

IRRIGATION PLAN

LANDSCAPE CONSTRUCTION NOTE :

(P) TREE PROTECT IN PLACE.

IRRIGATION CONSTRUCTION NOTE :

- 1. REMOVE EXISTING IRR WATER VALVES, SERVICE LINES (ABONDON), METER, BOXES (RECTANGULAR OR CIRCULAR), AND ETC. AS REQUIRED.
- 2. INSTALL NEW 1.5"Ø BRONZE GATE VALVE AND NEW CONCRETE BOX.
- 3. INSTALL CALSENSE FLOW METER 1.5" SIZE. AND INSTALL NEW BOX PER DETAIL 1 ON SHEET No. 22.
- 4. INSTALL NEW 1.5"Ø WATER SERVICE, METER AND NEW METER BOX, PER CITY STD PLAN No. B-722. & RETURN ALL OLD PARTS TO CITY YARD.
- 5. HOT TAP NEW SERVICE TO EX. WATER MAIN PER CITY STD PLAN No. B-722. CONTACT WATER INSPECTION A MINIMUM OF 2 WORKING DAYS IN ADVANCE PRIOR TO HOT TAP.

- 6. SAWCUT & REMOVE EXISTING CONCRETE SIDEWALK AND INSTALL NEW ARTERIAL SIDEWALK PER CITY'S STD PLAN No. B-106.
- 7. PROTECT IN PLACE.
- 8. INSTALL NEW 1.5"Ø RPPD PER CITY STD PLAN No. B-770, AND CAGE PER B-774.
- 9. INSTALL NEW CALSENSE CONTROLLER, CABINET AND NEW FOUNDATION PER DETAIL 2 ON SHEET No. 22.
- 10. INSTALL NEW MASTER SHUTOFF VALVE WITH NEW BOX PER CITY STD PLAN No. B-718. (COVER SHALL SAY IRR MASTER SHUTOFF)
- 11. REMOVE EXISTING PEDESTAL INCLUDING FOUNDATION AND BACKFILL VOID WITH DIRT.
- 12. INSTALL 24" DEEP ROOT BARRIER AROUND INSIDE OF MEDIAN, TYPICAL (NOTE NOT SHOWN ON PLANS).

IRRIGATION NOTES:

- 1. IRRIGATION WIRES MUST BE IN GRAY ELECTRICAL PVC CONDUIT, BURIED 36" BELOW PAVEMENT AREA OR 24" BELOW SOFTSCAPE AREA.
- 2. WIRE SIZES FOR THE SOLAR UNIT SHALL BE 12 GAUGE WIRE L= 2400 FEET., 14 AWG-1.500' MAX. RUN.
- 3. THE COMMON WIRE SHALL BE WHITE AND THE STATION WIRES MUST BE BLACK. THERE SHALL BE NO SPLICING MADE INSIDE THE CONDUIT. SWEEPS WILL PASS WIRE UP INTO THE CONTROLLER, VALVE BOX, & PULL BOX. PULL BOXES MUST BE USED EVERY 150 FT. MIN. ALL WIRE SPLICES SHALL BE MADE USING SPEARS DS400 DRY SPLICES.
- 4. CONTRACTOR SHALL INSTALL FIRST DRIP LINE 4" FROM CONCRETE, THEN SPACE DRIP LINE MAX. 18". CONTRACTOR TO MAKE ADJUSTMENTS IN FIELD FOR EVEN SPACING. INSTALL PER MANUFACTURER SPECIFICATIONS.
- 5. CONTRACTOR SHALL INSTALL DRIP LINE 4" BELOW SOIL SURFACE.
- 6. CONTRACTOR SHALL STAGGER EMITTER WHEN INSTALLING DRIP LINE.
- 7. ALL PIPE LEADING INTO AND AWAY FROM THE BACKFLOW SHALL BE PVC SCH 80.

NOTES TO CONTRACTOR :

BEFORE INSTALLING IRRIGATION SYSTEM, CONTRACTOR SHALL SPRAY ROUND OFF PROMAX BY MONSANTO AT A CONCENTRATION OF 2 OZ. PER GALLON TO KILL GRASS. TWO WEEKS AFTER, CONTRACTOR SHALL INSPECT FOR ANY GRASS REGROWTH. IF ANY, CONTRACTOR SHALL SPRAY AGAIN WITH PROMAX. TWO WEEKS AFTER, CONTRACTOR SHALL REMOVE DEAD SOD & START IRRIGATION WORK.

ABANDON EXISTING WATER SERVICES AT WATER MAIN. RETURN EXISTING WATER METER, CONTROLLER, BACKFLOW DEVICES, CAGE, IRON COVER, COPPER PIPES AND FITTINGS TO CITY YARD.

"IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN CALSENSE CONTROLLER INSTALLATION CERTIFICATION AND SUBMIT TO THE CITY. PLEASE CALL 714-553-3681 TO SCHEDULE AN INSTALLATION REVIEW."

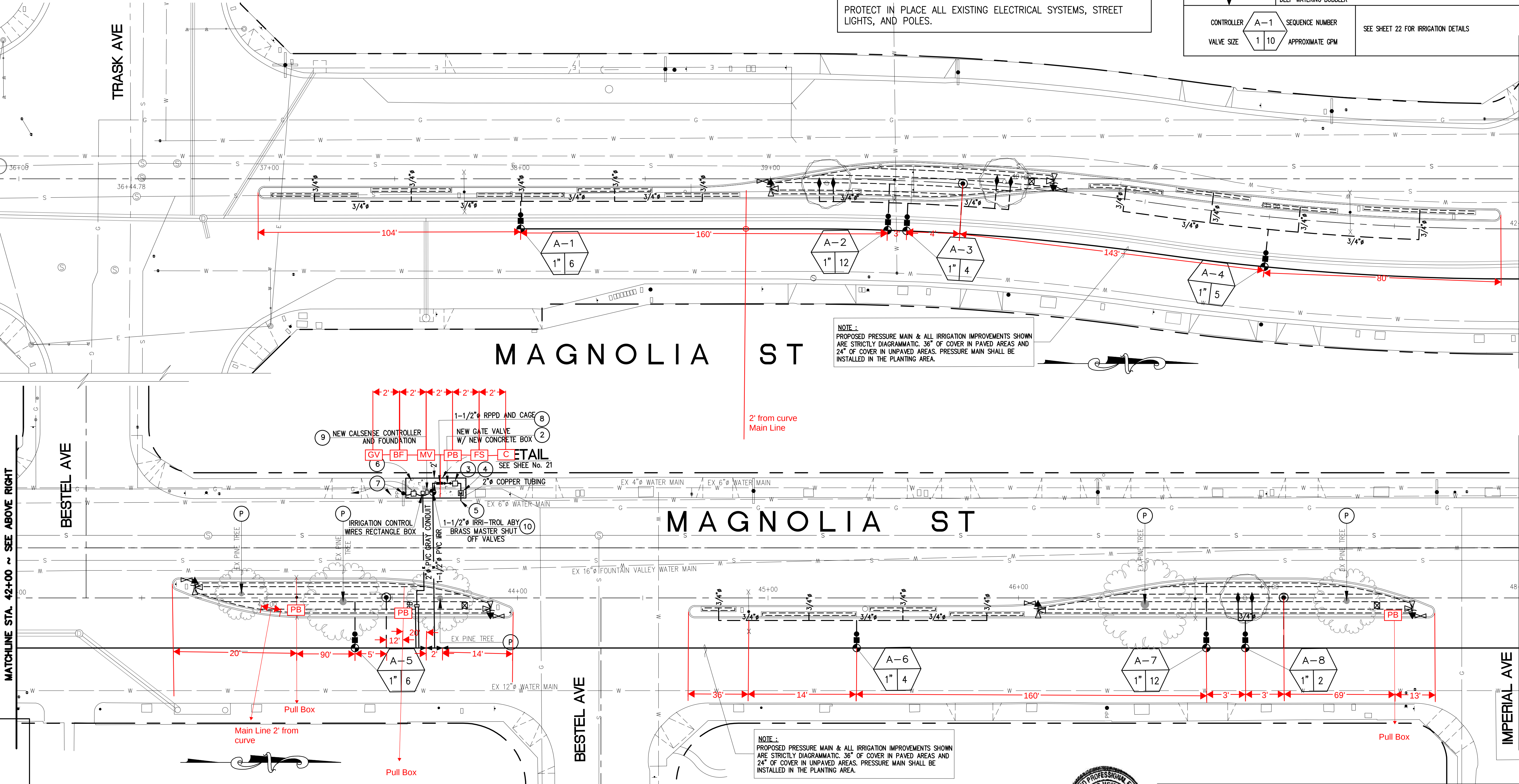
CONTRACTOR SHALL REMOVE EXISTING REMOTE CONTROL VALVE AND RETURN TO CITY YARD.

PROTECT IN PLACE ALL EXISTING ELECTRICAL SYSTEMS, STREET LIGHTS, AND POLES.

LEGEND

SYMBOL	MODEL	PSI
	TORO DL 2000 RGP-418-XX	40
	3/4" RAINBIRD QUICK COUPLER WITH LOCKING COVER	40
	TORO YD-500-34 AIR/VACUUM RELIEF VALVE (HI PT SYS)	
	TORO FCH-H FLUSH VALVE	
	TORO FILTER (150 MESH) OR 1-ALPS 75150-L	
	TORO PMR40 -MF PRESSURE REGULATOR	
	REDUCED PRESSURE PRINCIPLE DEVICE AND CAGE	
	SUPERIOR 950 ELECTRIC REMOTE CONTROL VALVE, W/LEMA 1600HC SOLENOID W/ VALVE ADAPTERS MODEL # 30-925	
	TORO DL-MP9 OPERATION INDICATOR	
	NIBCO T-580 BALL VALVE, (LINE SIZE)	
	SCHEDULE 40 PVC (NON-PRESSURE) LATERAL LINE PIPING INSTALL 12" DEEP MIN.	
	1-1/2" SCH. 80 PVC (PRESSURE) MAIN LINE PIPING & 2" PVC GRAY ELECTRICAL LINE	
	CALSENSE CONTROLLER	
	WATER METER	
	DEEP WATERING BUBBLER	

CONTROLLER	A-1	SEQUENCE NUMBER	
VALVE SIZE	1	APPROXIMATE GPM	10
SEE SHEET 22 FOR IRRIGATION DETAILS			

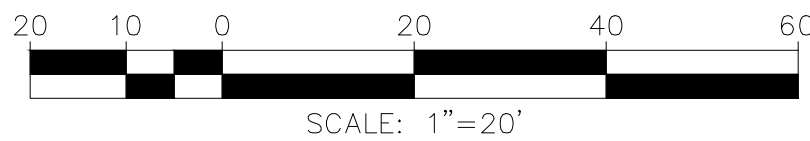


NOTE: PROPOSED PRESSURE MAIN & ALL IRRIGATION IMPROVEMENTS SHOWN ARE STRICTLY DIAGRAMMATIC. 36" OF COVER IN PAVED AREAS AND 24" OF COVER IN UNPAVED AREAS. PRESSURE MAIN SHALL BE INSTALLED IN THE PLANTING AREA.

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Know what's below.
Call before you dig.



MAGNOLIA STREET REHABILITATION PROJECT

MAGNOLIA STREET
TRASK AVE. TO STA 48+00
IRRIGATION PLAN

DRAWING NUMBER
A-1875
SHEET 18 OF 29

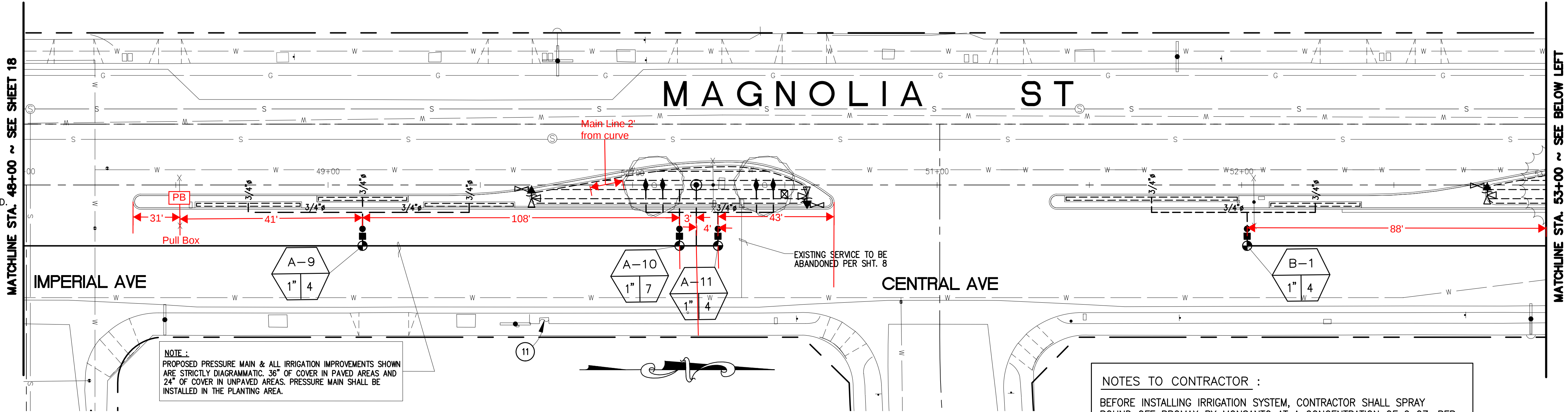
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- 7. PROTECT IN PLACE.
- 8. INSTALL NEW 1.5"Ø RPPD PER CITY STD PLAN No. B-770, AND CAGE PER B-774.
- 9. INSTALL NEW CALSENSE CONTROLLER, CABINET AND NEW FOUNDATION PER DETAIL 2 ON SHEET No. 22.
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- 12. INSTALL 24" DEEP ROOT BARRIER AROUND INSIDE OF MEDIAN, TYPICAL (NOTE NOT SHOWN ON PLANS).



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LEGEND		
SYMBOL	MODEL	PSI
---	TORO DL 2000 ROP-418-XX	40
⊙	3/4" RAINBIRD QUICK COUPLER WITH LOCKING COVER	40
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⊘	TORO FCH-H FLUSH VALVE	
•	TORO FILTER (150 MESH) OR T-ALPS 75150-1	
■	TORO PMR40 -MF PRESSURE REGULATOR	
⊞	REDUCED PRESSURE PRINCIPLE DEVICE AND CAGE	
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⊞	CONTROLLER A-1	SEQUENCE NUMBER
⊞	VALVE SIZE 1 10	APPROXIMATE GPM
SEE SHEET 22 FOR IRRIGATION DETAILS		

NOTES TO CONTRACTOR :

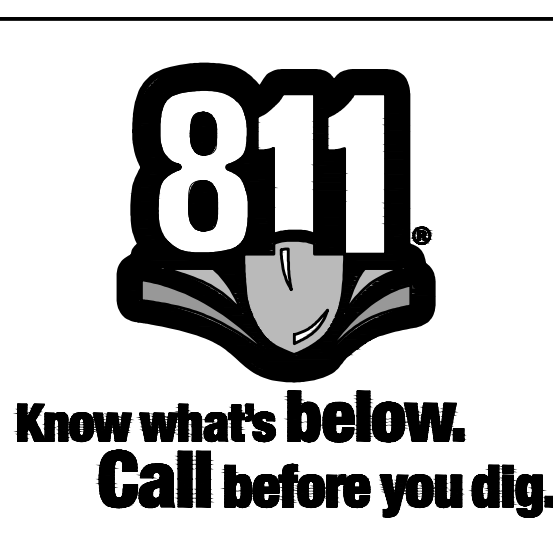
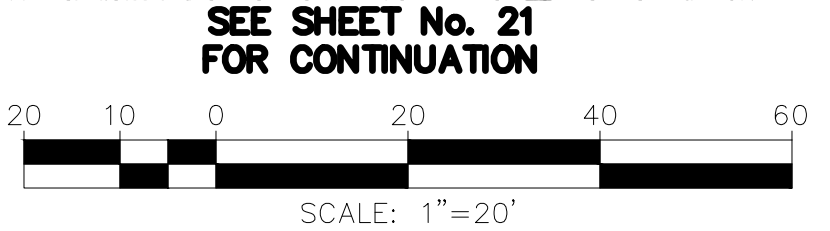
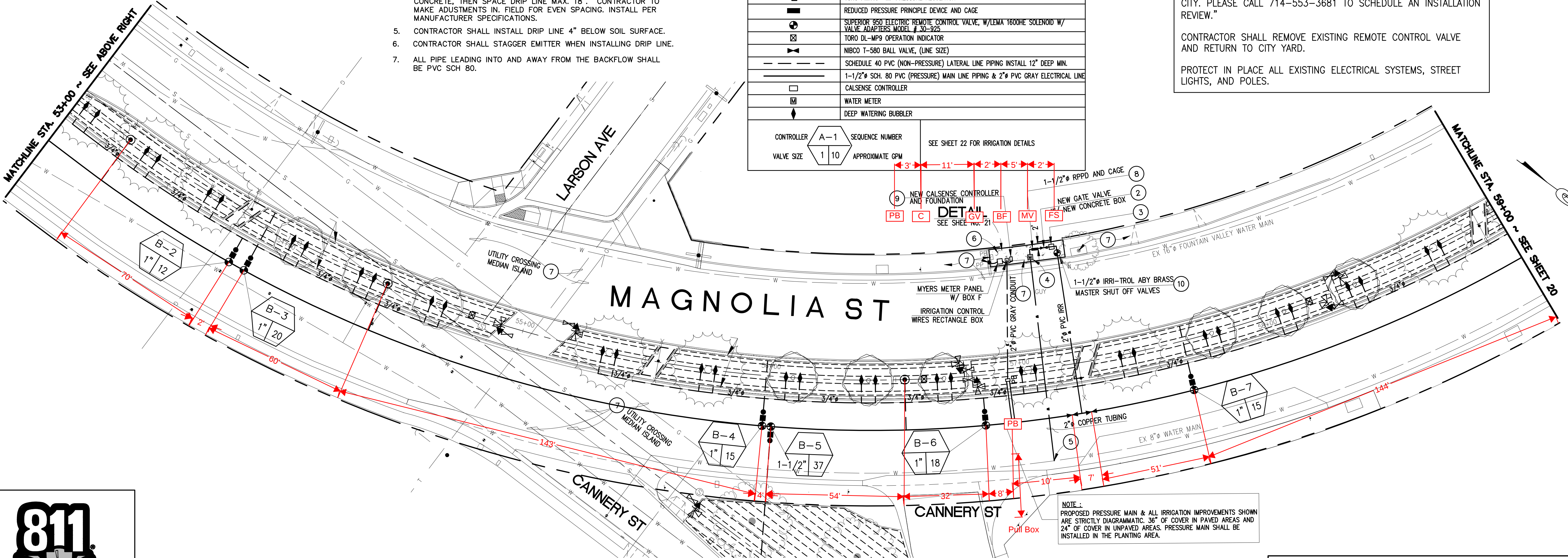
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MAGNOLIA STREET REHABILITATION PROJECT		
MAGNOLIA STREET FROM STA 48+00 TO STA 59+00 IRRIGATION PLAN		DRAWING NUMBER A-1875
		SHEET 19 OF 29

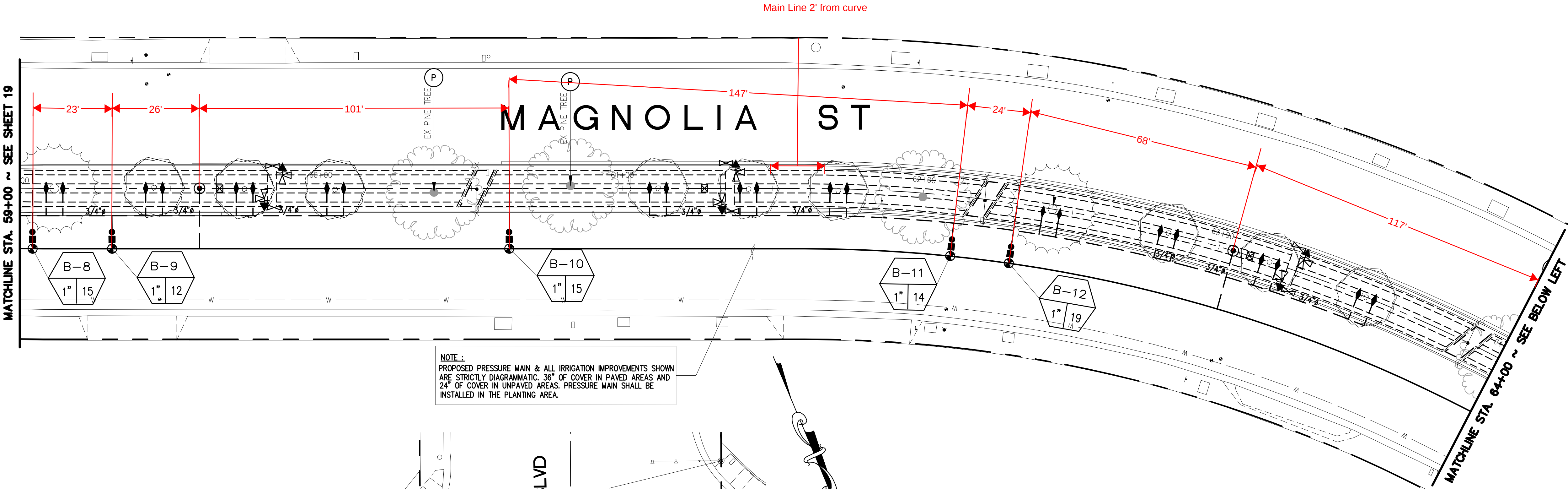
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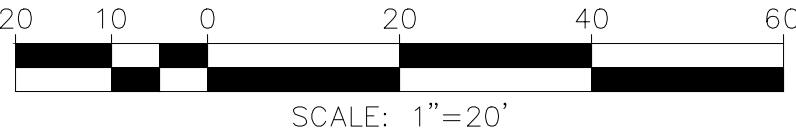
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Main Line 2' from curve

Main Line 2' from curve

Main Line 2' from curve



MAGNOLIA STREET REHABILITATION PROJECT		
MAGNOLIA STREET FROM STA 59+00 TO GARDEN GROVE BLVD IRRIGATION PLAN		DRAWING NUMBER A-1875 SHEET 20 OF 29

IRRIGATION PLAN

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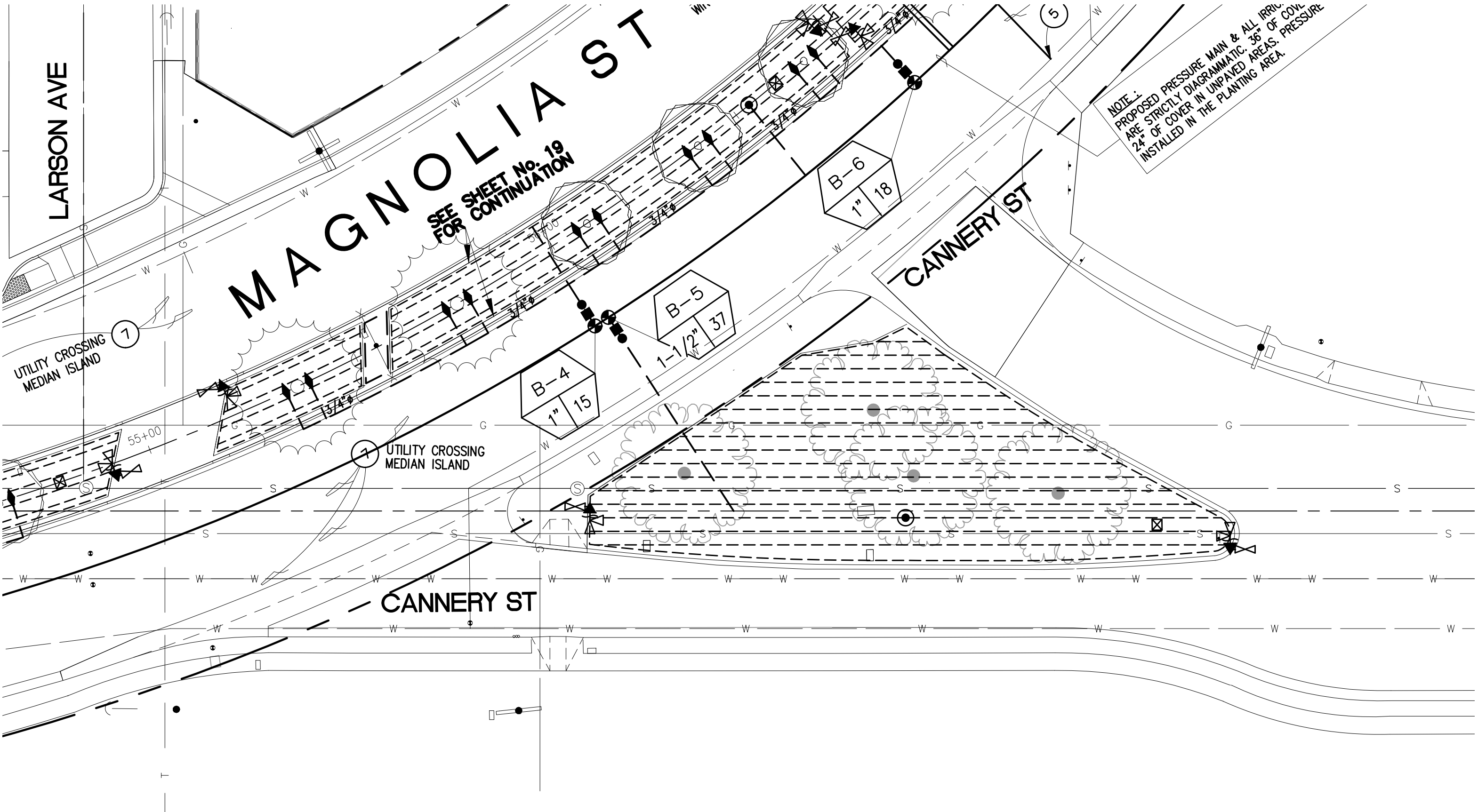
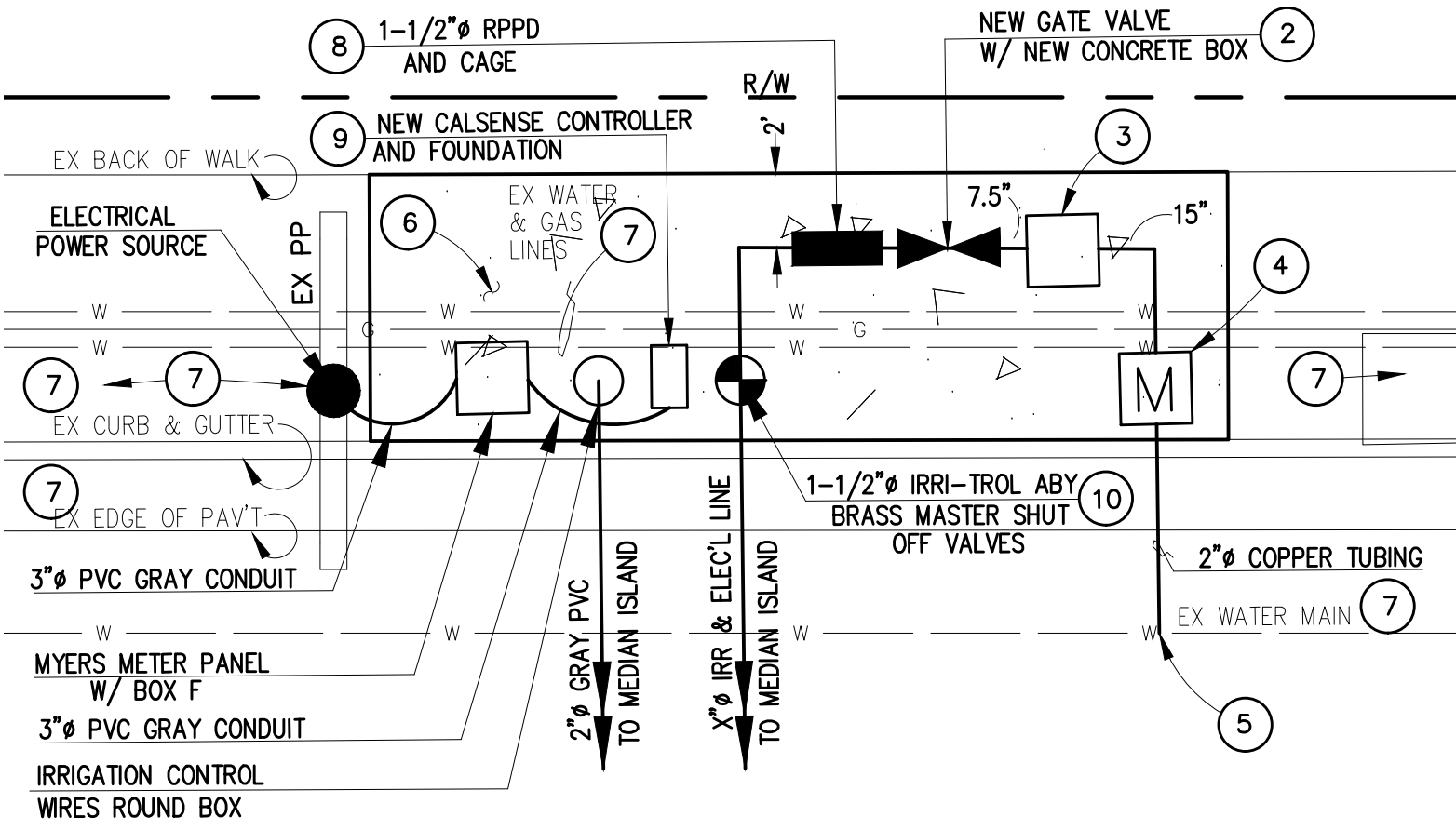
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AS-BUILT



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MAGNOLIA STREET
AT CANNERY ST MEDIAN ISLAND
IRRIGATION PLAN

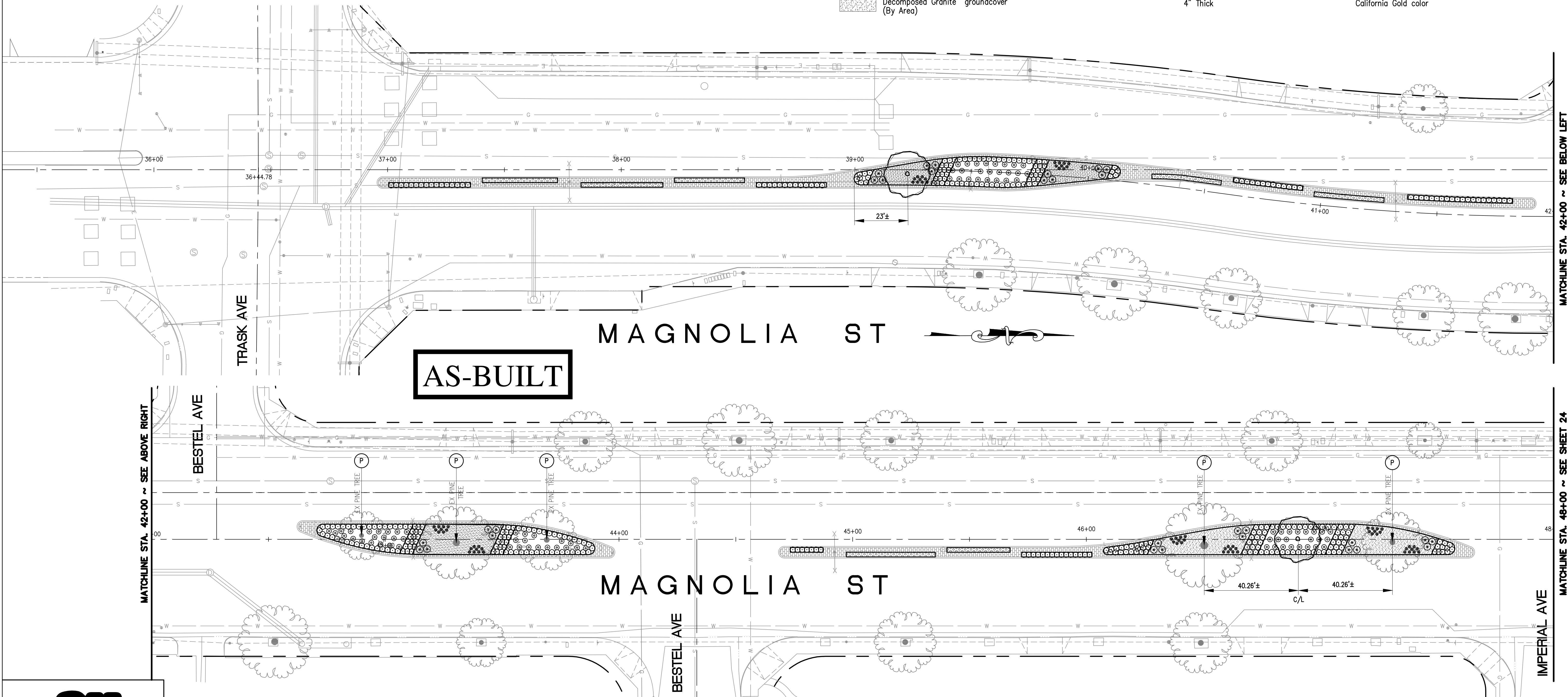
DRAWING NUMBER
A-1840
SHEET 21 OF 29

PLANTING PLAN

PLANT LEGEND

SYM	BOTANICAL NAME	COMMON NAME	SIZE & SPACING	QUANTITY	COMMENTS
TREES					
	Magnolia grandiflora	"Russet"	24" Box install per plan	3 EA	Standard Form
	Pinus canariensis	Canary Island Pine	15 gallon install per plan	1 EA	Standard Form 24"

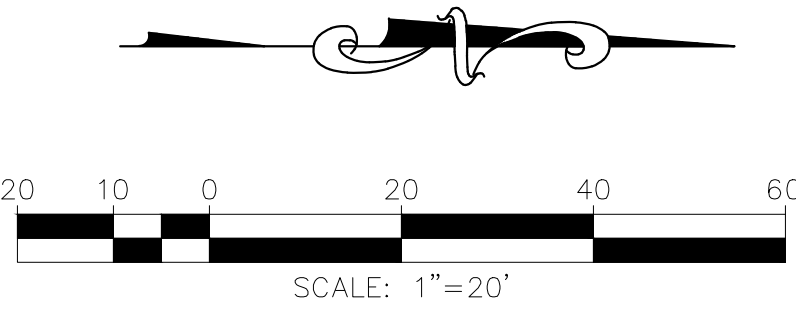
SYM	BOTANICAL NAME	COMMON NAME	SIZE & SPACING	QUANTITY	COMMENTS
SHRUBS					
	Agave attenuata	Fox Tail Agave	15 gallon specimen install per plan		Decomposed Granite groundcover
	Carrisa macrocarpa 'Green Carpet'	Green Carpet Natal Plum	1 gallon @ 24" O.C.		Mulch groundcover
	Kalanchoe luciae	Paddle Plant	1 gallon @ 24" O.C.		Decomposed Granite groundcover
	Rosa x 'Amber'	Amber Flower Carpet Rose	2 gallon @ 42" O.C.		Mulch groundcover
GROUNDCOVER					
	Sedum spurium 'Summer Glory'	Summer Glory Stonecrop	From 6" pots @ 8" O.C. triangulated spacing		Mulch groundcover
	Decomposed Granite groundcover (By Area)		4" Thick		California Gold color



Know what's below.
Call before you dig.

LANDSCAPE CONSTRUCTION NOTE :

(P) TRIM, THIN, SHAPE, AND BALANCE EXISTING TREE PER THE SPECIFICATIONS.



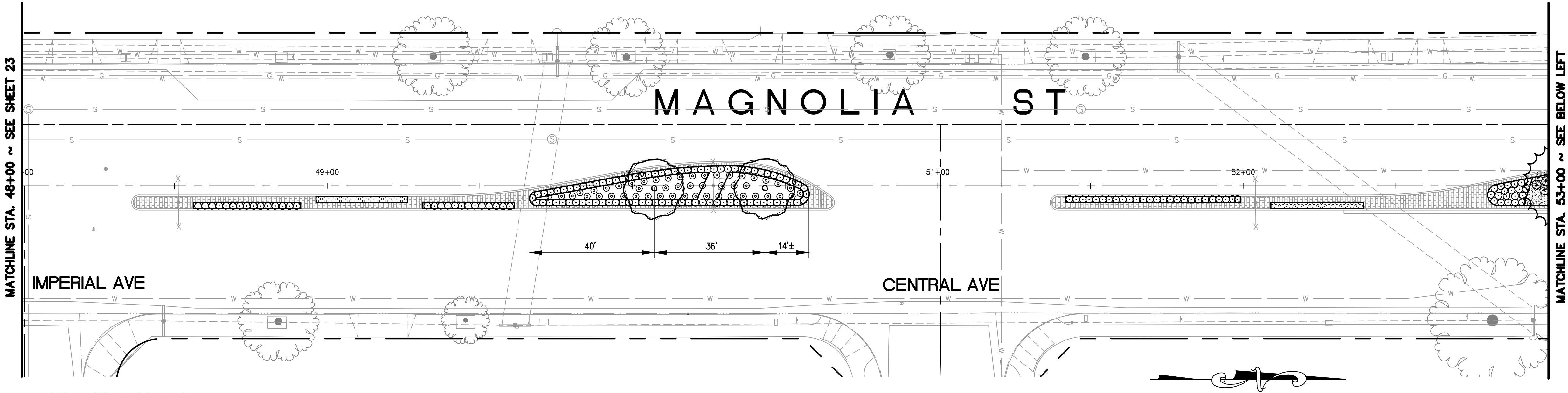
MAGNOLIA STREET REHABILITATION PROJECT

MAGNOLIA STREET
TRASK AVE TO STA 48+00
LANDSCAPING PLAN

DRAWING NUMBER
A-1875
SHEET 23 OF 29

PLANTING PLAN

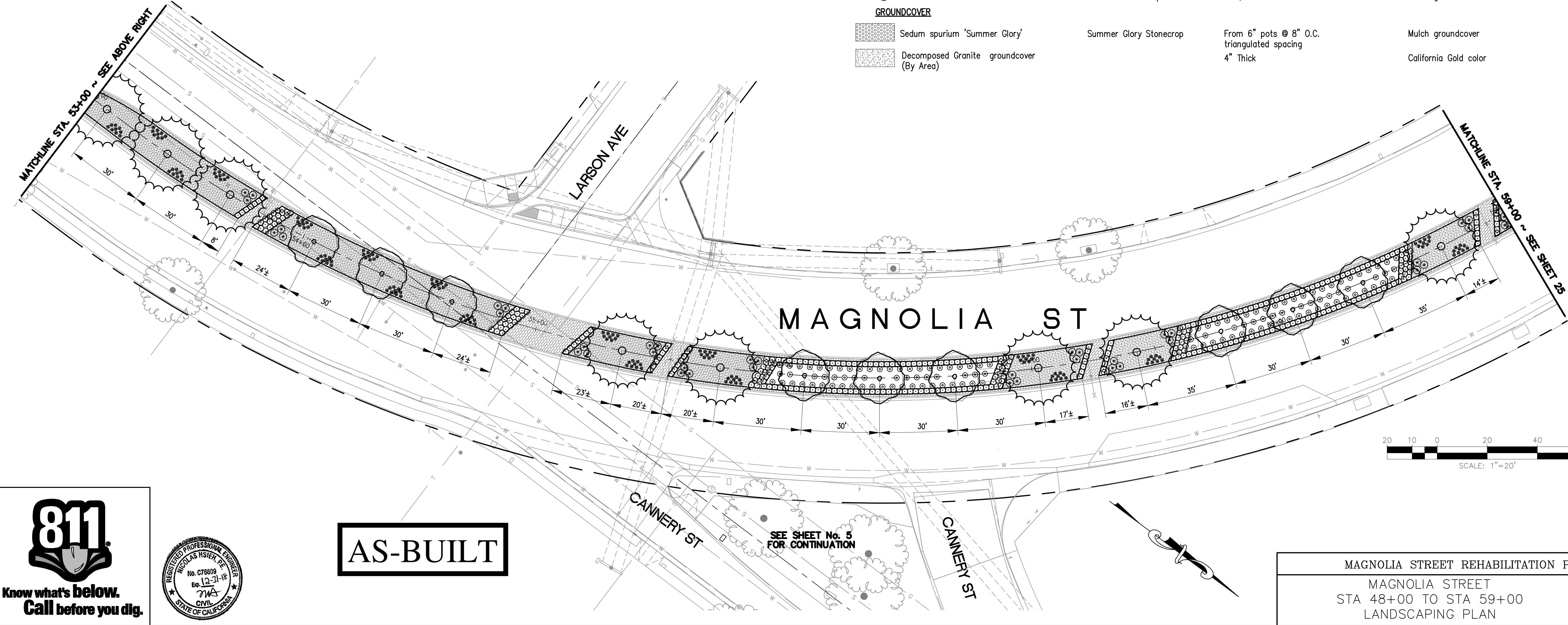
LANDSCAPE CONSTRUCTION NOTE :
(P) TRIM, THIN, SHAPE, AND BALANCE EXISTING TREE PER THE SPECIFICATIONS.



PLANT LEGEND

SYM	BOTANICAL NAME	COMMON NAME	SIZE & SPACING	QUANTITY	COMMENTS
TREES					
	Magnolia grandiflora	"Russet"	24" Box install per plan	11 EA	Standard Form
	Pinus canariensis	Canary Island Pine	15 gallon install per plan	8 EA	Standard Form 24"

SYM	BOTANICAL NAME	COMMON NAME	SIZE & SPACING	QUANTITY	COMMENTS
SHRUBS					
	Agave attenuata	Fox Tail Agave	15 gallon specimen install per plan		Decomposed Granite groundcover
	Carrisa macrocarpa 'Green Carpet'	Green Carpet Natal Plum	1 gallon @ 24" O.C.		Mulch groundcover
	Kalanchoe luciae	Paddle Plant	1 gallon @ 24" O.C.		Decomposed Granite groundcover
	Rosa x 'Amber'	Amber Flower Carpet Rose	2 gallon @ 42" O.C.		Mulch groundcover
GROUNDCOVER					
	Sedum spurius 'Summer Glory'	Summer Glory Stonecrop	From 6" pots @ 8" O.C. triangulated spacing		Mulch groundcover
	Decomposed Granite groundcover (By Area)		4" Thick		California Gold color



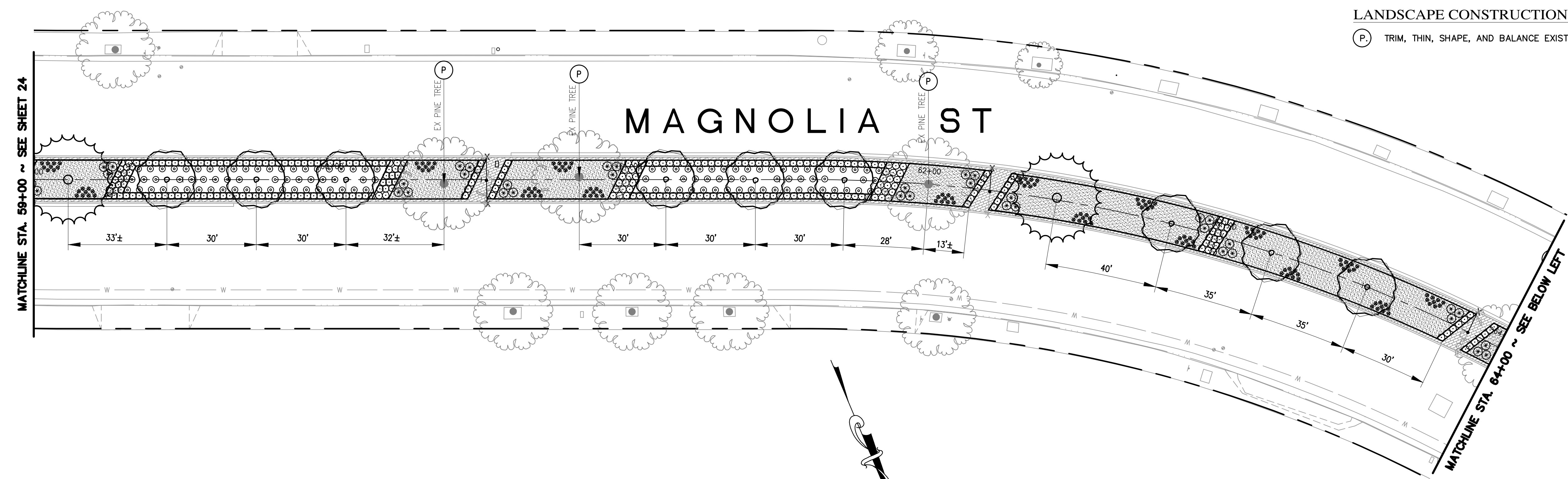
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Know what's below.
Call before you dig.



MAGNOLIA STREET REHABILITATION PROJECT	
MAGNOLIA STREET STA 48+00 TO STA 59+00 LANDSCAPING PLAN	DRAWING NUMBER A-1875
	SHEET 24 OF 29

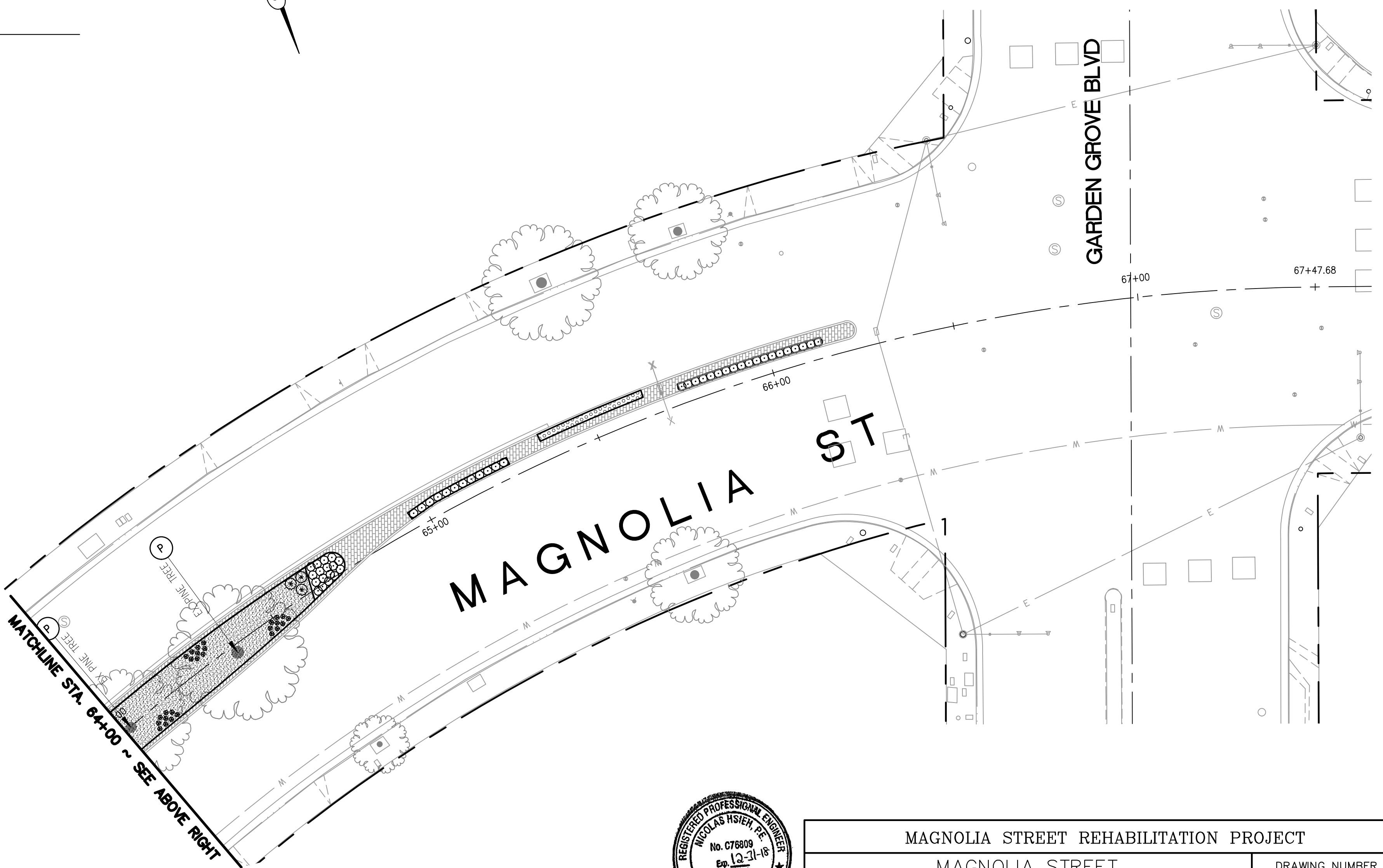
PLANTING PLAN



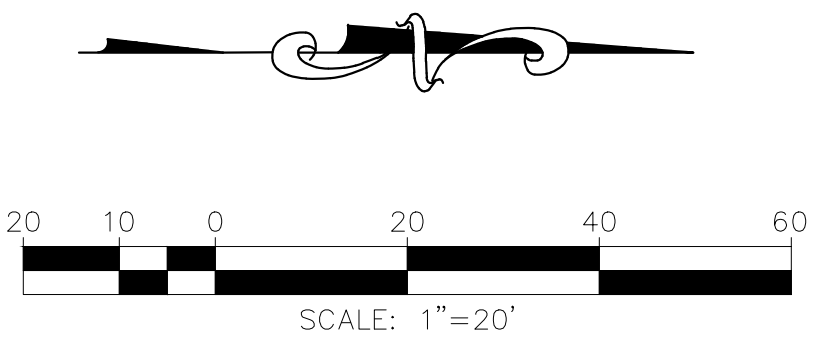
LANDSCAPE CONSTRUCTION NOTE :
(P) TRIM, THIN, SHAPE, AND BALANCE EXISTING TREE PER THE SPECIFICATIONS.

PLANT LEGEND

SYM	BOTANICAL NAME	COMMON NAME	SIZE & SPACING	QUANTITY	COMMENTS
TREES					
	Magnolia grandiflora	"Russet"	24" Box install per plan	8 EA	Standard Form
	Pinus canariensis	Canary Island Pine	15 gallon install per plan	3 EA	Standard Form 24"
SHRUBS					
	Agave attenuata	Fox Tail Agave	15 gallon specimen install per plan		Decomposed Granite groundcover
	Carrisa macrocarpa 'Green Carpet'	Green Carpet Natal Plum	1 gallon @ 24" O.C.		Mulch groundcover
	Kalanchoe luciae	Paddle Plant	1 gallon @ 24" O.C.		Decomposed Granite groundcover
	Rosa x 'Amber'	Amber Flower Carpet Rose	2 gallon @ 42" O.C.		Mulch groundcover
GROUNDCOVER					
	Sedum spurium 'Summer Glory'	Summer Glory Stonecrop	From 6" pots @ 8" O.C. triangulated spacing 4" Thick		Mulch groundcover
	Decomposed Granite	groundcover (By Area)			California Gold color



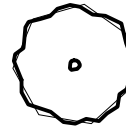
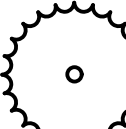
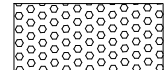
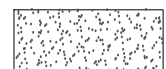
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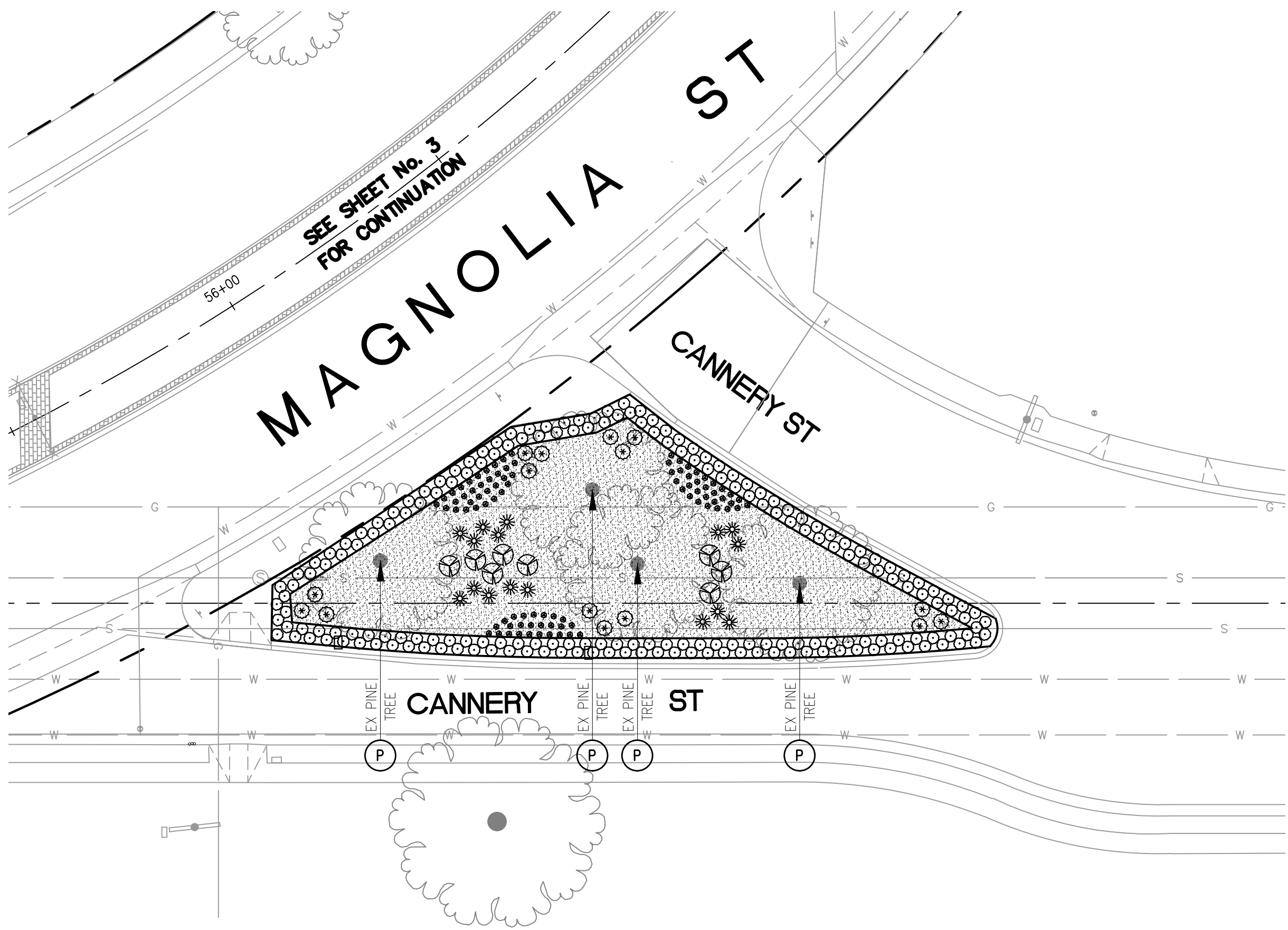


MAGNOLIA STREET REHABILITATION PROJECT		
MAGNOLIA STREET FROM STA 59+00 TO GARDEN GROVE BLVD		DRAWING NUMBER A-1875
PLANTING PLAN		SHEET 25 OF 29

PLANTING PLAN

PLANT LEGEND

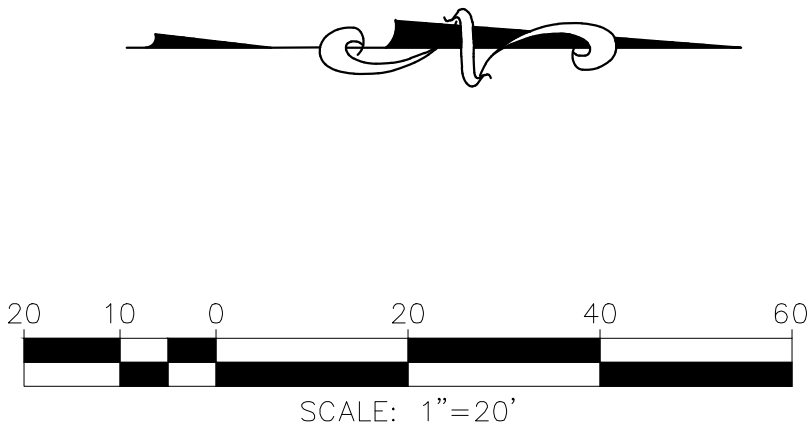
SYM	BOTANICAL NAME	COMMON NAME	SIZE & SPACING	QUANTITY	COMMENTS	SYM	BOTANICAL NAME	COMMON NAME	SIZE & SPACING	QUANTITY	COMMENTS
<u>TREES</u>						<u>SHRUBS</u>					
	Magnolia grandiflora	"Russet"	24" Box install per plan		Standard Form		Carrisa macrocarpa 'Green Carpet'	Green Carpet Natal Plum	1 gallon @ 24" O.C.		Mulch groundcover
	Pinus canariensis	Canary Island Pine	15 gallon install per plan		Standard Form 24"		Kalanchoe luciae	Paddle Plant	1 gallon @ 24" O.C.		Decomposed Granite groundcover
<u>SHRUBS</u>							Rosa x 'Amber'	Amber Flower Carpet Rose	2 gallon @ 42" O.C.		Mulch groundcover
	Agave americana	American Century Plant	15 gallon specimen install per plan		Decomposed Granite groundcover	<u>GROUNDCOVER</u>					
	Agave attenuata	Fox Tail Agave	15 gallon specimen install per plan		Decomposed Granite groundcover		Sedum spurium 'Summer Glory'	Summer Glory Stonecrop	From 6" pots @ 8" O.C. triangulated spacing		Mulch groundcover
	Agave desmetiana	Smooth Agave	15 gallon specimen install per plan		Decomposed Granite groundcover		Decomposed Granite groundcover (By Area)		4" Thick		California Gold color



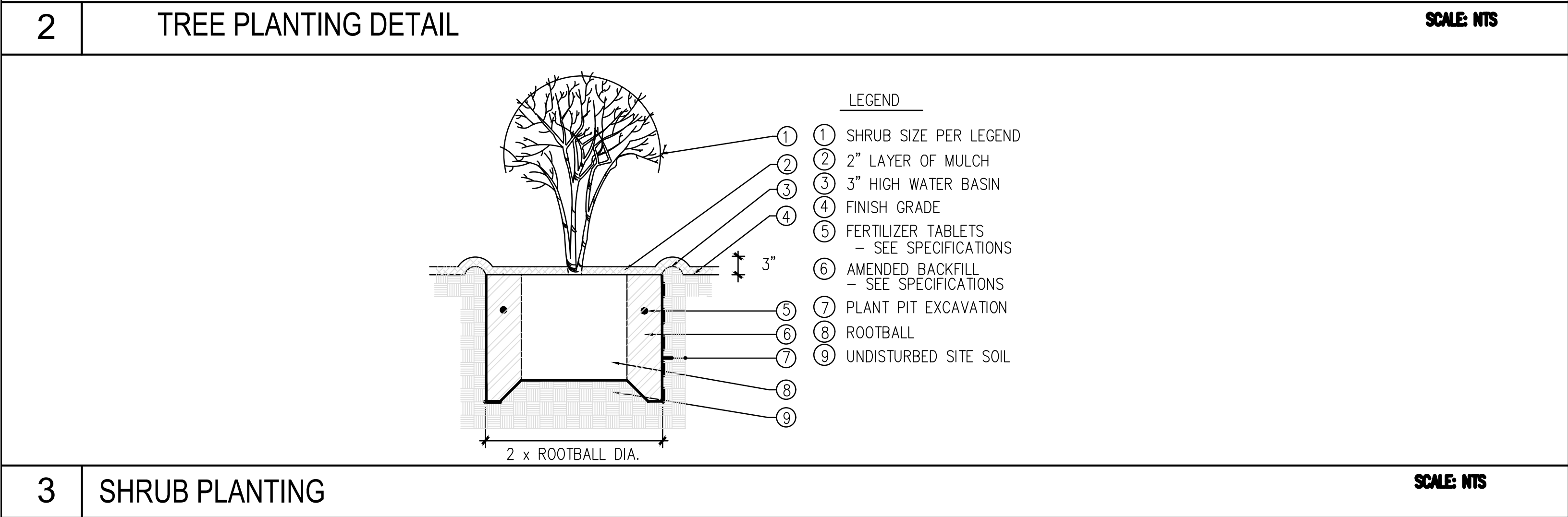
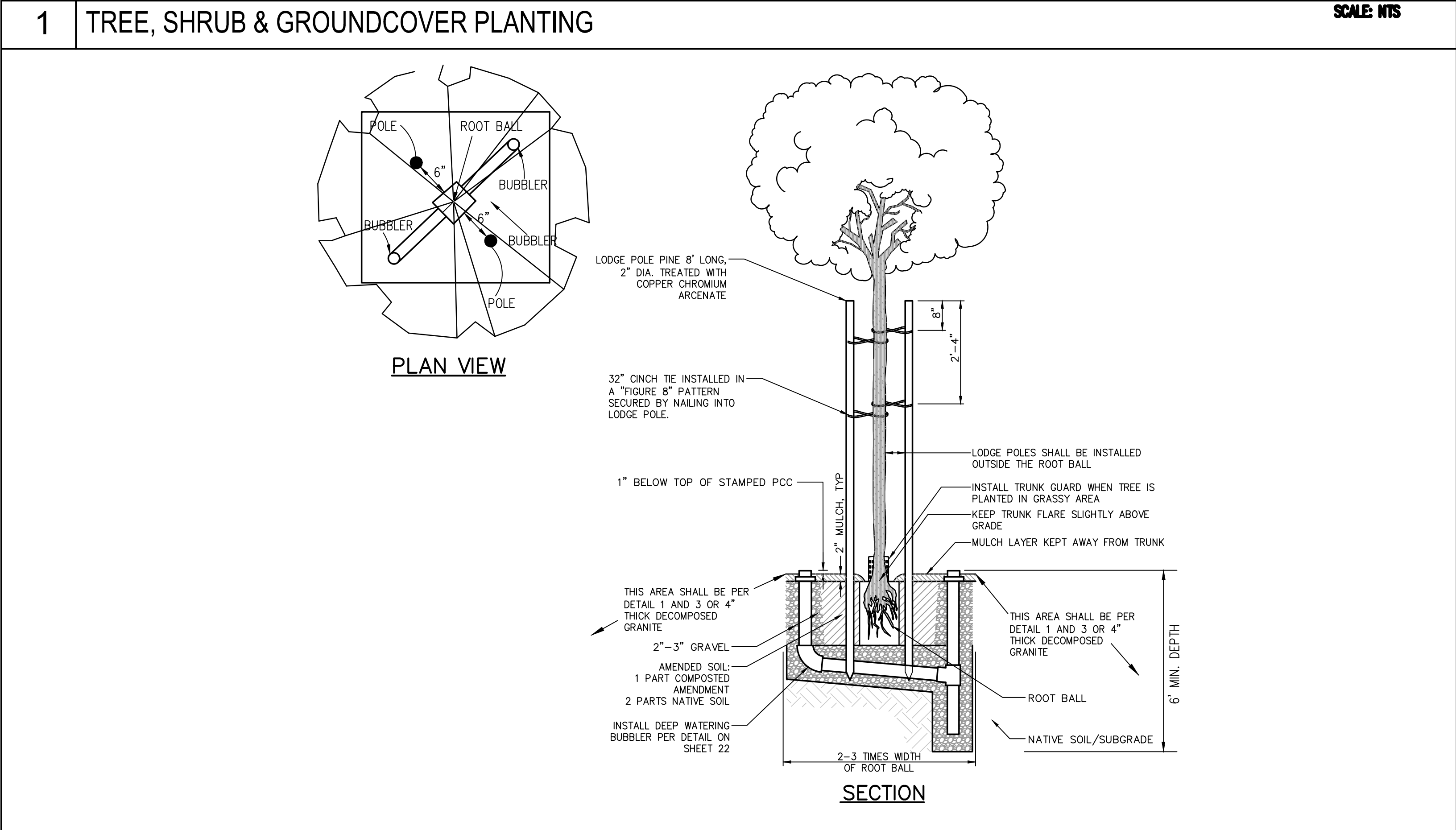
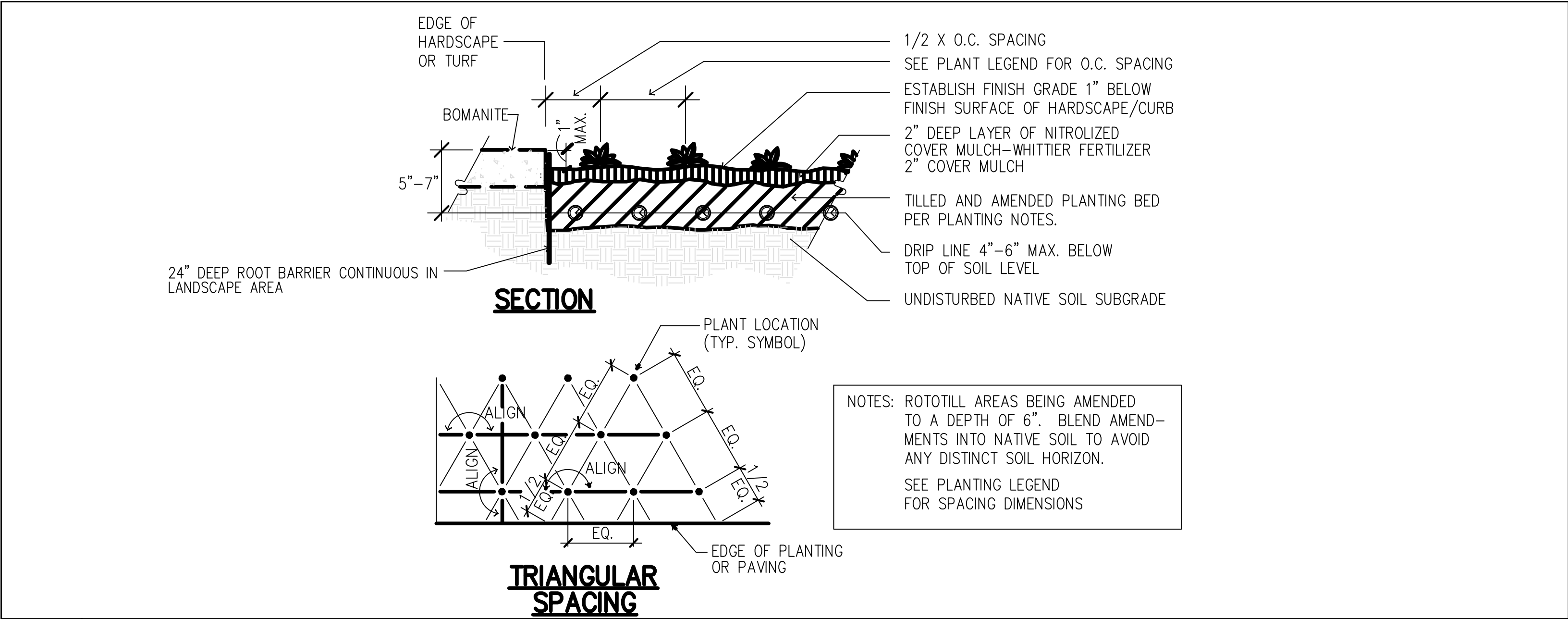
LANDSCAPE CONSTRUCTION NOTE :
P. TRIM, THIN, SHAPE, AND BALANCE EXISTING TREE PER THE SPECIFICATIONS.



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MAGNOLIA STREET REHABILITATION PROJECT	
MAGNOLIA STREET AT CANNERY LANDSCAPING PLAN	DRAWING NUMBER A-1875
	SHEET 26 OF 29



PLANTING NOTES

1. WORK SHALL MEET THE REQUIREMENTS OF ALL LOCAL, STATE, AND FEDERAL GOVERNING CODES, ORDINANCES, LAWS, REGULATIONS, SAFETY ORDERS AND DIRECTIVES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF/HERSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF SAID UTILITIES.
3. CONTRACTOR MUST CHECK ALL SITE CONDITIONS PRIOR TO COMMENCING WORK. CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CITY'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
4. ALL PLANT QUANTITIES ARE IDENTIFIED BY TYPICAL SYMBOLS. REFER TO PLANT LEGEND FOR QUANTITIES. PLANT QUANTITIES ARE APPROXIMATE AND ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM ALL PLANT QUANTITIES PRIOR TO BIDDING. IN THE EVENT OF DISCREPANCIES IN PLANT COUNT, QUANTITIES INDICATED BY PLANT SYMBOLS SHALL PREVAIL.
5. TREES SHALL BE REVIEWED AND TAGGED BY CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION. PLANT MATERIAL SHALL BE GUARANTEED TO BE AVAILABLE AND MEET OR EXCEED REQUIRED SPECIFICATIONS ON ESTIMATED DATE OF START OF PLANTING. IF REQUESTED BY CITY'S AUTHORIZED REPRESENTATIVE, CONTRACTOR SHALL SUBMIT FOR APPROVAL PHOTOS OF ALL BOXED TREES. PHOTOS SHOULD INCLUDE PERSON FOR SCALE PURPOSES.
6. CONTRACTOR SHALL NOTIFY CITY'S AUTHORIZED REPRESENTATIVE IF, PRIOR TO BIDDING, ANY SPECIFIED PLANT MATERIAL IS FOUND TO BE UNAVAILABLE.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FURNISH PLANT MATERIAL FREE OF PESTS OR DISEASE.
8. ALL PLANT MATERIAL DELIVERED TO THE SITE SHALL BE APPROVED BY THE CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION.
9. ALL PLANT MATERIAL SHALL BE SET OUT AS SHOWN ON PLAN. FINAL LOCATION OF ALL PLANT MATERIAL SHALL BE SUBJECT TO THE APPROVAL OF THE CITY'S AUTHORIZED REPRESENTATIVE.
10. ALL EXISTING TREES NOTED TO REMAIN ON PLANTING PLAN OR TREE INVENTORY ARE TO BE PROTECTED IN PLACE DURING CONSTRUCTION.
11. ALL TREES PLANTED NEXT TO CURBS SHALL BE AT LEAST 36" CLEAR FROM CURB FACE.
12. ALL AREAS NOT PLANTED IN TURF AND LESS THAN 4:1 SLOPE SHALL BE COVERED WITH 2" ORGANIC MULCH. SUBMIT 1 CU. FT. SAMPLE PRIOR TO APPLICATION.
13. MINIMUM 3 SOIL SAMPLES SHALL BE TAKEN BY CONTRACTOR AFTER GRADING OPERATIONS ARE COMPLETED FOR SOIL FERTILITY AND AGRICULTURAL SUITABILITY BY AN APPROVED LABORATORY. SEE SPECIFICATIONS FOR SOIL AMENDMENTS SPECIFIED FOR BIDDING PURPOSES ONLY. SUBMIT SOIL REPORT TO CITY'S AUTHORIZED REPRESENTATIVE. SOIL AMENDMENTS SHALL BE AS PER RECOMMENDATIONS IN SOILS REPORT.
14. CONTRACTOR SHALL NOTIFY CITY'S AUTHORIZED REPRESENTATIVE 48 HOURS PRIOR TO COMMENCEMENT OF WORK TO COORDINATE OPERATIONS.
15. THE CITY'S AUTHORIZED REPRESENTATIVE SHALL BE THE SOLE JUDGE AS TO WHEN THE 90 DAY PLANT MAINTENANCE PERIOD BEGINS.
16. AFTER THE 90-DAY PLANT ESTABLISHMENT PERIOD HAS BEEN ACCEPTED BY THE ENGINEER, THE 3-YEAR LANDSCAPE AND IRRIGATION MAINTENANCE PERIOD SHALL BEGIN. CONTRACTOR WILL BE NOTIFIED IN WRITING.

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MAGNOLIA STREET REHABILITATION PROJECT

MAGNOLIA STREET
LANDSCAPING DETAILS

DRAWING NUMBER

A-1875

SHEET 27 OF 29