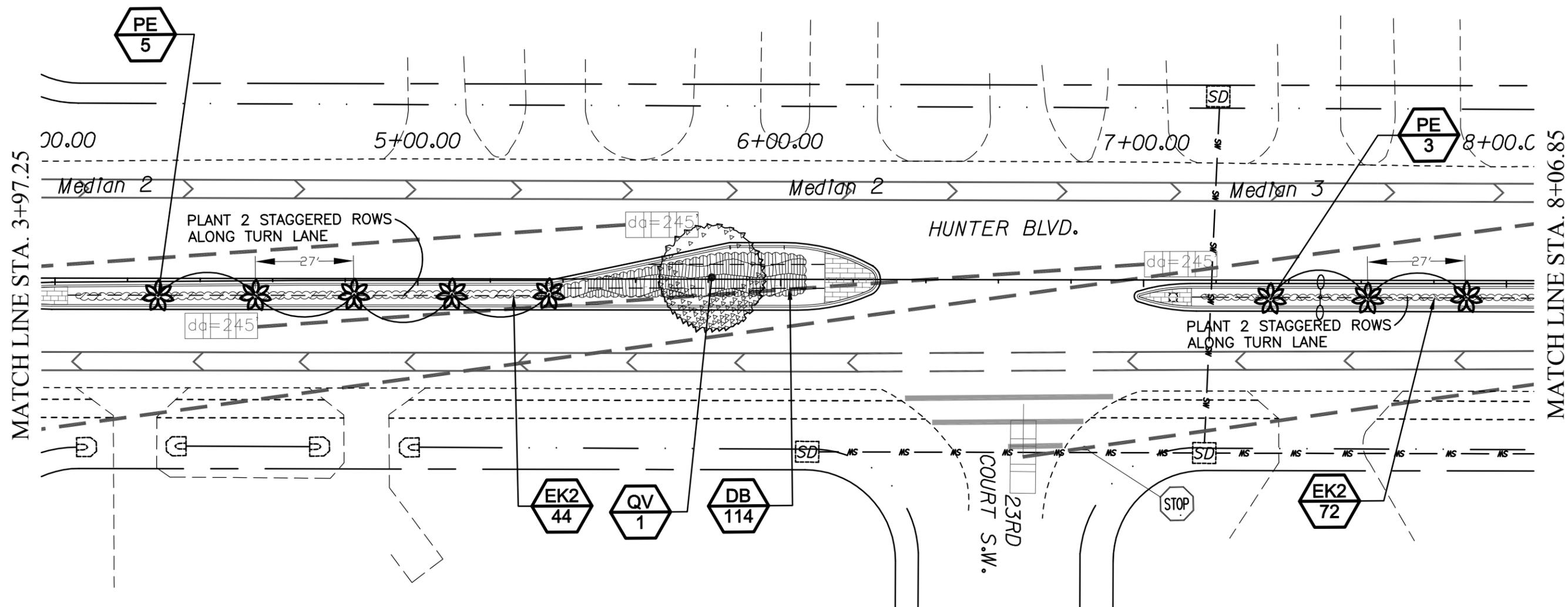
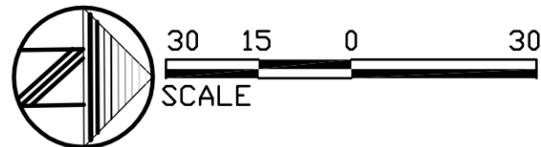
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HUNTER BLVD LANDSCAPE PLAN

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MATCH LINE STA. 3+97.25

MATCH LINE STA. 8+06.85

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	PROPOSED FLOWERING/ACCENT TREES		PROPOSED PLANT QUANTITY AND/OR HEIGHT
	PROPOSED PALMS		HC - HORIZONTAL CLEARANCE SETBACK
			LIMIT OF CLEAR SIGHT LINE FOR SIGNS LIMIT OF CLEAR SIGHT LINE
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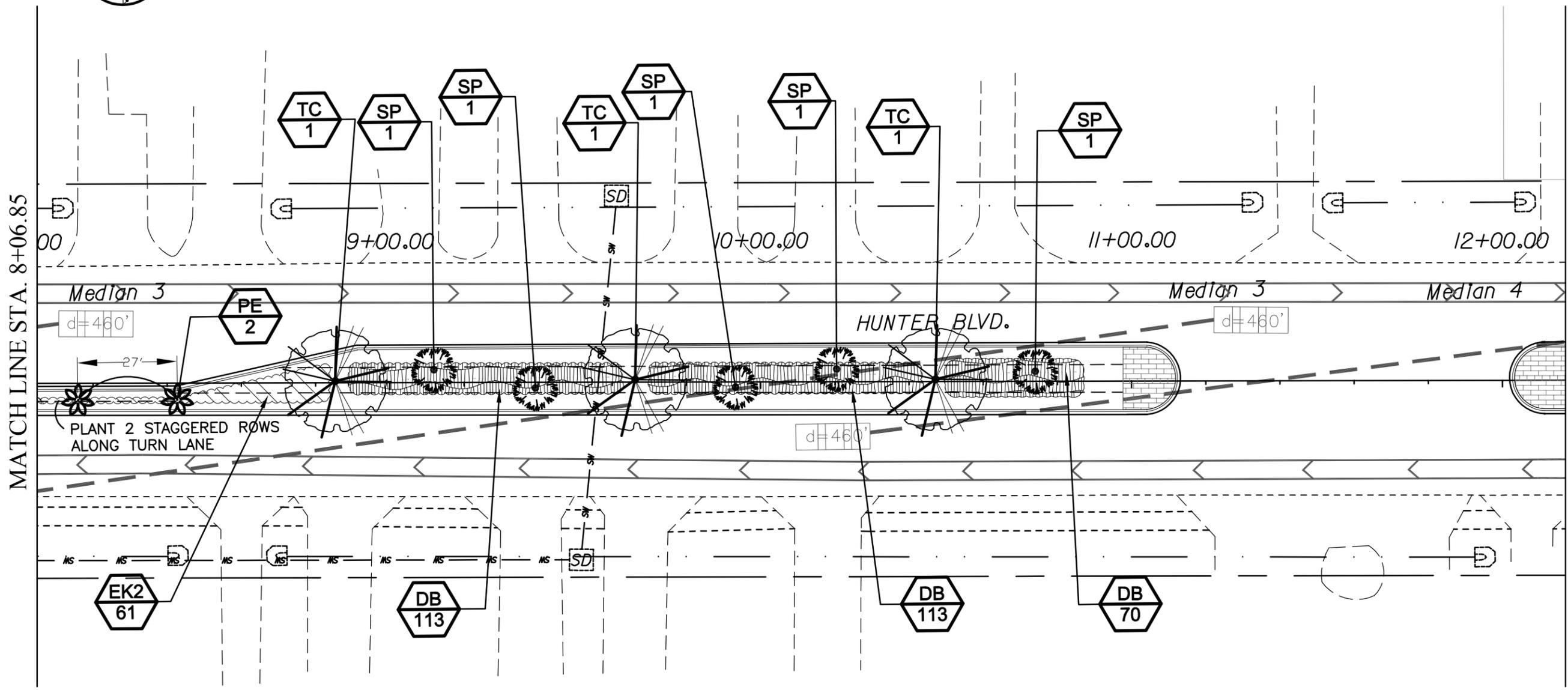
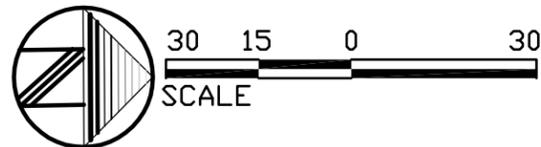
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HUNTER BLVD LANDSCAPE PLAN

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LANDSCAPE INSTALLATION NOTES

- FRANGIBLE AND NON-FRANGIBLE TREES ARE REQUIRED TO MEET THE MINIMUM 6 FOOT HORIZONTAL CLEARANCE IN THE MEDIANS OR AS PERMITTED BY CURRENT STANDARDS.
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- THE FIRST ROW OF PLANTS ALONG THE BACK OF THE CURBING SHALL BE OFFSET A MINIMUM OF THREE FEET OFF THE BACK OF THE CURBING. PLANTS WITH ON CENTER SPACING GREATER THAN THREE FEET SHALL BE OFFSET FROM THE CURBING THE SAME DISTANCE AS THE ON CENTER SPECIFIED SPACING OF THE PLANTS.
- ALL TREES AND PALMS SHALL HAVE A 4 FOOT MINIMUM RADIUS OF MULCH AROUND THE TRUNK. NO SHRUBS OR GROUND COVERS SHALL BE PLACED WITHIN THIS MULCH AREA.
- ALL SHRUBS AND GROUND COVERS PLANTING AREAS SHALL HAVE THE FIRST ROW OF PLANTS OFF THE BACK OF THE CURBING LAID OUT TO THE CURBING OFFSET DISTANCE (3' MIN.) AND TO THE SPECIFIED ON CENTER SPACING ALONG THE MEDIAN. THE REMAINING INTERIOR PLANT ROWS SHALL THEN BE SPACED TO BEST ACCOMMODATE THE LAYOUT OF THE PLANTS. THE INTERIOR PLANT ROWS SHALL BE LAID OUT IN A TRIANGULAR TYPE SPACING/PATTERN.
- A MINIMUM TWO FOOT WIDE MULCH BAND SHALL ALWAYS BE MAINTAINED BETWEEN THE OUTSIDE EDGE OF THE FOLIAGE OF THE FIRST ROW OF PLANTS AND THE BACK OF THE CURBING.
- THE LANDSCAPE ARCHITECT AND/OR PROJECT MANAGER SHALL APPROVE THE PLANTING LAYOUTS PRIOR TO PLANTING.

LANDSCAPE LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	PROPOSED CANOPY TREES		PROPOSED MATERIALS SCHEDULE SYM.
	PROPOSED FLOWERING/ACCENT TREES		PROPOSED PLANT QUANTITY AND/OR HEIGHT
	PROPOSED PALMS		HC - HORIZONTAL CLEARANCE SETBACK
	PROPOSED SHRUB AND/OR GROUND COVER BEDS. PATTERNS VARIES		LIMIT OF CLEAR SIGHT LINE FOR SIGNS
	ARCHITECTURAL PAVERS (EX. SEE ENG. PLANS)		LIMIT OF CLEAR SIGHT LINE

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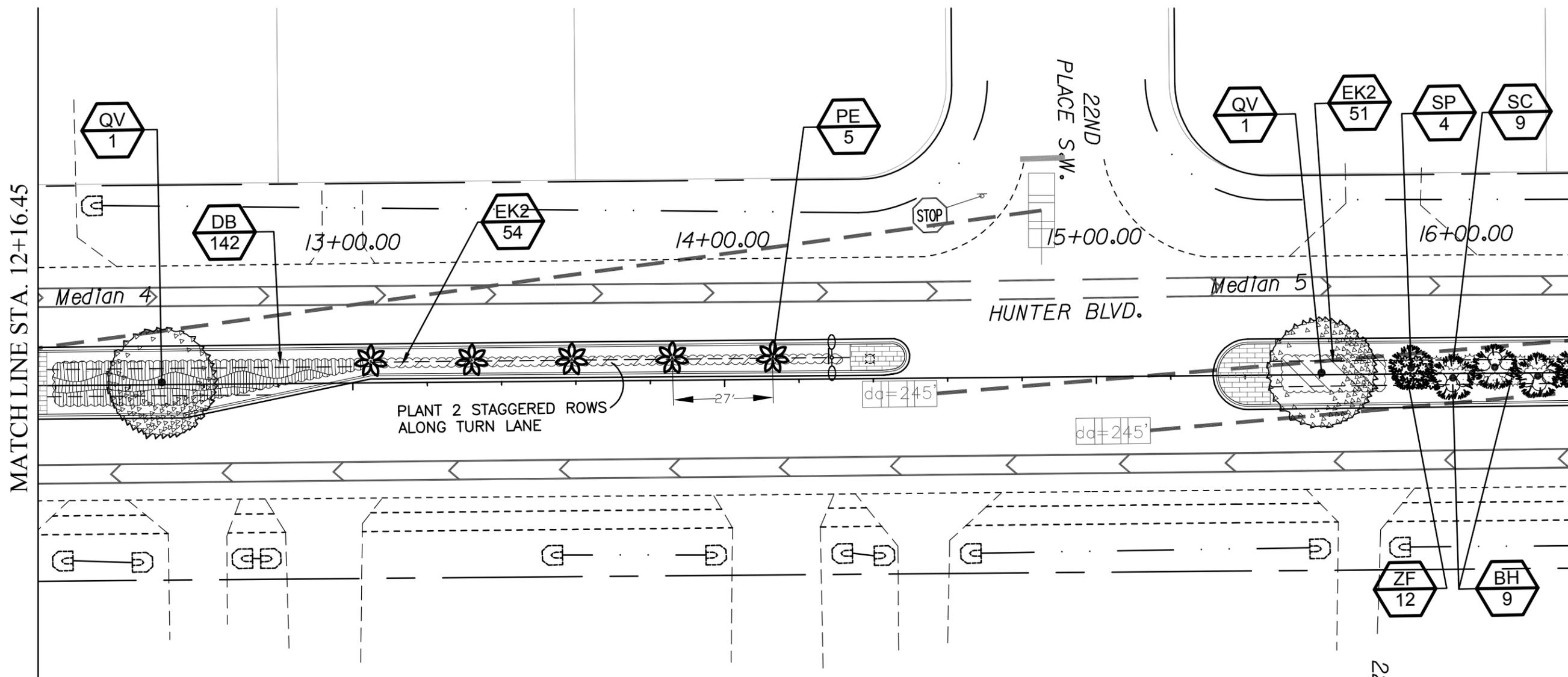
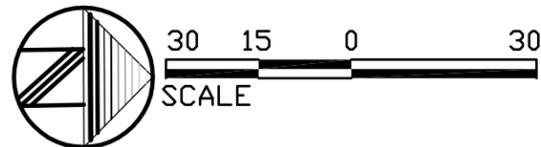
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COLLIER COUNTY TRANSPORTATION
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 GOLDEN GATE BEAUTIFICATION, M.S.T.U.

HUNTER BLVD LANDSCAPE PLAN

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3. THE FIRST ROW OF PLANTS ALONG THE BACK OF THE CURBING SHALL BE OFFSET A MINIMUM OF THREE FEET OFF THE BACK OF THE CURBING. PLANTS WITH ON CENTER SPACING GREATER THAN THREE FEET SHALL BE OFFSET FROM THE CURBING THE SAME DISTANCE AS THE ON CENTER SPECIFIED SPACING OF THE PLANTS.
4. ALL TREES AND PALMS SHALL HAVE A 4 FOOT MINIMUM RADIUS OF MULCH AROUND THE TRUNK. NO SHRUBS OR GROUND COVERS SHALL BE PLACED WITHIN THIS MULCH AREA.
5. ALL SHRUBS AND GROUND COVERS PLANTING AREAS SHALL HAVE THE FIRST ROW OF PLANTS OFF THE BACK OF THE CURBING LAID OUT TO THE CURBING OFFSET DISTANCE (3' MIN.) AND TO THE SPECIFIED ON CENTER SPACING ALONG THE MEDIAN. THE REMAINING INTERIOR PLANT ROWS SHALL THEN BE SPACED TO BEST ACCOMMODATE THE LAYOUT OF THE PLANTS. THE INTERIOR PLANT ROWS SHALL BE LAID OUT IN A TRIANGULAR TYPE SPACING/PATTERN.
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LANDSCAPE LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	PROPOSED CANOPY TREES		PROPOSED MATERIALS SCHEDULE SYM. PROPOSED PLANT QUANTITY AND/OR HEIGHT
	PROPOSED FLOWERING/ ACCENT TREES		HC - HORIZONTAL CLEARANCE SETBACK LIMIT OF CLEAR SIGHT LINE FOR SIGNS LIMIT OF CLEAR SIGHT LINE
	PROPOSED PALMS		PROPOSED SHRUB AND/OR GROUND COVER BEDS. PATTERNS VARIES
			ARCHITECTURAL PAVERS (EX. SEE ENG. PLANS)

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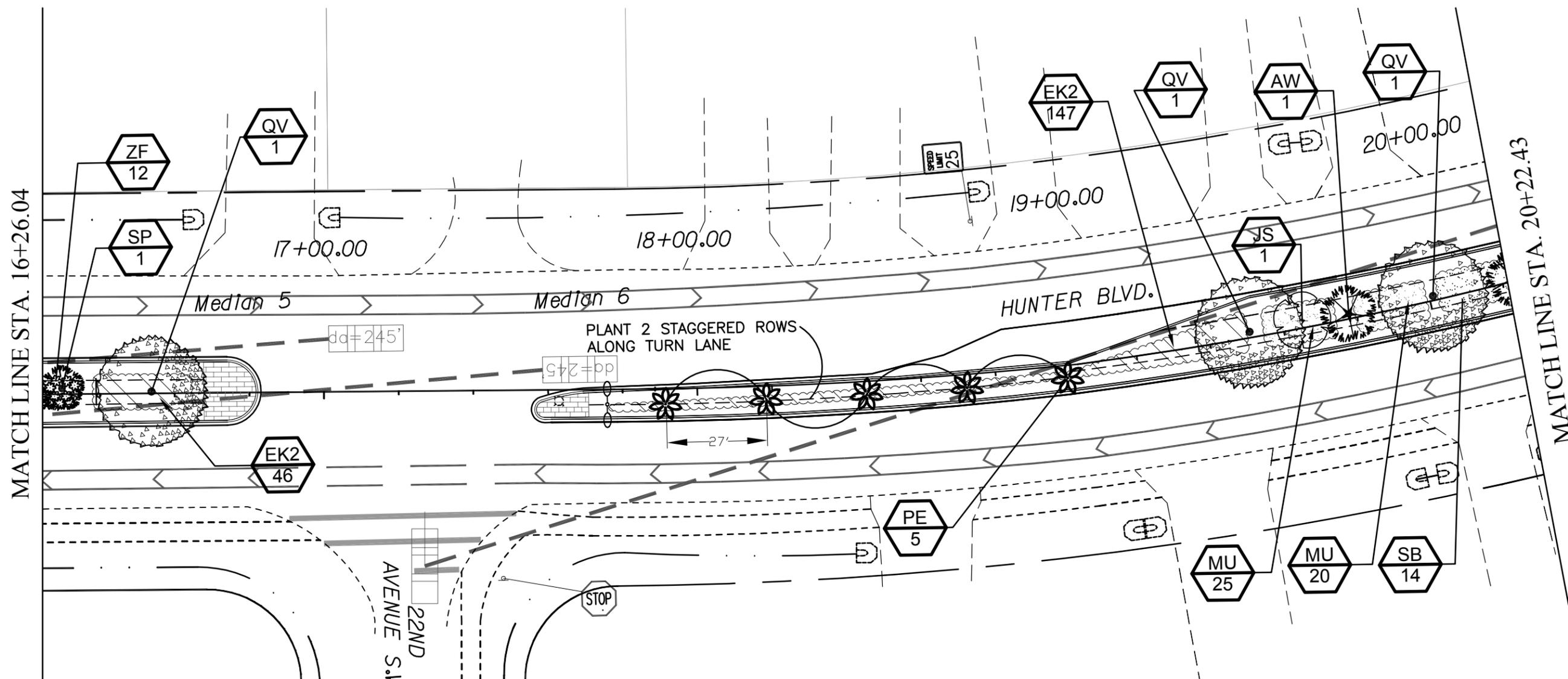
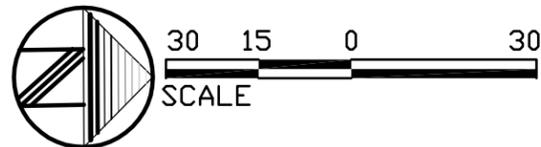
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4. ALL TREES AND PALMS SHALL HAVE A 4 FOOT MINIMUM RADIUS OF MULCH AROUND THE TRUNK. NO SHRUBS OR GROUND COVERS SHALL BE PLACED WITHIN THIS MULCH AREA.
5. ALL SHRUBS AND GROUND COVERS PLANTING AREAS SHALL HAVE THE FIRST ROW OF PLANTS OFF THE BACK OF THE CURBING LAID OUT TO THE CURBING OFFSET DISTANCE (3' MIN.) AND TO THE SPECIFIED ON CENTER SPACING ALONG THE MEDIAN. THE REMAINING INTERIOR PLANT ROWS SHALL THEN BE SPACED TO BEST ACCOMMODATE THE LAYOUT OF THE PLANTS. THE INTERIOR PLANT ROWS SHALL BE LAID OUT IN A TRIANGULAR TYPE SPACING/PATTERN.
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LANDSCAPE LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
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	PROPOSED FLOWERING/ACCENT TREES		PROPOSED PLANT QUANTITY AND/OR HEIGHT
	PROPOSED PALMS		HC - HORIZONTAL CLEARANCE SETBACK
			LIMIT OF CLEAR SIGHT LINE FOR SIGNS
			LIMIT OF CLEAR SIGHT LINE
			PROPOSED SHRUB AND/OR GROUND COVER BEDS. PATTERNS VARIES
			ARCHITECTURAL PAVERS (EX. SEE ENG. PLANS)

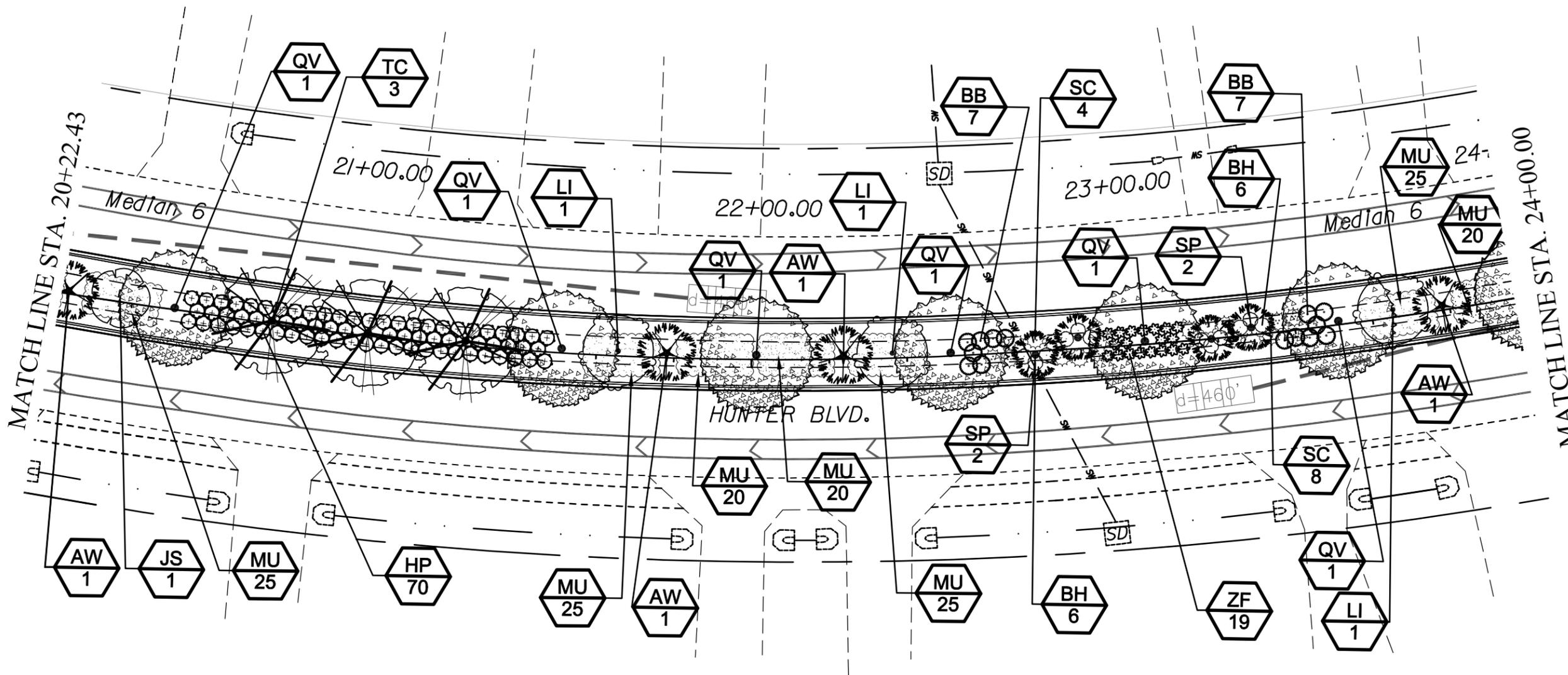
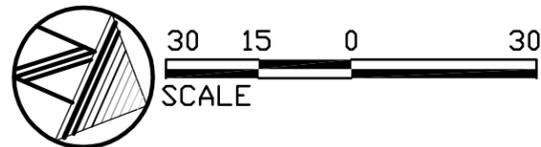
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HUNTER BLVD LANDSCAPE PLAN

SHEET NO.
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3. THE FIRST ROW OF PLANTS ALONG THE BACK OF THE CURBING SHALL BE OFFSET A MINIMUM OF THREE FEET OFF THE BACK OF THE CURBING. PLANTS WITH ON CENTER SPACING GREATER THAN THREE FEET SHALL BE OFFSET FROM THE CURBING THE SAME DISTANCE AS THE ON CENTER SPECIFIED SPACING OF THE PLANTS.
4. ALL TREES AND PALMS SHALL HAVE A 4 FOOT MINIMUM RADIUS OF MULCH AROUND THE TRUNK. NO SHRUBS OR GROUND COVERS SHALL BE PLACED WITHIN THIS MULCH AREA.
5. ALL SHRUBS AND GROUND COVERS PLANTING AREAS SHALL HAVE THE FIRST ROW OF PLANTS OFF THE BACK OF THE CURBING LAID OUT TO THE CURBING OFFSET DISTANCE (3' MIN.) AND TO THE SPECIFIED ON CENTER SPACING ALONG THE MEDIAN. THE REMAINING INTERIOR PLANT ROWS SHALL THEN BE SPACED TO BEST ACCOMMODATE THE LAYOUT OF THE PLANTS. THE INTERIOR PLANT ROWS SHALL BE LAID OUT IN A TRIANGULAR TYPE SPACING/PATTERN.
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LANDSCAPE LEGEND			
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	PROPOSED FLOWERING/ACCENT TREES		HC - HORIZONTAL CLEARANCE SETBACK
	PROPOSED PALMS		LIMIT OF CLEAR SIGHT LINE FOR SIGNS
			LIMIT OF CLEAR SIGHT LINE
			PROPOSED SHRUB AND/OR GROUND COVER BEDS. PATTERNS VARIES
			ARCHITECTURAL PAVERS (EX. SEE ENG. PLANS)

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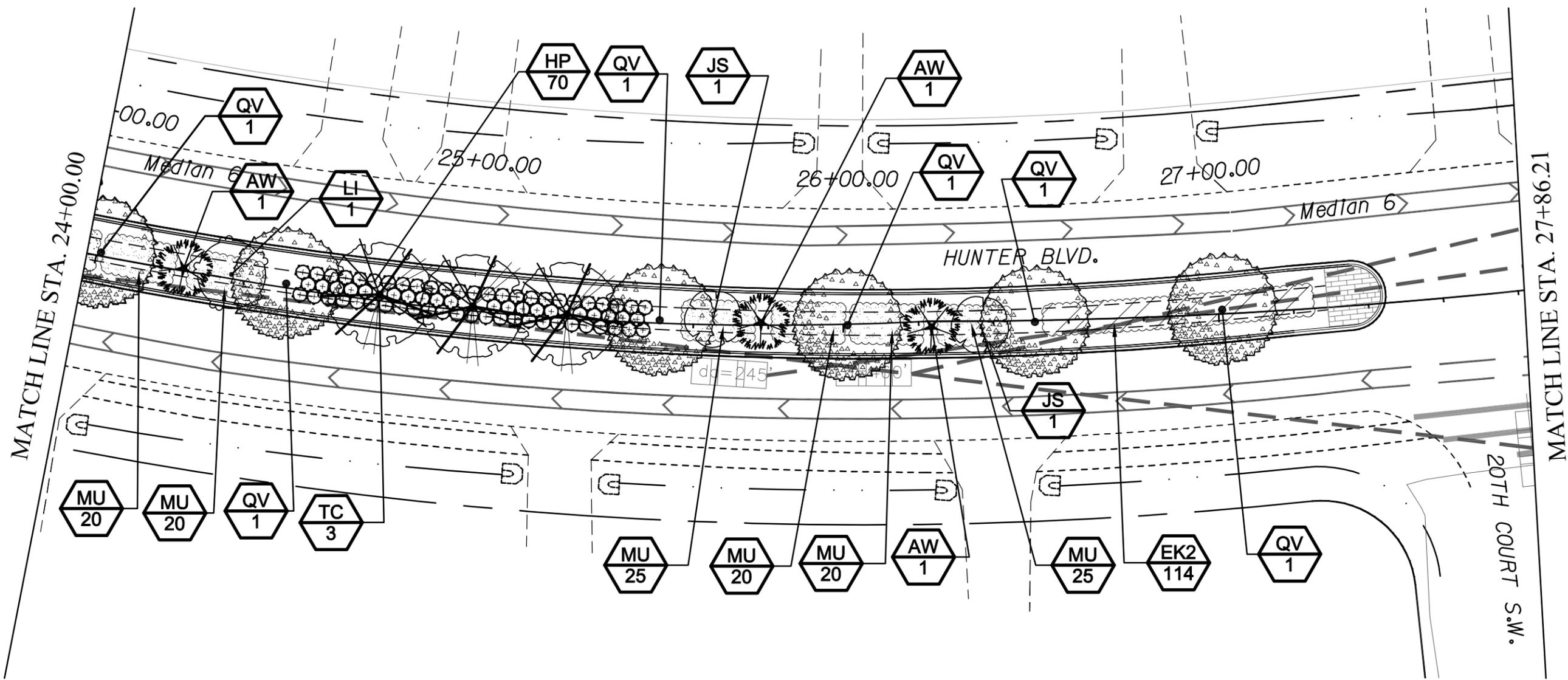
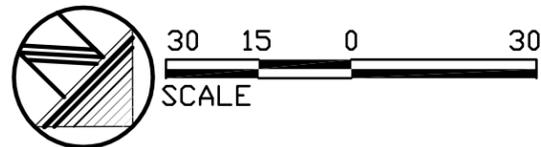
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HUNTER BLVD LANDSCAPE PLAN

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4. ALL TREES AND PALMS SHALL HAVE A 4 FOOT MINIMUM RADIUS OF MULCH AROUND THE TRUNK. NO SHRUBS OR GROUND COVERS SHALL BE PLACED WITHIN THIS MULCH AREA.
5. ALL SHRUBS AND GROUND COVERS PLANTING AREAS SHALL HAVE THE FIRST ROW OF PLANTS OFF THE BACK OF THE CURBING LAID OUT TO THE CURBING OFFSET DISTANCE (3' MIN.) AND TO THE SPECIFIED ON CENTER SPACING ALONG THE MEDIAN. THE REMAINING INTERIOR PLANT ROWS SHALL THEN BE SPACED TO BEST ACCOMMODATE THE LAYOUT OF THE PLANTS. THE INTERIOR PLANT ROWS SHALL BE LAID OUT IN A TRIANGULAR TYPE SPACING/PATTERN.
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LANDSCAPE LEGEND			
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	PROPOSED FLOWERING/ACCENT TREES		HC - HORIZONTAL CLEARANCE SETBACK
	PROPOSED PALMS		LIMIT OF CLEAR SIGHT LINE FOR SIGNS
	PROPOSED SHRUB AND/OR GROUND COVER BEDS. PATTERNS VARIES		LIMIT OF CLEAR SIGHT LINE
			ARCHITECTURAL PAVERS (EX. SEE ENG. PLANS)

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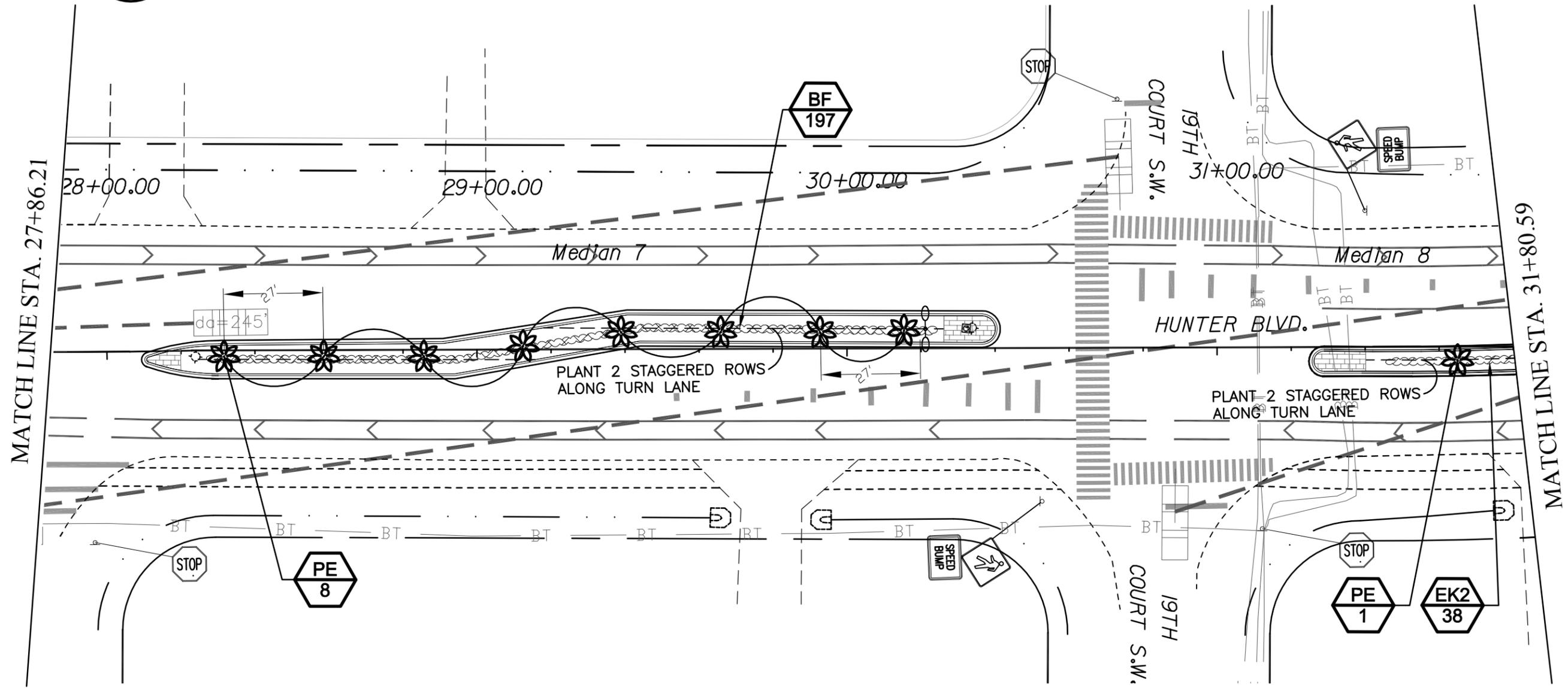
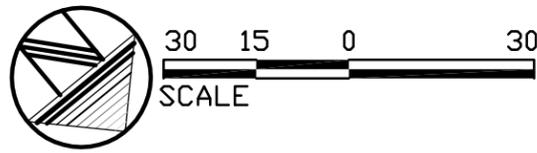
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LANDSCAPE LEGEND			
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	PROPOSED SHRUB AND/OR GROUND COVER BEDS. PATTERNS VARIES		LIMIT OF CLEAR SIGHT LINE FOR SIGNS
	ARCHITECTURAL PAVERS (EX. SEE ENG. PLANS)		LIMIT OF CLEAR SIGHT LINE

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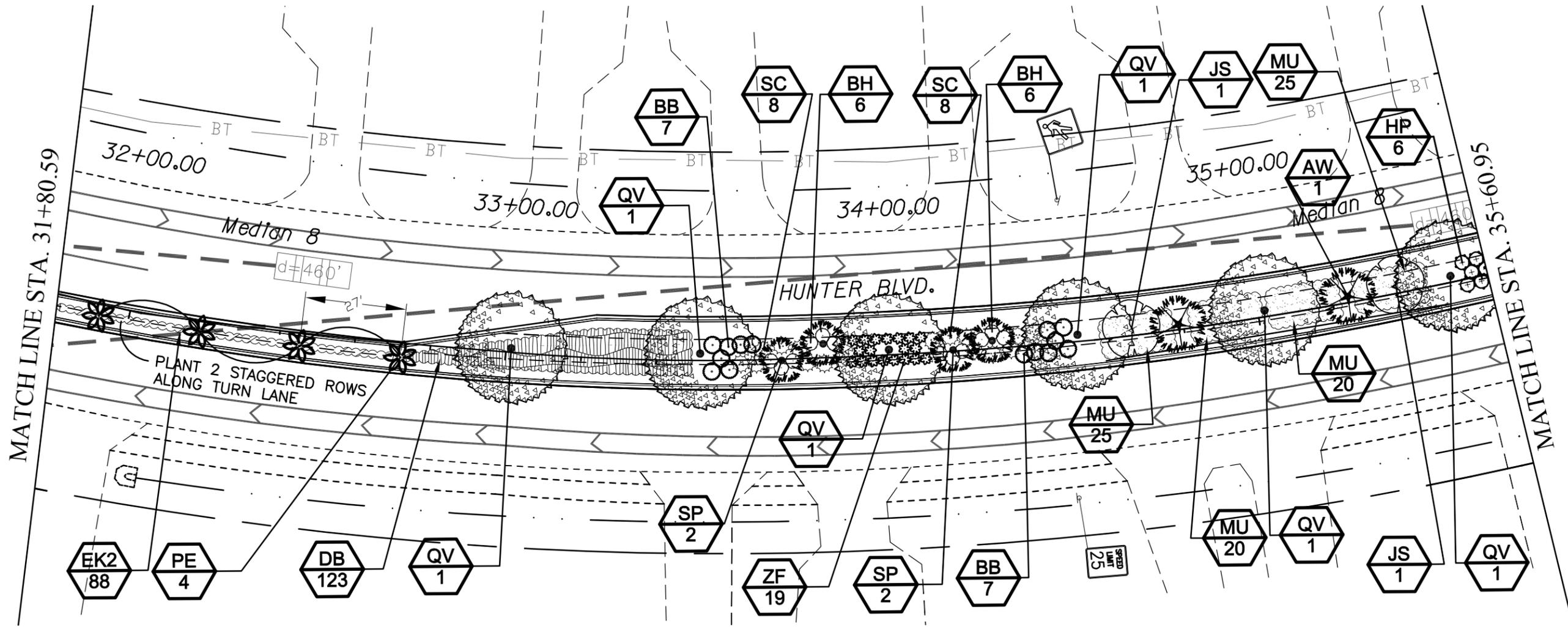
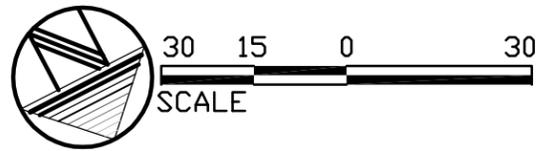
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	PROPOSED PALMS		LIMIT OF CLEAR SIGHT LINE FOR SIGNS
	PROPOSED SHRUB AND/OR GROUND COVER BEDS. PATTERNS VARIES		LIMIT OF CLEAR SIGHT LINE
	ARCHITECTURAL PAVERS (EX. SEE ENG. PLANS)		

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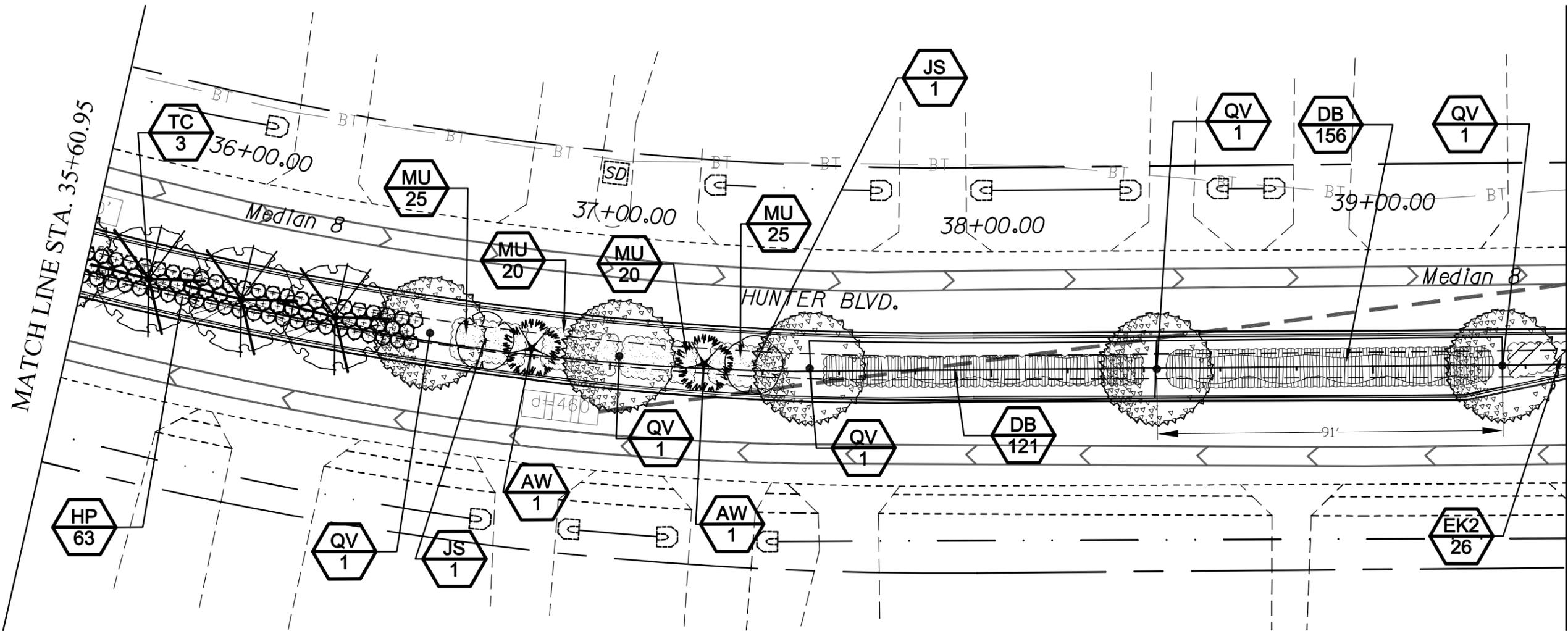
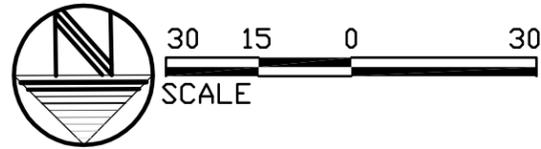
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3. THE FIRST ROW OF PLANTS ALONG THE BACK OF THE CURBING SHALL BE OFFSET A MINIMUM OF THREE FEET OFF THE BACK OF THE CURBING. PLANTS WITH ON CENTER SPACING GREATER THAN THREE FEET SHALL BE OFFSET FROM THE CURBING THE SAME DISTANCE AS THE ON CENTER SPECIFIED SPACING OF THE PLANTS.
4. ALL TREES AND PALMS SHALL HAVE A 4 FOOT MINIMUM RADIUS OF MULCH AROUND THE TRUNK. NO SHRUBS OR GROUND COVERS SHALL BE PLACED WITHIN THIS MULCH AREA.
5. ALL SHRUBS AND GROUND COVERS PLANTING AREAS SHALL HAVE THE FIRST ROW OF PLANTS OFF THE BACK OF THE CURBING LAID OUT TO THE CURBING OFFSET DISTANCE (3' MIN.) AND TO THE SPECIFIED ON CENTER SPACING ALONG THE MEDIAN. THE REMAINING INTERIOR PLANT ROWS SHALL THEN BE SPACED TO BEST ACCOMMODATE THE LAYOUT OF THE PLANTS. THE INTERIOR PLANT ROWS SHALL BE LAID OUT IN A TRIANGULAR TYPE SPACING/PATTERN.
6. A MINIMUM TWO FOOT WIDE MULCH BAND SHALL ALWAYS BE MAINTAINED BETWEEN THE OUTSIDE EDGE OF THE FOLIAGE OF THE FIRST ROW OF PLANTS AND THE BACK OF THE CURBING.
7. THE LANDSCAPE ARCHITECT AND/OR PROJECT MANAGER SHALL APPROVE THE PLANTING LAYOUTS PRIOR TO PLANTING.

LANDSCAPE LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	PROPOSED CANOPY TREES		PROPOSED MATERIALS SCHEDULE SYM. PROPOSED PLANT QUANTITY AND/OR HEIGHT
	PROPOSED FLOWERING/ ACCENT TREES		HC - HORIZONTAL CLEARANCE SETBACK
	PROPOSED PALMS		LIMIT OF CLEAR SIGHT LINE FOR SIGNS
	PROPOSED SHRUB AND/OR GROUND COVER BEDS. PATTERNS VARIES		LIMIT OF CLEAR SIGHT LINE
	ARCHITECTURAL PAVERS (EX. SEE ENG. PLANS)		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

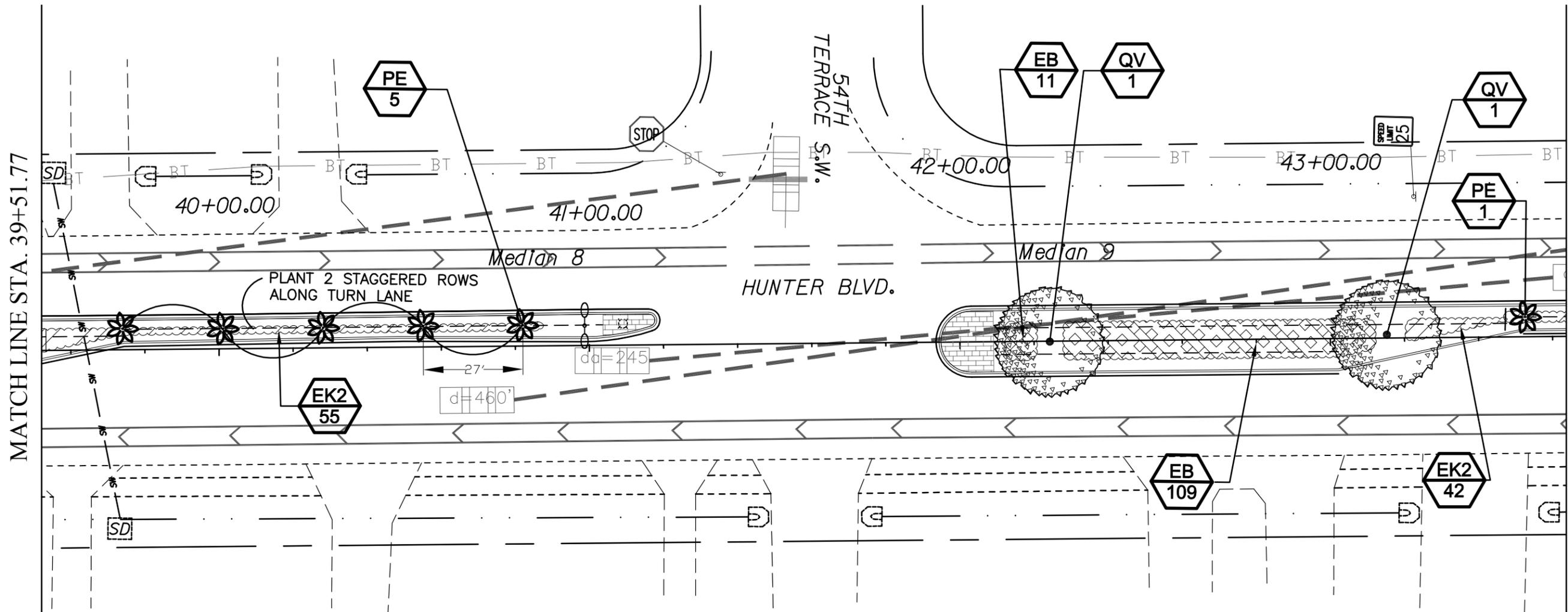
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COLLIER COUNTY TRANSPORTATION
 CORONADO PKWY. & HUNTER BLVD.
 GOLDEN GATE BEAUTIFICATION, M.S.T.U.

HUNTER BLVD LANDSCAPE PLAN

SHEET NO.
LD-28

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MATCH LINE STA. 39+51.77

MATCH LINE STA. 43+61.37

100% CONSTRUCTION PLANS

LANDSCAPE INSTALLATION NOTES

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	PROPOSED SHRUB AND/OR GROUND COVER BEDS. PATTERNS VARIES		LIMIT OF CLEAR SIGHT LINE FOR SIGNS
	ARCHITECTURAL PAVERS (EX. SEE ENG. PLANS)		LIMIT OF CLEAR SIGHT LINE

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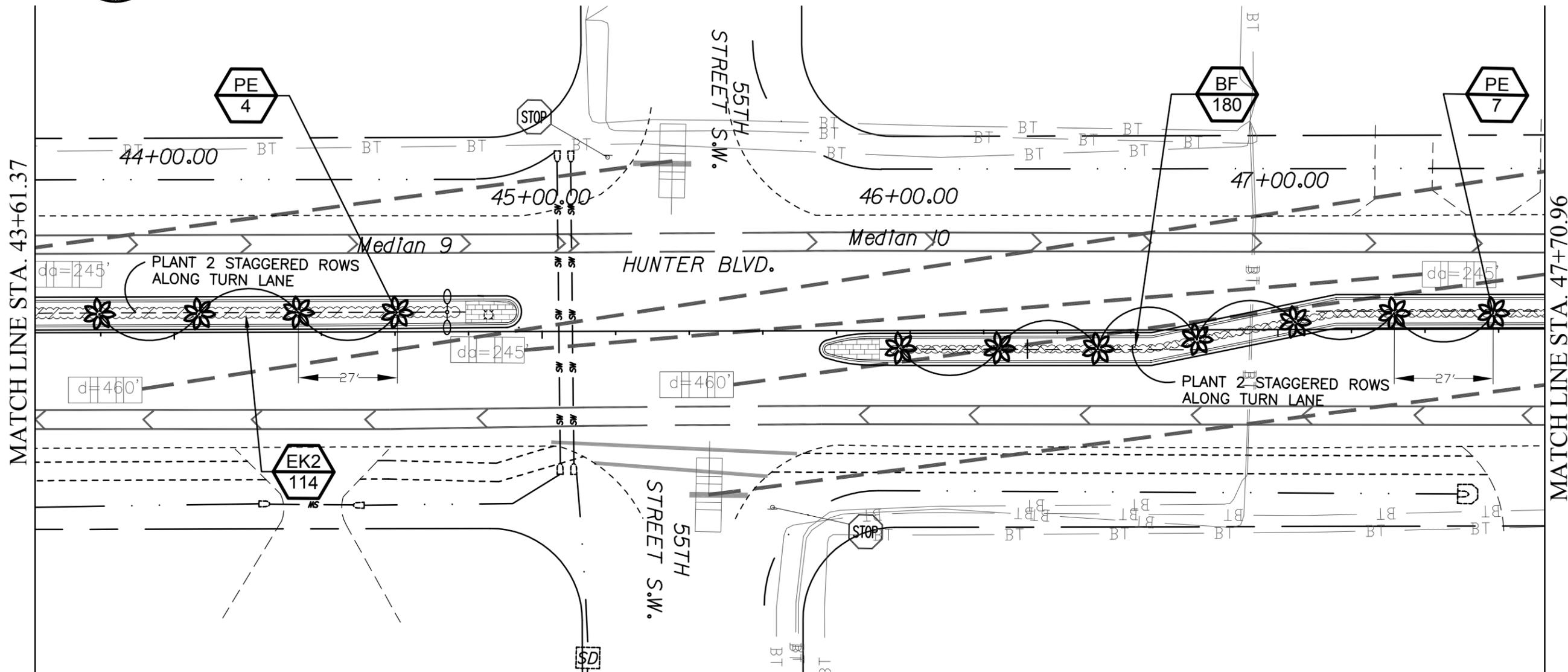
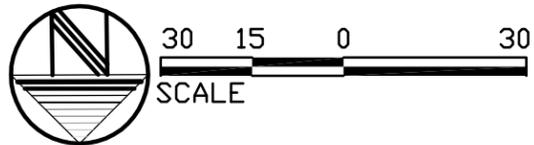
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 LD-29

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MATCH LINE STA. 43+61.37

MATCH LINE STA. 47+70.96

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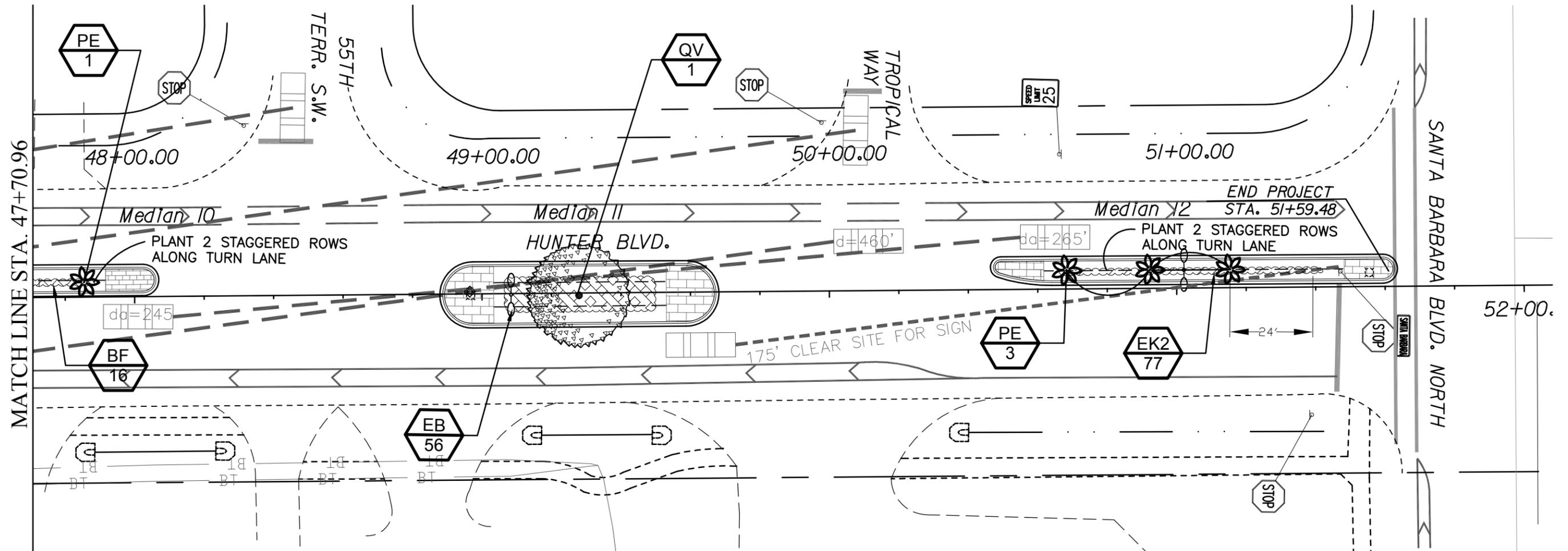
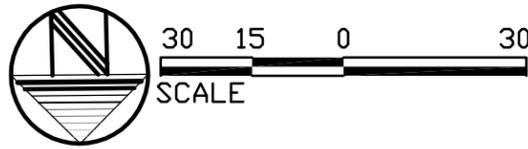
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 LD-30

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 GOLDEN GATE BEAUTIFICATION, M.S.T.U.

HUNTER BLVD LANDSCAPE PLAN

SHEET NO.
 LD-31

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LANDSCAPE SPECIFICATIONS

1. SODDING

1.1 THE SODDING SHALL BE INSTALLED AND MAINTAINED PER THE FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION " 2010", SECTION 575 AND 981.

1.2 SOD TYPE SHALL BE ARGENTINE BAHIA GRASS.

2. SEEDING

2.1 THE SEEDING SHALL BE INSTALLED, ESTABLISHED AND MAINTAINED PER THE FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION " 2010", SECTION 570, 981 AND 983.

2.2 SEEDING SHALL BE WITH BAHIA GRASS.

3. LANDSCAPE INSTALLATION

3.1 THE LANDSCAPE PLANTINGS SHALL BE INSTALLED AND MAINTAINED PER THE FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION " 2010", SECTION 580 OR AS AMENDED BY THE SPECIFICATIONS AND PLANS.

3.2 DESIGN STANDARDS INDEX 544 SHALL BE AMENDED TO PROVIDE FOUR GUYS OR BRACES PER PLANT (4 AT 90° APART)

3.2 FERTILIZER

THE FERTILIZER SPECIFIED IN "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION " 2010", SECTION 982 SHALL BE AMENDED AND/OR SUBSTITUTED AS FOLLOWS:

GRANULAR 8-2-12 FERTILIZER SHALL BE APPLIED AT THE FOLLOWING RATES:

(8) percent nitrogen, (2) percent phosphorous, (12) percent potassium, plus 4Mg and TecMag micro-nutrients.
0.5 pound per 100 sq. ft. (COUNTY TO PROVIDE ANALYSIS SHEET)

OR

GRANULAR 0-0-25 FERTILIZER SHALL BE APPLIED AT THE FOLLOWING RATES:

(0) percent nitrogen, (0) percent phosphorous, (25) percent A/C SOP KMAG 4.1 Fe, 4.9 Mg, 3.6 Mn FL
4.0 pound per 1000 sq. ft.

AND

TABLET FERTILIZER SHALL BE IN 21 GRAM SIZE WITH THE FOLLOWING ANALYSIS:

(20) percent nitrogen, (10) percent phosphorus, (5) percent potassium.
TREES AND PALMS (>10'HT.) 2 TABLETS PER 1" OF CALIPER
7 GAL. TO 10 GAL. CONTAINER 4 TABLETS PER PLANT
3 GAL. TO 5 GAL. CONTAINER 2 TABLETS PER PLANT
4" POT TO 1 GAL. CONTAINER 1 TABLET PER PLANT

"TRANSPORTATION BLEND" PREMIUM COLOR MULCH:

1. NATURAL WOOD FIBERS, INCLUDING PINE, OAK, MELALEUCA AND CANNOT COME FROM COMMERCIAL LOGGING OR HARVESTING AND MUST BE DERIVED EXCLUSIVE FROM RECYCLING SUCH AS LAND CLEARING.
2. WOOD IS HARVESTED FROM S. FLORIDA SOURCES
3. THE MANUFACTURING PROCESS "CURES" THE MULCH AND PROHIBITS SEED GERMINATION
4. THE RAW MATERIAL SHOULD BE A MINUS 3 1/2 INCH SHREDDED TEXTURED GROUND MULCH FROM NATURAL WOOD FIBER.
5. THE FINISHED PRODUCT CANNOT CONTAIN PALLETS, PLYWOOD, PT (CCA WOOD), OR CONSTRUCTION OR DEMOLITION WOOD MATERIALS
6. ALL PRODUCTS WILL HAVE MET THE STANDARDS FOR CERTIFICATION BY THE U.S. MUCH AND SOIL COUNCIL (WWW.MULCHANDSOILDCOUNCIL.ORG).
7. MULCH COLOR -- SHOULD MATCH FRESH CUT EUCALYPTUS - BURNT ORANGE

TREE PLANTING PROCEDURES AND SPECIFICATIONS

1. PREPARE PLANTING HOLE TO ANSI 300 STANDARDS.
2. INSTALL 4" DIA. BY 48" DEPTH SAND FILLED TREE SUMP AT THE BOTTOM OF TREE PLANTING PIT IF REQUIRED DUE TO POOR DRAINAGE.
3. REMOVE EXCESS SOIL FROM ROOT BALL EXPOSING ROOT FLARE OR UPPERMOST ROOTS.
4. CUT AWAY CIRCLING AND GIRDLING ROOTS.
5. PLACE ROOT BALL IN HOLE AND STRAIGHTEN TREE, ENSURING THE TOP OF THE ROOT BALL IS 1" TO 2" ABOVE GRADE.
 - A. FOR B&B MATERAIL REMOVE BURLAP AND ROPE FORM TOP OF ROOT BALL.
 - B. FOR B&B MATERAIL REMOVE ALL NON-BIODEGRADABLE WRAPPING FROM ROOTBALL.
 - C. FOR B&B MATERAIL, DO NOT REMOVE WIRE BASKET.
 - D. FOR B&B MATERIAL, BEND DOWN OR REMOVE WIRE THAT IS ABOVE EXISTING GRADE.
6. SHAVE UP TO ONE INCH OFF BOTTOM AND SIDES OF ROOT BALL TO REMOVE CIRCLING ROOTS.
7. BACKFILL 25% OF DEPTH. WATER AND TAMP IN WHILE MAINTAINING THE STRAIGHTED TREE.
8. BACKFILL TO 50% OF DEPTH. WATER AND TAMP IN WHILE MAINTAINING THE STRAIGHTED TREE.
9. BACKFILL TO 75% OF DEPTH. WATER AND TAMP IN WHILE MAINTAINING THE STRAIGHTED TREE.
10. BACKFILL THE REST AND THOROUGHLY WATER IN, MAINTAINING THE STRAIGHTED TREE.

NOTES:

1. ANY DEVIATION FROM THE ABOVE PROCESS WILL NOT BE CONSIDERED AS PER INDUSTRY STANDARDS AND WILL BE CAUSE FOR REJECTION OF THE WORK.
2. DAMAGE TO TREES FROM IMPROPER HANDLING WILL NOT BE CONSIDERED AS PER INDUSTRY STANDARDS AND WILL BE CAUSE FOR REJECTION OF THE WORK.
3. ONLY B&B PROPERLY ROOT PRUNED AND HARDENED OFF OAK TREES FROM ROOTS PLUS GROWERS WILL BE ACCEPTED.

RECOMMENDED PLANT ESTABLISHMENT PERIOD AND ANNUAL MAINTENANCE SCHEDULE													
DATE: 10/2009													
Collier County	PROJECT GENERAL MAINTENANCE SCHEDULE											LEGEND: X - Indicates times per month of service items	
MAINTENANCE SERVICE ITEMS	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEPT.	OCT.	NOV.	DEC.	COMMENTS / SPECIFICATIONS
1. PLANT REPLACEMENT	X	X	X	X	X	X	X	X	X	X	X	X	Review monthly replace after each interim inspection
2. FERTILIZATION	X		X		X		X		X		X		Annual fertilization schedule applications Supply and install, all fertilizer to be 100% slow release with water soluble components and sulfur-coated potassium sulfate
IRON APPLICATIONS	Six appl. of 8-2-12+4Mg+TecMag granular top dress @ a rate of 0.5 #/100 s.f. Soil application of iron (Trachelene (FeEDDHA (138)												
3. WATERING / IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	Set irrigation system as needed by Contractor for establishment period. Inspect and run irrigation system weekly
4. MOWING	XX	XX	XXXX	XXXX	XXXX	XXXX	All turf areas to be cut at a 3.0" height Mowing with mulching type mowers,						
5. EDGING	XX	XX	XXXX	XXXX	XXXX	XXXX	Edging to occur with each mowing Edging debris shall be blown off all sidewalks and pavement.						
6. WEEDING	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	All planting areas weeded weekly by hand and/or EPA approved chemical herbicides
7. PRUNING	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	Prune as needed to maintain plant shapes and to remove dead or diseased foliage
8. MULCHING					X							X	Apply 3" depth of mulch per application Recycled premium wood chips
9. TREE STAKING	Review installation staking/guying of Trees and Palms at 3 months intervals for removal.												Review and adjust weekly
10. PEST & DISEASE CONTROL	X	X	X	X	X	X	X	X	X	X	X	X	Pest & disease control to occur monthly on an as needed basis. Inspect areas weekly
11. TRASH REMOVAL	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	Trash removed with each site visit before mowing
12. INTERIM INSPECTIONS	X	X	X	X	X	X	X	X	X	X	X	X	Monthly during establishment and maintenance period.

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LANDSCAPE PLAN

SHEET NO.
LD-32

IRRIGATION LEGEND

-  IRRIGATION WATER SOURCE: PROPOSED 8" WELL & PUMP
10 HP VFD SUBMERSIBLE PUMP STATION WITH AUTOMATED
SELF-FLUSHING FILTRATION SYSTEM AND ELECTRICAL DISCONNECT.
INCLUDE 1-120V GFI OUTDOOR RECEPTACLE ON DISCONNECT POST.
LOCATED IN MEDIAN No. 5 ON HUNTER BLVD.
-  PROPOSED MOTOROLA PICCOLO XR 1, 2 OR 4 STATIONS, DC
REMOTE TERMINAL CONTROLLER WITH CONC. BANJO POST.
-  PROPOSED IRRIGATION MAIN, 1120-1220 CLASS 200 PVC
GASKET PIPE. PANTONE PURPLE 522C.
-  PROPOSED PVC TO HDPE MECHANICAL JOINT INTERCONNECTING
FITTING WITH TRANSITIONAL GASKETS.
-  PROPOSED CLASS 150 SDR 11 HDPE CASING TO BE USED
AS IRRIGATION MAIN OR LATERAL UNDER PAVED SURFACE CROSSINGS.
(BY OTHERS SEE ENG. MEDIAN IMPROVEMENT PLANS)
-  PROPOSED 1120-1220 CLASS 200 PVC LATERAL LINE. PANTONE
PURPLE 522C. SIZES VARY REFER TO PLANS.
-  PROPOSED ELECTRICAL CONDUIT FOR IRRIGATION PUMP STATION,
DIRECTIONAL BORE INSTALLATION. REFER TO NOTES FOR SIZES.
ELECTRIC SERVICE DROP CONDUIT & CONDUCTORS FROM POWER
POLE HAND HOLE TO THE ELECTRICAL CABINET SERVICE PANEL
TO PUMP STATION.
(BY OTHERS SEE ENG. MEDIAN IMPROVEMENT PLANS)
-  PROPOSED IRRIGATION MAIN OR SUBMAIN ISOLATION VALVES
-  PROPOSED 1-1/4" CLASS 200 PVC BUBBLERS ZONE LATERAL LINE.
-  PROPOSED IRRIG. MAIN PRESSURE RELEASE VALVE, REFER TO DETAIL.
-  PROPOSED IRRIG. MAIN AIR VACUUM RELEIF VALVE, REFER TO DETAIL.
-  PROPOSED IRRIGATION MAIN LINE PRESSURE CHECK POINT.
-  PROPOSED 2" SCH. 40 PVC CONDUIT FOR VALVE CONTROL WIRES
-  PROPOSED IRRIGATION MAIN FLUSH/BLOW OFF, SIZE TO LINE.
-  PROPOSED IRRIGATION ZONE CONTROL VALVE. FIELD ADJUST
LOCATION WHERE SHOWN IN CONFLICT WITH TREE/PALM.
DC SOLENOIDS REQUIRES A SEPARATE COMMON FOR EVERY FOUR (4)
VALVES.
-  PROPOSED 1" DIA. 3/4" SCH. 40 PVC BALL VALVE IN 10"
CIRCULAR VALVE BOX WITH GRAVEL.
-  PROPOSED IRRIGATION QUICK COUPLING VALVE. FIELD ADJUST
LOCATION WHERE SHOWN IN CONFLICT WITH TREE/PALM.
-  PROPOSED REFLECTIVE PAVEMENT MARKER, (2) PER VALVE OR GROUP OF
VALVES ONE ON EACH SIDE OF THE MEDIAN.
-  PROPOSED HUNTER PRO SPRAY 12" HIGH POP-UP SPRAY HEAD OFFSET
FROM BACK OFFSET FROM BACK OF CURBING TO VARY BASED UPON PLANT
MATERIAL BEING IRRIGATED.
-  NOZZLES: RCS-515, SS-530, ES-515, CS-530, & SS-918
-  PROPOSED ADJUSTABLE FLOOD BUBBLERS 2 PER TREE AT EDGE
OF ROOT BALL.
- (PROPOSED CASINGS BY OTHERS, SEE ENGINEERING MEDIAN IMPROVEMENT PLANS)
-  PROPOSED CASING DESIGNATED IDENTIFICATION
PROPOSED CASING SIZE
PROPOSED CASING ESTIMATED LENGTH
-  PROPOSED PICCOLO CONTROLLER - ZONE CONTROL VALVE NUMBER
-  PROPOSED IRRIGATION ZONE CONTROL VALVE SIZE, AC OR DC
-  PROPOSED IRRIGATION ZONE ESTIMATED FLOW DEMAND
-  PROPOSED IRRIGATION ZONE SPRINKLER HEAD TYPE
-  PROPOSED IRRIGATION ZONE ESTIMATED PERCIPITATION RATE
-  PROPOSED VALVE CONTROL WIRE COMMON & ACTIVATION GA. SIZES
-  PROPOSED ELECTRICAL CABINET SEE "CONTROLLER DETAILS" SHEET
INSTALLATION TO ONLY INCLUDE ELECTRICAL SERVICE ENCLOSURE PORTION E-1

NO SYMBOL IRRINET CONTROLLER LOCATED ON GOLDEN GATE PARKWAY MEDIAN #12
SHALL BE MODIFIED TO OPERATE PROPOSED PICCOLO XR REMOTE CONTROLLERS.
COORDINATE REQUIRED UPGRADE MODIFICATIONS WITH COLLIER COUNTY IRRIGATION
PROJECT MANAGER. INSTALL PICCOLO INTERFACE UNIT (PIU) WITH POLE ANTENNA KIT.
UPGRADE AND INSTALLATION BY COUNTY.

ITEM	IRRIGATION MATERIALS SCHEDULE: 90% PLANS	UNIT	QTY.
IW / PS	Irrigation System Source: Install 8" well & submersible 10 hp 230V single phase pump with VFD control pump station Well, pump and pump station to be 100% operational per plans, details, specifications and manufacturer's specifications. To include master control & hydrometer globe mount valve; automatic self flushing filter system with discharge sump; well installation permits; all miscellaneous components, piping, wiring and fittings	Ea.	1
P	Controller: MOTOROLA Radio Piccolo XR 1, 2 or 4 Output/Station Irrigation Controller installation only To include: Mounting post set on site, grounding, valve wire connections, 100% operational per plans, details & specifications. Installation and zone valve connections per manufactures recommendations & specifications.	Ea.	13
ML2	2" PVC 1120-1220 Class 200 gasketed irrigation main line with Harco DIP fittings by trenching, Pantone Purple 522C.	L.F.	1154
ML3	3" PVC 1120-1220 Class 200 gasketed irrigation main line with Harco DIP fittings by trenching, Pantone Purple 522C.	L.F.	10372
WR12	Control Wire: AWG 12 ga. Wire (ground) solid copper, insulated suitable for direct burial	L.F.	520
WR14	Control Wire: AWG 14 ga. Wire (ground) solid copper, insulated suitable for direct burial	L.F.	1240
LF2	2" Irrigation main line blow off points assembly to include all piping & fittings	Ea.	3
PCP	Pressure check point 0-100 PSI Liquid filled pressure gauge and air valve with adequate Sch 40 pvc tees and outlet reducers at main & submain pressure check points.	Ea.	4
GV3	3" main line flanged epoxy coated isolation gate valve with non-rising stem Nibco or approved equal	Ea.	7
GV2	2" main line flanged epoxy coated isolation gate valve with non-rising stem Nibco or approved equal	Ea.	2
AR	Waterman AV-150, 1.5" Irrigation air vacuum release, Refer to detail	Ea.	4
PR	Waterman AA-6, 2.5" Irrigation pressure relief valve. Refer to detail	Ea.	4
QC	L.R. Nelson 7644, 1" Quick coupler valve installed within jumbo size valve box	Ea.	20
QKEY	Irrigation Quick coupling valve keys w/ swivel ell, one per four valves.	Ea.	5
VAL1.25DC	Toro 220-227-X-5, 1.25" 220 Series Brass Electric DC Solenoid Valve with pressure regulator; 2" Red White 206 Series isolation valve. All valve service tees and lines for multiple valve locations to be 3" dia., Size each zone valve connection piping to zone/valve GPM requirement. Install units within a jumbo size valve box per details & plans.	Ea.	28
VAL1.5DC	Toro 220-227-X-5, 1.5" 220 Series Brass Electric DC Solenoid Valve with pressure regulator; 2.5" Red White 206 Series isolation valve. All valve service tees and lines for multiple valve locations to be 3" dia., Size each zone valve connection piping to zone/valve GPM requirement. Install units within a jumbo size valve box per details & plans.	Ea.	3
POP12	Hunter Pro Series PROS-12-CV-R, 12" High Pop-Up Spray head body with drain check valve Refer to plan for patterns & nozzle ranges.	Ea.	524
BUB	Irritrol 533 Flood Bubbler, Adjustable flow rate, adjustable radius. Large canopy trees to receive 1 GPM, Small Palms and accent trees to receive .5 & .25 GPM.	Ea.	542
LP-PVC	Lateral line piping to be Class 160 PVC pipe - Refer to plan or pipe sizing schematics for sizes. Minimum piping from sprinkler to sprinkler shall be 3/4". All pipe to be reuse water color coded.		(INCLUDE IN HEAD PRICE)
RPM	Green color reflective pavement marker. To be installed on top of curb one on each side of median at each valve or group of valves.	Ea.	56
HDPEPVC3	3" HDPE-Class 150 SDR11 TO PVC piping mechanical joints	Ea.	26
HDPEPVC2	2" HDPE-Class 150 SDR11 TO PVC piping mechanical joints	Ea.	68
LOCATOR	Supply & Install County approved reuse water locator devices 50' o.c. along main line.	Ea.	231
ELECTRIC	Electric Service to include: Permits, Electrical Enclosure "A" per plans & detail E-1, Conductors and/or conduits from FPL hand hole to enclosure and from enclosure to disconnect and to pump station. Electrical service disconnect assembly to include outdoor 120V duplex/GFI receptacle mounted on disconnect post 5 feet from pump station; 2" sch. 40 electrical conduit by directional bore from enclosure to median is by others, See Eng. Plans All components for a 100% electrical service permitted installation per County, State & National Electrical Codes	LS	1
PVCBV	Install 1" Dia. 3/4" sch. 40 PVC ball valve in 10" circular valve box with gravel.	Ea.	

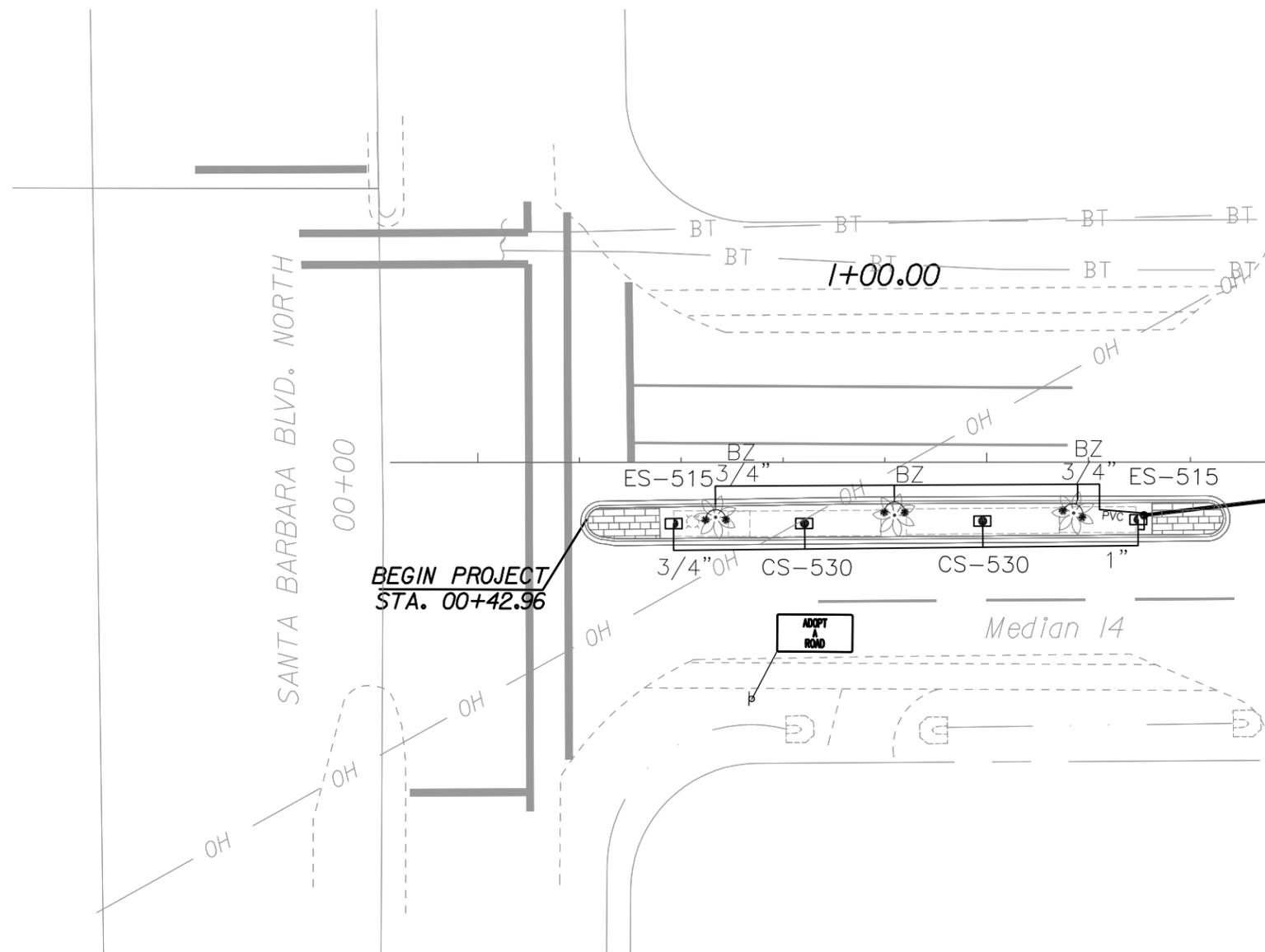
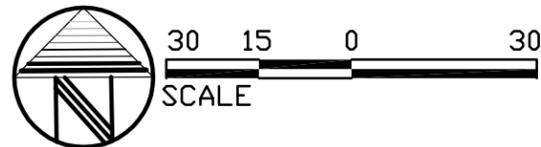
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COLLIER COUNTY TRANSPORTATION
CORONADO PKWY. & HUNTER BLVD.
GOLDEN GATE BEAUTIFICATION, M.S.T.U.

IRRIGATION LEGEND
SHEET NO.
LD-33

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MATCH LINE STA. 1+76.51

IRRIGATION LEGEND

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- PROPOSED IRRIGATION MAIN, 1120-1220 CLASS 200 PVC GASKET PIPE, PANTONE PURPLE 522C.
- PROPOSED PVC TO HDPE MECHANICAL JOINT INTERCONNECTING FITTING WITH TRANSITIONAL GASKETS.
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IRRIGATION LEGEND

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- PROPOSED VALVE CONTROL WIRE COMMON & ACTIVATION GA. SIZES
- PROPOSED ELECTRICAL CABINET SEE "CONTROLLER DETAILS" SHEET INSTALLATION TO ONLY INCLUDE ELECTRICAL SERVICE ENCLOSURE PORTION E-1
- PROPOSED REFLECTIVE PAVEMENT MARKER. (2) PER VALVE OR GROUP OF VALVES ONE ON EACH SIDE OF THE MEDIAN.

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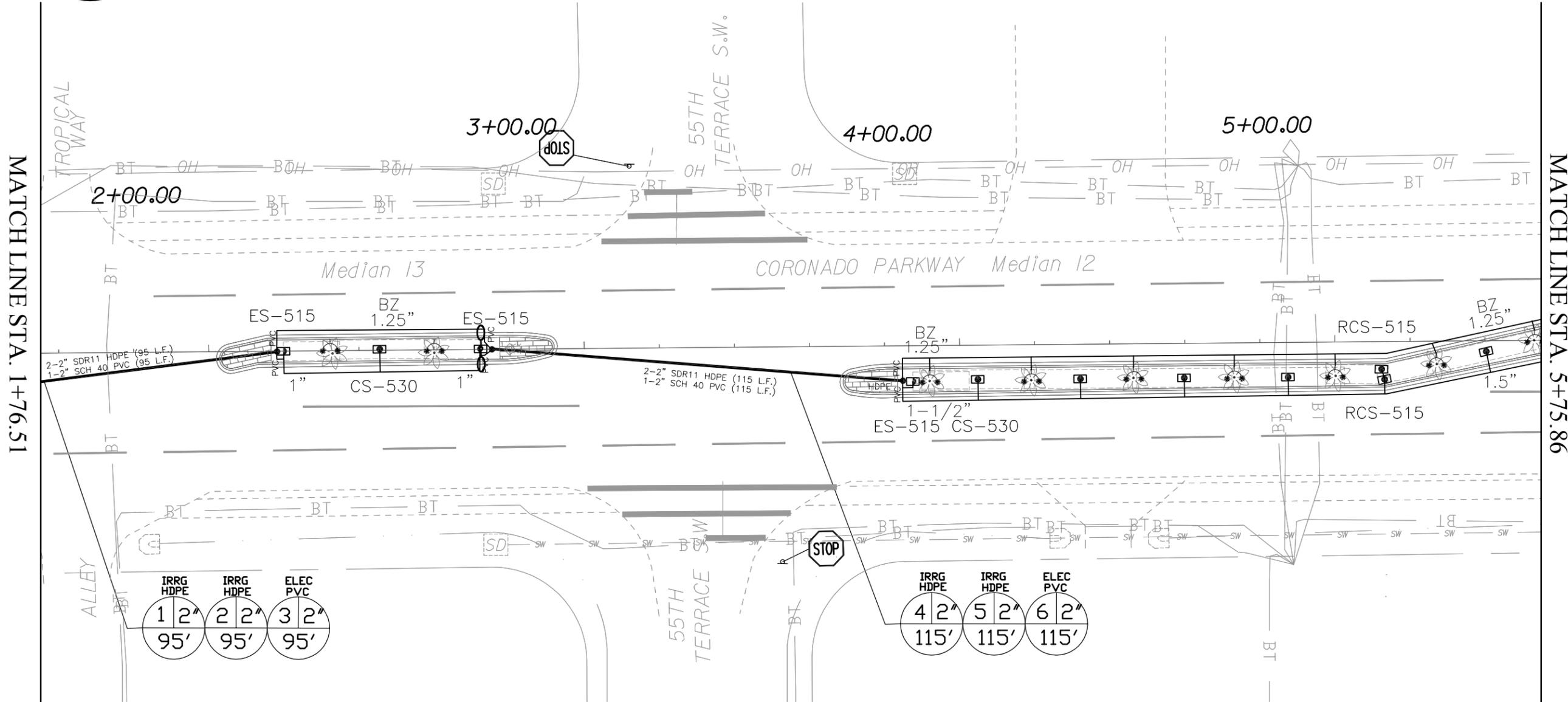
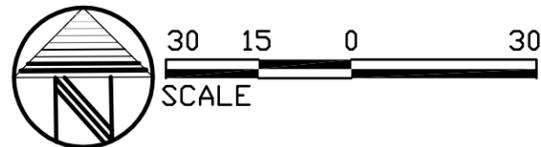
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CORONADO PKY IRRIGATION PLAN

SHEET NO.

LD-34

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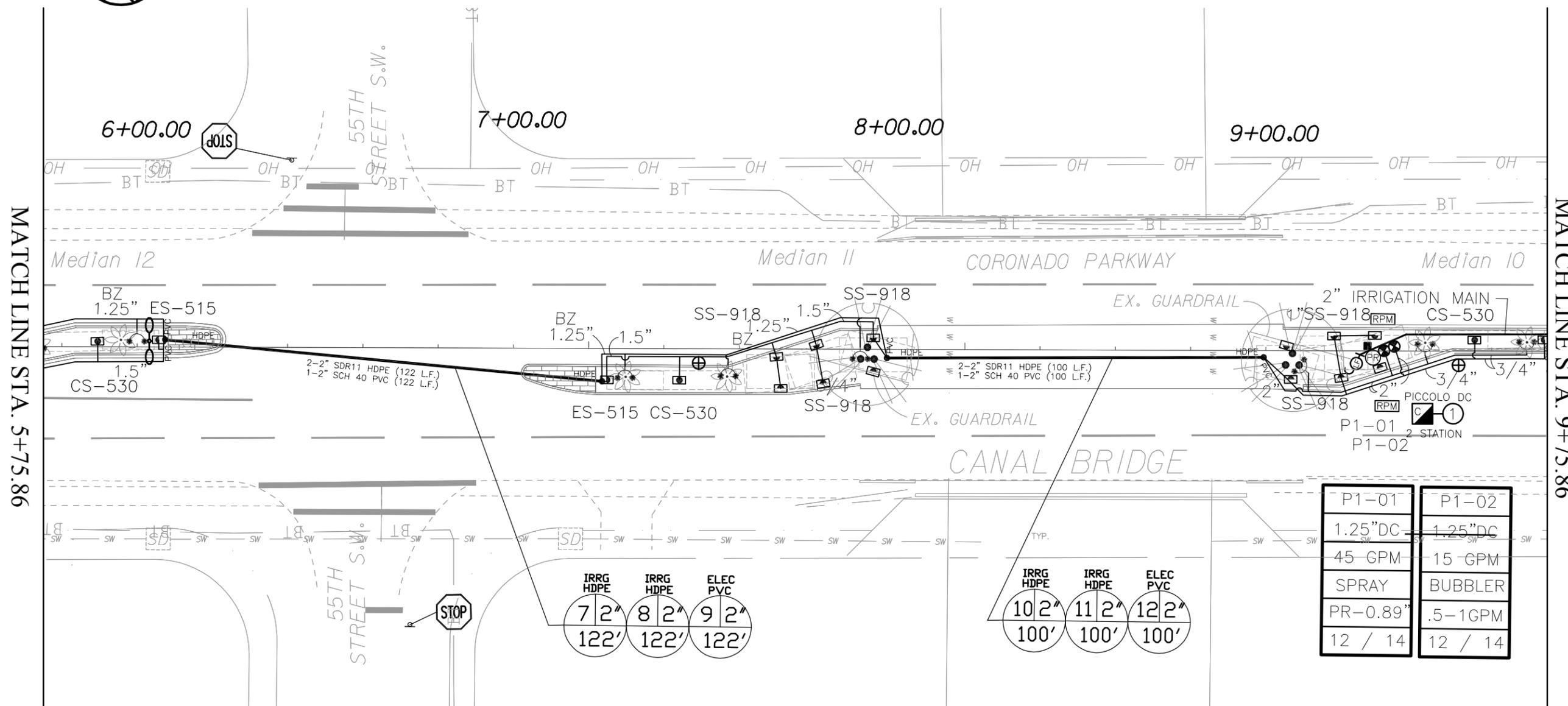
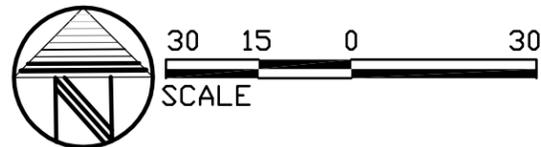
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MATCH LINE STA. 5+75.86

MATCH LINE STA. 9+75.86

P1-01	P1-02
1.25" DC	1.25" DC
45 GPM	15 GPM
SPRAY	BUBBLER
PR-0.89"	.5-1GPM
12 / 14	12 / 14

IRRG HDPE	IRRG HDPE	ELEC PVC
7 2"	8 2"	9 2"
122'	122'	122'

IRRG HDPE	IRRG HDPE	ELEC PVC
10 2"	11 2"	12 2"
100'	100'	100'

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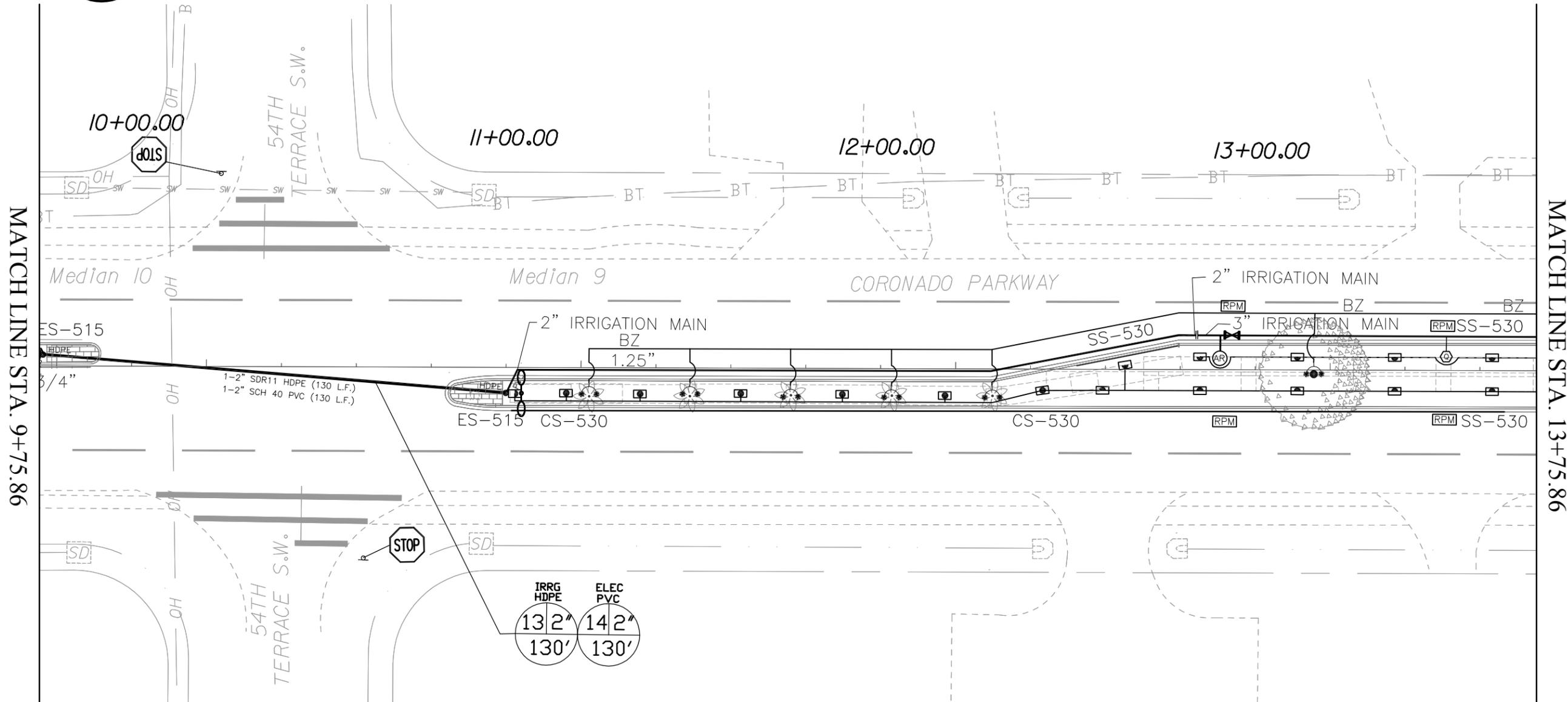
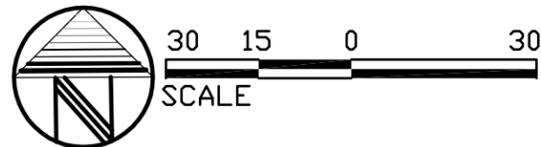
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CORONADO PKY IRRIGATION PLAN

SHEET NO.
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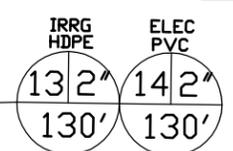
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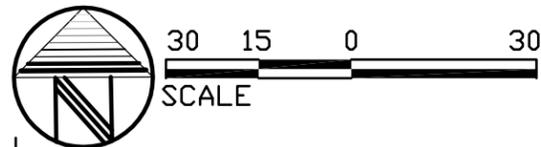
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 GOLDEN GATE BEAUTIFICATION, M.S.T.U.

CORONADO PKY IRRIGATION PLAN

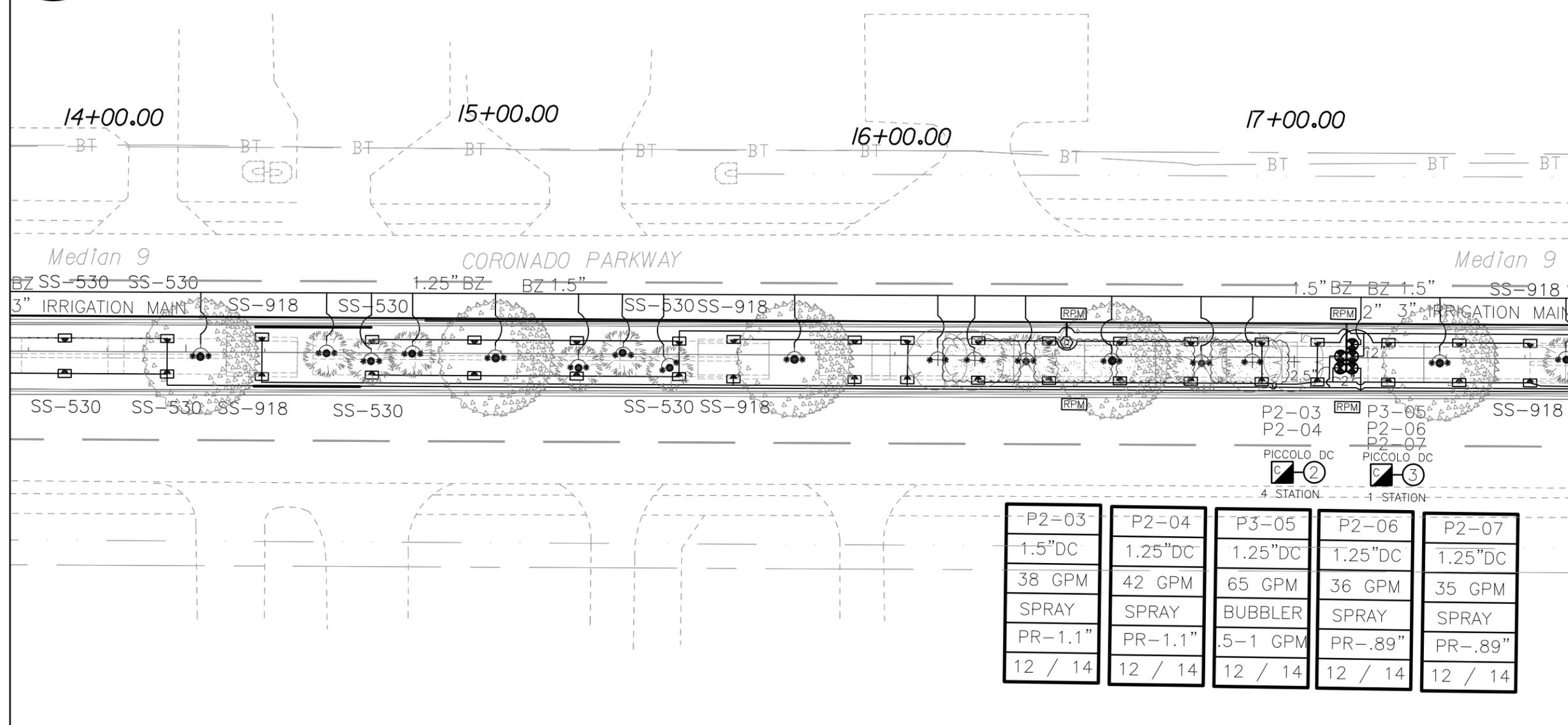
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P2-03	P2-04	P3-05	P2-06	P2-07
1.5" DC	1.25" DC	1.25" DC	1.25" DC	1.25" DC
38 GPM	42 GPM	65 GPM	36 GPM	35 GPM
SPRAY	SPRAY	BUBBLER	SPRAY	SPRAY
PR-1.1"	PR-1.1"	.5-1 GPM	PR-.89"	PR-.89"
12 / 14	12 / 14	12 / 14	12 / 14	12 / 14

IRRIGATION LEGEND

- IRRIGATION WATER SOURCE: PROPOSED 8" WELL & PUMP 10 HP VFD SUBMERSIBLE PUMP STATION WITH AUTOMATED SELF-FLUSHING FILTRATION SYSTEM AND ELECTRICAL DISCONNECT. INCLUDE 1-120V GFI OUTDOOR RECEPTACLE ON DISCONNECT POST. LOCATED IN MEDIAN No. 5 ON HUNTER BLVD.
- PROPOSED MOTOROLA PICCOLO XR 1, 2 OR 4 STATIONS, DC REMOTE TERMINAL CONTROLLER WITH CONC. BANJO POST.
- PROPOSED IRRIGATION MAIN, 1120-1220 CLASS 200 PVC GASKET PIPE. PANTONE PURPLE 522C.
- PROPOSED PVC TO HDPE MECHANICAL JOINT INTERCONNECTING FITTING WITH TRANSITIONAL GASKETS.
- PROPOSED CLASS 150 SDR 11 HDPE CASING TO BE USED AS IRRIGATION MAIN AND LATERALS UNDER PAVED SURFACE CROSSINGS. (BY OTHERS SEE ENG. MEDIAN IMPROVEMENT PLANS)
- PROPOSED 3/4" SCH. 40 PVC CONDUIT FOR VALVE CONTROL WIRES FROM PICCOLO TO VALVE BOX.

IRRIGATION LEGEND

- PROPOSED 1120-1220 CLASS 200 PVC LATERAL LINE. PANTONE PURPLE 522C. SIZES VARY REFER TO PLANS.
- PROPOSED ELECTRICAL CONDUIT FOR IRRIGATION PUMP STATION. DIRECTIONAL BORE INSTALLATION. REFER TO NOTES FOR SIZES. ELECTRIC SERVICE DROP CONDUIT & CONDUCTORS FROM POWER POLE HAND HOLE TO THE ELECTRICAL CABINET SERVICE PANEL TO PUMP STATION. (BY OTHERS SEE ENG. MEDIAN IMPROVEMENT PLANS)
- PROPOSED IRRIGATION MAIN OR SUBMAIN ISOLATION VALVES
- PROPOSED 3/4" - 1-1/5" CLASS 200 PVC BUBBLERS ZONE LATERAL LINE.
- PROPOSED IRRIG. MAIN PRESSURE RELEASE VALVE, REFER TO DETAIL.
- PROPOSED IRRIG. MAIN AIR VACUUM RELIEF VALVE, REFER TO DETAIL.
- PROPOSED IRRIGATION MAIN LINE PRESSURE CHECK POINT.

IRRIGATION LEGEND

- PROPOSED IRRIGATION MAIN FLUSH/BLOW OFF, SIZE TO LINE.
- PROPOSED IRRIGATION ZONE CONTROL VALVE. FIELD ADJUST LOCATION WHERE SHOWN IN CONFLICT WITH TREE/PALM. DC SOLENOIDS REQUIRES SEPARATE COMMONS FOR EVERY FOUR (4) VALVES.
- PROPOSED 1" DIA. 3/4" SCH. 40 PVC BALL VALVE IN 10" CIRCULAR VALVE BOX WITH GRAVEL.
- PROPOSED IRRIGATION QUICK COUPLING VALVE. FIELD ADJUST LOCATION WHERE SHOWN IN CONFLICT WITH TREE/PALM.
- PROPOSED HUNTER PRO SPRAY 12" HIGH POP-UP SPRAY HEAD OFFSET FROM BACK OFFSET FROM BACK OF CURBING TO VARY BASED UPON PLANT MATERIAL BEING IRRIGATED. NOZZLES: RCS-515, SS-530, ES-515, CS-530, & SS-918
- PROPOSED ADJUSTABLE FLOOD BUBBLERS 2 PER TREE AT EDGE OF ROOT BALL.

IRRIGATION LEGEND

- (PROPOSED CASINGS BY OTHERS, SEE ENGINEERING MEDIAN IMPROVEMENT PLANS) PROPOSED CASING DESIGNATED IDENTIFICATION
- PROPOSED CASING SIZE
- PROPOSED CASING ESTIMATED LENGTH
- PROPOSED PICCOLO CONTROLLER - ZONE CONTROL VALVE NUMBER
- PROPOSED IRRIGATION ZONE CONTROL VALVE SIZE, AC OR DC
- PROPOSED IRRIGATION ZONE ESTIMATED FLOW DEMAND
- PROPOSED IRRIGATION ZONE SPRINKLER HEAD TYPE
- PROPOSED IRRIGATION ZONE ESTIMATED PRECIPITATION RATE
- PROPOSED VALVE CONTROL WIRE COMMON & ACTIVATION GA. SIZES
- PROPOSED ELECTRICAL CABINET SEE "CONTROLLER DETAILS" SHEET INSTALLATION TO ONLY INCLUDE ELECTRICAL SERVICE ENCLOSURE PORTION E-1
- PROPOSED REFLECTIVE PAVEMENT MARKER, (2) PER VALVE OR GROUP OF VALVES ONE ON EACH SIDE OF THE MEDIAN.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

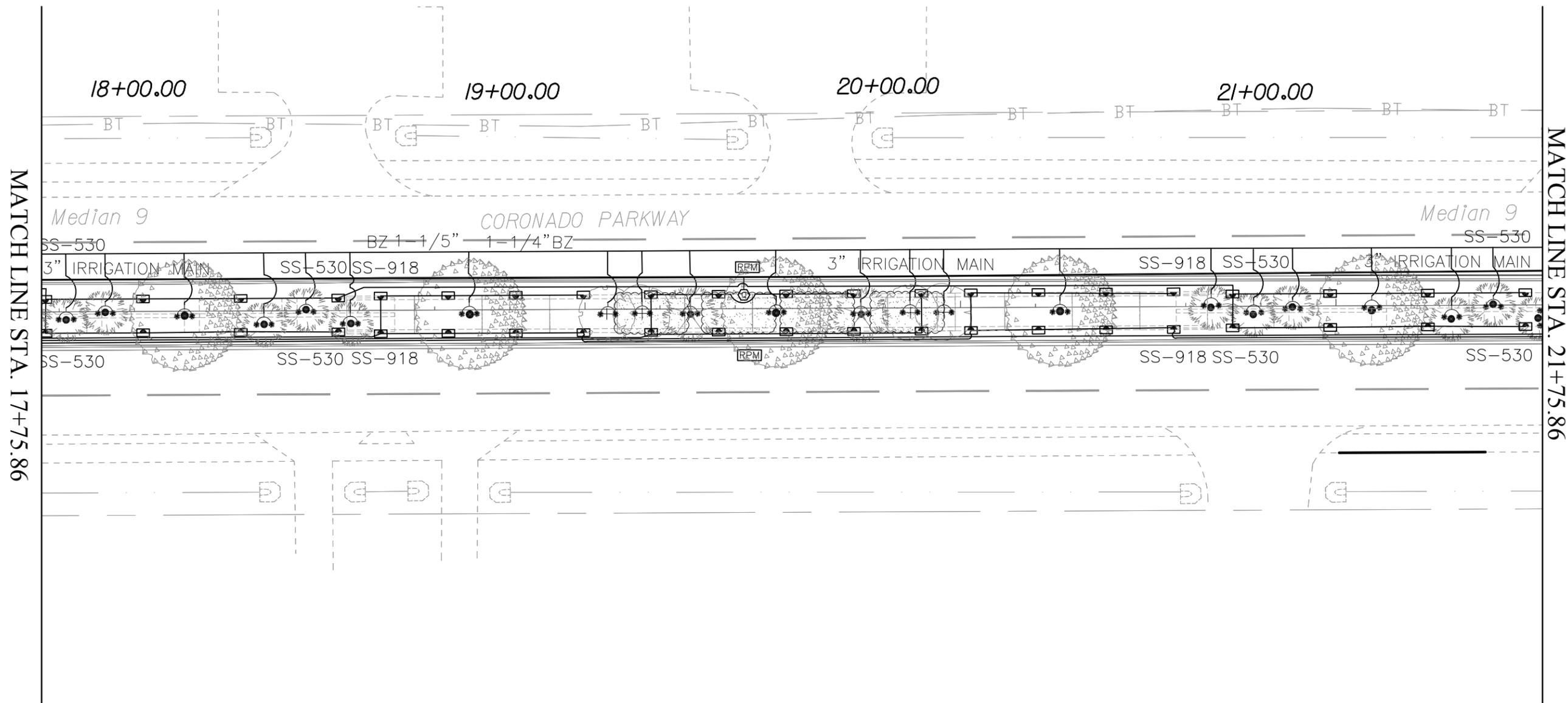
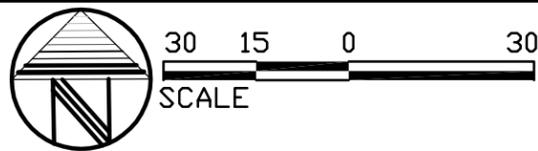
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COLLIER COUNTY TRANSPORTATION
 CORONADO PKWY. & HUNTER BLVD.
 GOLDEN GATE BEAUTIFICATION, M.S.T.U.

CORONADO PKY IRRIGATION PLAN

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- PROPOSED MOTOROLA PICCOLO XR 1, 2 OR 4 STATIONS, DC REMOTE TERMINAL CONTROLLER WITH CONC. BANJO POST.
- PROPOSED IRRIGATION MAIN, 1120-1220 CLASS 200 PVC GASKET PIPE, PANTONE PURPLE 522C.
- PROPOSED PVC TO HDPE MECHANICAL JOINT INTERCONNECTING FITTING WITH TRANSITIONAL GASKETS.
- PROPOSED CLASS 150 SDR 11 HDPE CASING TO BE USED AS IRRIGATION MAIN AND LATERALS UNDER PAVED SURFACE CROSSINGS. (BY OTHERS SEE ENG. MEDIAN IMPROVEMENT PLANS)
- PROPOSED 3/4" SCH. 40 PVC CONDUIT FOR VALVE CONTROL WIRES FROM PICCOLO TO VALVE BOX.

IRRIGATION LEGEND

- PROPOSED 1120-1220 CLASS 200 PVC LATERAL LINE. PANTONE PURPLE 522C. SIZES VARY REFER TO PLANS.
- PROPOSED ELECTRICAL CONDUIT FOR IRRIGATION PUMP STATION, DIRECTIONAL BORE INSTALLATION. REFER TO NOTES FOR SIZES, ELECTRIC SERVICE DROP CONDUIT & CONDUCTORS FROM POWER POLE HAND HOLE TO THE ELECTRICAL CABINET SERVICE PANEL TO PUMP STATION. (BY OTHERS SEE ENG. MEDIAN IMPROVEMENT PLANS)
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IRRIGATION LEGEND

- PROPOSED CASING DESIGNATED IDENTIFICATION
- PROPOSED CASING SIZE
- PROPOSED CASING ESTIMATED LENGTH
- PROPOSED PICCOLO CONTROLLER - ZONE CONTROL VALVE NUMBER
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- PROPOSED IRRIGATION ZONE ESTIMATED PRECIPITATION RATE
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- PROPOSED REFLECTIVE PAVEMENT MARKER, (2) PER VALVE OR GROUP OF VALVES ONE ON EACH SIDE OF THE MEDIAN.

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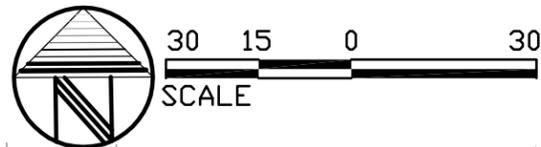
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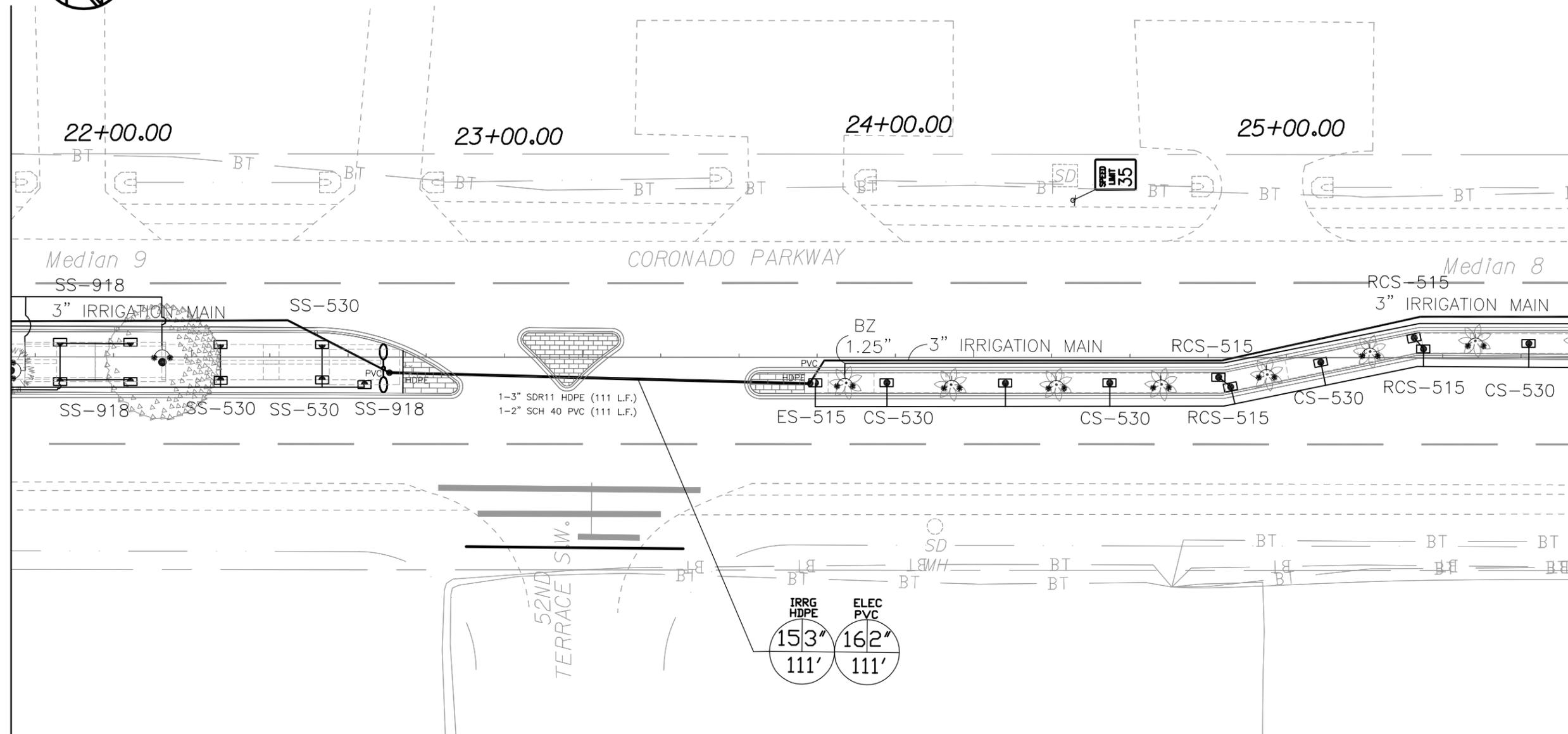
CORONADO PKY IRRIGATION PLAN

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- PROPOSED REFLECTIVE PAVEMENT MARKER. (2) PER VALVE OR GROUP OF VALVES ONE ON EACH SIDE OF THE MEDIAN.

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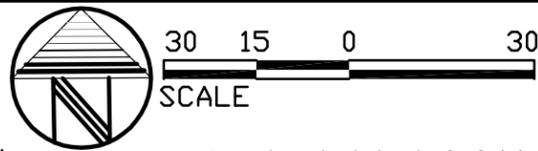
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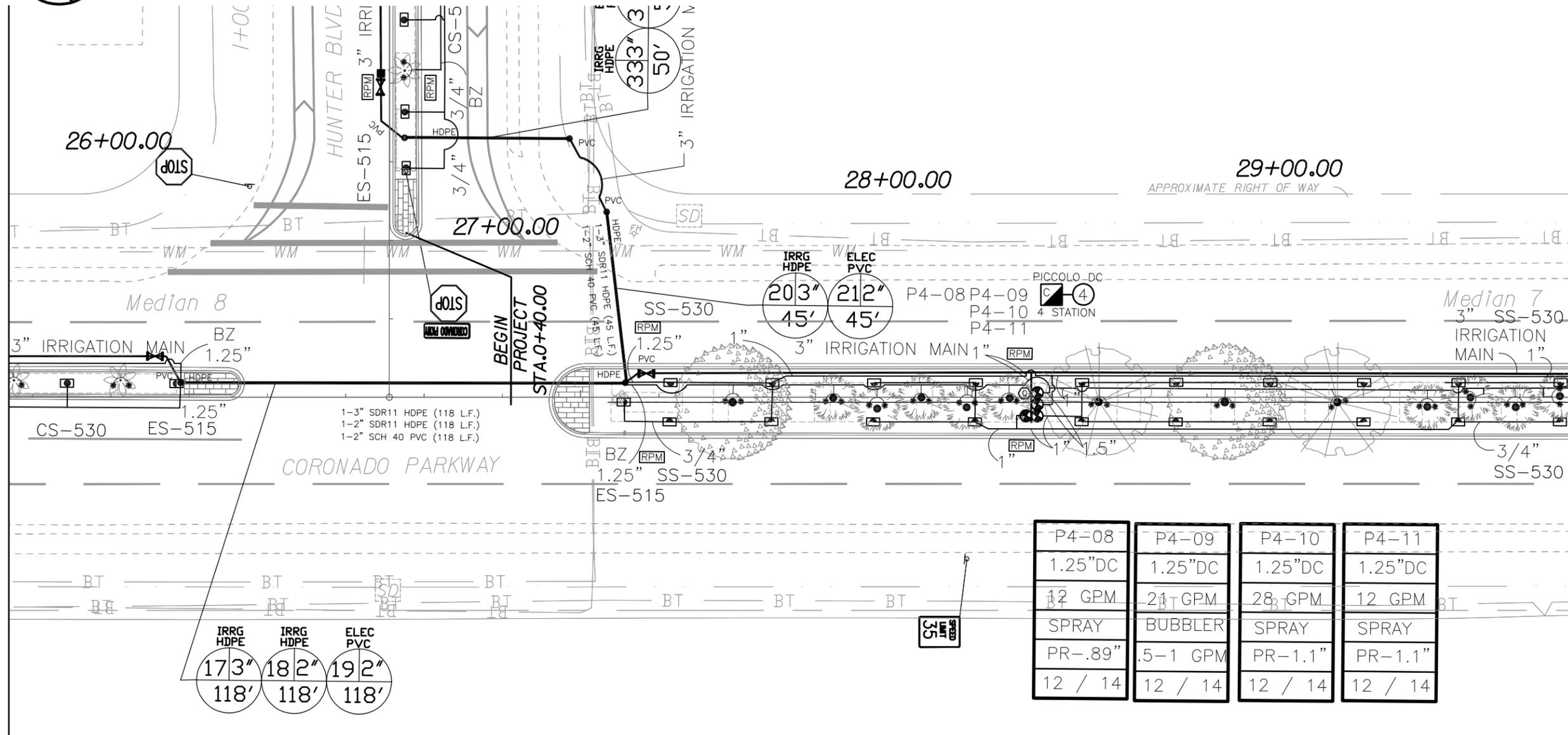
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IRRIGATION LEGEND

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- PROPOSED 3/4" SCH. 40 PVC CONDUIT FOR VALVE CONTROL WIRES FROM PICCOLO TO VALVE BOX.

IRRIGATION LEGEND

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IRRIGATION LEGEND

- PROPOSED IRRIGATION MAIN FLUSH/BLOW OFF. SIZE TO LINE.
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IRRIGATION LEGEND

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P4-08	P4-09	P4-10	P4-11
1.25"DC	1.25"DC	1.25"DC	1.25"DC
12 GPM	21 GPM	28 GPM	12 GPM
SPRAY	BUBBLER	SPRAY	SPRAY
PR-.89"	.5-1 GPM	PR-1.1"	PR-1.1"
12 / 14	12 / 14	12 / 14	12 / 14

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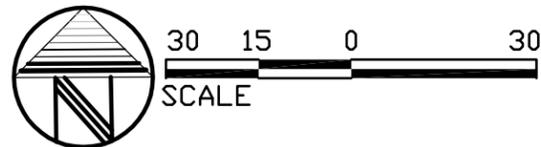
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CORONADO PKY IRRIGATION PLAN

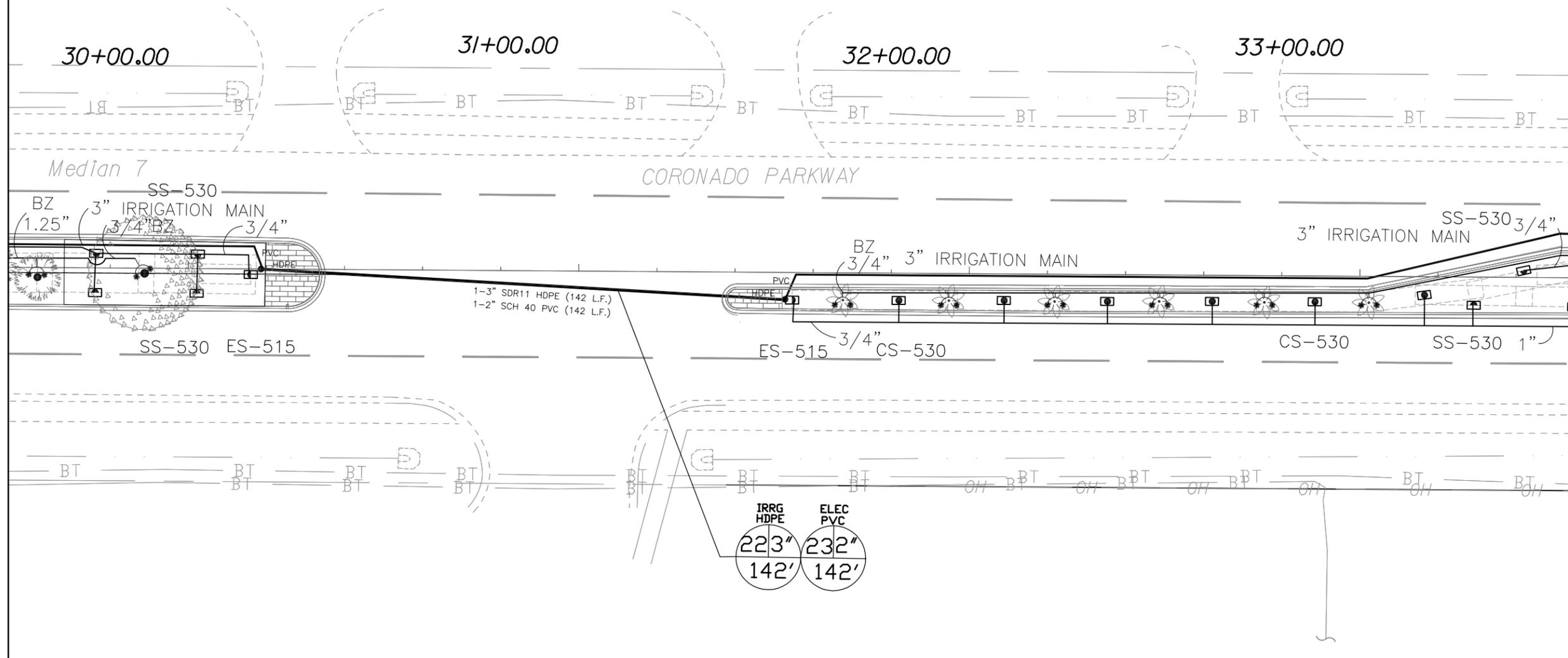
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MATCH LINE STA. 33+75.86



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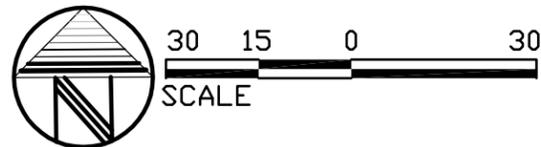
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 GOLDEN GATE BEAUTIFICATION, M.S.T.U.

CORONADO PKY IRRIGATION PLAN

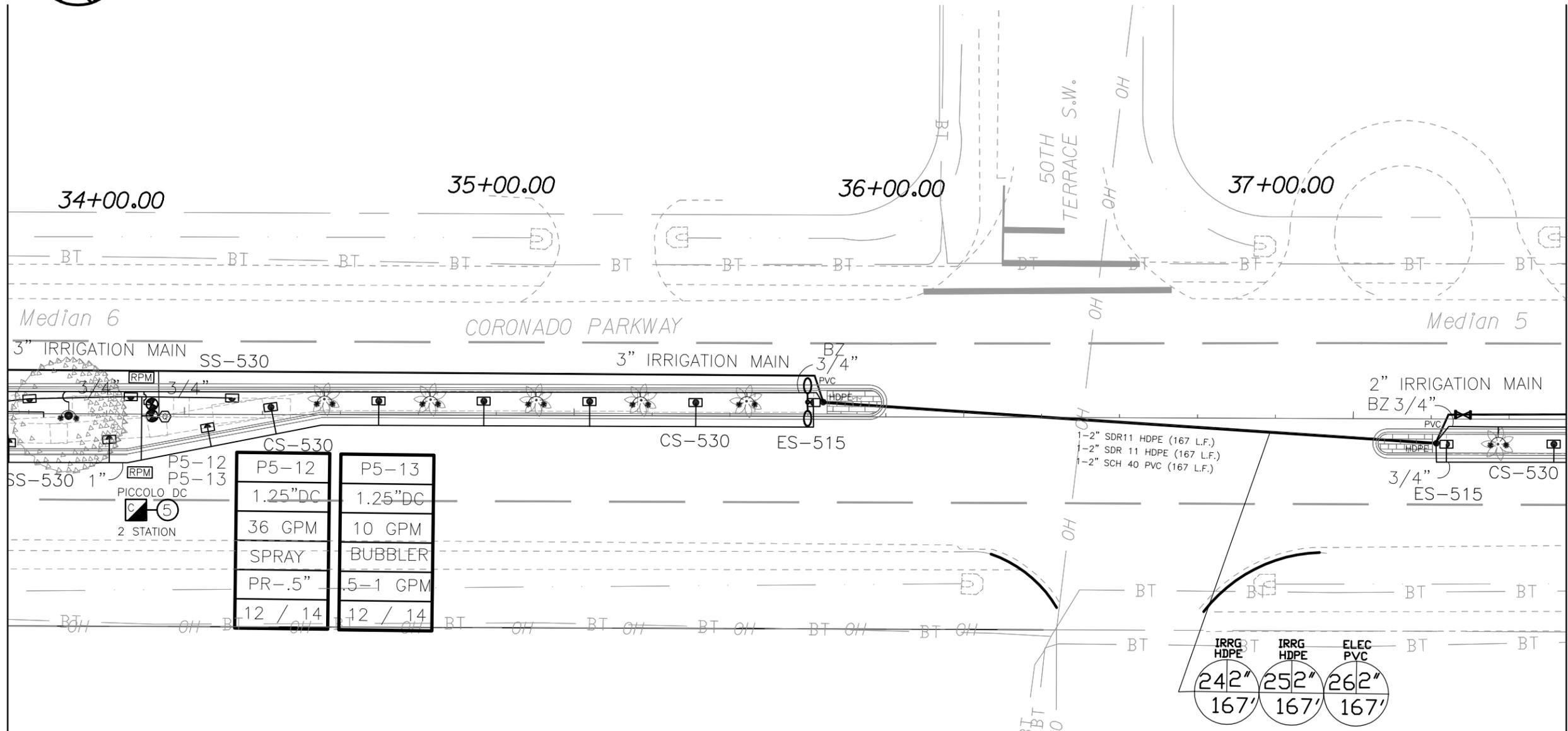
SHEET NO.
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MATCHLINE STA. 33+75.86

MATCHLINE STA. 37+75.86



IRRIGATION LEGEND

- IRRIGATION WATER SOURCE: PROPOSED 8" WELL & PUMP 10 HP VFD SUBMERSIBLE PUMP STATION WITH AUTOMATED SELF-FLUSHING FILTRATION SYSTEM AND ELECTRICAL DISCONNECT. INCLUDE 1-120V GFI OUTDOOR RECEPTACLE ON DISCONNECT POST. LOCATED IN MEDIAN No. 5 ON HUNTER BLVD.
- PROPOSED MOTOROLA PICCOLO XR 1, 2 OR 4 STATIONS, DC REMOTE TERMINAL CONTROLLER WITH CONC. BANJO POST.
- PROPOSED IRRIGATION MAIN, 1120-1220 CLASS 200 PVC GASKET PIPE. PANTONE PURPLE 522C.
- PROPOSED PVC TO HDPE MECHANICAL JOINT INTERCONNECTING FITTING WITH TRANSITIONAL GASKETS.
- PROPOSED CLASS 150 SDR 11 HDPE CASING TO BE USED AS IRRIGATION MAIN AND LATERALS UNDER PAVED SURFACE CROSSINGS. (BY OTHERS SEE ENG. MEDIAN IMPROVEMENT PLANS)
- PROPOSED 3/4" SCH. 40 PVC CONDUIT FOR VALVE CONTROL WIRES FROM PICCOLO TO VALVE BOX.

IRRIGATION LEGEND

- PROPOSED 1120-1220 CLASS 200 PVC LATERAL LINE. PANTONE PURPLE 522C. SIZES VARY REFER TO PLANS.
- PROPOSED ELECTRICAL CONDUIT FOR IRRIGATION PUMP STATION, DIRECTIONAL BORE INSTALLATION. REFER TO NOTES FOR SIZES. ELECTRIC SERVICE DROP CONDUIT & CONDUCTORS FROM POWER POLE HAND HOLE TO THE ELECTRICAL CABINET SERVICE PANEL TO PUMP STATION. (BY OTHERS SEE ENG. MEDIAN IMPROVEMENT PLANS)
- PROPOSED IRRIGATION MAIN OR SUBMAIN ISOLATION VALVES
- PROPOSED 3/4" - 1-1/5" CLASS 200 PVC BUBBLERS ZONE LATERAL LINE.
- PROPOSED IRRIG. MAIN PRESSURE RELEASE VALVE. REFER TO DETAIL.
- PROPOSED IRRIG. MAIN AIR VACUUM RELIEF VALVE. REFER TO DETAIL.
- PROPOSED IRRIGATION MAIN LINE PRESSURE CHECK POINT.

IRRIGATION LEGEND

- PROPOSED IRRIGATION MAIN FLUSH/BLOW OFF, SIZE TO LINE.
- PROPOSED IRRIGATION ZONE CONTROL VALVE. FIELD ADJUST LOCATION WHERE SHOWN IN CONFLICT WITH TREE/PALM. DC SOLENOIDS REQUIRES SEPARATE COMMONS FOR EVERY FOUR (4) VALVES.
- PROPOSED 1" DIA. 3/4" SCH. 40 PVC BALL VALVE IN 10" CIRCULAR VALVE BOX WITH GRAVEL.
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- PROPOSED HUNTER PRO SPRAY 12" HIGH POP-UP SPRAY HEAD OFFSET FROM BACK OFFSET FROM BACK OF CURBING TO VARY BASED UPON PLANT MATERIAL BEING IRRIGATED. NOZZLES: RCS-515, SS-530, ES-515, CS-530, & SS-918
- PROPOSED ADJUSTABLE FLOOD BUBBLERS 2 PER TREE AT EDGE OF ROOT BALL.

IRRIGATION LEGEND

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- PROPOSED PICCOLO CONTROLLER - ZONE CONTROL VALVE NUMBER
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- PROPOSED IRRIGATION ZONE SPRINKLER HEAD TYPE
- PROPOSED IRRIGATION ZONE ESTIMATED PRECIPITATION RATE
- PROPOSED VALVE CONTROL WIRE COMMON & ACTIVATION GA. SIZES
- PROPOSED ELECTRICAL CABINET SEE "CONTROLLER DETAILS" SHEET INSTALLATION TO ONLY INCLUDE ELECTRICAL SERVICE ENCLOSURE PORTION
- PROPOSED REFLECTIVE PAVEMENT MARKER, (2) PER VALVE OR GROUP OF VALVES ONE ON EACH SIDE OF THE MEDIAN.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

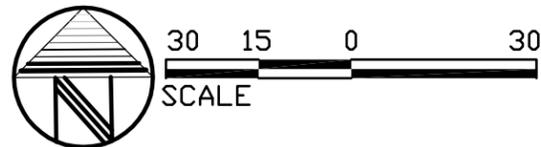
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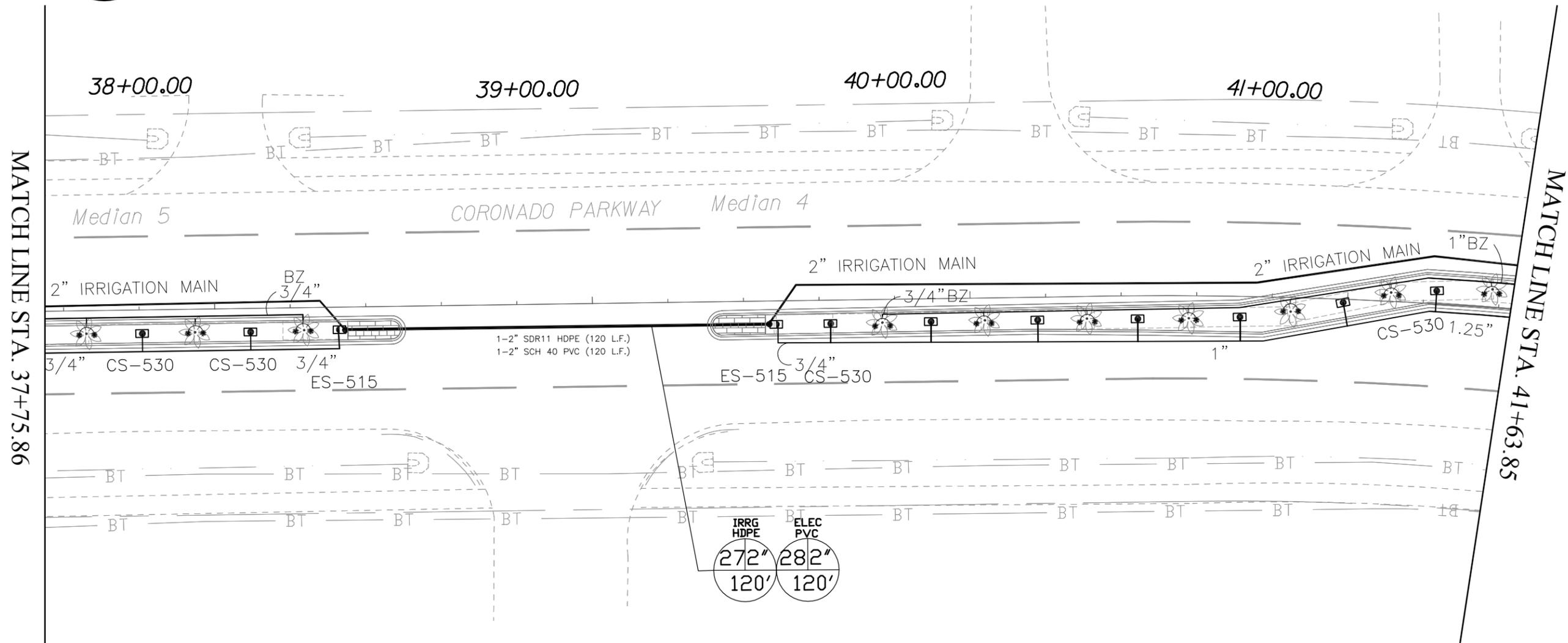
CORONADO PKY IRRIGATION PLAN

SHEET NO.	LD-43
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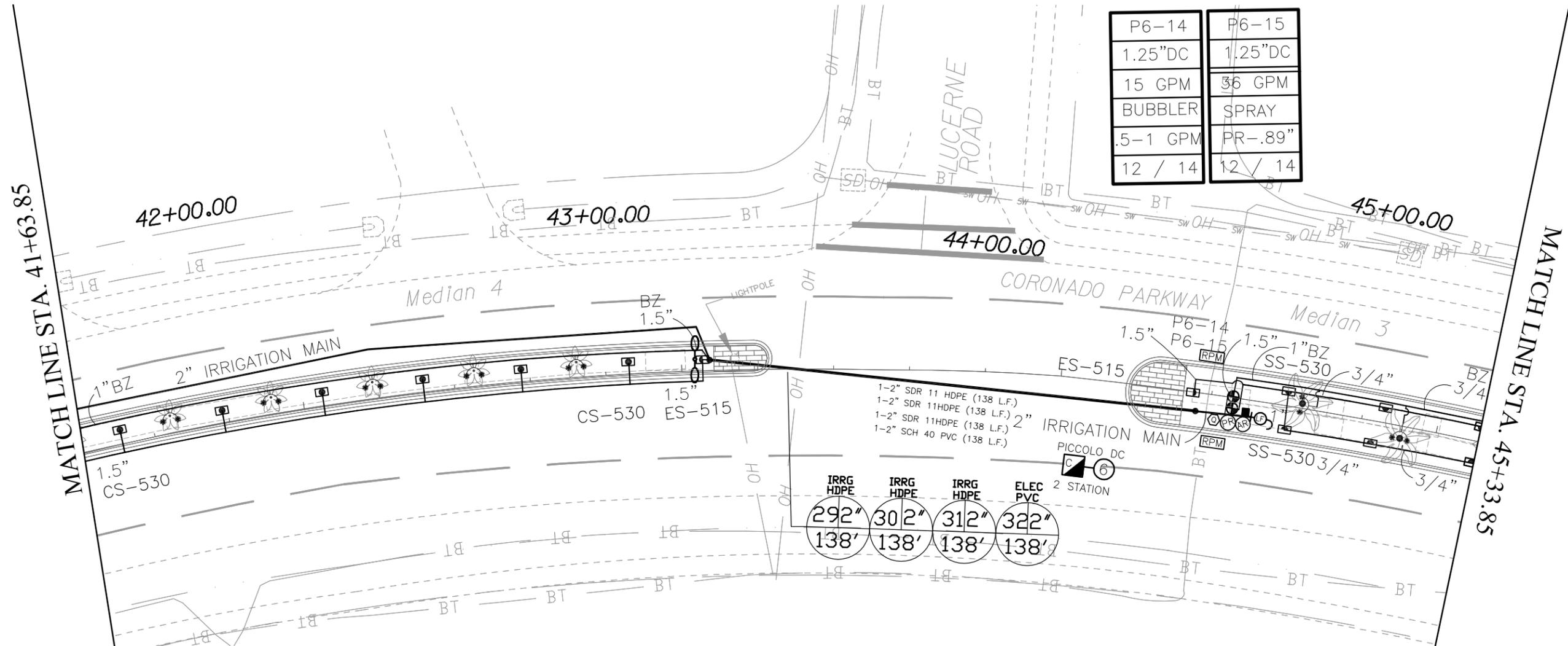
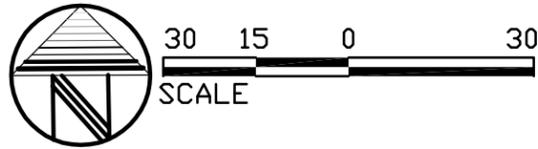
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CORONADO PKY IRRIGATION PLAN

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P6-14	P6-15
1.25"DC	1.25"DC
15 GPM	36 GPM
BUBBLER	SPRAY
.5-1 GPM	PR-.89"
12 / 14	12 / 14

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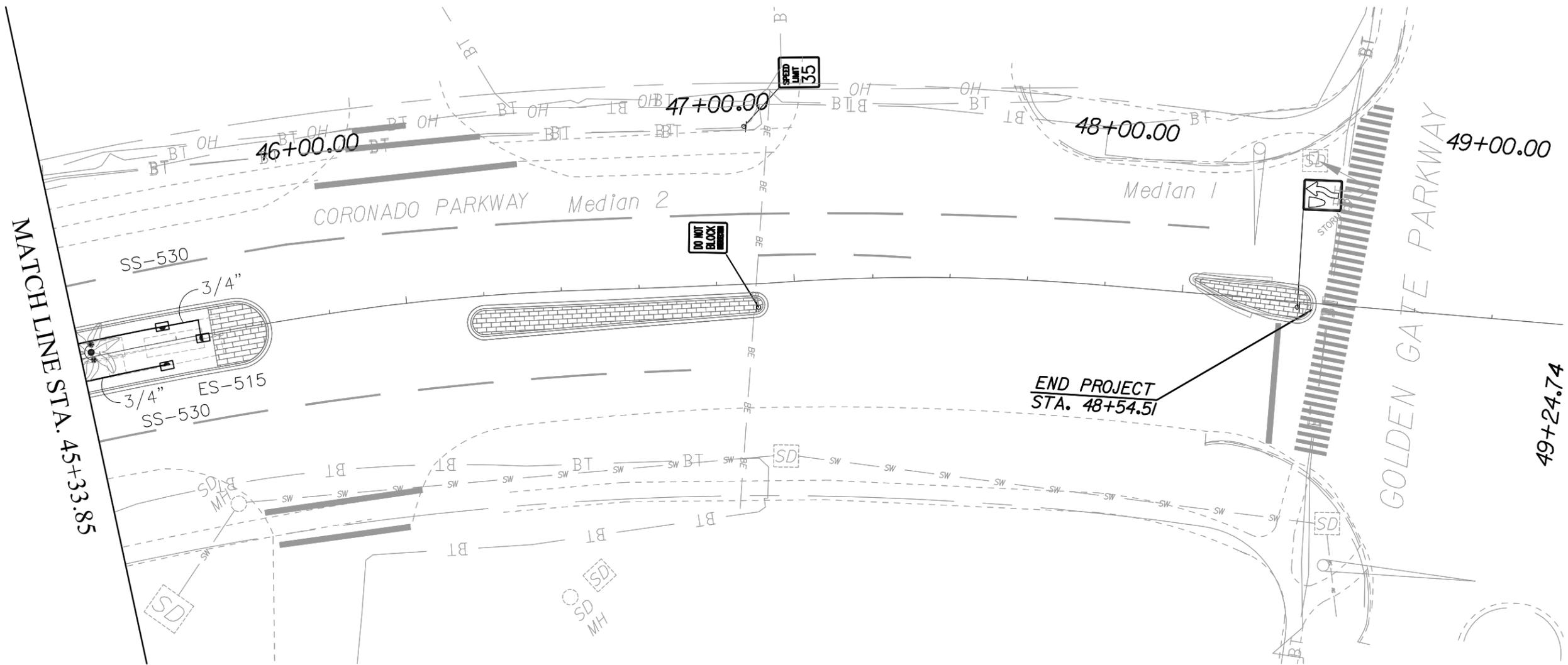
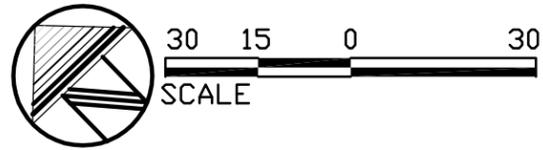
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COLLIER COUNTY TRANSPORTATION
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 GOLDEN GATE BEAUTIFICATION, M.S.T.U.

CORONADO PKY IRRIGATION PLAN

SHEET NO.
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REVISIONS

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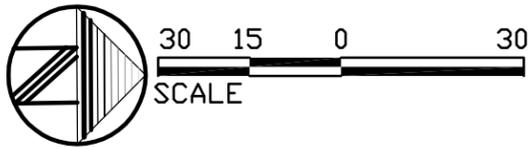
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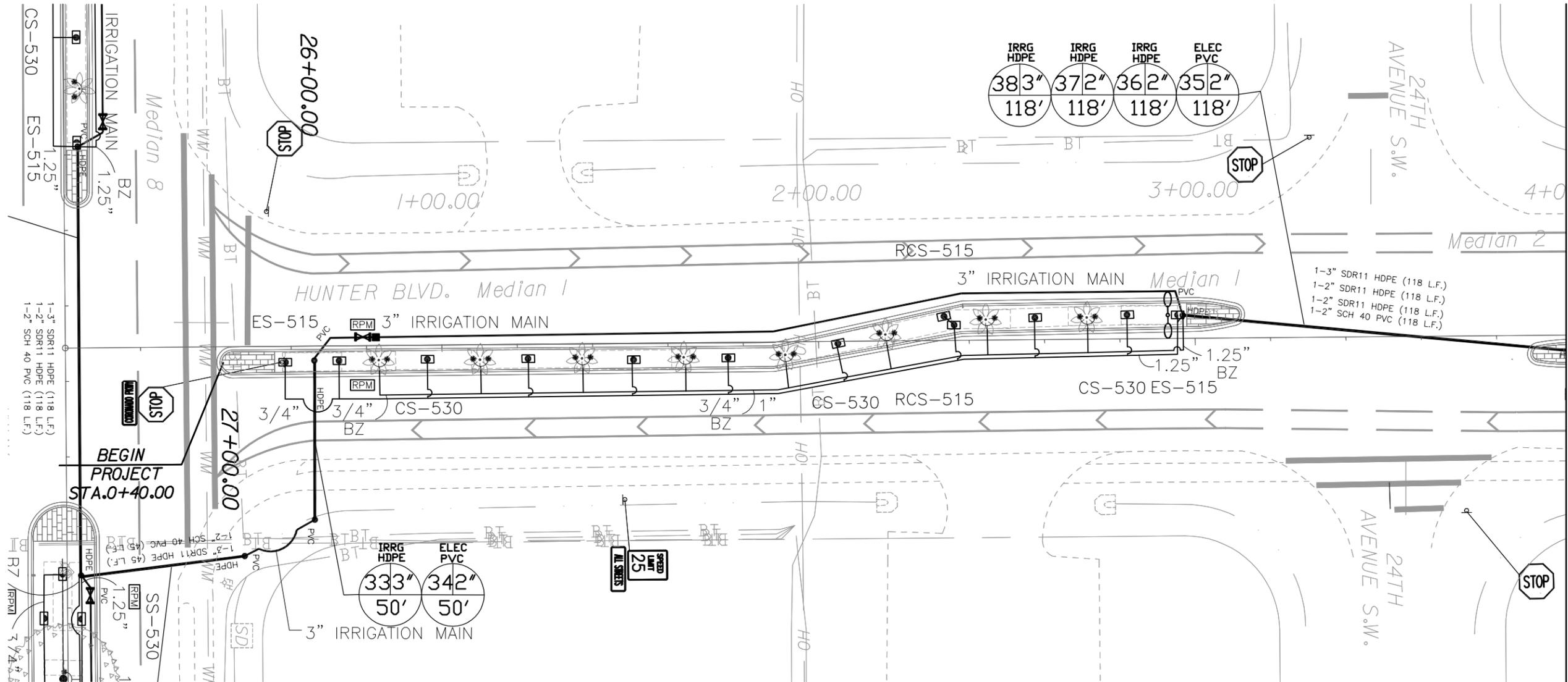
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MATCH LINE CORONADO PKWY. STA. 22+48.85 -
HUNTER BLVD. STA. 0+00.00 BEGIN PROJECT



MATCH LINE STA. 3+97.25

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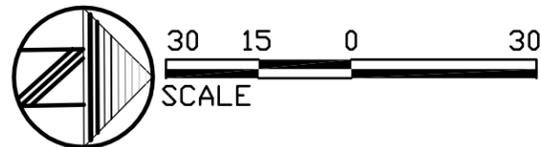
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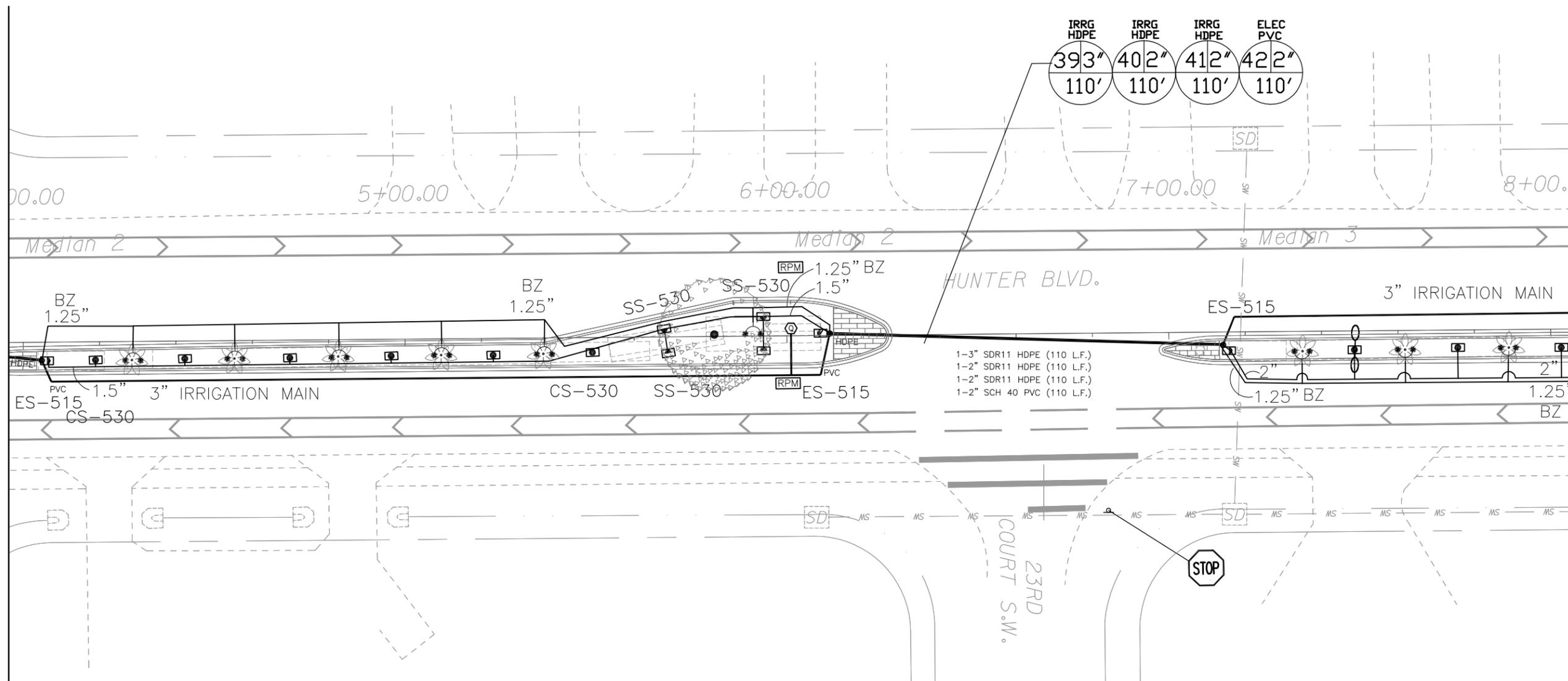
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GOLDEN GATE BEAUTIFICATION, M.S.T.U.

HUNTER BLVD IRRIGATION PLAN
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LD-47

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MATCH LINE STA. 3+97.25



MATCH LINE STA. 8+06.85

IRRIGATION LEGEND

- IRRIGATION WATER SOURCE: PROPOSED 8" WELL & PUMP 10 HP VFD SUBMERSIBLE PUMP STATION WITH AUTOMATED SELF-FLUSHING FILTRATION SYSTEM AND ELECTRICAL DISCONNECT. INCLUDE 1-120V GFI OUTDOOR RECEPTACLE ON DISCONNECT POST. LOCATED IN MEDIAN No. 5 ON HUNTER BLVD.
- PROPOSED MOTOROLA PICCOLO XR 1, 2 OR 4 STATIONS, DC REMOTE TERMINAL CONTROLLER WITH CONC. BANJO POST.
- PROPOSED IRRIGATION MAIN, 1120-1220 CLASS 200 PVC GASKET PIPE, PANTONE PURPLE 522C.
- PROPOSED PVC TO HDPE MECHANICAL JOINT INTERCONNECTING FITTING WITH TRANSITIONAL GASKETS.
- PROPOSED CLASS 150 SDR 11 HDPE CASING TO BE USED AS IRRIGATION MAIN AND LATERALS UNDER PAVED SURFACE CROSSINGS. (BY OTHERS SEE ENG. MEDIAN IMPROVEMENT PLANS)
- PROPOSED 3/4" SCH. 40 PVC CONDUIT FOR VALVE CONTROL WIRES FROM PICCOLO TO VALVE BOX.

IRRIGATION LEGEND

- PROPOSED 1120-1220 CLASS 200 PVC LATERAL LINE. PANTONE PURPLE 522C. SIZES VARY REFER TO PLANS.
- PROPOSED ELECTRICAL CONDUIT FOR IRRIGATION PUMP STATION, DIRECTIONAL BORE INSTALLATION. REFER TO NOTES FOR SIZES. ELECTRIC SERVICE DROP CONDUIT & CONDUCTORS FROM POWER POLE HAND HOLE TO THE ELECTRICAL CABINET SERVICE PANEL TO PUMP STATION. (BY OTHERS SEE ENG. MEDIAN IMPROVEMENT PLANS)
- PROPOSED IRRIGATION MAIN OR SUBMAIN ISOLATION VALVES
- PROPOSED 3/4" - 1-1/5" CLASS 200 PVC BUBBLERS ZONE LATERAL LINE.
- PROPOSED IRRIG. MAIN PRESSURE RELEASE VALVE, REFER TO DETAIL.
- PROPOSED IRRIG. MAIN AIR VACUUM RELIEF VALVE, REFER TO DETAIL.
- PROPOSED IRRIGATION MAIN LINE PRESSURE CHECK POINT.

IRRIGATION LEGEND

- PROPOSED IRRIGATION MAIN FLUSH/BLOW OFF, SIZE TO LINE.
- PROPOSED IRRIGATION ZONE CONTROL VALVE. FIELD ADJUST LOCATION WHERE SHOWN IN CONFLICT WITH TREE/PALM. DC SOLENOIDS REQUIRES SEPARATE COMMONS FOR EVERY FOUR (4) VALVES.
- PROPOSED 1" DIA. 3/4" SCH. 40 PVC BALL VALVE IN 10" CIRCULAR VALVE BOX WITH GRAVEL.
- PROPOSED IRRIGATION QUICK COUPLING VALVE. FIELD ADJUST LOCATION WHERE SHOWN IN CONFLICT WITH TREE/PALM.
- PROPOSED HUNTER PRO SPRAY 12" HIGH POP-UP SPRAY HEAD OFFSET FROM BACK OFFSET FROM BACK OF CURBING TO VARY BASED UPON PLANT MATERIAL BEING IRRIGATED. NOZZLES: RCS-515, SS-530, ES-515, CS-530, & SS-918
- PROPOSED ADJUSTABLE FLOOD BUBBLERS 2 PER TREE AT EDGE OF ROOT BALL.

IRRIGATION LEGEND

- (PROPOSED CASINGS BY OTHERS, SEE ENGINEERING MEDIAN IMPROVEMENT PLANS) PROPOSED CASING DESIGNATED IDENTIFICATION
- PROPOSED CASING SIZE
- PROPOSED CASING ESTIMATED LENGTH
- PROPOSED PICCOLO CONTROLLER - ZONE CONTROL VALVE NUMBER
- PROPOSED IRRIGATION ZONE CONTROL VALVE SIZE, AC OR DC
- PROPOSED IRRIGATION ZONE ESTIMATED FLOW DEMAND
- PROPOSED IRRIGATION ZONE SPRINKLER HEAD TYPE
- PROPOSED IRRIGATION ZONE ESTIMATED PERCIPITATION RATE
- PROPOSED VALVE CONTROL WIRE COMMON & ACTIVATION GA. SIZES
- PROPOSED ELECTRICAL CABINET SEE "CONTROLLER DETAILS" SHEET INSTALLATION TO ONLY INCLUDE ELECTRICAL SERVICE ENCLOSURE PORT ION E-1
- PROPOSED REFLECTIVE PAVEMENT MARKER, (2) PER VALVE OR GROUP OF VALVES ONE ON EACH SIDE OF THE MEDIAN.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

McGee & Associates

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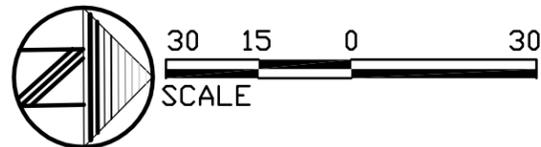
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 GOLDEN GATE BEAUTIFICATION, M.S.T.U.

HUNTER BLVD IRRIGATION PLAN

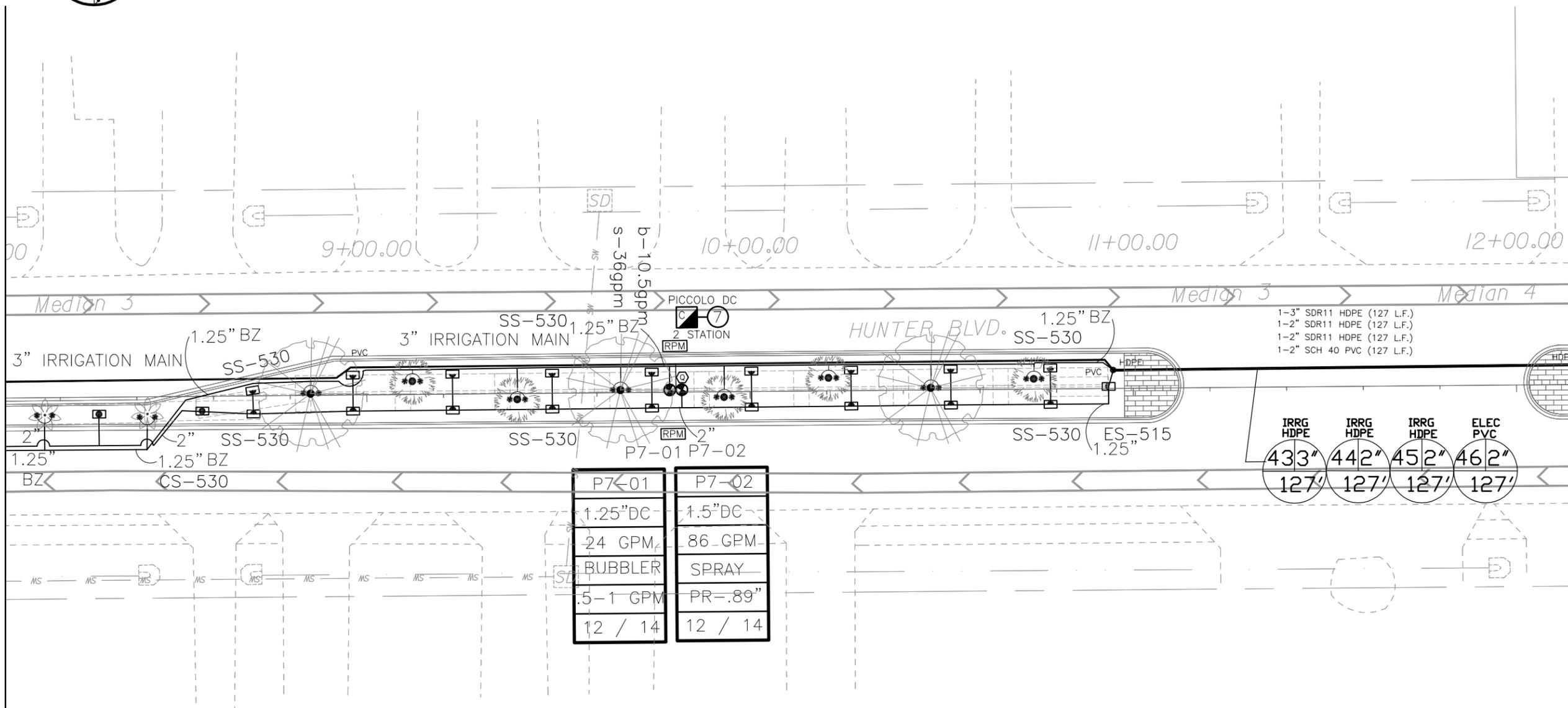
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MATCH LINE STA. 8+06.85



MATCH LINE STA. 12+16.45

IRRIGATION LEGEND

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- PICCOLO DC 2-STATION PROPOSED MOTOROLA PICCOLO XR 1, 2 OR 4 STATIONS, DC REMOTE TERMINAL CONTROLLER WITH CONC. BANJO POST.
- PROPOSED IRRIGATION MAIN, 1120-1220 CLASS 200 PVC GASKET PIPE, PANTONE PURPLE 522C.
- PROPOSED PVC TO HDPE MECHANICAL JOINT INTERCONNECTING FITTING WITH TRANSITIONAL GASKETS.
- PROPOSED CLASS 150 SDR 11 HDPE CASING TO BE USED AS IRRIGATION MAIN AND LATERALS UNDER PAVED SURFACE CROSSINGS. (BY OTHERS SEE ENG. MEDIAN IMPROVEMENT PLANS)
- NO SYMBOL PROPOSED 3/4" SCH. 40 PVC CONDUIT FOR VALVE CONTROL WIRES FROM PICCOLO TO VALVE BOX.

IRRIGATION LEGEND

- PROPOSED 1120-1220 CLASS 200 PVC LATERAL LINE. PANTONE PURPLE 522C. SIZES VARY REFER TO PLANS.
- PROPOSED ELECTRICAL CONDUIT FOR IRRIGATION PUMP STATION, DIRECTIONAL BORE INSTALLATION. REFER TO NOTES FOR SIZES. ELECTRIC SERVICE DROP CONDUIT & CONDUCTORS FROM POWER POLE HAND HOLE TO THE ELECTRICAL CABINET SERVICE PANEL TO PUMP STATION. (BY OTHERS SEE ENG. MEDIAN IMPROVEMENT PLANS)
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- PROPOSED IRRIGATION MAIN LINE PRESSURE CHECK POINT.

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- PROPOSED REFLECTIVE PAVEMENT MARKER, (2) PER VALVE OR GROUP OF VALVES ONE ON EACH SIDE OF THE MEDIAN.

P7-01	P7-02
1.25" DC	1.5" DC
24 GPM	86 GPM
BUBBLER	SPRAY
5-1 GPM	PR-0.89"
12 / 14	12 / 14

IRRG HDPE	IRRG HDPE	IRRG HDPE	ELEC PVC
433"	442"	452"	462"
127'	127'	127'	127'

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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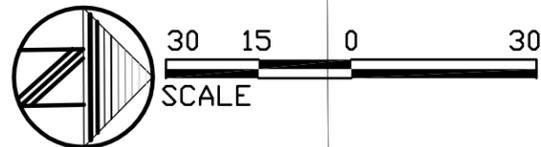
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 GOLDEN GATE BEAUTIFICATION, M.S.T.U.

HUNTER BLVD IRRIGATION PLAN

SHEET NO.

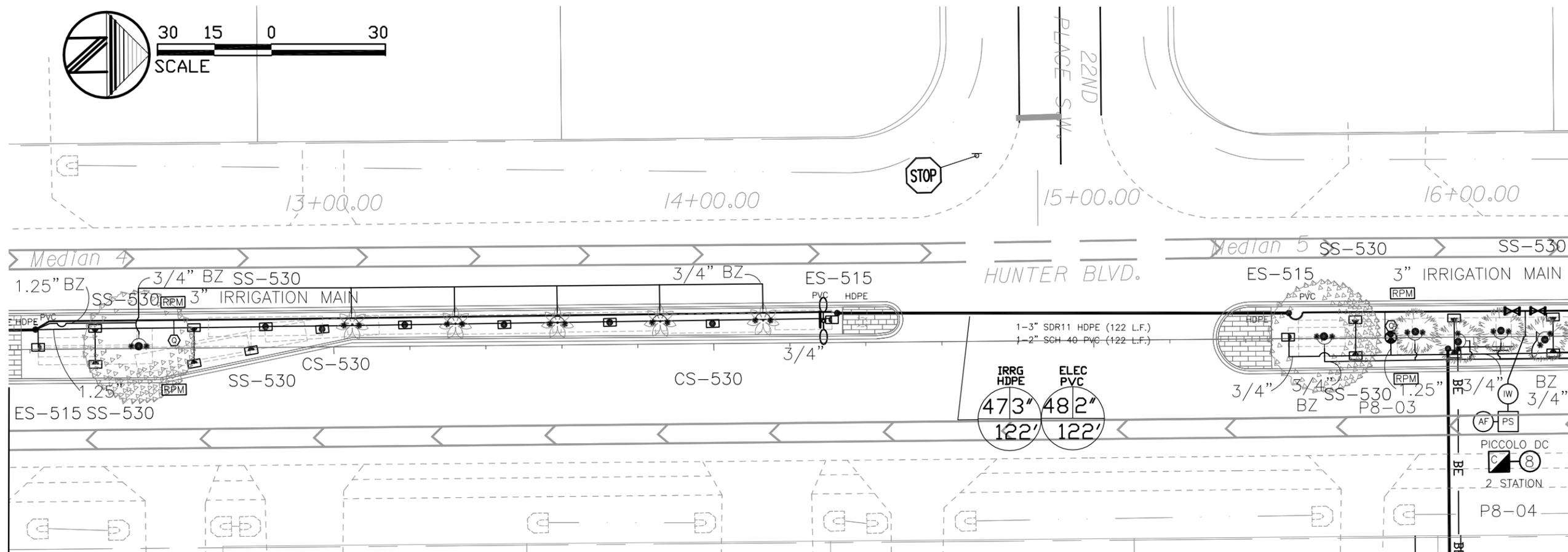
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MATCH LINE STA. 12+16.45

MATCH LINE STA. 16+26.04



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- PROPOSED REFLECTIVE PAVEMENT MARKER, (2) PER VALVE OR GROUP OF VALVES ONE ON EACH SIDE OF THE MEDIAN.

INCLUDE PULL BOXES AT ALL CHANGE OF DIRECTION & BORE ENDS ELECTRICAL CONTRACTOR TO SIZE CONDUCTORS FOR RUN AND LOADS 1-2" ELECTRICAL SCH 40 CONDUIT & CONDUCTORS (194 L.F.)

P8-03	P8-04
1.25"DC	1.25"DC
27 GPM	10 GPM
SPRAY	FLUSH
PR-.89"	.5-1 GPM
12 / 14	12 / 14

2222 Hunter Blvd.
GG Unit 6
Bik 195 Lot 11

EXISTING 6' UTILITY EASEMENT

1-2" SCH. 40 (195 L.F.)

5180 22 Ave SW
GG Unit 6
Bik 195 Lot 12

ELEC PVC 492" 195'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

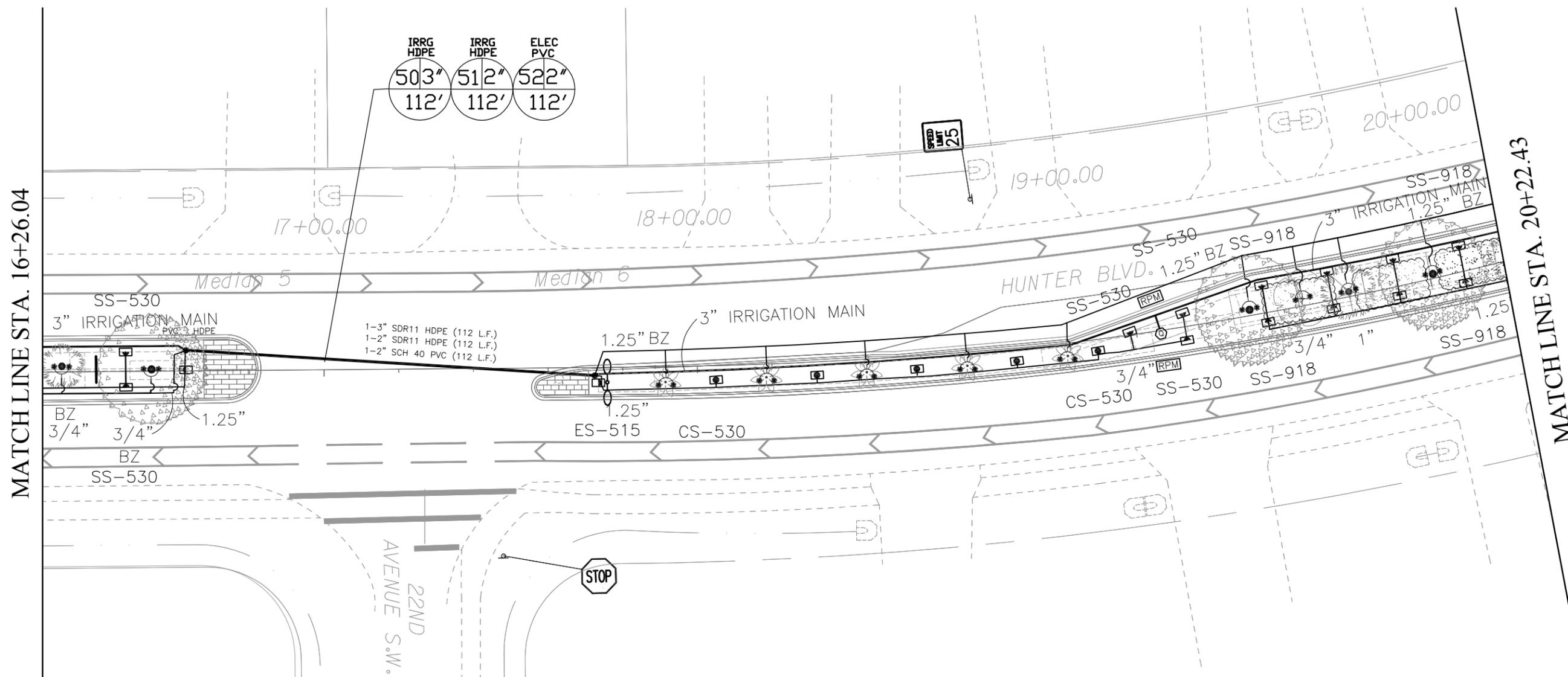
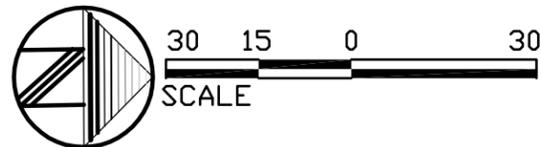
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COLLIER COUNTY TRANSPORTATION
CORONADO PKWY. & HUNTER BLVD.
GOLDEN GATE BEAUTIFICATION, M.S.T.U.

HUNTER BLVD IRRIGATION PLAN

SHEET NO.
LD-50

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IRRIGATION LEGEND

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IRRIGATION LEGEND

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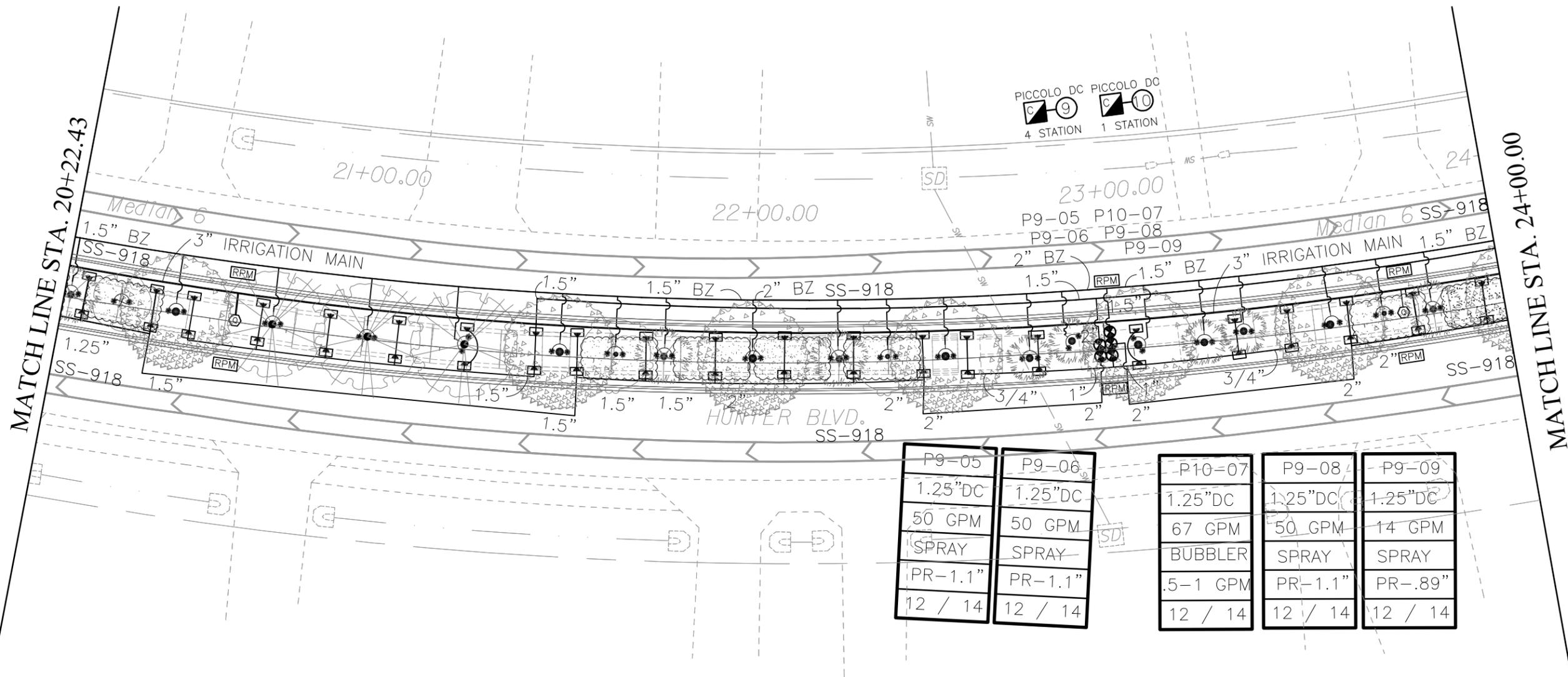
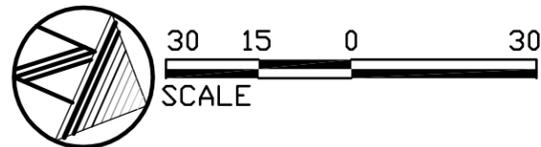
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 GOLDEN GATE BEAUTIFICATION, M.S.T.U.

HUNTER BLVD IRRIGATION PLAN

SHEET NO.	LD-51
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P9-05	P9-06	P10-07	P9-08	P9-09
1.25" DC				
50 GPM	50 GPM	67 GPM	50 GPM	14 GPM
SPRAY	SPRAY	BUBBLER	SPRAY	SPRAY
PR-1.1"	PR-1.1"	.5-1 GPM	PR-1.1"	PR-.89"
12 / 14	12 / 14	12 / 14	12 / 14	12 / 14

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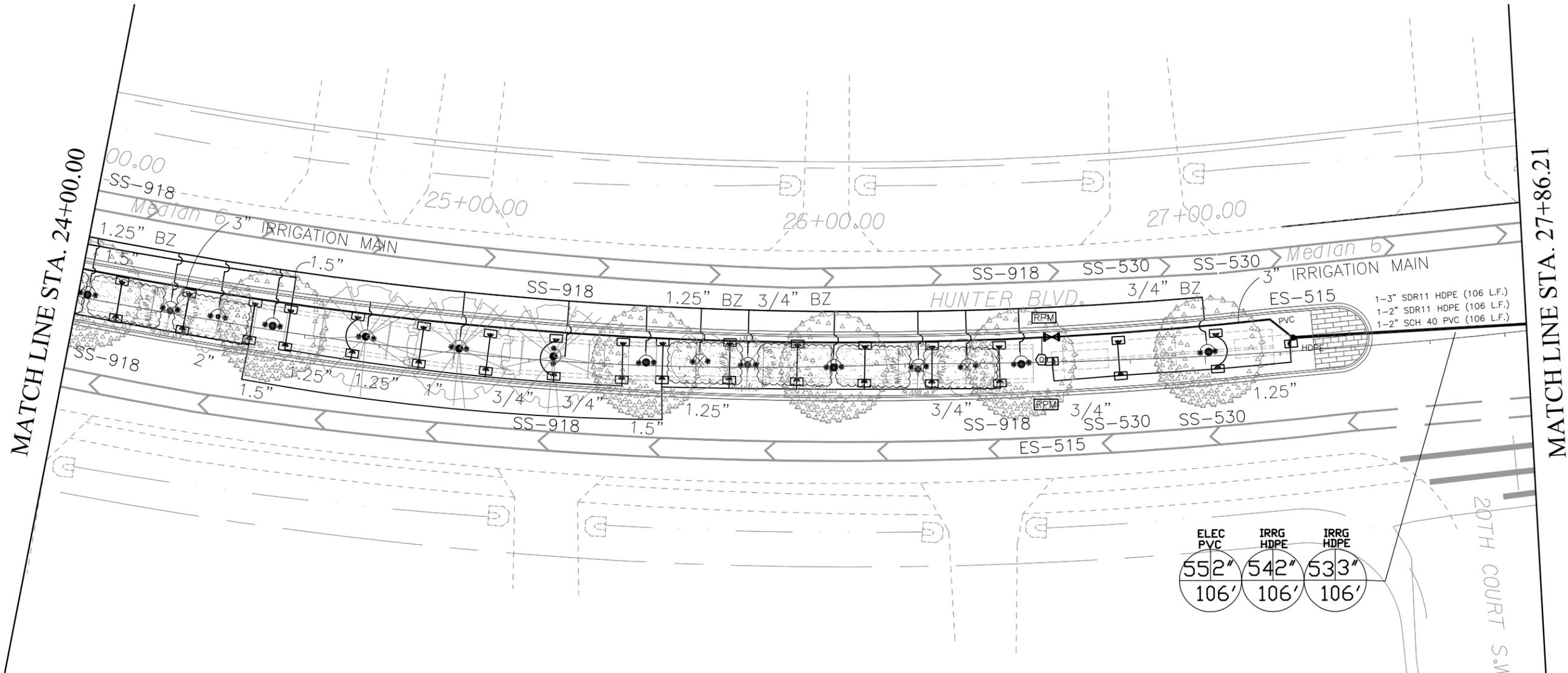
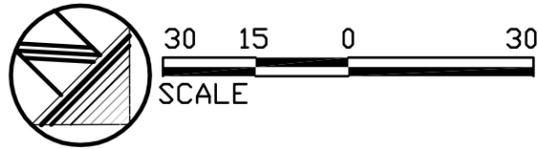
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COLLIER COUNTY TRANSPORTATION
 CORONADO PKWY. & HUNTER BLVD.
 GOLDEN GATE BEAUTIFICATION, M.S.T.U.

HUNTER BLVD IRRIGATION PLAN

SHEET NO.
 LD-52

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IRRIGATION LEGEND

- IRRIGATION WATER SOURCE: PROPOSED 8" WELL & PUMP 10 HP VFD SUBMERSIBLE PUMP STATION WITH AUTOMATED SELF-FLUSHING FILTRATION SYSTEM AND ELECTRICAL DISCONNECT. INCLUDE 1-120V GFI OUTDOOR RECEPTACLE ON DISCONNECT POST. LOCATED IN MEDIAN No. 5 ON HUNTER BLVD.
- PROPOSED MOTOROLA PICCOLO XR 1, 2 OR 4 STATIONS, DC REMOTE TERMINAL CONTROLLER WITH CONC. BANJO POST.
- PROPOSED IRRIGATION MAIN, 1120-1220 CLASS 200 PVC GASKET PIPE. PANTONE PURPLE 522C.
- PROPOSED PVC TO HDPE MECHANICAL JOINT INTERCONNECTING FITTING WITH TRANSITIONAL GASKETS.
- PROPOSED CLASS 150 SDR 11 HDPE CASING TO BE USED AS IRRIGATION MAIN AND LATERALS UNDER PAVED SURFACE CROSSINGS. (BY OTHERS SEE ENG. MEDIAN IMPROVEMENT PLANS)
- PROPOSED 3/4" SCH. 40 PVC CONDUIT FOR VALVE CONTROL WIRES FROM PICCOLO TO VALVE BOX.

IRRIGATION LEGEND

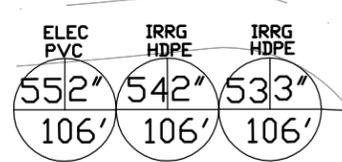
- PROPOSED 1120-1220 CLASS 200 PVC LATERAL LINE. PANTONE PURPLE 522C. SIZES VARY REFER TO PLANS.
- PROPOSED ELECTRICAL CONDUIT FOR IRRIGATION PUMP STATION, DIRECTIONAL BORE INSTALLATION. REFER TO NOTES FOR SIZES. ELECTRIC SERVICE DROP CONDUIT & CONDUCTORS FROM POWER POLE HAND HOLE TO THE ELECTRICAL CABINET SERVICE PANEL TO PUMP STATION. (BY OTHERS SEE ENG. MEDIAN IMPROVEMENT PLANS)
- PROPOSED IRRIGATION MAIN OR SUBMAIN ISOLATION VALVES
- PROPOSED 3/4" - 1-1/5" CLASS 200 PVC BUBBLERS ZONE LATERAL LINE.
- PROPOSED IRRIG. MAIN PRESSURE RELEASE VALVE, REFER TO DETAIL.
- PROPOSED IRRIG. MAIN AIR VACUUM RELIEF VALVE, REFER TO DETAIL.
- PROPOSED IRRIGATION MAIN LINE PRESSURE CHECK POINT.

IRRIGATION LEGEND

- PROPOSED IRRIGATION MAIN FLUSH/BLOW OFF, SIZE TO LINE.
- PROPOSED IRRIGATION ZONE CONTROL VALVE. FIELD ADJUST LOCATION WHERE SHOWN IN CONFLICT WITH TREE/PALM. DC SOLENOIDS REQUIRES SEPARATE COMMONS FOR EVERY FOUR (4) VALVES.
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- PROPOSED HUNTER PRO SPRAY 12" HIGH POP-UP SPRAY HEAD OFFSET FROM BACK OFFSET FROM BACK OF CURBING TO VARY BASED UPON PLANT MATERIAL BEING IRRIGATED. NOZZLES: RCS-515, SS-530, ES-515, CS-530, & SS-918
- PROPOSED ADJUSTABLE FLOOD BUBBLERS 2 PER TREE AT EDGE OF ROOT BALL.

IRRIGATION LEGEND

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- PROPOSED CASING SIZE
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- PROPOSED VALVE CONTROL WIRE COMMON & ACTIVATION GA. SIZES
- PROPOSED ELECTRICAL CABINET SEE "CONTROLLER DETAILS" SHEET INSTALLATION TO ONLY INCLUDE ELECTRICAL SERVICE ENCLOSURE PORTION E-1
- PROPOSED REFLECTIVE PAVEMENT MARKER. (2) PER VALVE OR GROUP OF VALVES ONE ON EACH SIDE OF THE MEDIAN.



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

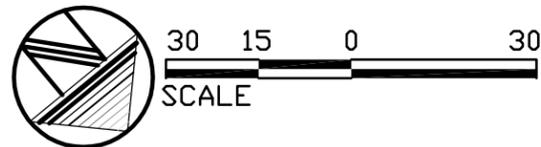
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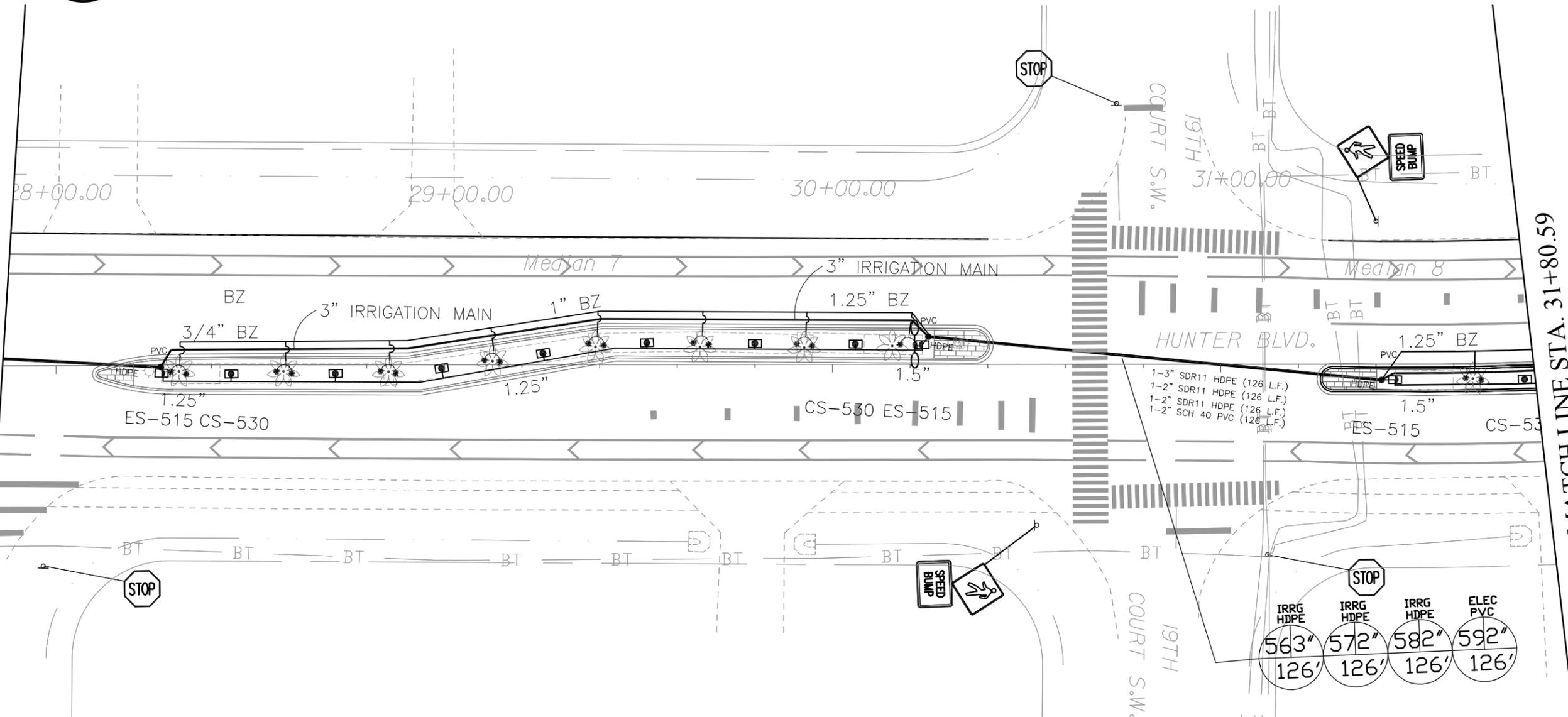
SHEET NO.	LD-53
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MATCH LINE STA. 27+86.21

MATCH LINE STA. 31+80.59



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IRRIGATION LEGEND

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IRRIGATION LEGEND

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REVISIONS					
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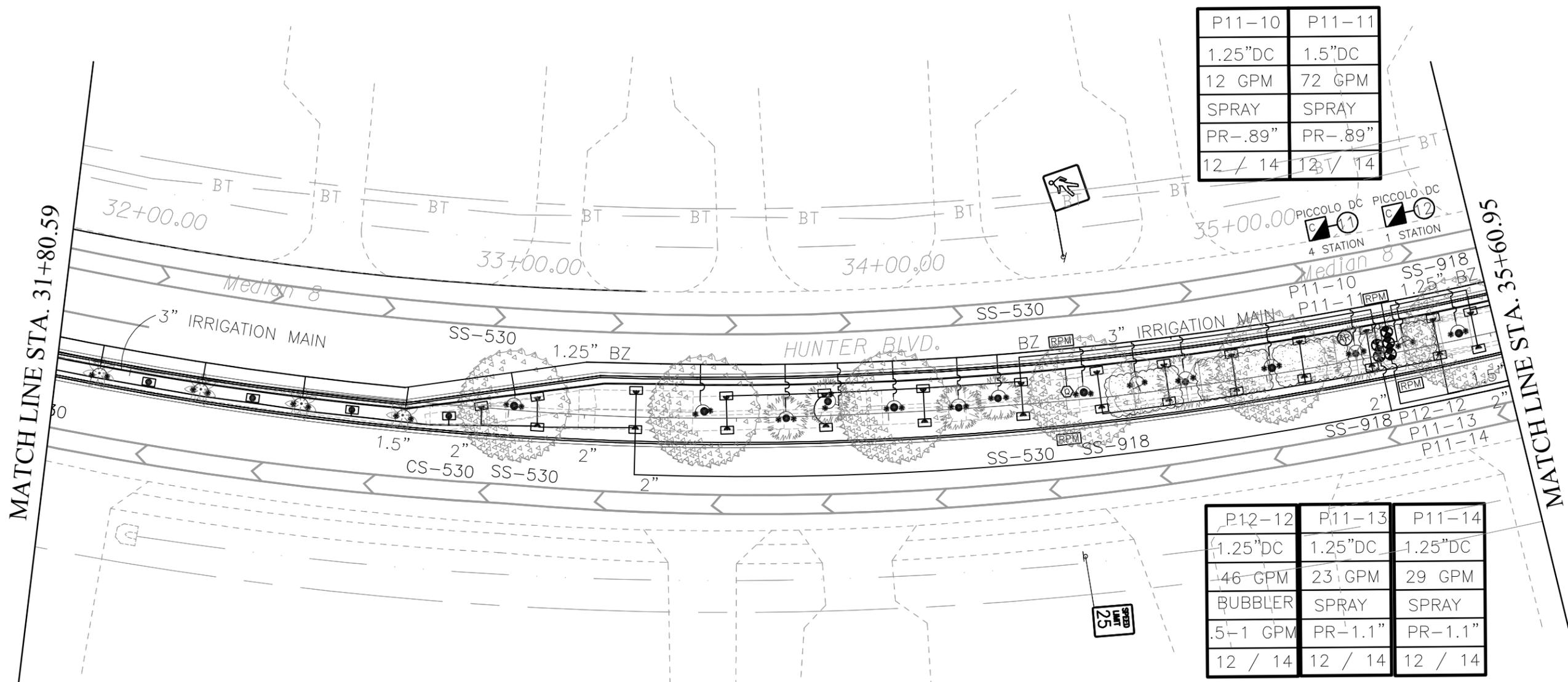
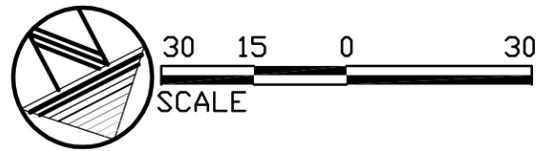
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HUNTER BLVD IRRIGATION PLAN

SHEET NO.
LD-54

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P11-10	P11-11
1.25"DC	1.5"DC
12 GPM	72 GPM
SPRAY	SPRAY
PR-.89"	PR-.89"
12 / 14	12 / 14

P12-12	P11-13	P11-14
1.25"DC	1.25"DC	1.25"DC
46 GPM	23 GPM	29 GPM
BUBBLER	SPRAY	SPRAY
.5-1 GPM	PR-1.1"	PR-1.1"
12 / 14	12 / 14	12 / 14

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IRRIGATION LEGEND

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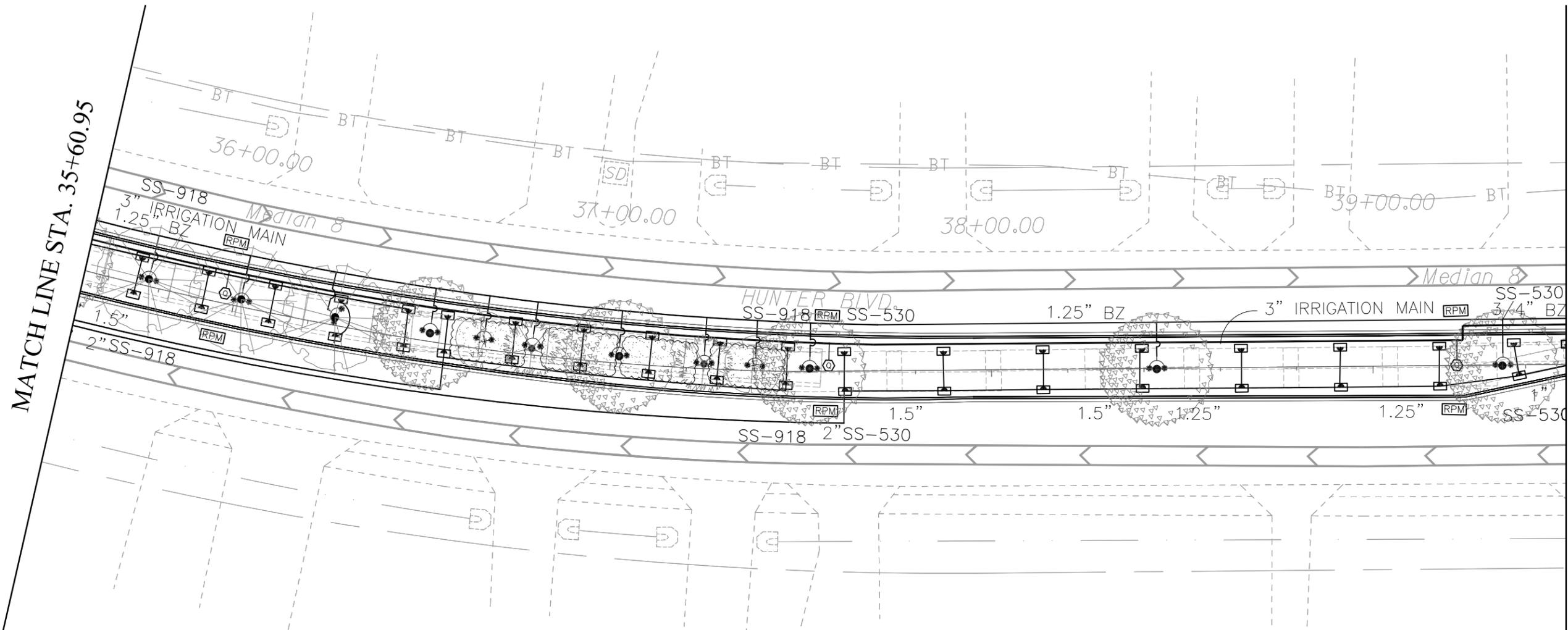
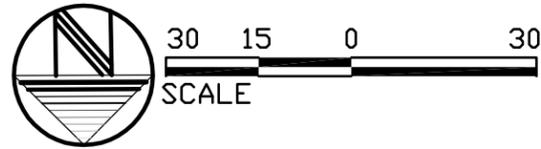
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HUNTER BLVD IRRIGATION PLAN

SHEET NO.
LD-55

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IRRIGATION LEGEND

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- PROPOSED 3/4" SCH. 40 PVC CONDUIT FOR VALVE CONTROL WIRES FROM PICCOLO TO VALVE BOX.

IRRIGATION LEGEND

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IRRIGATION LEGEND

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HUNTER BLVD IRRIGATION PLAN

SHEET NO.

LD-56

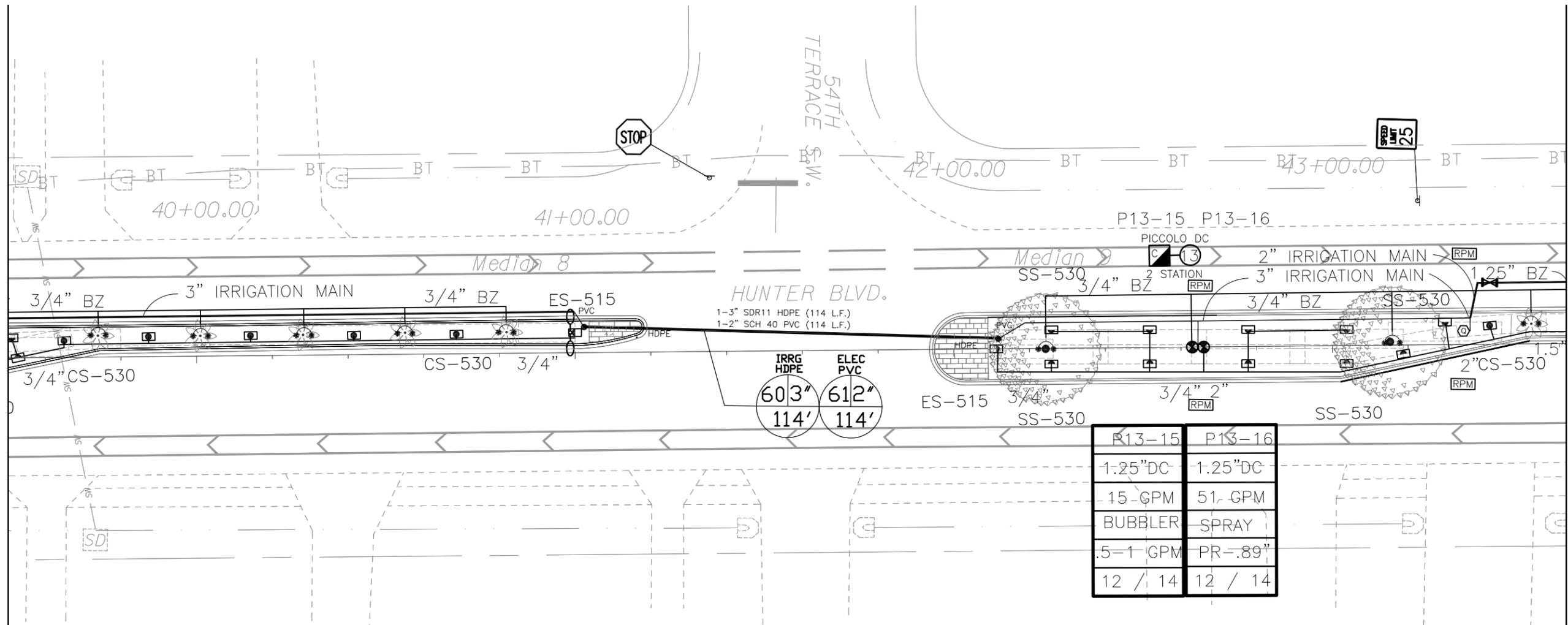
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MATCH LINE STA. 35+60.95



MATCH LINE STA. 39+51.77



MATCH LINE STA. 43+61.37

P13-15	P13-16
1.25" DC	1.25" DC
15 GPM	51 GPM
BUBBLER	SPRAY
0.5-1 GPM	PR-.89"
12 / 14	12 / 14

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 5079 Tamiami Trail East • Naples, Florida 34113
 Phone: (239) 417-0707 Fax: (239) 417-0708
 Certificate of Authorization LC-C000098 - Michael A. McGee, LA-0000864

COLLIER COUNTY TRANSPORTATION

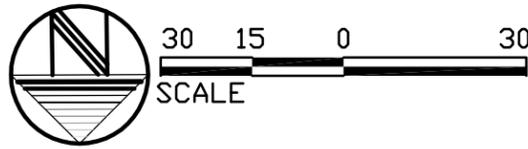
CORONADO PKWY. & HUNTER BLVD.
 GOLDEN GATE BEAUTIFICATION, M.S.T.U.

HUNTER BLVD IRRIGATION PLAN

SHEET NO.

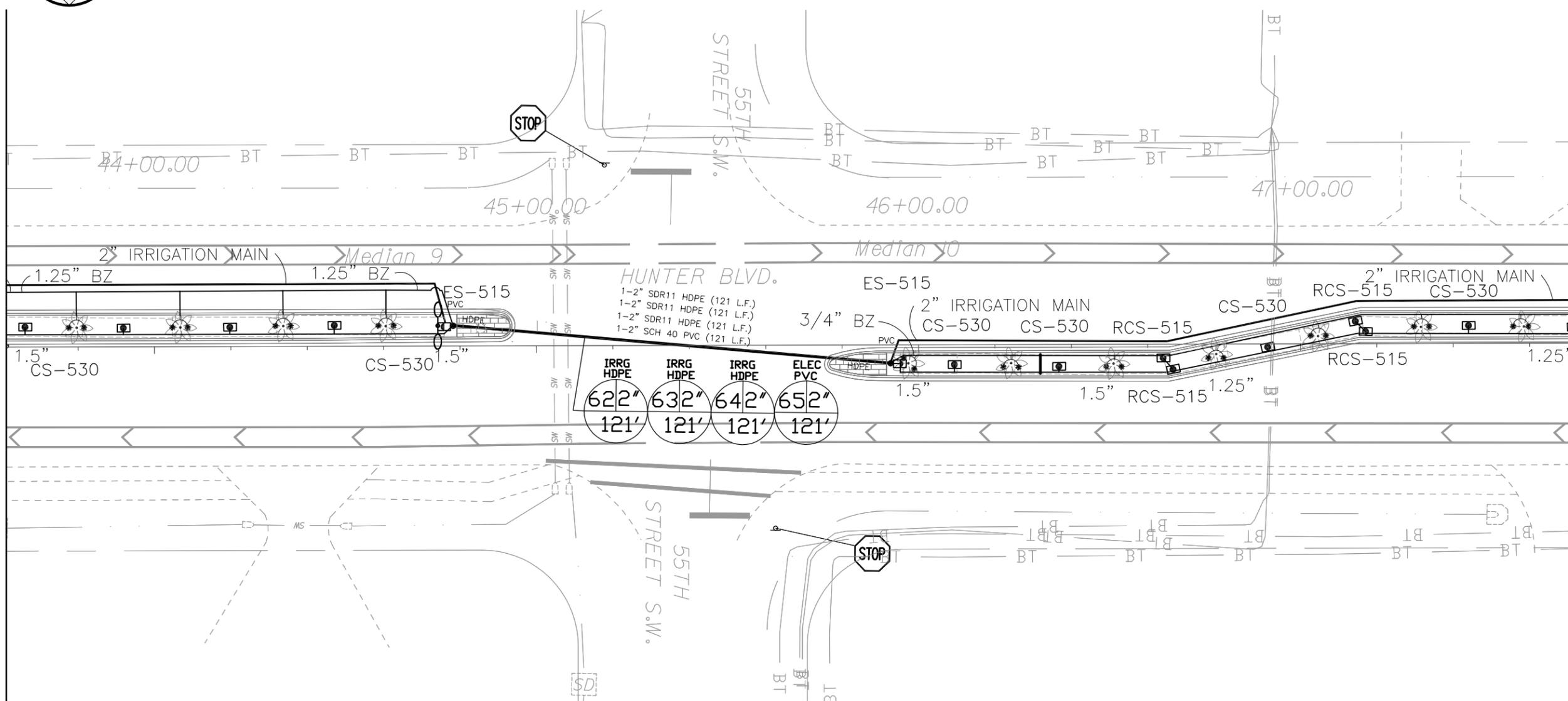
LD-57

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MATCH LINE STA. 43+61.37

MATCH LINE STA. 47+70.96



IRRIGATION LEGEND

- IRRIGATION WATER SOURCE: PROPOSED 8" WELL & PUMP 10 HP VFD SUBMERSIBLE PUMP STATION WITH AUTOMATED SELF-FLUSHING FILTRATION SYSTEM AND ELECTRICAL DISCONNECT. INCLUDE 1-120V GFI OUTDOOR RECEPTACLE ON DISCONNECT POST. LOCATED IN MEDIAN No. 5 ON HUNTER BLVD.
- PROPOSED MOTOROLA PICCOLO XR 1, 2 OR 4 STATIONS, DC REMOTE TERMINAL CONTROLLER WITH CONC. BANJO POST.
- PROPOSED IRRIGATION MAIN, 1120-1220 CLASS 200 PVC GASKET PIPE, PANTONE PURPLE 522C.
- PROPOSED PVC TO HDPE MECHANICAL JOINT INTERCONNECTING FITTING WITH TRANSITIONAL GASKETS.
- PROPOSED CLASS 150 SDR 11 HDPE CASING TO BE USED AS IRRIGATION MAIN AND LATERALS UNDER PAVED SURFACE CROSSINGS. (BY OTHERS SEE ENG. MEDIAN IMPROVEMENT PLANS)
- PROPOSED 3/4" SCH. 40 PVC CONDUIT FOR VALVE CONTROL WIRES FROM PICCOLO TO VALVE BOX.

IRRIGATION LEGEND

- PROPOSED 1120-1220 CLASS 200 PVC LATERAL LINE. PANTONE PURPLE 522C. SIZES VARY REFER TO PLANS.
- PROPOSED ELECTRICAL CONDUIT FOR IRRIGATION PUMP STATION, DIRECTIONAL BORE INSTALLATION. REFER TO NOTES FOR SIZES. ELECTRIC SERVICE DROP CONDUIT & CONDUCTORS FROM POWER POLE HAND HOLE TO THE ELECTRICAL CABINET SERVICE PANEL TO PUMP STATION. (BY OTHERS SEE ENG. MEDIAN IMPROVEMENT PLANS)
- PROPOSED IRRIGATION MAIN OR SUBMAIN ISOLATION VALVES
- PROPOSED 3/4" - 1-1/5" CLASS 200 PVC BUBBLERS ZONE LATERAL LINE.
- PROPOSED IRRIG. MAIN PRESSURE RELEASE VALVE, REFER TO DETAIL.
- PROPOSED IRRIG. MAIN AIR VACUUM RELIEF VALVE, REFER TO DETAIL.
- PROPOSED IRRIGATION MAIN LINE PRESSURE CHECK POINT.

IRRIGATION LEGEND

- PROPOSED IRRIGATION MAIN FLUSH/BLOW OFF, SIZE TO LINE.
- PROPOSED IRRIGATION ZONE CONTROL VALVE, FIELD ADJUST LOCATION WHERE SHOWN IN CONFLICT WITH TREE/PALM. DC SOLENOIDS REQUIRES SEPARATE COMMONS FOR EVERY FOUR (4) VALVES.
- PROPOSED 1" DIA. 3/4" SCH. 40 PVC BALL VALVE IN 10" CIRCULAR VALVE BOX WITH GRAVEL.
- PROPOSED IRRIGATION QUICK COUPLING VALVE, FIELD ADJUST LOCATION WHERE SHOWN IN CONFLICT WITH TREE/PALM.
- PROPOSED HUNTER PRO SPRAY 12" HIGH POP-UP SPRAY HEAD OFFSET FROM BACK OFFSET FROM BACK OF CURBING TO VARY BASED UPON PLANT MATERIAL BEING IRRIGATED. NOZZLES: RCS-515, SS-530, ES-515, CS-530, & SS-918
- PROPOSED ADJUSTABLE FLOOD BUBBLERS 2 PER TREE AT EDGE OF ROOT BALL.

IRRIGATION LEGEND

- (PROPOSED CASINGS BY OTHERS. SEE ENGINEERING MEDIAN IMPROVEMENT PLANS) PROPOSED CASING DESIGNATED IDENTIFICATION
- PROPOSED CASING SIZE
- PROPOSED CASING ESTIMATED LENGTH
- PROPOSED PICCOLO CONTROLLER - ZONE CONTROL VALVE NUMBER
- PROPOSED IRRIGATION ZONE CONTROL VALVE SIZE, AC OR DC
- PROPOSED IRRIGATION ZONE ESTIMATED FLOW DEMAND
- PROPOSED IRRIGATION ZONE SPRINKLER HEAD TYPE
- PROPOSED IRRIGATION ZONE ESTIMATED PERCIPITATION RATE
- PROPOSED VALVE CONTROL WIRE COMMON & ACTIVATION GA. SIZES
- PROPOSED ELECTRICAL CABINET SEE "CONTROLLER DETAILS" SHEET INSTALLATION TO ONLY INCLUDE ELECTRICAL SERVICE ENCLOSURE PORTION E-1
- PROPOSED REFLECTIVE PAVEMENT MARKER, (2) PER VALVE OR GROUP OF VALVES ONE ON EACH SIDE OF THE MEDIAN.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

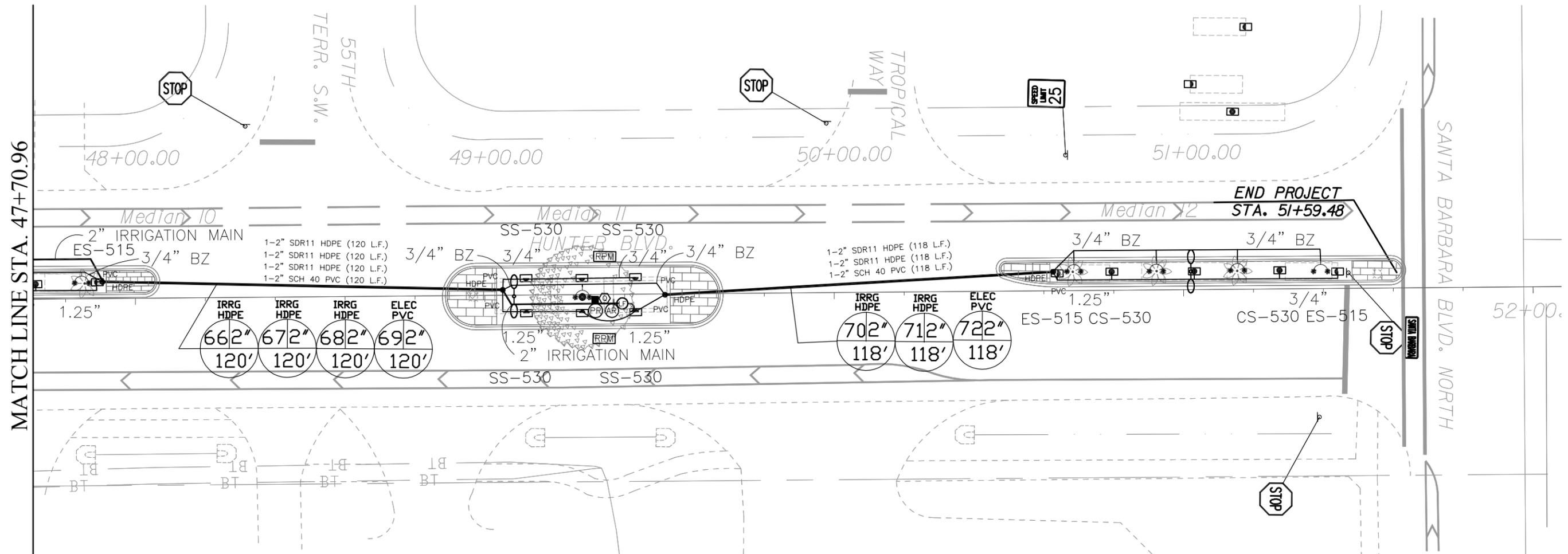
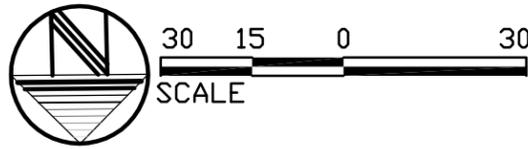
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COLLIER COUNTY TRANSPORTATION
 CORONADO PKWY. & HUNTER BLVD.
 GOLDEN GATE BEAUTIFICATION, M.S.T.U.

HUNTER BLVD IRRIGATION PLAN

SHEET NO.
LD-58

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MATCH LINE STA. 47+70.96

END PROJECT
STA. 51+59.48

SANTA BARBARA BLVD. NORTH

IRRIGATION LEGEND

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GOLDEN GATE BEAUTIFICATION, M.S.T.U.

HUNTER BLVD IRRIGATION PLAN

SHEET NO.
LD-59

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IRRIGATION NOTES

A. GENERAL NOTES

1. THE PLANS AND DRAWINGS ARE DIAGRAMMATIC OF THE WORK TO BE PERFORMED. THE WORK SHALL BE EXECUTED IN A MANNER TO AVOID CONFLICTS WITH UTILITIES AND OTHER ELEMENTS OF CONSTRUCTION, INCLUDING LANDSCAPE MATERIALS. ANY AND ALL DEVIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER OR OWNERS. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY ASPECT OF THE IRRIGATION SYSTEM AS SHOWN ON THE PLANS AND DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES, OR DISCREPANCIES EXIST THAT MIGHT NOT HAVE BEEN KNOWN DURING THE DESIGN OF THE IRRIGATION SYSTEM. IN THE EVENT THAT NOTIFICATION OF THE CONFLICT IS NOT GIVEN TO THE REPRESENTATIVE, THE CONTRACTOR WILL ASSUME FULL RESPONSIBILITY FOR ALL REVISIONS.
2. IRRIGATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND ALL CONTRACT DOCUMENTS. CONTRACTOR SHALL COMPLY WITH ALL PREVAILING LOCAL OR STATE CODES, ORDINANCES AND REGULATIONS.
3. CHECK AND VERIFY ALL SITE CONDITIONS, INCLUDING SERVICE UTILITY LOCATIONS, PRIOR TO TRENCHING OR DIGGING. COORDINATE ALL IRRIGATION SYSTEM CONSTRUCTION WITH EXISTING AND/OR NEW PLANTINGS TO AVOID CONFLICT OR INTERFERENCE WITH LOCATION OF PIPING, SLEEVING, CABLES AND SERVICE UTILITIES. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION WITH ALL OTHER CONSTRUCTION ON SITE, ESPECIALLY LANDSCAPE INSTALLATION. IRRIGATION SYSTEM IS TO BE RELOCATED AT NO ADDITIONAL COST FOR ANY CONFLICT WITH LANDSCAPE INSTALLATION OR ANY OTHER SITE CONSTRUCTION OR EXISTING CONDITIONS. ALL COMPONENTS THAT ARE NOT CONTAINED WITHIN THE SPECIFIC AREAS SHOWN ON THE DRAWINGS WILL NOT BE ACCEPTED. ALL PIPING AND OTHER COMPONENTS ARE TO REMAIN WITHIN THE PROPERTY OF THE OWNER.
4. WHERE EXISTING OR NEW TREES, LIGHT STANDARDS, SIGNS, ELECTRONIC CONTROLLERS AND/OR OTHER OBJECTS ARE AN OBSTRUCTION TO AN IRRIGATION SPRINKLER'S PATTERN, THE COMPONENT AND PIPING SHALL BE RELOCATED AS NECESSARY TO OBTAIN PROPER COVERAGE WITHOUT DAMAGING THE OBSTRUCTION. ENGINEER IN CONJUNCTION WITH THE LANDSCAPE ARCHITECT OR REPRESENTATIVE TO DETERMINE WHETHER OBSTRUCTION OCCURS OR NOT.
5. COMPONENT SPACING ARE MAXIMUM. DO NOT EXCEED SPACING SHOWN OR NOTED ON THE PLANS. COMPONENT SPACING MAYBE ADJUSTED TO ACCOMMODATE CHANGES IN TERRAIN AND PLANTING LAYOUT AS LONG AS THE MODIFIED SPACING DO NOT EXCEED THE SPACING SHOWN IN THE PLANS. UNLESS SHOWN OTHERWISE, IRRIGATION CONTRACTOR SHALL PROVIDE 100% COVERAGE.
6. ALL MATERIALS AND EQUIPMENT SHOWN SHALL BE INSTALLED AS DETAILED ON THE PLANS. IF THE DRAWINGS DO NOT THOROUGHLY DESCRIBE THE TECHNIQUES TO BE USED, THE INSTALLER SHALL FOLLOW THE INSTALLATION METHODS/INSTRUCTIONS RECOMMENDED BY THEIR MANUFACTURER.
7. IRRIGATION CONTRACTOR SHALL ADJUST ALL SPRINKLERS, CONTROLLER AND OTHER DEVICES TO OBTAIN SPECIFIED OPERATING CHARACTERISTICS, INCLUDING COVERAGE, OPERATING PRESSURE, FLOW RATES AND OPERATION TIME, AS INDICATED ON THE DRAWINGS AND ON THE IRRIGATION SYSTEM SPECIFICATIONS. ADJUST ALL SPRINKLERS TO AVOID OVERTHROW OF WATER ONTO ROADWAYS.
8. CONTRACTOR TO PROVIDE INSTALLATION SHOP DRAWINGS AND MANUFACTURER PRODUCT INFORMATION FOR ALL IRRIGATION COMPONENTS. ALL INSTALLATIONS SHALL BE AS RECOMMENDED BY MANUFACTURERS. THE QUANTITIES SHOWN IN THE LEGENDS AND SYMBOL SHEETS SHALL NOT BE USED FOR BIDDING PURPOSES. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONDUCTING A COMPREHENSIVE TAKE-OFF OF MATERIALS TO DETERMINE THE ACTUAL QUANTITIES OF MATERIAL NECESSARY TO EXECUTE THE WORK DESCRIBED ON THE PLANS.
9. ALL TRENCHES SHALL BE BACKFILLED WITH CLEAN, DEBRIS-FREE MATERIALS TO 90% DENSITY. CLEAN SAND SHALL BE USED FOR BEDDING MATERIAL IF PARENT SOIL CANNOT BE ADEQUATELY RID OF ROCK AND OTHER EXTRANEOUS DEBRIS. PULLING PIPE SHALL BE PROHIBITED.
10. ALL SOLVENT WELDING SHALL BE PRECEDED BY PRIMING OF THE FITTINGS AND PIPE AS RECOMMENDED BY THE MANUFACTURER.
11. CONTRACTOR TO LABEL/NUMBER ALL ZONE VALVE COVERS WITH CORRESPONDING CONTROLLER ZONE NUMBER AND ISOLATION VALVE BOX COVERS WITH RECORD DRAWING NUMBERS. PROVIDE TAGS TO ALL VALVES AS SHOWN PER DETAILS.

B. MAINLINE & PIPING

1. ALL IRRIGATION MAIN(S) & SUBMAIN(S) SHALL BE 1120-1220 CLASS 200 PVC GASKETTED PIPE WITH GASKETTED FITTINGS, EXCEPT FOR PIPING THROUGH SLEEVES. ALL PIPES USED DOWNSTREAM OF EACH REMOTE CONTROL VALVE SHALL BE CLASS 200 PVC SOLVENT WELD PIPE UNLESS SHOWN OTHERWISE.
2. THE DEPTH OF ALL LINES SHALL BE AS SPECIFIED PER PLANS AND DETAILS. MEASUREMENTS SHALL BE FROM TOP OF PIPE(S) TO FINISH GRADE. CONTRACTOR WILL BE RESPONSIBLE FOR RETRENCHING AND RELAYING ANY PIPE NOT MEETING SPECIFIED DEPTH(S).
3. ALL MAINLINES WILL BE INSTALLED WITH A TRACING TAPE LABELED "NON-POTABLE IRRIGATION MAIN".
4. ALL PIPING STUBOUTS FOR FUTURE ZONE EXPANSIONS SHALL HAVE THE END CAPPED, AND BE LOCATED USING A JUMBO VALVE BOX.
5. ALL IRRIGATION IS TO BE LOCATED IN THE MEDIANS. ALL IRRIGATION LINES ARE TO BE INSTALLED AT LEAST 3 FEET FROM THE CURB.
6. ALL MAIN LINE WITH NO VALVE WIRE SHALL HAVE APPROVED LOCATOR DEVICES EVERY 50 FEET AND AT DIRECTION CHANGES.

C. SLEEVING/CASINGS

1. ALL SLEEVING INSTALLED WITHIN THE ROADWAY SHALL BE INSTALLED USING DIRECTIONAL BORING TECHNOLOGY PER FDOT STANDARDS AND SPECIFICATIONS "UTILTY ACCOMMODATIONS MANUAL" LATEST EDITION. ALL SLEEVING PIPE SIZES SHALL BE AS SPECIFIED ON PLANS AND INSTALLED WITH OWNER APPROVED LOCATING DEVICES; I.E. 3M SCOTCHMARK MAGNETIC LOCATING DISC AT EACH END ON TOP OF SLEEVING.
2. ANY FUTURE SLEEVES SHALL BE CAPPED AND LOCATOR DISC INSTALLED. ABANDONED SLEEVES SHALL BE CLOSED PER FDOT STANDARDS.
3. ALL SLEEVES SHALL EXTEND 8 FEET BEYOND ANY PAVEMENT EDGE AND 4 FEET BEYOND BACK OF CURBING.
4. ALL SLEEVES SHALL BE TWO SIZES LARGER THAN THE PIPING WITHIN, OR AS SIZED PER PLAN.

D. ISOLATION VALVES

1. ALL ISOLATION VALVES SHALL BE BRASS . ISOLATION VALVES SHALL BE SIZED AS IDENTIFIED BY SYMBOLS ON THE DRAWINGS, OR BY MATCHING THE SIZE OF THE PIPES THEY OCCUR WITHIN. VALVES OF 3/4" THROUGH 2-1/2" SHALL BE THREADED, VALVES 3" AND LARGER SHALL BE FLANGED.
2. ALL ISOLATION VALVES INSTALLED ALONG THE MAINLINE SHALL BE INSTALLED WITHIN A JUMBO SIZE VALVE BOX. REFER TO DETAILS AND SPECIFICATIONS FOR VALVE INSTALLATIONS. CONTRACTOR SHALL PROVIDE VALVE BOX EXTENSIONS WHEN NECESSARY.

E. QUICK COUPLER VALVES

1. ALL QUICK COUPLER VALVES SHALL BE BRASS. QUICK COUPLER VALVES SHALL OCCUR AT LOCATIONS SHOWN ON THE PLANS, IF APPLICABLE. QUICK COUPLER VALVES SHALL BE INSTALLED IN JUMBO SIZE VALVE BOXES AND AS DETAILED ON THE DRAWINGS.

F. CONTROL SYSTEM

1. CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING IRRIGATION VALVE WIRING TO THE CONTROLLER LOCATION PER THE PLANS AND SPECIFICATIONS. ALL HARDWARE NECESSARY MUST BE INCLUDED AS PART OF CONNECTION SERVICE.
2. CONTROLLER(S) WILL HAVE A RAIN SENSOR AND BY-PASS SWITCH INSTALLED TO MEET STATE AND LOCAL CODES. RAIN SENSORS AND BY-PASS SWITCHES ALSO WILL BE INSTALLED IN ACCORDANCE TO MANUFACTURER'S GUIDELINES. CONTRACTOR SHALL INSTALL AND WIRE RAIN SENSOR.
3. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO COORDINATE WITH OTHER TRADES ON SITE. PROGRAM OR SCHEDULE THE IRRIGATION SEQUENCE FOR THE IRRIGATION SYSTEM DURING CONSTRUCTION AND NORMAL OPERATION UNTIL FINAL ACCEPTANCE BY THE OWNER. CONTROLLER & VALVE OPERATION SHALL BE CHRONOLOGICAL.

G. REMOTE CONTROL VALVES

1. ALL CONTROL VALVES SHALL BE INSTALLED WITHIN THE MIDDLE OF THE MEDIAN. CONTROL VALVES SHALL BE THE TYPE AND SIZE AS SPECIFIED HEREIN AND INDICATED ON THE DRAWINGS.
2. WIRE SIZES FOR CONTROL VALVE CONNECTIONS TO THE CONTROLLER WILL BE COATED SOLID COPPER UL APPROVED DIRECT BURIAL WIRE #12 GAUGE FOR COMMON WIRE AND #14 GAUGE FOR ACTIVATION WIRES. RED WIRE WILL BE USED FOR ACTIVATION, WHITE WIRE FOR COMMON, ONE ADDITIONAL WHITE WIRE CONTINUOUS ALONG ENTIRE MAIN LINE, AND ONE ADDITIONAL #14 GREEN WIRE FOR SPARE ALONG ENTIRE LENGTH OF MAIN LINE. THE CONTRACTOR SHALL FURNISH SUFFICIENT WIRE COILS FOR EXPANSION, AT ALL VALVE LOCATIONS AND AT SLEEVE ENDS AND CHANGE OF DIRECTIONS. DC SOLENOID REQUIRES A SEPARATE COMMON FOR EVERY FOUR (4) VALVES.
3. ALL ELECTRICAL SPLICES SHALL BE MADE USING 3M-DBY OR 3M-3570 SCOTCHLOCK SEAL PACK CONNECTORS AS DETAILED HEREIN.
4. ALL VALVE WIRING SHALL BE INSTALLED PER PIPE TRENCHING DETAIL.
5. AT NO TIME WILL UNSLEEVED WIRING SHARE THE SAME SLEEVE WITH MAIN LINES OR OTHER PIPING. WIRING SHALL BE IN DEDICATED SLEEVES.

H. VALVE & SPLICE BOXES

1. ALL VALVE BOXES SHALL MEET SPECIFICATIONS, BE SIZED & INSTALLED AS SHOWN AND DETAILED HEREIN. TOP OF VALVE BOXES SHALL BE 4 INCHES HIGHER THAN GRADE WHEN INSTALLED. CONTRACTOR TO REINSTALL AND LEVEL BOXES IF SOIL SETTLING OCCURS.
2. WHERE POSSIBLE AND FEASIBLE INSTALL VALVE BOXES WITHIN PLANTING BEDLINES. NO VALVE BOXES SHALL BE INSTALLED WITHIN 3 FEET OF A SIDEWALK OR OTHER PEDESTRIAN USED SURFACE, 5' FROM ANY VEHICULAR ROADWAYS OR IN THE CENTER OF ROADWAY MEDIANS. DO NOT INSTALL AT THE BOTTOM OF SWALE(S) OR ANY OTHER LOW POINT.
3. CONTRACTOR SHALL LOCATE AND FLAG ALL VALVE LOCATIONS PRIOR TO INSTALLATION FOR APPROVAL BY THE LANDSCAPE ARCHITECT.

I. POP-UP SPRAY HEADS & BUBBLERS

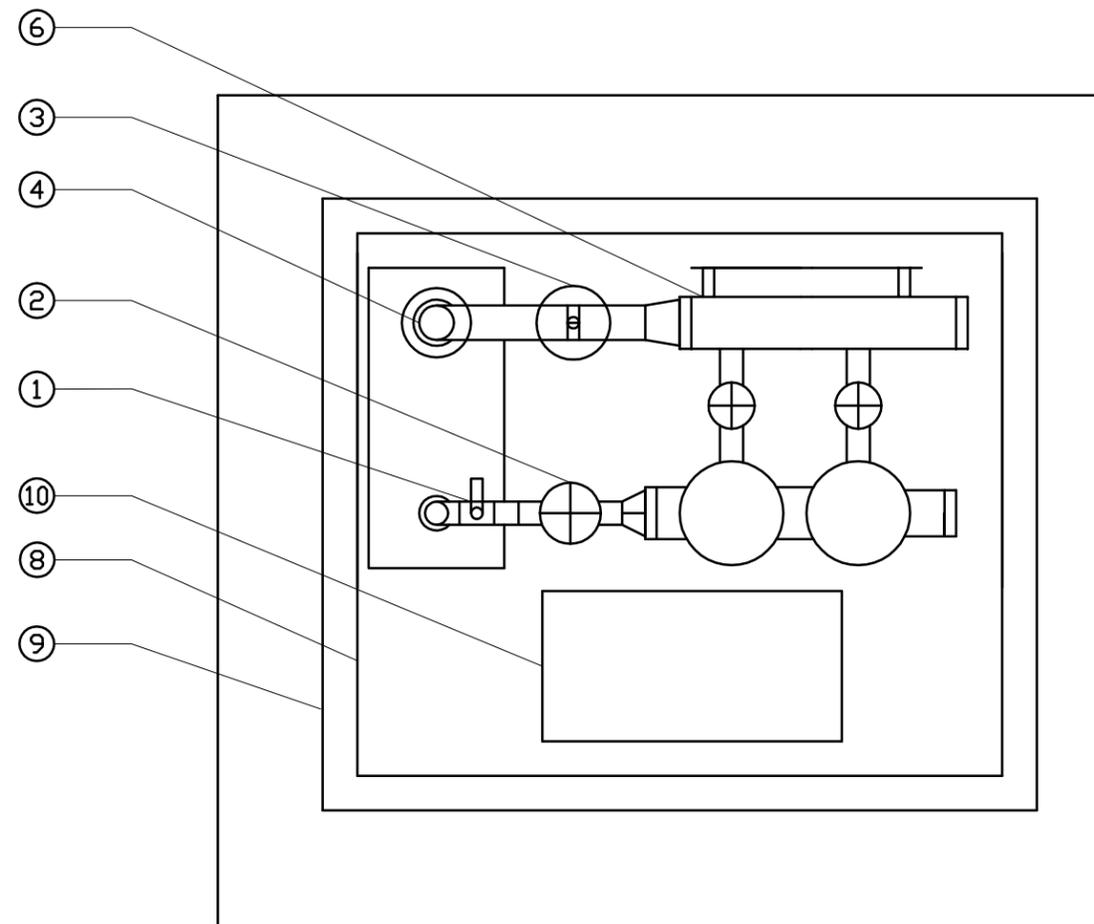
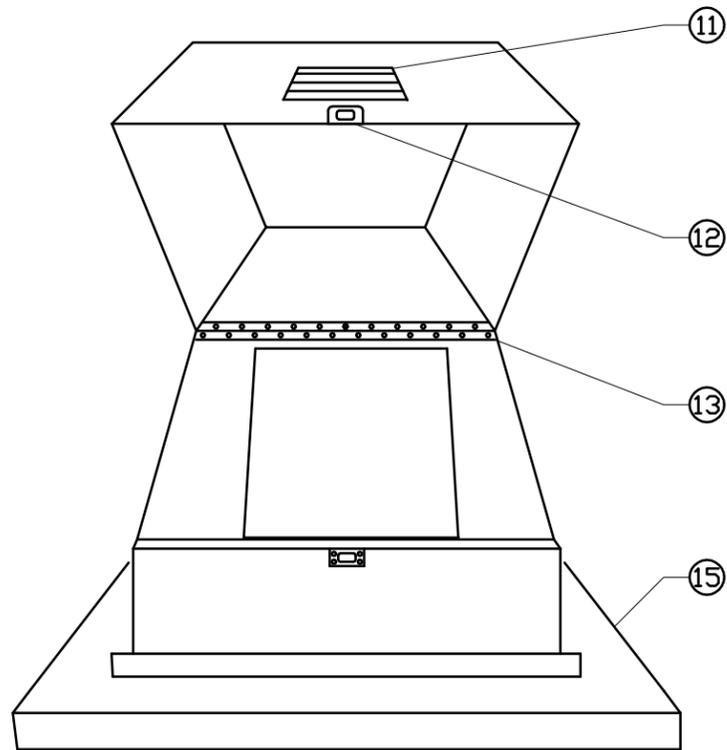
1. ALL SPRINKLER HEADS WILL BE INSTALLED AND CONNECTED TO LATERAL LINES AS PER DETAILS. THE SMALLEST PIPE SIZE ALLOWED TO CONNECT SPRINKLER TO SPRINKLER SHALL BE 3/4" OR AS SPECIFIED PER PLAN.
2. ALL POP-UP SPRAY HEADS SHALL BE 12" HIGH POP-UP SPRAY HEADS AS SPECIFIED HEREIN.
3. ALL TREES AND PALMS DESIGNATED TO HAVE SUPPLEMENTAL IRRIGATION SHALL HAVE IT IN THE FORM OF 2 PRESSURE COMPENSATING FLOOD TYPE BUBBLERS. THE DISCHARGE RATE SHALL BE: (1) 1 GPM NOZZLE PER TREE ON FULL COVERAGE SPRAY HEAD ZONES: (2) .5 GPM NOZZLE PER SINGLE ROW SPRAY HEAD COVERAGE, OR ROTARY GEAR HEAD (FULL COVERAGE OR SINGLE ROW COVERAGE) COVERAGE. THE BUBBLERS SHALL NOT BE INSTALLED ON TOP OF THE ROOTBALL ADJACENT TO THE TRUNK, THEY SHALL BE INSTALLED ADJACENT TO THE ROOTBALL PERIMETER, AWAY FROM THE TRUNK.
4. SPRINKLER NOZZLE RANGE SHALL BE BASED ON THE SPACING SHOWN ON THE PLAN(S) OR AREAS TO BE COVERED. THE CONTRACTOR SHALL CONSULT WITH THE LANDSCAPE ARCHITECT FOR NOZZLE ADJUSTMENTS AS NEEDED.

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COLLIER COUNTY TRANSPORTATION
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 GOLDEN GATE BEAUTIFICATION, M.S.T.U.

SHEET NO.
 IRRIGATION NOTES
 LD-60



NOTE: Fiberglass Reinforced Enclosure with Forest Green Chemical & Ultraviolet Grade Gelcoat Finish. Maintain 3' clearance from all sides of pumpstation.

- 1) DISCHARGE ISOLATION VALVE
- 2) FLOW METER/ MAIN VALVE CAPABLE OF COMMUNICATING WITH MOTOROLA CONTROLLER
- 3) 2 GALLON PRESSURE TANK
- 4) ROLL GROOVE MANIFOLD
- 5) CHECK VALVE (SET IN WELL)
- 6) DISCAHARGE FILTERS WITH 80 MESH , AUTOMATIC FLUSH CONTROL VIA MOTOROLA CONTROLLER
- 7) 10HP SUBMERSIBLE PUMP (150 GPM @ 60 PSI) SET IN WELL
- 8) 47"W X 56"L X 45"H FOREST GREEN FIBERGLASS FLIP TOP COVER
- 9) 52"W X 62"L WELDED ALUMINUM FRAME
- 10) UL LISTED CONTROL PANEL W/ VFD CONTROLLS IN A FIBERGLASS ENCLOSURE WITH FAULT RESET/DETECTION VIA MOTOROLA CONTROLLER, LOSS OF PRIME, LOW & HIGH PRESSURE, AND TRANSIENT SURGE PROTECTION
- 11) 8" X 16" VENT (FRONT AND REAR)
- 12) STAINLESS STEEL LOCKABLE HASP
- 13) STAINLESS STEEL HINGE AND HARDWARE
- 14) N/A
- 15) 5'W X 7'L X 4"T CONCRETE SLAB

PUMP PERFORMANCE
150 GPM @ 60 PSI

MODEL # VFD-NETA-SUB-10-230-1

NAPLES ELECTRIC
MOTOR WORKS, INC.

2088 J&C BLVD.

NAPLES, FL 34109

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CORONADO PKWY. & HUNTER BLVD.
GOLDEN GATE BEAUTIFICATION, M.S.T.U.

IRRIGATION PUMP STATION

SHEET NO.
LD-61

**Submersible Well Pump System
Variable Frequency Drive
Fiberglass Enclosed**

Model: VFD-NETA-SUB-10-230-1

Purpose:

To provide a complete prefabricated variable frequency drive skid mounted fiberglass enclosed pressure demand submersible pump system with UL Listed Industrial Control Panel. The manufacture will manufacture, flow test, and warrant the system to meet all specified operating requirements described below and in system detail. The system shall be Model # VFD-NETA-SUB-10-230-1 as manufactured by Naples Electric Motor Works, Inc. of Naples, FL USA 239-591-1313. This specification describes the general components and minimal operating requirements and shall not be construed as a manufacturing guide or complete list of required system components.

Frame:

The pump station will have a prefabricated welded 52"x 62" aluminum structural skid. Aluminum supports will be provided for mounting of control enclosure.

Fiberglass enclosure:

The pump station will be completely enclosed by a Forest Green fiberglass enclosure 47"x 56"x 45" Enclosure is manufactured to ASSE 1060 specifications with a minimum 3/16" thick thixotropic resin reinforced with fiberglass strand, protected with 18 to 20 mils of UV isophthalic polyester gel coat. The lockable flip top lid design allows access for maintenance with an overlapping lid seam design for weatherproofing and vandal resistance.

Pump and motor:

The pump will be a Berkeley 6" turbine type submersible liquid end with ASTM A48 Class 30 discharge adapter, top and intermediate bowls. Impellers will be silicon bronze. Bearings at discharge, intake, and bowl will be neoprene.

The motor will be Franklin 6" rated 10hp, 230volt, 3450 rpm at 60Hz. Motor shell and splined output shaft will be stainless steel. Kingsbury-type water lubricated thrust bearing. Pressure equalizing diaphragm. Hermetically sealed windings.

Pump Performance:

The required pump performance at a 30' depth in the well will be 150GPM @ 60PSI

Irrigation pump controls:

The Variable Frequency Drive and all electronic control circuitry will be mounted in a fiberglass NEMA 3R rated enclosure with a gasketed lockable-hinged door with stainless steel twist lock latches.

Operation

The system utilizes a Variable Frequency Drive to operate as a pressure demand start reduced flow retirement. The station maintains a fixed discharge pressure that compensates for varying flow demands within the capabilities of the pump.

Soft Start/Stop

The system soft starts to the operating pressure and soft stops at retirement via a programmable ramp time. System starting and stopping can be either pressure demand no-flow retirement or clock start from the irrigation controller.

Low Pressure Protection

The system will shut down if the pressure drops below a preset pressure for 30 seconds and a low-pressure fault will be indicated. The system will remain off until reset.

Drive Fault

The drive has numerous overload and safety faults including phase loss, low/high voltage, high current, internal heat sink overheat, ground fault, short circuit fault, the system will shut off and the fault will appear on the operator display. All key parameters will also be recorded at the time of fault and the last 10 faults are stored. The system will send a fault output to the Motorola Controller and can be reset via the Motorola Controller.

Protection Equipment

Fused disconnect with type R current limiting fuses.
Silicon Oxide Varistor voltage surge protection per phase.
Thermostat controlled cooling fan for control enclosure.

Variable Frequency Drive:

VFD with the following features; overload capacity nominal 110% for 60 sec 150% peak, power loss ride-thru: 2 sec, auto restart after power loss or reset table fault, feedback signal loss detection, 32 bit microprocessor logic, LCD keypad display, 5 lines x 16 characters back lit with copy function, non-volatile memory/program retention, elapsed time monitor, RS-422/485 port: Modbus protocol, meter functions: Volt, amp, kilowatt, MTBF 28 years.

Pressure Transmitter:

A 4-20ma pressure transducer will provide a feedback signal to the VFD PI control for constant pressure control. The transmitter is CE recognized with 17-4 PH stainless steel housing and meets NEMA 4 (IP65) protection ratings, and is shock rated 200 g and vibration rating of 20 g 50-2000Hz. Pressure range is 0-100 PSI with a 300 PSI over pressure rating.

Flow meter:

A normally closed hydrometer will provide total and rate display +/- 2% accuracy within its rated flow range at 10 to 225 psi. A reed switch provides pulse output for flow monitoring .

Self-Cleaning discharge filters:

Netafim Disc-Kleen filters with a maximum operating pressure of 140psi with 80 mesh filters will be connected to the discharge manifold. Auto back flush controlled by the Motorola Controller will be discharged to a 2" line into drywell (dry well provided by others).

During back flush alternating filter batteries are taken off line and flushed while the other battery continues to filter water for the irrigation system. The filter discs will separate during back flush cycle for optimal cleaning to the header.

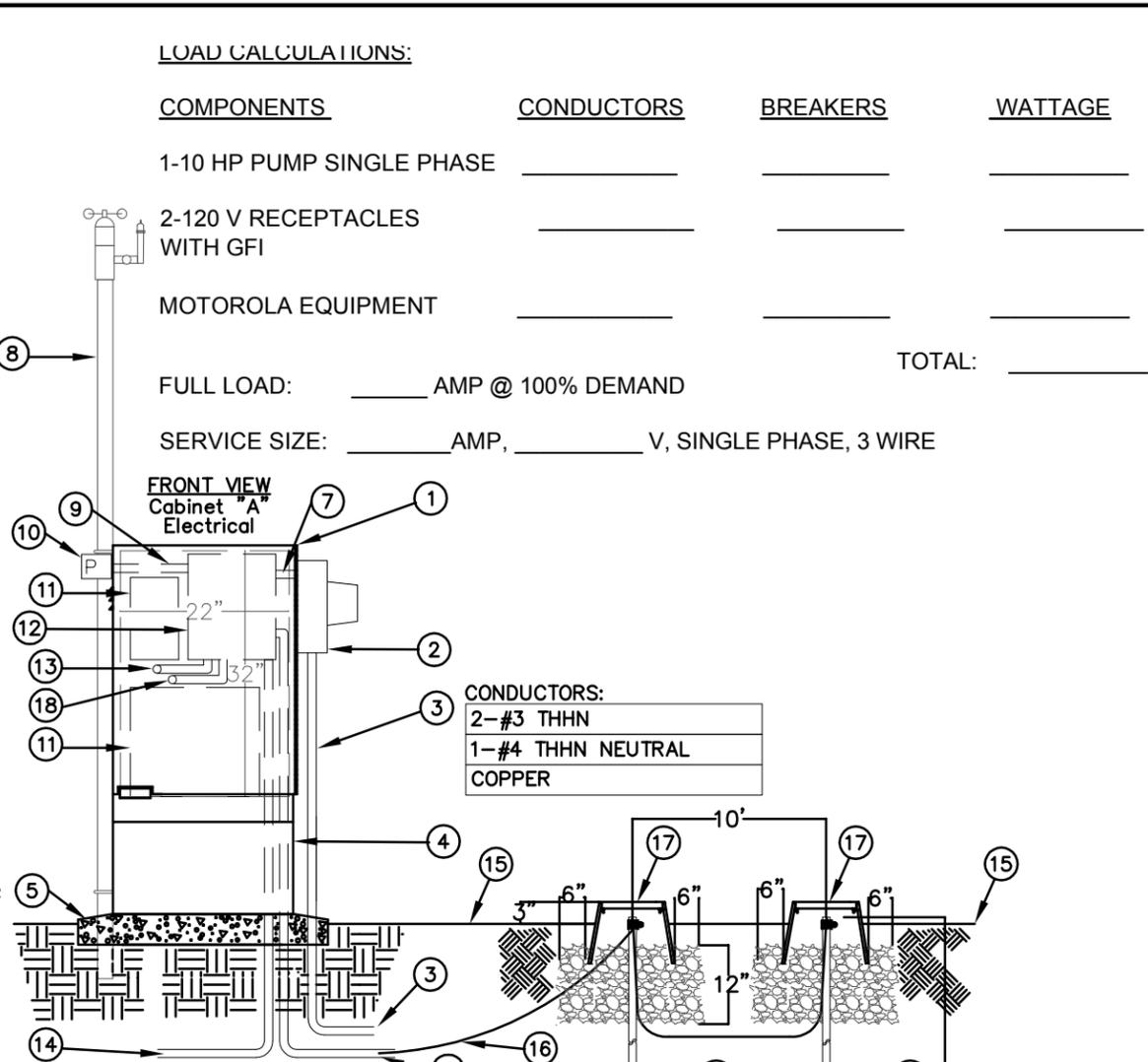
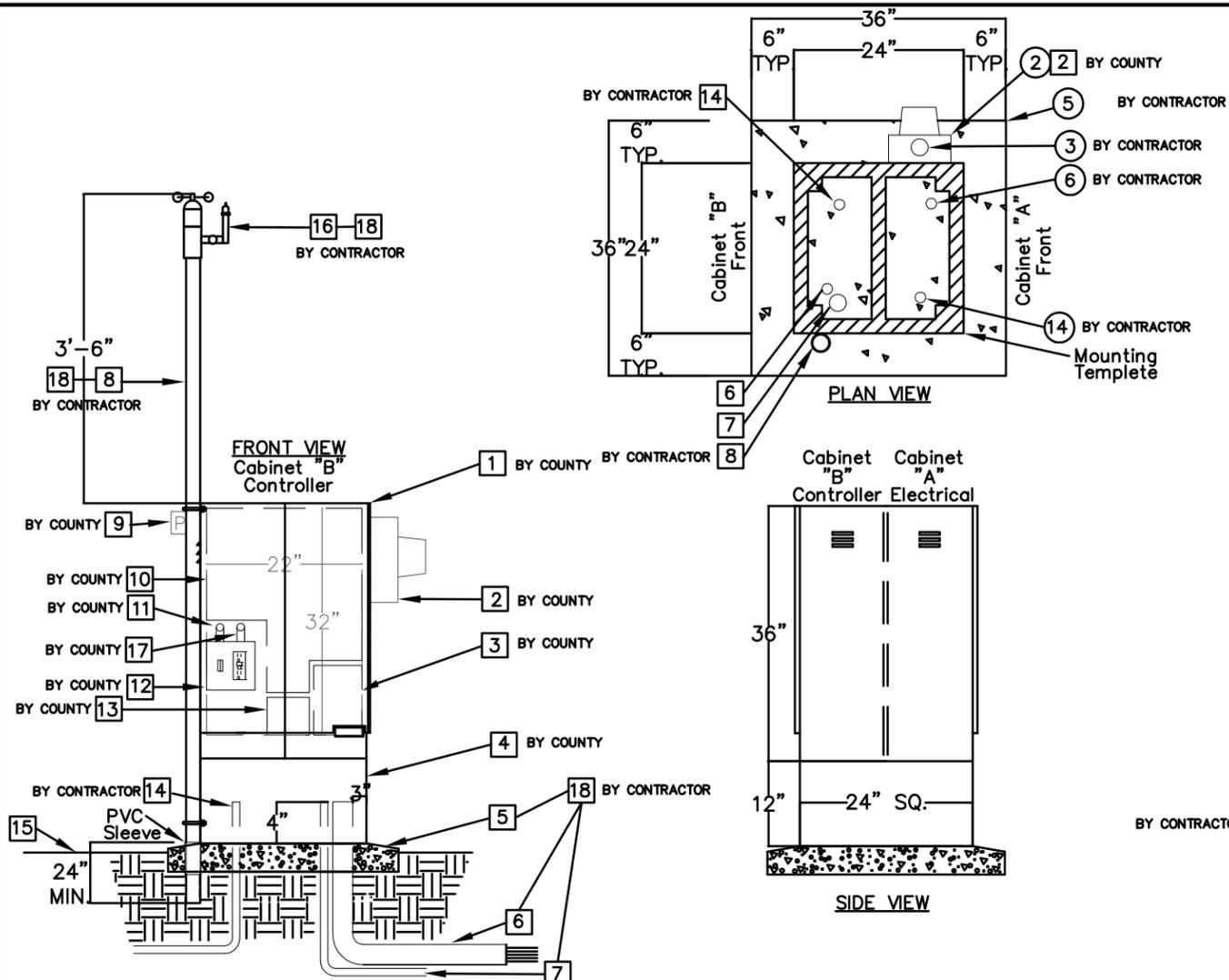
Discharge Pipe Manifold:

The pipe discharge manifold shall be constructed of galvanized steel pipe with roll groove fittings. A butterfly valve will be provided on headers 4" or greater and a bronze ball valve on anything smaller. A 2-gallon capacity pressure tank will be installed on the pump skid under the cover and connected to the header.

Warranties:

The pumping station components will be warranted by the manufacturer for a period of one year from date of manufacture.

REVISIONS						 Landscape Architecture DESIGN • ENVIRONMENTAL MANAGEMENT • PLANNING <small>5079 Tamiami Trail East • Naples, Florida 34113 Phone: (239) 417-0707 Fax: (239) 417-0708 Certificate of Authorization LC-C000098 - Michael A. McGee, LA-0000864</small>	COLLIER COUNTY TRANSPORTATION		IRRIGATION PUMP STATION	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		CORONADO PKWY. & HUNTER BLVD. GOLDEN GATE BEAUTIFICATION, M.S.T.U.			LD-62
5/09	MAM	REVISED MAIN LINE LAYOUT								



LOAD CALCULATIONS:

COMPONENTS	CONDUCTORS	BREAKERS	WATTAGE
1-10 HP PUMP SINGLE PHASE	_____	_____	_____
2-120 V RECEPTACLES WITH GFI	_____	_____	_____
MOTOROLA EQUIPMENT	_____	_____	_____
FULL LOAD: _____ AMP @ 100% DEMAND			TOTAL: _____
SERVICE SIZE: _____ AMP, _____ V, SINGLE PHASE, 3 WIRE			

- LEGEND:**
- CONTROLLER STAINLESS STEEL ENCLOSURE.
 - METER BOX ON CABINET "A"
 - AREA FOR 2-WIRE SYSTEM HIT UNIVERSAL ADAPTOR
 - 12" EXTENSION PEDESTAL, STAINLESS STEEL
 - POURED CONCRETE BASE - 6" MIN. THICKNESS - EXTEND 6" BEYOND OUTSIDE DIMENSIONS OF ENCLOSURE WITH 1/2% SLOPE FOR DRAINAGE.
 - 2" DIA. SCH. 80 LONG SWEEP ELL FOR VALVE WIRES.
 - 3/4" DIA. PVC SCH. 80 LONG SWEEP ELL CONDUIT FOR MASTER VALVE WIRES. 6 PLEX 18 GA. PVC JACKETED DIRECT BURIAL WIRE.
 - 2" DIA. GALV. PIPE FOR RAIN SENSOR. MOUNT TO CABINET WITH 2-3/8" GALV. U-BOLTS WITH WASHERS & NUTS. MOUNT THROUGH 2.25" DIA. SCH. 40 PVC SLEEVE IN CONCRETE PAD. BY IRRIGATION CONTRACTOR.
 - PHOTOELECTRIC CONTROL WITH LIGHTING SYSTEM IF SPECIFIED IN PLANS ON CABINET "A"
 - CABINET MOUNTING AREA FOR CONTROLLER EQUIPMENT
 - 1/2" DIA. SEALTITE 120-VOLT SERVICE CONDUIT.
 - CONTROLLER SUB-ASSEMBLY (CSA) INCLUDES GFI & TERMINAL STRIPS WITH PLACARDS. IN CABINET "B"
 - AREA FOR 2-WIRE HIT UNIVERSAL ADAPTOR SURGE PROTECTION.
 - SPARE 1/2" DIA. SCH. 80 PVC CONDUIT FROM CSA WITH END CAPS.
 - FINISHED GRADE BY CONTRACTOR.
 - HUNTER MINI WEATHER STATION WITH BY-PASS SWITCH, MODEL #MWS-FR-BPSW
 - 1/2" DIA. SEALTITE GROUND WIRE CONDUIT TO CSA.
 - DC CONTROLLERS WILL REQUIRE THE INSTALLATION OF NUMBERS 5, 6, 7, 8, 14 & 16 MINIMUM.

- GENERAL INSTALLATION AND BID NOTES:**
- CONTRACTOR SHALL PROVIDE PROPERLY SIZED ELECTRICAL SYSTEM COMPONENTS FOR THE SERVICE LOAD VOLTAGE REQUIRED AT EACH SERVICE LOCATION.
 - ALL ELECTRIC WORK SHALL BE PER NATIONAL, STATE AND/OR LOCAL BUILDING CODES, ORDINANCES OR REGULATIONS.
 - A PROPERLY SIZED LIGHTNING ARRESTOR SHALL BE WIRED INSIDE THE ELECTRICAL CABINET "A".
 - WHEN REQUIRED LOCATE PUMP START, CONTACTOR, TRANSFORMER, AND H.O.A. SWITCH INSIDE ELECTRICAL CABINET.
 - COLLIER COUNTY TO PROVIDE CABINETS "A" & "B" WITH MOTOROLA IRRINET OR SCORPIO CONTROLLER IN CABINET "B". CONTRACTOR TO BID INSTALLATION OF ELECTRICAL SYSTEM COMPONENTS INTO CABINET "A" AND INSTALLATION ON-SITE OF BOTH CABINETS "A" & "B" SO THEY ARE 100 PERCENT COMPLETE AND FULLY OPERATIONAL.
 - CABINET - V.I.T. PRODUCTS, INC. 24" WIDE DOUBLE DOOR ENCLOSURE MODEL # SB-24DCR, 24" W x 36" H x 24" D COLD ROLLED STEEL WITH STAINLESS STEEL HINGES WEATHER & VANDIAL RESISTANT, UL LISTED, NEMA 4X RATED, THREE POINT LOCKING SYSTEM, REMOVABLE STEEL PREDRILLED BACKBOARDS, LARGE DOOR-MOUNTED STORAGE AND FILTERED LOUVERS TOP & BOTTOM FOR VENTILATION.
 - ALL ELECTRICAL COMPONENTS, ASSEMBLY AND EQUIPMENT SHALL BE UL LISTED.

- LEGEND:**
- ELECTRICAL ENCLOSURE.
 - METER BOX TO MEET POWER COMPANY SPECIFICATIONS.
 - 2" DIA. SCH. 80 CONDUIT TO UTILITY COMPANY POWER SOURCE.
 - 12" EXTENSION PEDESTAL.
 - POURED CONCRETE BASE - 6" MIN. THICKNESS - EXTEND 6" BEYOND OUTSIDE DIMENSIONS OF ENCLOSURE WITH 1/2% SLOPE FOR DRAINAGE.
 - 1/2" DIA. PVC SCH. 80 LONG SWEEP ELL FOR GROUNDING WIRE TO GROUND ROD.
 - 1" SCH. 80 PVC NIPPLE
 - MINI-WEATHER STATION & POLE MOUNTED ON CABINET "B".
 - PHOTOELECTRIC CONTROL 1/2" CONDUIT
 - PHOTOELECTRIC CONTROL WITH LIGHTING SYSTEM IF SPECIFIED IN PLANS.
 - OPEN AREA ON CABINET MOUNTING PANEL FOR ADDITIONAL ELECTRICAL 120-VOLT SERVICE IN CONDUIT TO
 - DISTRIBUTION PANEL- EIGHT CIRCUIT 120/240V 100 AMP RATED 8 CIRCUIT MAIN BREAKER PANEL.
 - 1/2" DIA. SEALTITE 120-VOLT SERVICE CONDUIT. CONTROLLER SUB-ASSEMBLY (CSA) INCLUDES GFI & TERMINAL STRIPS WITH PLACARDS. IN CABINET "B"
 - 1" DIA. SCH. 40 PVC TO PUMP STATION: 10 HP, 230V, SINGLE PHASE
 - FINISHED GRADE
 - BARE COPPER GROUND WIRE WITH UL APPROVED WIRE TO ROD EXO-THERMIC WELD SIZE WIRE PER PER ELECTIRC CODE FOR LOAD CENTER REQUIREMENTS.
 - UL APPROVED 5/8" X 10 FT. COPPER GROUND ROD IN SIX INCH DIA. PLASTIC VALVE BOX FILLED WITH 3/8" PEA GRAVEL
 - 1/2" DIA. SEALTITE GROUND WIRE CONDUIT TO CSA.

C-1 CONTROLLER ENCLOSURE "B" N.T.S. MCGEE & ASSOCIATES

E-1 ELECTRICAL ENCLOSURE "A" N.T.S. MCGEE & ASSOCIATES

CE-1 IRRIGATION CONTROLLER & ELECTRICAL SERVICE ENCLOSURE DETAIL

N.T.S. CONTROLLER & CABINET BY COUNTY, CONTRACTOR TO INSTALL

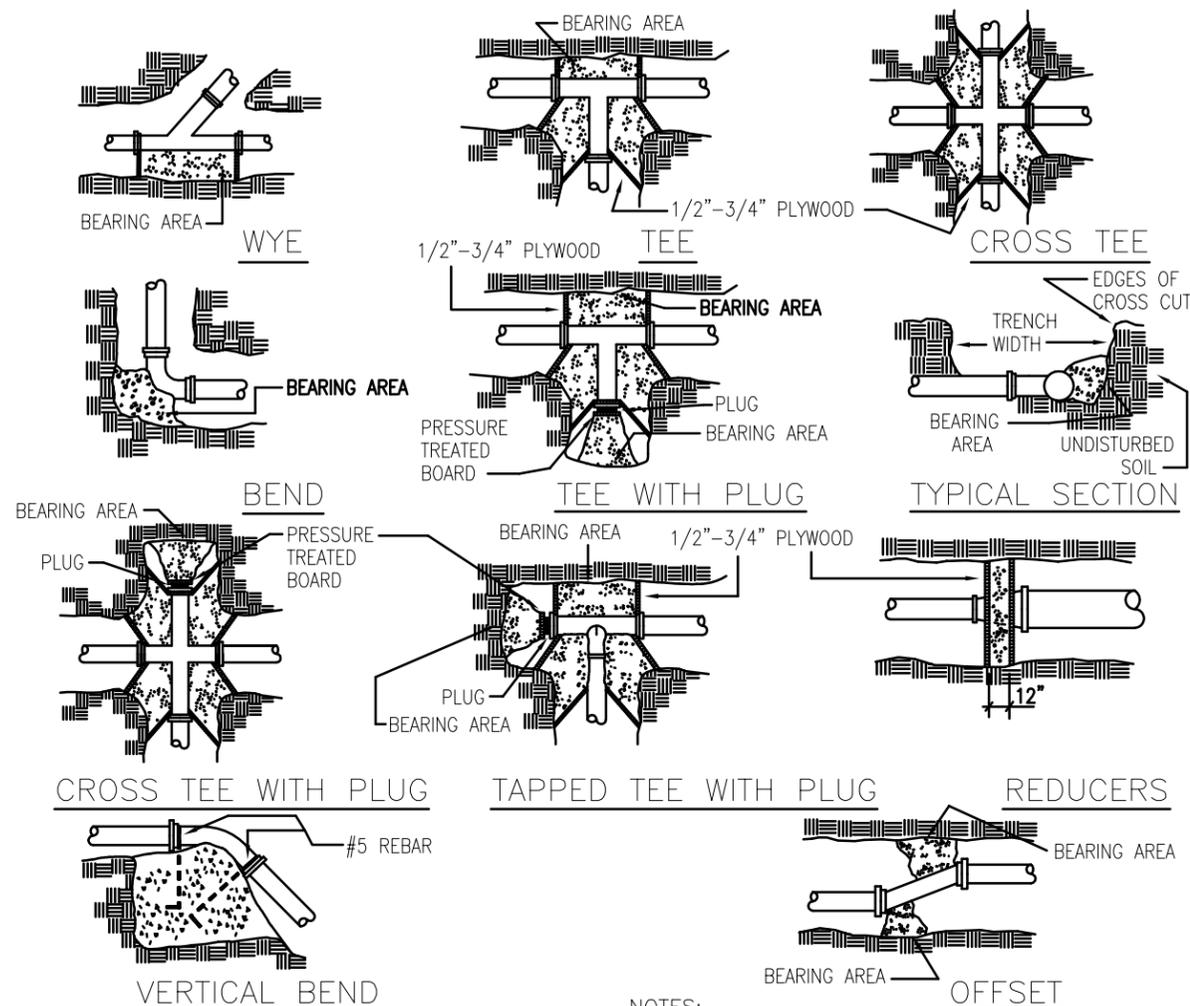
ELECTRICAL CONTRACTOR:

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COLLIER COUNTY TRANSPORTATION
 CORONADO PKWY. & HUNTER BLVD.
 GOLDEN GATE BEAUTIFICATION, M.S.T.U.

CONTROLLER DETAILS
 SHEET NO.
 LD-63



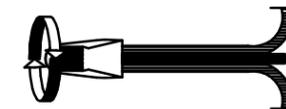
MINIMUM BEARING AREAS IN Sq.Ft. FOR THRUST BLOCKS.					
PIPE SIZE	TEES	90° BEND	45° BEND	22 1/2° BEND	VALVES & PLUGS
4"	1	1	1	1	1
6"	3	4	2	1	3
8"	5	7	4	2	5
10"	8	12	6	3	9
12"	12	16	9	5	12
16"	16	20	12	7	16
20"	24	20	17	10	24
24"	34	34	24	13	34

- NOTES:**
- ON BENDS AND TEES, EXTEND THRUST BLOCKS FULL LENGTH.
 - PLACE BOARD IN FRONT OF ALL PLUGS BEFORE POURING THRUST BLOCKS.
 - POUR THRUST BLOCKS AGAINST UNDISTURBED SOIL. WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE LOOSE SOIL & EXTEND THRUST BLOCK TO UNDISTURBED SOIL.
 - IN BACK FILLING, ANY MUCK ENCOUNTERED SHALL BE REMOVED & REPLACED WITH ACCEPTABLE MATERIAL.
 - BACK FILL MATERIAL SHALL NOT INCLUDE ROCK OR BOULDERS.
 - THRUST BLOCK AREAS BASED ON SOIL BEARING LOAD OF 2000 PSF. & LINE PRESSURE OF 150 PSI..
 - ALL IRRIGATION LINES LARGER THAN 2" ARE TO BE THRUST BLOCKED AS 4" SIZE.

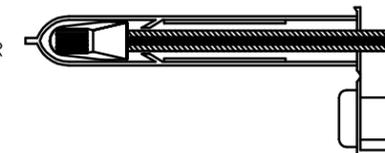
THRUST BLOCK FORMS DETAIL

N.T.S.

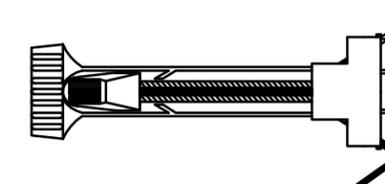
STEP NO. 1.
STRIP WIRES AND APPLY SCOTCHLOK Y ELECTRICAL SPRING CONNECTOR IN A CLOCKWISE DIRECTION.



STEP NO. 2.
INSERT SPLICE TO BOTTOM OF GEL-FILED TUBE. VISUALLY CHECK TO MAKE SURE SCOTCHLOK CONNECTOR HAS BEEN PUSHED PAST THE LOCKING FINGERS AND IS SEATED ON THE BOTTOM OF THE TUBE.

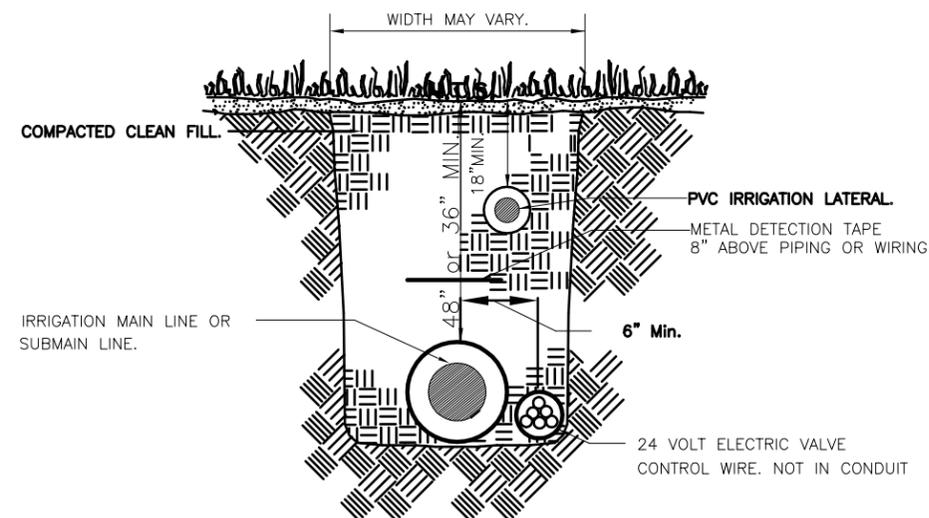


STEP NO. 3.
POSITION WIRES IN WIRE CHANNELS AND CLOSE INSULATOR TUBE COVER.



24 VOLT WIRE CONNECTION DETAIL

N.T.S.



TRENCHING DEPTH FOR ALL MAIN LINES SHALL BE 36 INCHES UNLESS APPROVED BY LANDSCAPE ARCHITECT TO BE REDUCED BECAUSE OF MAIN LINE LOCATION OR DEPTH CONFLICTS. MAIN LINES INSTALLED UNDER LARGE CANOPY TREES OR PALMS SHALL BE AT A DEPTH OF 48".

ALL TRENCHING DEPTHS SHOWN ARE MINIMUM. IN THE EVENT THAT MINIMUM TRENCHING DEPTHS ARE NOT MET, THE TRENCHES SHALL BE RE-EXCAVATED.

DEPTH MEASUREMENTS ARE TO BE DONE FROM FLUSH GRADE TO TOP OF PIPE.

PROVIDE A 6" MINIMUM VERTICAL SEPARATION BETWEEN MAIN LINE(S) AND LATERAL LINE(S).

ALL TRENCHES SHALL BE BACKFILLED WITH CLEAN SOIL FREE OF DEBRIS & NOXIOUS WEEDS. TRENCHES SHALL BE COMPACTED TO A 90% STANDARD PROCTOR DENSITY, ASTM D698-78.

PIPE PULLING THROUGH UN-TRENCHED SOIL IS NOT ALLOWED UNDER ANY CIRCUMSTANCE.

TYPICAL TRENCHING DETAIL

N.T.S.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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Certificate of Authorization LC-000098 - Michael A. McGee, LA-000064

COLLIER COUNTY TRANSPORTATION
CORONADO PKWY. & HUNTER BLVD.
GOLDEN GATE BEAUTIFICATION, M.S.T.U.

INSTALLATION DETAILS

SHEET NO.
LD-64

JUMBO VALVE BOX WITH LOCKABLE LID WITH 6" EXTENSION.
 SET ON BRICK SUPPORTS (4). PROVIDE NON-WOVEN FILTER
 FABRIC WITH 4" LAYER OF PEA GRAVEL ON TOP OF FILTER
 FABRIC. TAPE FILTER FABRIC TO EXTERIOR OF VALVE BOX WITH
 DUCT TAPE, PROVIDE A 4" F.F. OVERLAP FROM BOTTOM OF BOX.
 BOX SHALL BE SET FLUSH AND LEVEL WITH GRADE.

2" & 1.5" MANUAL BRASS GATE VALVE. PROVIDE 6" LONG NIPPLE AT OUTLET.

FINISHED GRADE

VALVE INLET SIZED SCH 40 PVC THREADED NIPPLE CONNECTED TO VALVE.
 CUT OFF THREADED END AT FLANGED CONNECTION END AND SOLVENT WELD TO FLANGE.

SCH 80 PVC FLANGED REDUCER FITTING CONNECTED TO 2" SCH
 80 PVC FLANGE TO BE SOLVENT WELDED TO NIPPLE.

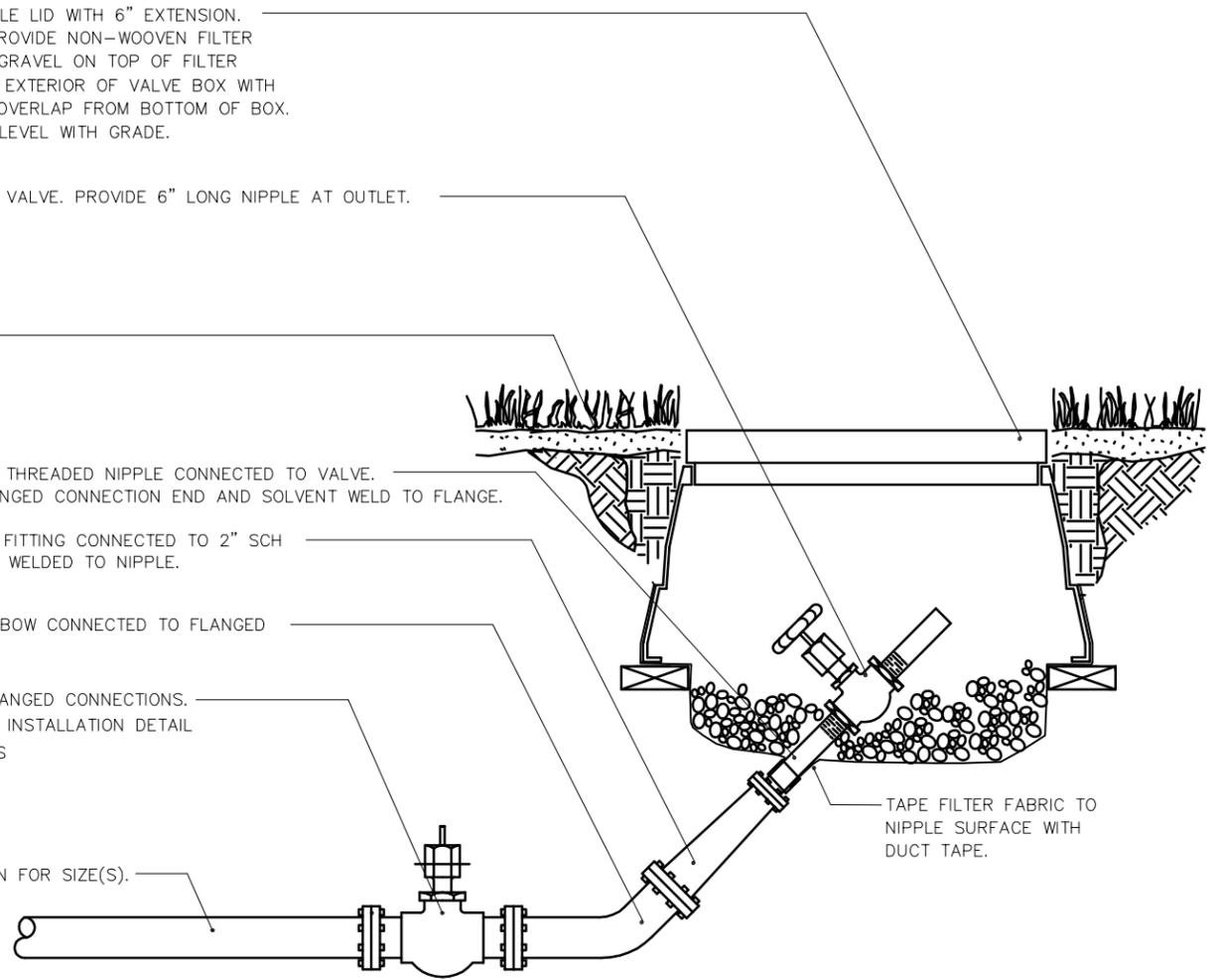
SIZED TO LINE D.I.P. 45° LINE ELBOW CONNECTED TO FLANGED
 D.I.P. REDUCER FITTING.

LINE SIZED GATE VALVE WITH FLANGED CONNECTIONS.
 SEE MAIN LINE ISOLATION VALVE INSTALLATION DETAIL
 FOR INSTALLATION REQUIREMENTS

IRRIGATION MAIN, REFER TO PLAN FOR SIZE(S).

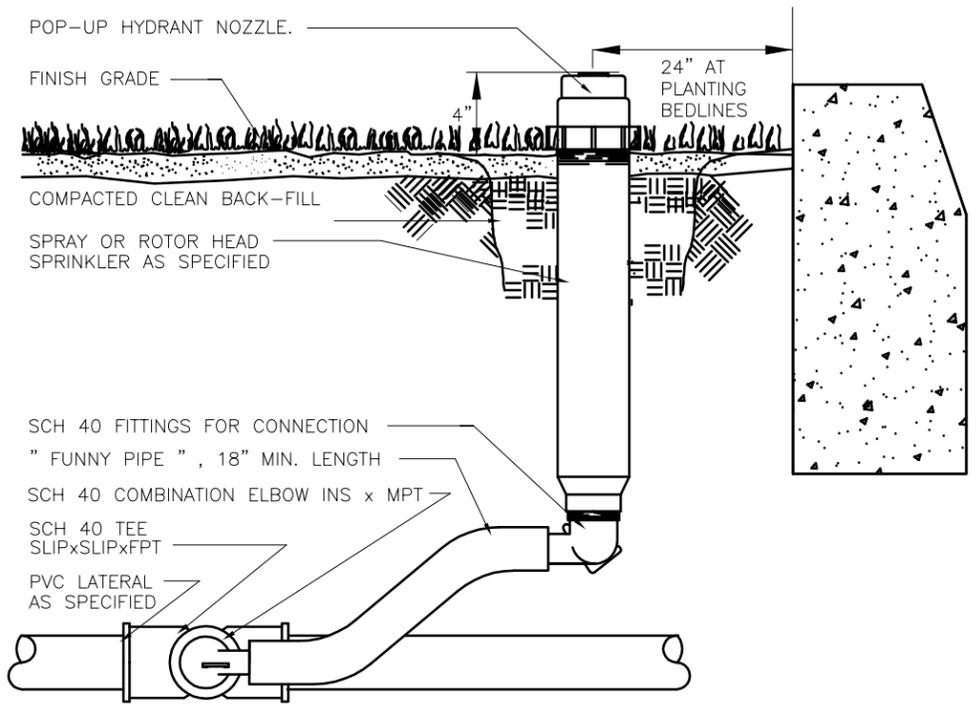
NOTES:
 ALL THREADED RODS, NUTS
 AND WASHERS SHALL BE
 STAINLESS STEEL.

OPEN AND CLOSE SLOWLY THE VALVES DURING FLUSHING.
 OPEN 2" VALVE FIRST, THEN OPEN LARGER VALVE. USE
 A MINIMUM TIME OF 30 SECONDS FOR OPENING OR CLOSING
 EACH VALVE UNDER PRESSURE.



IRRIGATION MAIN LINE BLOW OFF INSTALLATION DETAIL

N.T.S.



NOTES :
 SPRINKLER HEADS SHALL BE PLACED NO CLOSER THAN 6" FROM THE BACK OF CURB
 OR PLACED ON THE CENTERLINE OF THE MEDIAN.
 SPRINKLER HEADS IN NARROW MEDIANS (i.e. at Turn Lanes) SHALL BE PLACED ON
 THE CENTERLINE OR ON THE SIDE OF THE MEDIAN WITH THE HEADS SPRAYING TOWARD
 THE TURN LANE AND NOT THE TRAVEL LANES.
 DO NOT OPERATE AT HIGH PRESSURE LEVELS. ADJUST THE ZONE
 CONTROL VALVE PRESSURE REGULATOR DIAL DOWN TO 30 PSI FOR
 SPRAY HEADS.

**12" HIGH POP UP SPRAY HEAD
 INSTALLATION DETAIL**

N.T.S.

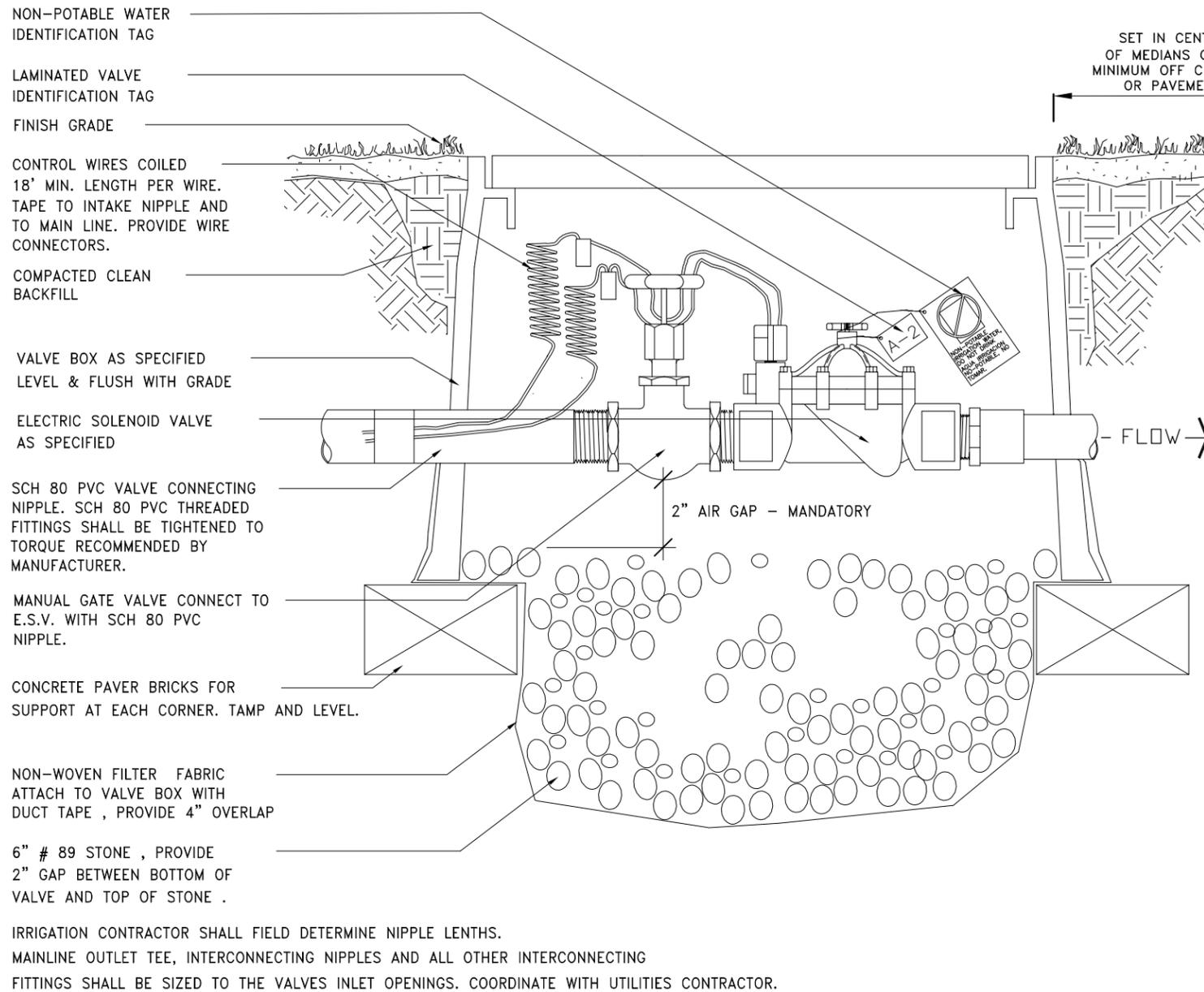
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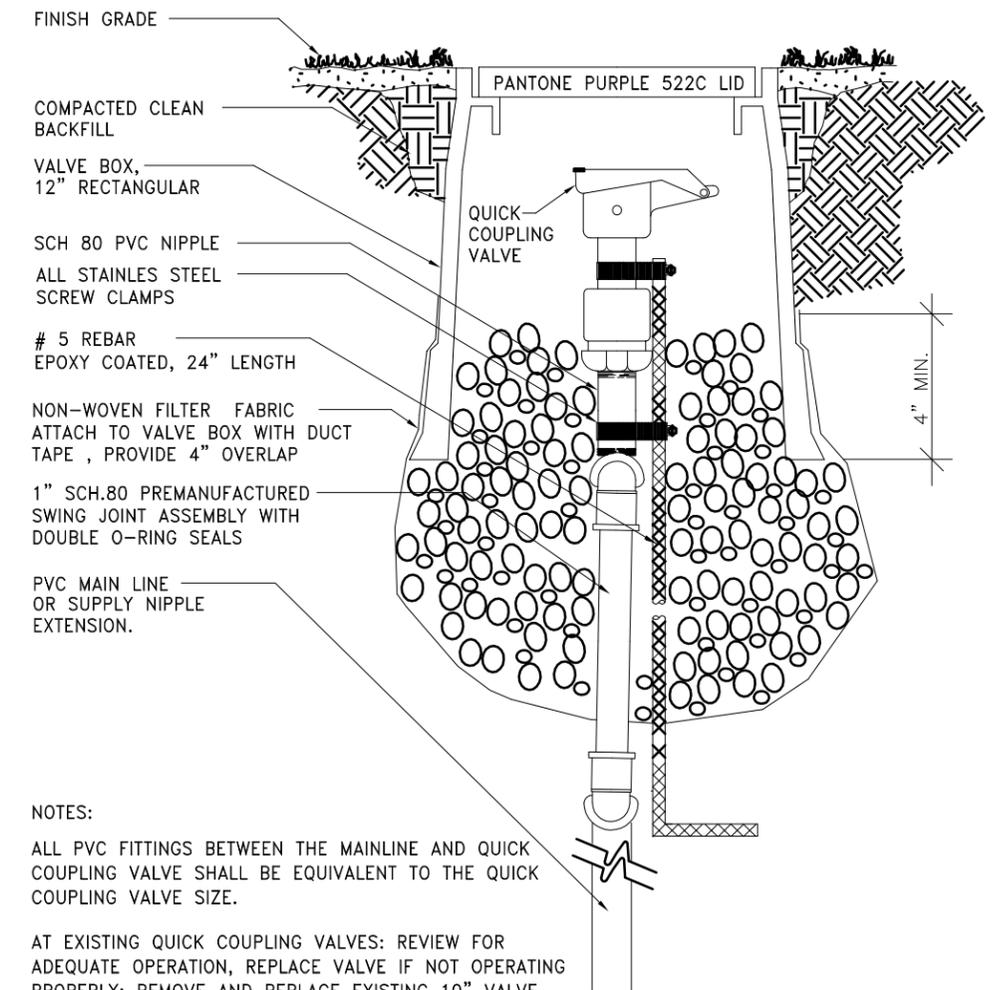
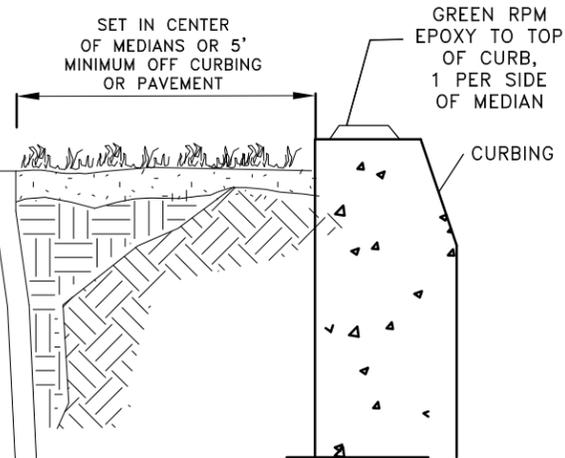
INSTALLATION DETAILS

SHEET NO.
 LD-65



TYPICAL ELECTRIC SOLENOID VALVE ASSEMBLY

SCALE: NOT TO SCALE



NOTES:

ALL PVC FITTINGS BETWEEN THE MAINLINE AND QUICK COUPLING VALVE SHALL BE EQUIVALENT TO THE QUICK COUPLING VALVE SIZE.

AT EXISTING QUICK COUPLING VALVES: REVIEW FOR ADEQUATE OPERATION, REPLACE VALVE IF NOT OPERATING PROPERLY; REMOVE AND REPLACE EXISTING 10\"/>

QUICK COUPLING VALVE INSTALLATION DETAIL

SCALE: NOT TO SCALE

REVISIONS		DATE	BY	DESCRIPTION
5/09	MAM			REVISED MAIN LINE LAYOUT

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INSTALLATION DETAILS

SHEET NO.
 LD-66

NOTE :

REFER TO PLANS FOR BUBBLER FLOW VOLUME AND BUBBLER QUANTITIES PER TREE. ALL BUBBLERS SHALL BE ZONED SEPARATE FROM OTHER ZONES.

BUBBLER IS TO BE INSTALLED ADJACENT TO ROOTBALL PEIMETER. DO NOT INSTALL BUBBLER ON TOP OF ROOTBALL, NEXT TO TRUNK.

TREE OR PALM TO BE IRRIGATED

MULCH AS SPECIFIED.

FLOOD BUBBLER CONNECTED TO FLEXIBLE PVC PIPE WITH ADEQUATE BARBED FITTING.

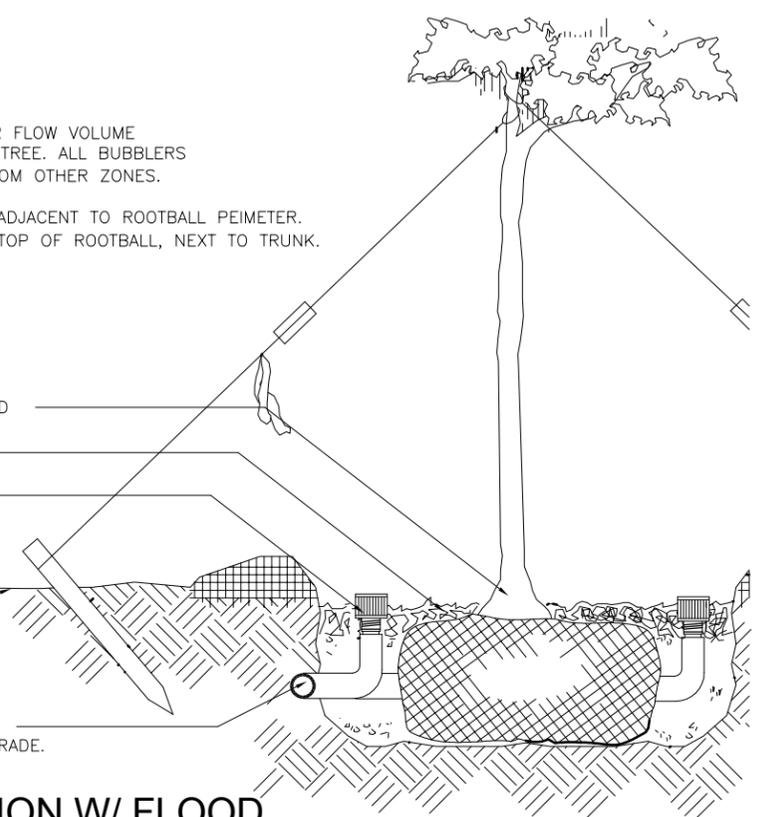
FINISH GRADE

FLEXIBLE PVC PIPE TO FLOOD BUBBLER. INSTALL 6" BELOW GRADE.

TREE IRRIGATION W/ FLOOD

BUBBLER INSTALLATION DETAIL

N.T.S.



TREE/PALM BUBBLER REFERENCE GUIDE

SYMBOL	DESCRIPTION	BUBBLER QTY.	ESTABLISHMENT FLOW RATE
	MAPLE, TABEBUIA SPP.	(2)	.5 GPM BUBBLER PER TREE.
	LIVE OAK	(2)	1 GPM BUBBLER PER TREE.
	CRAPE MYRTLE	(2)	.5 GPM BUBBLER PER TREE.
	JATHROPHA	(2)	.25 GPM BUBBLER PER TREE.
	SABAL/CABBAGE PALM	(2)	.5 GPM BUBBLER PER PALM.
	PAUROTIS/EVERGLADES PALM	(2)	1 GPM BUBBLER PER PALM.
	ALEXANDER PALM	(2)	.25 GPM BUBBLER PER TREE.

BUBBLER NOZZLE DESIGNATION IS NOT SHOW IN PLAN VIEW SHEETS DUE TO GRAPHIC CLARITY ISSUES. REFER TO THIS GUIDE FOR BUBBLER DESIGNATION.

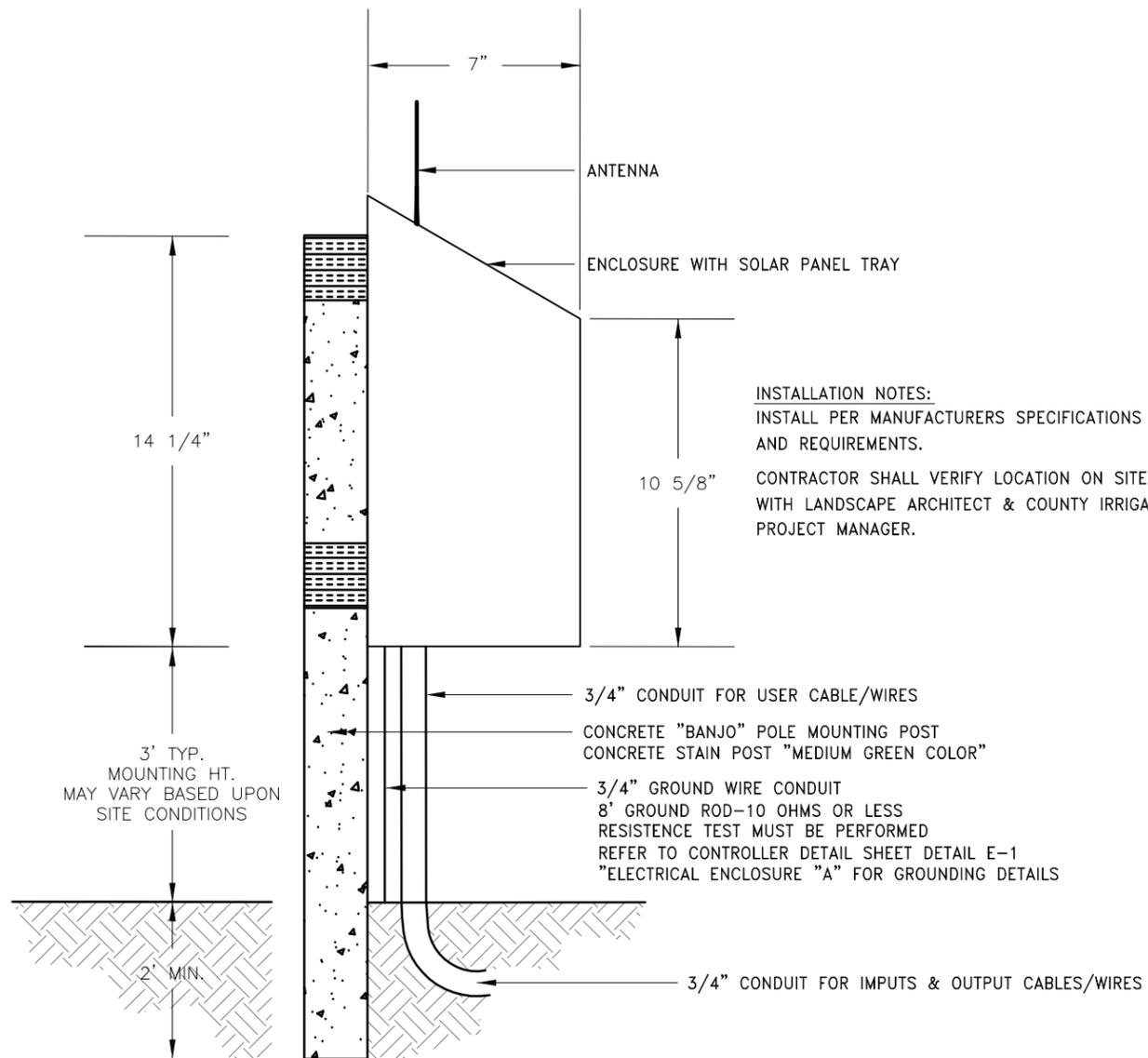
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INSTALLATION DETAILS

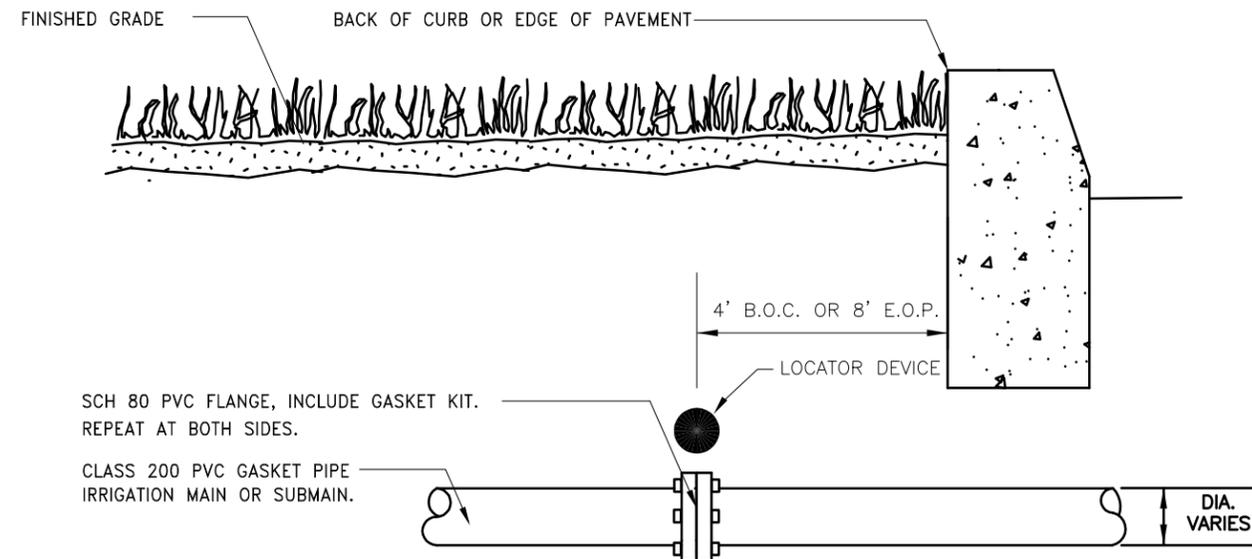
SHEET NO.
 LD-67



RADIO PICCOLO XR CONCRETE POLE MOUNT

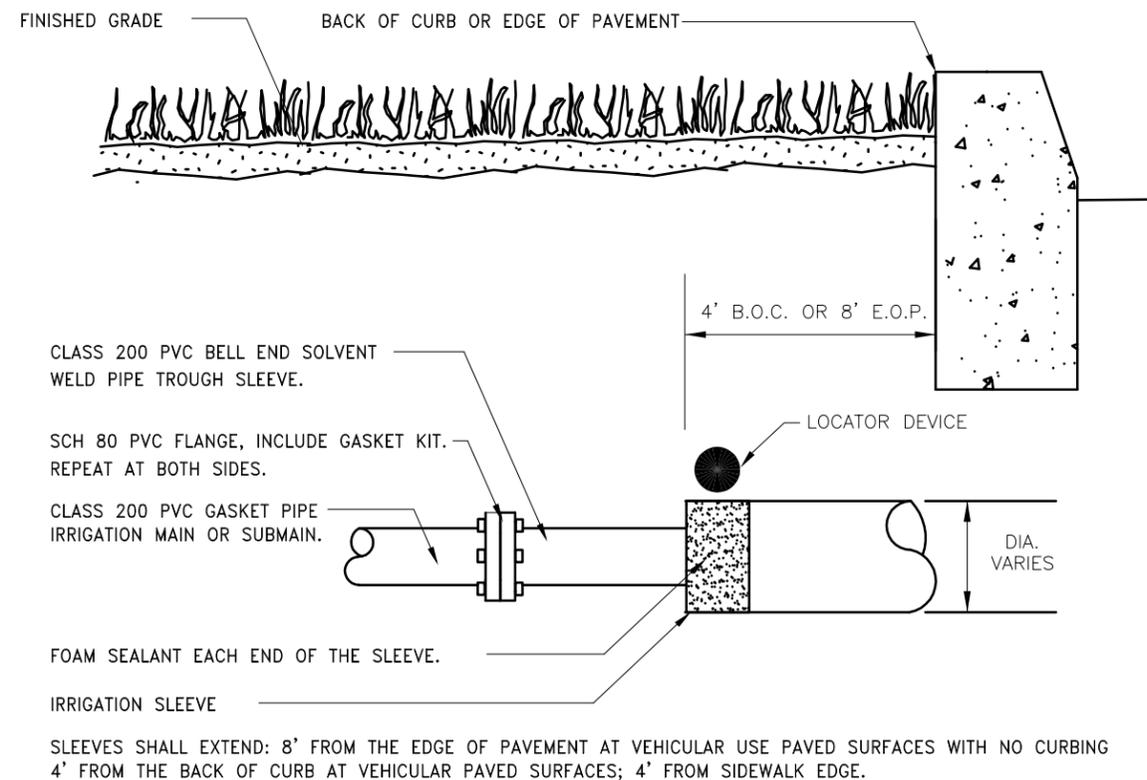
N.T.S.

INSTALLATION NOTES:
 INSTALL PER MANUFACTURERS SPECIFICATIONS AND REQUIREMENTS.
 CONTRACTOR SHALL VERIFY LOCATION ON SITE WITH LANDSCAPE ARCHITECT & COUNTY IRRIGATION PROJECT MANAGER.



**MAINLINE ROADWAY CROSSING
 BY DIRECTIONAL BORE**

N.T.S.



IRRIGATION SLEEVE SEALING DETAIL

N.T.S.

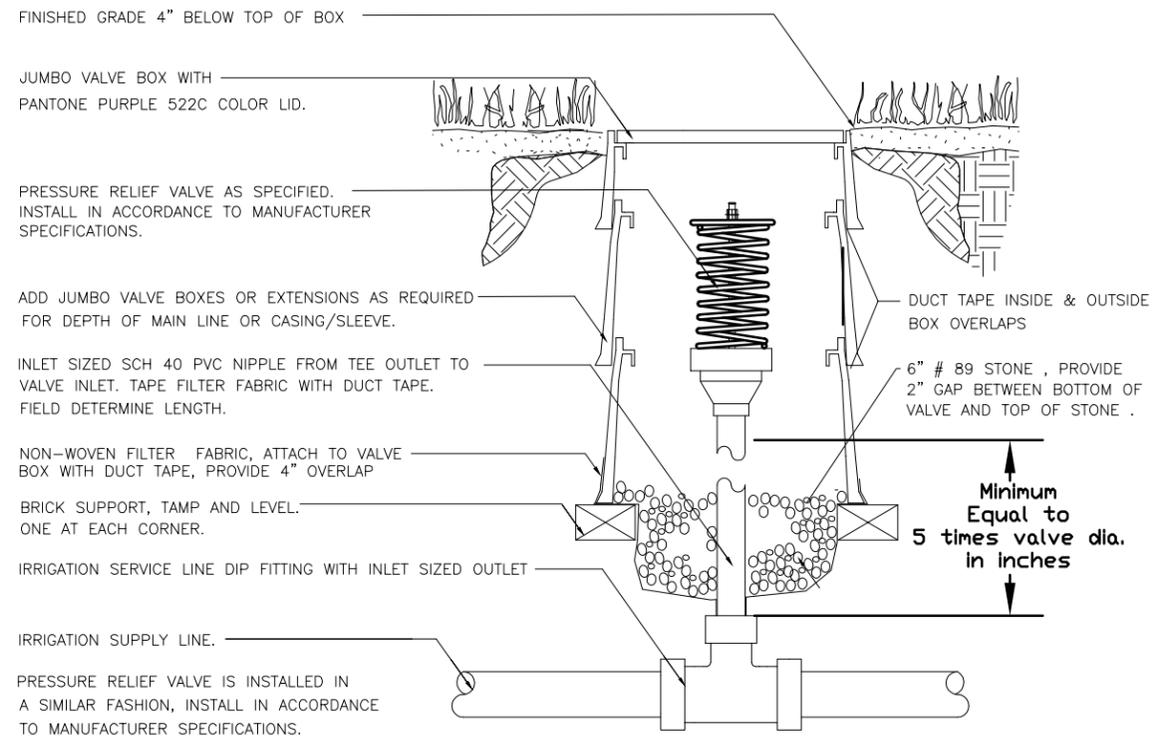
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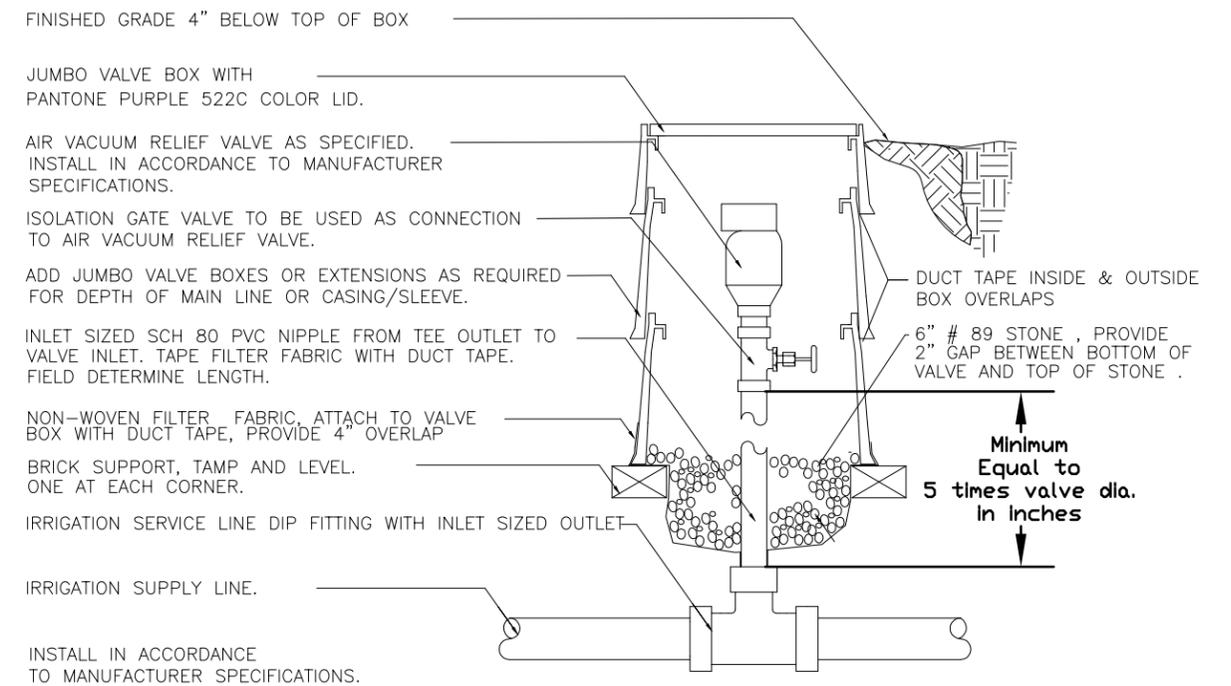
INSTALLATION DETAILS

SHEET NO.
 LD-68



MAIN LINE AIR PRESSURE RELIEF VALVE INSTALLATION DETAIL

N.T.S.



MAIN LINE AIR & VACUUM RELEASE VALVE INSTALLATION DETAIL

N.T.S.

DATE		BY	DESCRIPTION	REVISIONS		DATE	BY	DESCRIPTION

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 Certificate of Authorization LC-C000098 - Michael A. McGee, LA-0000864

COLLIER COUNTY TRANSPORTATION
 CORONADO PKWY. & HUNTER BLVD.
 GOLDEN GATE BEAUTIFICATION, M.S.T.U.

INSTALLATION DETAILS

SHEET NO.
 LD-69

VALVE BOX AS SPECIFIED
 PROVIDE BOX EXTENSIONS AS
 NEEDED IF DEEP TRENCHES OCCUR .

SCH.40 PVC SxT ELL & NIPPLES FROM
 OUTLET TO GRAVEL SUMP.

SCH.40 PVC SxT CONNECTING FITTINGS
 SIZE TO LINE & INLETS - TYPICAL

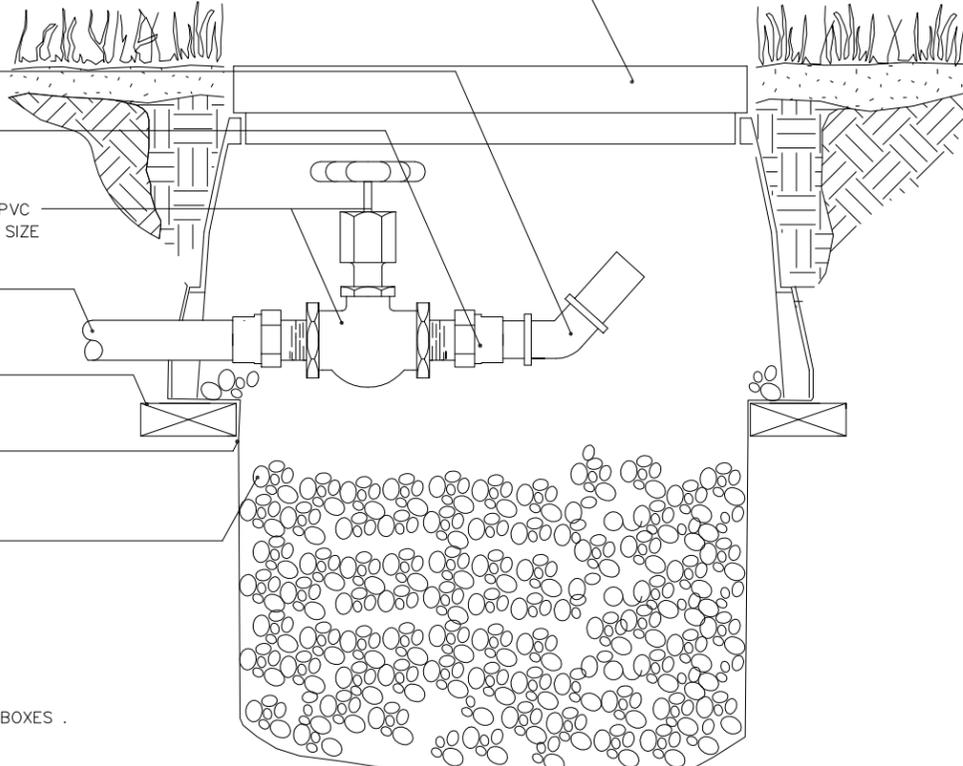
MANUAL GATE VALVE AS SPECIFIED, SCH 80 PVC
 IF AT CLOSE TO SALT WATER - BEACH. LINE SIZE

IRRIGATION SUPPLY LINE , REFER
 TO PLAN FOR LINE SIZE

PAVERS FOR STABILITY AT
 ALL CORNERS - TYPICAL

NON-WOVEN FILTER FABRIC , TAPE
 TO VALVE BOX WITH DUCT TAPE
 PROVIDE A 4" OVERLAP

GRAVEL SUMP WITH 1/2"- 3/4" DIAM.
 24" MIN DEPTH , PROVIDE 4"
 GAP BETWEEN TOP OF GRAVEL
 AND BOTTOM OF ASSEMBLY COMPONENTS



VALVE BOX SIZES :

- ALL GATE VALVES IN JUMBO SIZE VALVE BOXES .

SUBMAIN BLOW OFF INSTALLATION DETAIL

N.T.S.

JUMBO VALVE BOX AS SPECIFIED.

ADD JUMBO VALVE BOXES OR
 EXTENSIONS AS REQUIRED FOR DEPTH
 OF MAIN LINE OR CASING/SLEEVE.
 DUCT TAPE INSIDE & OUTSIDE
 BOX OVERLAPS.

LINE SIZED GATE VALVE WITH FLANGED
 CONNECTIONS. GATE VALVE NOT REQUIRED
 AT CASING/SLEEVE LOCATIONS.

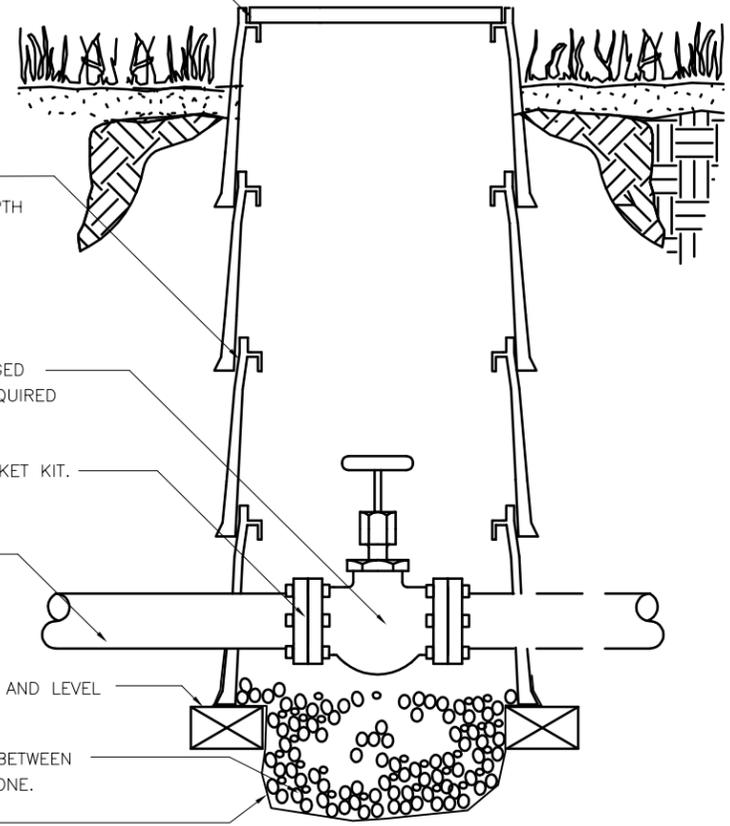
SCH 80 PVC FLANGE, INCLUDE GASKET KIT.

IRRIGATION SUPPLY LINE.

CONTINUOUS BRICK SUPPORT TAMP AND LEVEL
 TAMP AND LEVEL

6" # 89 STONE, PROVIDE 2" GAP BETWEEN
 BOTTOM OF VALVE AND TOP OF STONE.

NON-WOVEN FILTER FABRIC
 ATTACH TO VALVE BOX WITH
 DUCT TAPE , PROVIDE 4" OVERLAP



MAIN LINE ISOLATION VALVE INSTALLATION DETAIL

N.T.S.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

McGee & Associates
 Landscape Architecture
 DESIGN • ENVIRONMENTAL MANAGEMENT • PLANNING
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COLLIER COUNTY TRANSPORTATION
 CORONADO PKWY. & HUNTER BLVD.
 GOLDEN GATE BEAUTIFICATION, M.S.T.U.

INSTALLATION DETAILS

SHEET NO.
 LD-70

Project: CORONADO PARKWAY CASING SCHEDULE

Date: 03/2010, 06/2010

(REFER TO ENGINEERING MEDIAN IMPROVEMENT PLANS FOR CASING INSTALLATIONS. SCHEDULE FOR IRRIGATION INFORMATION PURPOSES ONLY.)

Bore Number	Bore Direction	Approx. Station Number	Bore Location	HDPE 2" Dia. L.F. (+/-)	SCH. 40 2" Dia. L.F. (+/-)	HDPE 3" Dia. L.F. (+/-)	Existing / Proposed	Material Type	Final Measured Length	Bore Use
E,W,N,S			M, R/W				EX / PR	HDPE/PVC		MAIN/LATERAL/ELECTRIC
CORONADO PARKWAY										
1	W-E	1+60 10.5 Rt. to 2+38 .5 Rt.	M	95			PR	HDPE		MAIN
2	W-E	1+60 10.5 Rt. to 2+38 .5 Rt.	M	95			PR	HDPE		LATERAL
3	W-E	1+60 10.5 Rt. to 2+38 .5 Rt.	M		95		PR	SCH 40		FUTURE ELECTRIC
4	W-E	2+60 0 Rt. to 4+04.7 9.3 Rt.	M	115			PR	HDPE		MAIN
5	W-E	2+60 0 Rt. to 4+04.7 9.3 Rt.	M	115			PR	HDPE		LATERAL
6	W-E	2+60 0 Rt. to 4+04.7 9.3 Rt.	M		115		PR	SCH 40		FUTURE ELECTRIC
7	W-E	6+07 2 Rt. to 7+24 8.7 Rt.	M	122			PR	HDPE		MAIN
8	W-E	6+07 2 Rt. to 7+24 8.7 Rt.	M	122			PR	HDPE		LATERAL
9	W-E	6+07 2 Rt. to 7+24 8.7 Rt.	M		122		PR	SCH 40		FUTURE ELECTRIC
10	W-E	7+99.3 2.2 Rt. to 8+99.3 2.2 Rt.	M	100			PR	HDPE		MAIN
11	W-E	7+99.3 2.2 Rt. to 8+99.3 2.2 Rt.	M	100			PR	HDPE		LATERAL
12	W-E	7+99.3 2.2 Rt. to 8+99.3 2.2 Rt.	M		100		PR	SCH 40		FUTURE ELECTRIC
13	W-E	9+76.6 3.1 Lt. to 11+00 6.8 Rt.	M	130			PR	HDPE		MAIN
14	W-E	9+76.6 3.1 Lt. to 11+00 6.8 Rt.	M		130		PR	SCH 40		FUTURE ELECTRIC
15	W-E	22+70.2 3.9 Rt. to 23+77.9 6.7 Rt.	M			111	PR	HDPE		MAIN
16	W-E	22+70.2 3.9 Rt. to 23+77.9 6.7 Rt.	M		111		PR	SCH 40		FUTURE ELECTRIC
17	W-E	26+17.9 3.7 Lt. to 27+31.7 3.8 Lt.	M			118	PR	HDPE		MAIN
18	W-E	26+17.9 3.7 Lt. to 27+31.7 3.8 Lt.	M	118			PR	HDPE		LATERAL
19	W-E	26+17.9 3.7 Lt. to 27+31.7 3.8 Lt.	M		118		PR	SCH 40		FUTURE ELECTRIC
20	N-S	27+31.7 3.8 Lt. to 27+26.7 47.2 Lt.	M-R/W			45	PR	HDPE		MAIN
21	N-S	27+31.7 3.8 Lt. to 27+26.7 47.2 Lt.	M-R/W		45		PR	SCH 40		FUTURE ELECTRIC
22	W-E	30+31.38 0 Lt. to 31+72.9 6.9 Rt.	M			142	PR	HDPE		MAIN
23	W-E	30+31.38 0 Lt. to 31+72.9 6.9 Rt.	M		142		PR	SCH 40		FUTURE ELECTRIC
24	W-E	35+83.9 3.8 Lt. to 37+41.4 6.2 Rt.	M	167			PR	HDPE		MAIN
25	W-E	35+83.9 3.8 Lt. to 37+41.4 6.2 Rt.	M	167			PR	HDPE		LATERAL
26	W-E	35+83.9 3.8 Lt. to 37+41.4 6.2 Rt.	M		167		PR	SCH 40		FUTURE ELECTRIC
27	W-E	38+54.6 5.9 Rt. to 39+66.8 6.1 Rt.	M	120			PR	HDPE		MAIN
28	W-E	38+54.6 5.9 Rt. to 39+66.8 6.1 Rt.	M		120		PR	SCH 40		FUTURE ELECTRIC
29	W-E	43+27.8 2.9 Lt. to 44+56.4 4.9 Rt.	M	138			PR	HDPE		MAIN
30	W-E	43+27.8 2.9 Lt. to 44+56.4 4.9 Rt.	M	138			PR	HDPE		LATERAL
31	W-E	43+27.8 2.9 Lt. to 44+56.4 4.9 Rt.	M	138			PR	HDPE		LATERAL
32	W-E	43+27.8 2.9 Lt. to 44+56.4 4.9 Rt.	M		138		PR	SCH 40		FUTURE ELECTRIC
TOTALS:				1980	1403	416				

LEGEND: E-EAST, W- WEST, N-NORTH, S-SOUTH, EX-EXISTING, PR-PROPOSED, M-MEDIAN, R/W - RIGHT-OF WAY

Project: HUNTER BOULEVARD CASING SCHEDULE

Date: 03/2010, 6/2010

(REFER TO ENGINEERING MEDIAN IMPROVEMENT PLANS FOR CASING INSTALLATIONS. SCHEDULE FOR IRRIGATION INFORMATION PURPOSES ONLY.)

Bore Number	Bore Direction	Approx. Station Number	Bore Location	HDPE 2" Dia. L.F. (+/-)	SCH. 40 2" Dia. L.F. (+/-)	HDPE 3" Dia. L.F. (+/-)	Existing / Proposed	Material Type	Final Measured Length	Bore Use
E,W,N,S			M, R/W				EX / PR	HDPE/PVC		MAIN/LATERAL/ELECTRIC
HUNTER BOULEVARD										
33	W-E	0+66.3 4.2 Rt. to 0+66.3 54.2 Rt.	M-R/W							MAIN
34	W-E	0+66.3 4.2 Rt. to 0+66.3 54.2 Rt.	M-R/W							FUTURE ELECTRIC
35	N-S	2+96.8 6.2 Lt. to 4+04.8 7.7 Lt.	M		118		PR	SCH 40		FUTURE ELECTRIC
36	N-S	2+96.8 6.2 Lt. to 4+04.8 7.7 Lt.	M	118			PR	HDPE		LATERAL
37	N-S	2+96.8 6.2 Lt. to 4+04.8 7.7 Lt.	M		118		PR	HDPE		LATERAL
38	N-S	2+96.8 6.2 Lt. to 4+04.8 7.7 Lt.	M			118	PR	HDPE		MAIN
39	N-S	6+11.2 0.5 Lt. to 7+14.2 3.4 Rt.	M			110	PR	HDPE		MAIN
40	N-S	6+11.2 0.5 Lt. to 7+14.2 3.4 Rt.	M	110			PR	HDPE		LATERAL
41	N-S	6+11.2 0.5 Lt. to 7+14.2 3.4 Rt.	M	110			PR	HDPE		LATERAL
42	N-S	6+11.2 0.5 Lt. to 7+14.2 3.4 Rt.	M		110		PR	SCH 40		FUTURE ELECTRIC
43	N-S	10+94.9 4.8 Lt. to 12+21.6 5.2 Lt.	M			127	PR	HDPE		MAIN
44	N-S	10+94.9 4.8 Lt. to 12+21.6 5.2 Lt.	M	127			PR	HDPE		LATERAL
45	N-S	10+94.9 4.8 Lt. to 12+21.6 5.2 Lt.	M	127			PR	HDPE		LATERAL
46	N-S	10+94.9 4.8 Lt. to 12+21.6 5.2 Lt.	M		127		PR	SCH 40		FUTURE ELECTRIC
47	N-S	14+32.5 7.7 Lt. to 15+51.6 6.7 Lt.	M			122	PR	HDPE		MAIN
48	N-S	14+32.5 7.7 Lt. to 15+51.6 6.7 Lt.	M		122		PR	SCH 40		FUTURE ELECTRIC
49	W-E	15+93 3.4 Rt. to 15+93 198.4 Rt.	M-R/W		195		PR	SCH 40		FUTURE ELECTRIC
50	N-S	16+62.6 5.5 Lt. to 17+72.5 2.2 Rt.	M			112	PR	HDPE		MAIN
51	N-S	16+62.6 5.5 Lt. to 17+72.5 2.2 Rt.	M	112			PR	HDPE		LATERAL
52	N-S	16+62.6 5.5 Lt. to 17+72.5 2.2 Rt.	M		112		PR	SCH 40		FUTURE ELECTRIC
53	N-S	27+23.6 3.6 Lt. to 28+26.9 0.6 Rt.	M			106	PR	HDPE		MAIN
54	N-S	27+23.6 3.6 Lt. to 28+26.9 0.6 Rt.	M	106			PR	HDPE		LATERAL
55	N-S	27+23.6 3.6 Lt. to 28+26.9 0.6 Rt.	M		106		PR	SCH 40		FUTURE ELECTRIC
56	N-S	30+24.7 4.1 Lt. to 31+41.5 4.1 Rt.	M			126	PR	HDPE		MAIN
57	N-S	30+24.7 4.1 Lt. to 31+41.5 4.1 Rt.	M	126			PR	HDPE		LATERAL
58	N-S	30+24.7 4.1 Lt. to 31+41.5 4.1 Rt.	M	126			PR	HDPE		LATERAL
59	N-S	30+24.7 4.1 Lt. to 31+41.5 4.1 Rt.	M		126		PR	SCH 40		FUTURE ELECTRIC
60	N-S	41+02 6.8 Lt. to 42+11.7 2.7 Lt.	M			114	PR	HDPE		MAIN
61	N-S	41+02 6.8 Lt. to 42+11.7 2.7 Lt.	M		114		PR	SCH 40		FUTURE ELECTRIC
62	N-S	44+78 5.3 Lt. to 45+92.7 4.8 Rt.	M	121			PR	HDPE		MAIN
63	N-S	44+78 5.3 Lt. to 45+92.7 4.8 Rt.	M	121			PR	HDPE		LATERAL
64	N-S	44+78 5.3 Lt. to 45+92.7 4.8 Rt.	M	121			PR	HDPE		LATERAL
65	N-S	44+78 5.3 Lt. to 45+92.7 4.8 Rt.	M		121		PR	SCH 40		FUTURE ELECTRIC
66	N-S	48+90.5 4.8 Lt. to 49+05 1.6 Lt.	M	120			PR	HDPE		MAIN
67	N-S	48+90.5 4.8 Lt. to 49+05 1.6 Lt.	M	120			PR	HDPE		LATERAL
68	N-S	48+90.5 4.8 Lt. to 49+05 1.6 Lt.	M	120			PR	HDPE		LATERAL
69	N-S	48+90.5 4.8 Lt. to 49+05 1.6 Lt.	M		120		PR	SCH 40		FUTURE ELECTRIC
70	N-S	49+51.6 0.0 Lt. to 50+63 5.4 Lt.	M	118			PR	HDPE		MAIN
71	N-S	49+51.6 0.0 Lt. to 50+63 5.4 Lt.	M	118			PR	HDPE		LATERAL
72	N-S	49+51.6 0.0 Lt. to 50+63 5.4 Lt.	M		118		PR	SCH 40		FUTURE ELECTRIC
TOTALS:				2139	1539	985				

LEGEND: E-EAST, W- WEST, N-NORTH, S-SOUTH, EX-EXISTING, PR-PROPOSED, M-MEDIAN, R/W - RIGHT-OF WAY

(REFER TO ENGINEERING MEDIAN IMPROVEMENT PLANS FOR CASING INSTALLATIONS. SCHEDULE FOR IRRIGATION INFORMATION PURPOSES ONLY.)

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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COLLIER COUNTY TRANSPORTATION
 CORONADO PKWY. & HUNTER BLVD.
 GOLDEN GATE BEAUTIFICATION, M.S.T.U.

SLEEVE SCHEDULE

SHEET NO.
 LD-71

IRRIGATION CONTROLLER SCHEDULE - CORONADO PARKWAY

RECOMMENDED OPERATING SCHEDULE AND WATER USE

ESTIMATED PLANT ESTABLISHMENT DEMAND

ESTIMATED ESTABLISHED PLANT DEMAND

VALVE No.	VALVE LOCATION	STATION No.	ZONE TYPE	VALVE GPM	APPLIED IN/HR.	PLANT TYPE	IRRINET PROGRAM	START TIME HOURS	RUN TIME MINUTES	END TIME HOURS	GALLONS PER RUN	DAYS PER WEEK	TOTAL GALLONS	IRRINET PROGRAM	START TIME HOURS	RUN TIME MINUTES	END TIME HOURS	GALLONS PER RUN	DAYS PER WEEK	TOTAL GALLONS			
P1-01	Median 10	59' W. of E. Med. End	9+32	SPRAY	45	0.89	SS/HP	1	12:00 AM	0:20	12:20 AM	900	3	2700	1	12:00 AM	0:20	12:20 AM	900	1	900		
P1-02	Median 10	59' W. of E. Med. End	9+32	BUBBLER	15	N/A	TP	2	12:20 AM	0:25	12:45 AM	375	3	1125	2	12:20 AM	0:10	12:30 AM	150	1	150		
P2-03	Median 9	574' W. of E. Med. End	17+15	SPRAY	38	1.1	OG	3	12:45 AM	0:18	1:03 AM	684	3	2052	3	12:30 AM	0:15	12:45 AM	570	1	570		
P2-04	Median 9	574' W. of E. Med. End	17+15	SPRAY	42	1.1	WS	4	1:03 AM	0:18	1:21 AM	756	3	2268	3	12:45 AM	0:15	1:00 AM	630	1	630		
P3-05	Median 9	574' W. of E. Med. End	17+15	BUBBLER	65	N/A	TP	2	1:21 AM	0:25	1:46 AM	1625	3	4875	2	1:00 AM	0:25	1:25 AM	1625	1	1625		
P2-06	Median 9	574' W. of E. Med. End	17+15	SPRAY	36	0.89	WS	5	1:46 AM	0:20	2:06 AM	720	3	2160	1	1:25 AM	0:15	1:40 AM	540	1	540		
P2-07	Median 9	574' W. of E. Med. End	17+15	SPRAY	35	0.89	HP	1	2:06 AM	0:20	2:26 AM	700	3	2100	1	1:40 AM	0:15	1:55 AM	525	0	0		
P4-08	Median 7	212' W. of E. Med. End	28+36	SPRAY	12	0.89	PS/EP	5	2:26 AM	0:20	2:46 AM	240	3	720	1	1:55 AM	0:15	2:10 AM	180	0	0		
P4-09	Median 7	212' W. of E. Med. End	28+36	BUBBLER	21	N/A	TP	2	2:46 AM	0:25	3:11 AM	525	3	1575	2	2:10 AM	0:25	2:35 AM	525	1	525		
P4-10	Median 7	212' W. of E. Med. End	28+36	SPRAY	28	1.1	HP	4	3:11 AM	0:18	3:29 AM	504	3	1512	3	2:35 AM	0:15	2:50 AM	420	0	0		
P4-11	Median 7	212' W. of E. Med. End	28+36	SPRAY	12	1.1	WS	4	3:29 AM	0:18	3:47 AM	216	3	648	3	2:50 AM	0:15	3:05 AM	180	1	180		
P5-12	Median 6	188' W. of E. Med. End	34+12	SPRAY	35	0.89	HP	1	3:47 AM	0:20	4:07 AM	700	3	2100	1	3:05 AM	0:15	3:20 AM	525	0	0		
P5-13	Median 6	188' W. of E. Med. End	34+12	BUBBLER	10	N/A	TP	2	4:07 AM	0:25	4:32 AM	250	3	750	2	3:20 AM	0:25	3:45 AM	250	1	250		
P6-14	Median 3	24' E. of W. Med. End	44+60	BUBBLER	15	N/A	TP	2	4:32 AM	0:25	4:57 AM	375	3	1125	2	3:45 AM	0:25	4:10 AM	375	1	375		
P6-15	Median 3	24' E. of W. Med. End	44+60	SPRAY	36	0.89	SS/HP	5	4:57 AM	0:20	5:17 AM	720	3	2160	1	4:10 AM	0:15	4:25 AM	540	0	0		
TOTALS:											9290	27870										7935	5745

IRRIGATION APPLICATION DATA

PLANT TYPES: TP-TREES/PALMS, WS-WOODY SHRUBS, SS-SUCCULENT SHRUBS, HP- HERBACEOUS PERENIAL, OG- ORNAMENTAL GRASSES, EP-EVERGREEN PERENIAL, PS-PALMAE SHRUB

ACREAGE TO IRRIGATE: .81 +/- ac., (1 ARCE INCH OF WATER EQUALS 27,154.29 GALLONS +/-), DESIGN MAXIMUM FLOW: 150 GPM @ 60 PSI

IRRIGATION SOURCE: 8" WELL WITH 10 HP PUMP STATION, IRRIGATION CONTROL: COLLIER COUNTY MOTOROLA CENTROL MASTER CONTROL SYSTEM

120 DAY ESTABLISHMENT WEEKLY APPLICATION RATE: .90 TO 1 INCH PER WEEK (+/-)

ESTABLISHMENT ESTIMATED WATER USE: (1 INCH +/-PER WEEK) 27,870 GAL. X 37 WEEKS = 1,031,190.00 GALLONS PER YEAR

ESTABLISHED WEEKLY SUPPLEMENTAL APPLICATION RATE: 1/2 INCH (+/-) PER WEEK FOR ESTIMATED 37 WEEKS PER YEAR

ESTABLISHED CROP ANNUAL ESTIMATED WATER USE: 5,745 GAL. X 37 WEEKS = 212,565.00 GALLONS PER YEAR

IRRIGATION SYSTEM OPERATION RECOMMENDTIONS

PLANT MATERIALS SUCH AS CROWN OF THORN, COONTIE, SPIDER LILY, SAW PALMETTO, DWARF BOUGAINVILLEA, CABBAGE PALMS,

PAUROTIS PALMS & LIVE OAKS AFTER ONE YEAR ESTABLISHMENT PERIOD SHOULD REQUIRE NO ADDITIONAL IRRIGATION, EXCEPT IN EXTREME DROUGHT.

IRRIGATION ZONES AND EVEN SPECIFIC SPRINKLER HEADS MAY NEED TO BE CLOSED DOWN IN ORDER TO PROVIDE NO IRRIGATION WATER TO ESTABLISHED PLANT MATERIALS LISTED ABOVE.

REVISIONS					
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COLLIER COUNTY TRANSPORTATION
 CORONADO PKWY. & HUNTER BLVD.
 GOLDEN GATE BEAUTIFICATION, M.S.T.U.

OPERATING SCHEDULE

SHEET NO.
 LD-72

IRRIGATION CONTROLLER SCHEDULE - HUNTER BLVD.

RECOMMENDED OPERATING SCHEDULE AND WATER USE

ESTIMATED PLANT ESTABLISHMENT DEMAND

ESTIMATED ESTABLISHED PLANT DEMAND

VALVE No.	VALVE LOCATION		STATION No.	ZONE TYPE	VALVE GPM	APPLIED IN/HR.	PLANT TYPE	IRRINET PROGRAM	START TIME HOURS	RUN TIME MINUTES	END TIME HOURS	GALLONS PER RUN	DAYS PER WEEK	TOTAL GALLONS	IRRINET PROGRAM	START TIME HOURS	RUN TIME MINUTES	END TIME HOURS	GALLONS PER RUN	DAYS PER WEEK	TOTAL GALLONS										
P7-01	Median 3	282' N. of S. Med. End	9+81	BUBBLER	24	N/A	TP	2	12:00 AM	0:25	12:25 AM	600	3	1800	2	12:00 AM	0:20	12:20 AM	480	1	480										
P7-02	Median 3	282' N. of S. Med. End	9+81	SPRAY	86	0.89	HP	3	12:25 AM	0:25	12:50 AM	2150	3	6450	3	12:20 AM	0:10	12:30 AM	860	0	0										
P8-03	Median 5	47' N. of S. Med. End	15+78	SPRAY	27	0.89	WS/PS/HP	4	12:50 AM	0:20	1:10 AM	540	3	1620	4	12:30 AM	0:15	12:45 AM	405	0	0										
P8-04	Median 5	82' N. of S. Med. End	16+13	FLUSH	10	N/A	N/A	1	1:10 AM	0:10	1:20 AM	100	3	300	1	12:45 AM	0:15	1:00 AM	150	2	300										
P9-05	Median 6	1776' N. of S. Med. End	22+92	SPRAY	50	1.1	WS	4	1:20 AM	0:20	1:40 AM	1000	3	3000	4	1:00 AM	0:25	1:25 AM	1250	1	1250										
P9-06	Median 6	1776' N. of S. Med. End	22+92	SPRAY	50	1.1	OG	5	1:40 AM	0:18	1:58 AM	900	3	2700	5	1:25 AM	0:15	1:40 AM	750	1	750										
P10-07	Median 6	1776' N. of S. Med. End	22+92	BUBBLER	67	N/A	TP	2	1:58 AM	0:25	2:23 AM	1675	3	5025	2	1:40 AM	0:15	1:55 AM	1005	1	1005										
P9-08	Median 6	1776' N. of S. Med. End	22+92	SPRAY	50	1.1	OG	5	2:23 AM	0:18	2:41 AM	900	3	2700	5	1:55 AM	0:15	2:10 AM	750	0	0										
P9-09	Median 6	1776' N. of S. Med. End	22+92	SPRAY	21	0.89	WS/PS	4	2:41 AM	0:20	3:01 AM	420	3	1260	4	2:10 AM	0:25	2:35 AM	525	0	0										
P11-10	Median 8	1146' W. of E. Med. End	35+31	SPRAY	12	0.89	WS/PS	4	3:01 AM	0:20	3:21 AM	240	3	720	4	2:35 AM	0:15	2:50 AM	180	0	0										
P11-11	Median 8	1146' W. of E. Med. End	35+31	SPRAY	72	0.89	HP	6	3:21 AM	0:18	3:39 AM	1296	3	3888	6	2:50 AM	0:15	3:05 AM	1080	0	0										
P12-12	Median 8	1146' W. of E. Med. End	35+31	BUBBLER	46	N/A	TP	2	3:39 AM	0:25	4:04 AM	1150	3	3450	2	3:05 AM	0:15	3:20 AM	690	1	690										
P11-13	Median 8	1146' W. of E. Med. End	35+31	SPRAY	23	1.1	WS	4	4:04 AM	0:20	4:24 AM	460	3	1380	4	3:20 AM	0:25	3:45 AM	575	1	575										
P11-14	Median 8	1146' W. of E. Med. End	35+31	SPRAY	29	1.1	OG	5	4:24 AM	0:18	4:42 AM	522	3	1566	5	3:45 AM	0:25	4:10 AM	725	1	725										
P13-15	Median 9	71' W. of E. Med. End	42+65	BUBBLER	15	N/A	TP	2	4:42 AM	0:25	5:07 AM	375	3	1125	2	4:10 AM	0:15	4:25 AM	225	1	225										
P13-16	Median 9	71' W. of E. Med. End	42+65	SPRAY	51	0.89	HP	6	5:07 AM	0:20	5:27 AM	1020	3	3060	6	4:25 AM	0:15	4:40 AM	765	0	0										
TOTALS:															13348							40044								10415	6000

IRRIGATION APPLICATION DATA

PLANT TYPES: TP-TREES/PALMS, WS-WOODY SHRUBS, SS-SUCCULENT SHRUBS, HP- HERBACEOUS PERENIAL, OG- ORNAMENTAL GRASSES, EP-EVERGREEN PERENIAL, PS-PALMAE SHRUB

ACREAGE TO IRRIGATE: 1.02 +/- ac., (1 ARCE INCH OF WATER EQUALS 27,154.29 GALLONS +/-), DESIGN MAXIMUM FLOW: 150 GPM @ 60 PSI

IRRIGATION SOURCE: 8" WELL WITH 10 HP PUMP STATION, IRRIGATION CONTROL: COLLIER COUNTY MOTOROLA CENTROL MASTER CONTROL SYSTEM

120 DAY ESTABLISHMENT WEEKLY APPLICATION RATE: .90 TO 1 INCH PER WEEK (+/-)

ESTABLISHMENT ESTIMATED WATER USE: (1 INCH +/-PER WEEK) 40,044 GAL. X 37 WEEKS = 1,481,628.00 GALLONS PER YEAR

ESTABLISHED WEEKLY SUPPLEMENTAL APPLICATION RATE: 1/2 INCH (+/-) PER WEEK FOR ESTIMATED 37 WEEKS PER YEAR

ESTABLISHED CROP ANNUAL ESTIMATED WATER USE: 6,000 GAL. X 37 WEEKS = 222,000.00 GALLONS PER YEAR

IRRIGATION SYSTEM OPERATION RECOMMENDTIONS

PLANT MATERIALS SUCH AS CROWN OF THORN, COONTIE, SPIDER LILY, SAW PALMETTO, DWARF BOUGAINVILLEA, CABBAGE PALMS,

PAUROTIS PALMS & LIVE OAKS AFTER ONE YEAR ESTABLISHMENT PERIOD SHOULD REQUIRE NO ADDITIONAL IRRIGATION, EXCEPT IN EXTREME DROUGHT.

IRRIGATION ZONES AND EVEN SPECIFIC SPRINKLER HEADS MAY NEED TO BE CLOSED DOWN IN ORDER TO PROVIDE NO IRRIGATION WATER TO ESTABLISHED PLANT MATERIALS LISTED ABOVE.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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COLLIER COUNTY TRANSPORTATION
 CORONADO PKWY. & HUNTER BLVD.
 GOLDEN GATE BEAUTIFICATION, M.S.T.U.

OPERATING SCHEDULE

SHEET NO.
 LD-73