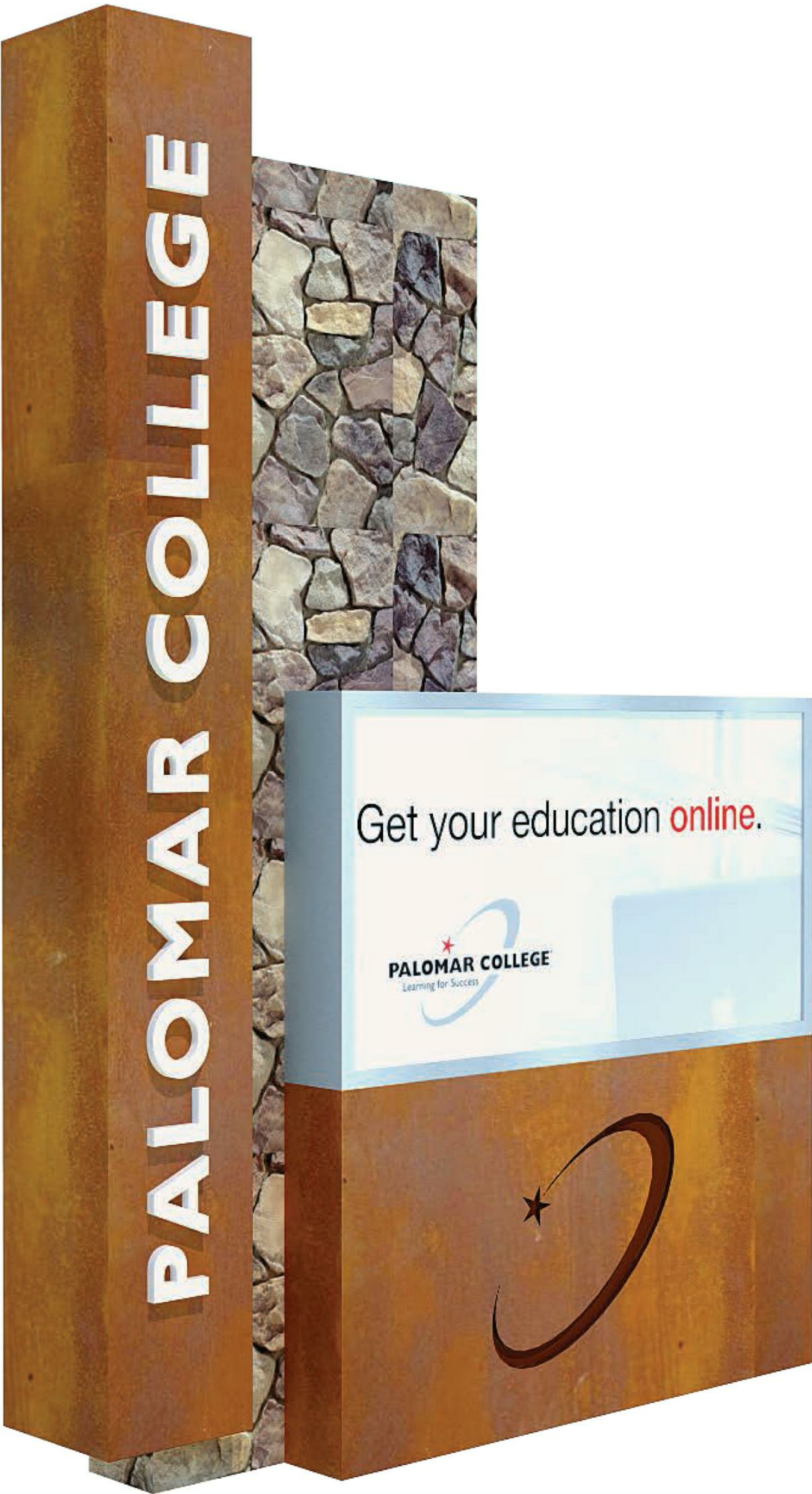
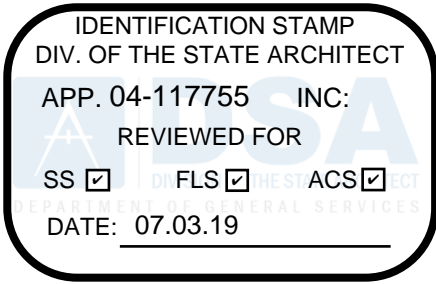


PALOMAR COLLEGE
MONUMENT SIGNAGE: SIGN 03

35090 HORSE RANCH CREEK ROAD, FALLBROOK, CA 92028



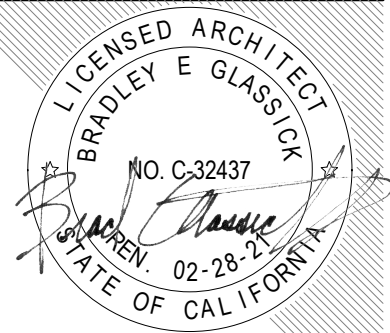
VOLUME 1 OF 1



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5015016-000

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PHONE (626) 793-7847



Facility:
Palomar College Fallbrook Education Center
35090 Horse Ranch Creek Road
Fallbrook, CA 92028

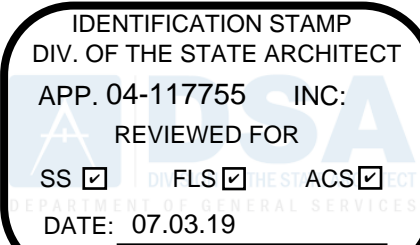
Project:
**PALOMAR COLLEGE FALLBROOK EDUCATION CENTER
MONUMENT SIGNAGE**

Sheet Title:
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DSA APPROVED SET

Date: 02.01.2019 Client Project No: 5015016000

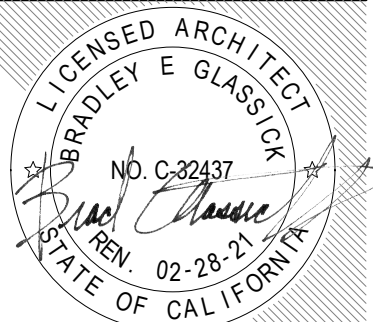
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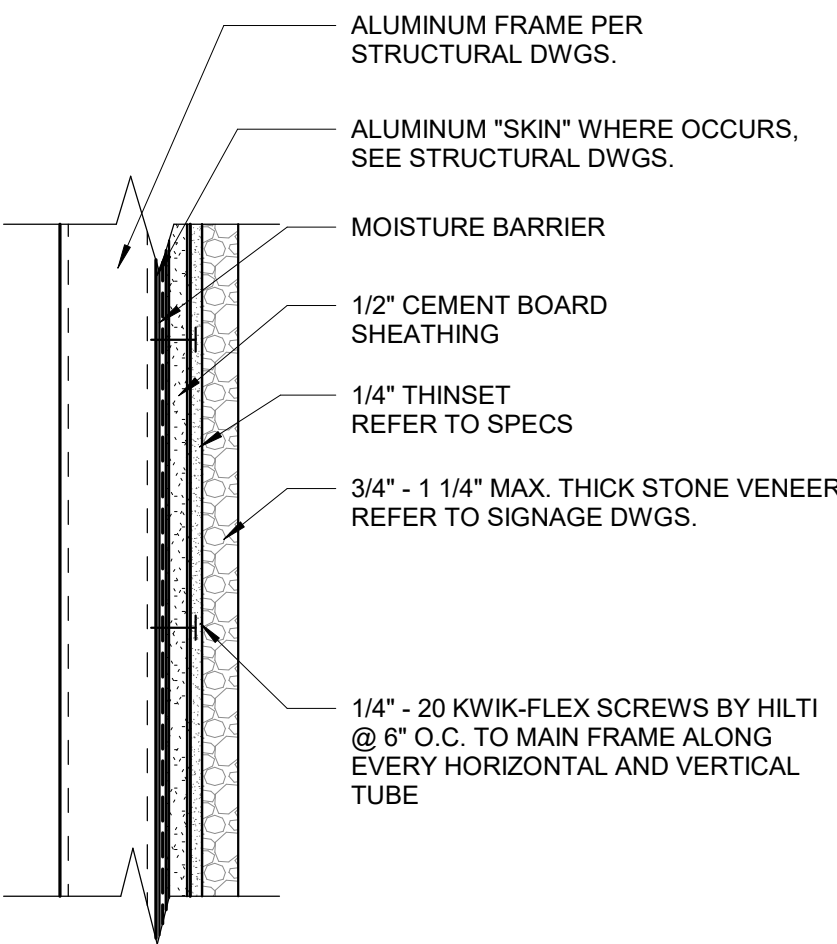


ISSUE:

No.	Description	Date	No.	Description	Date
01	DSA SUBMITTAL	02.01.2019	02	DSA BACKCHECK	07.02.2019

Keynotes:

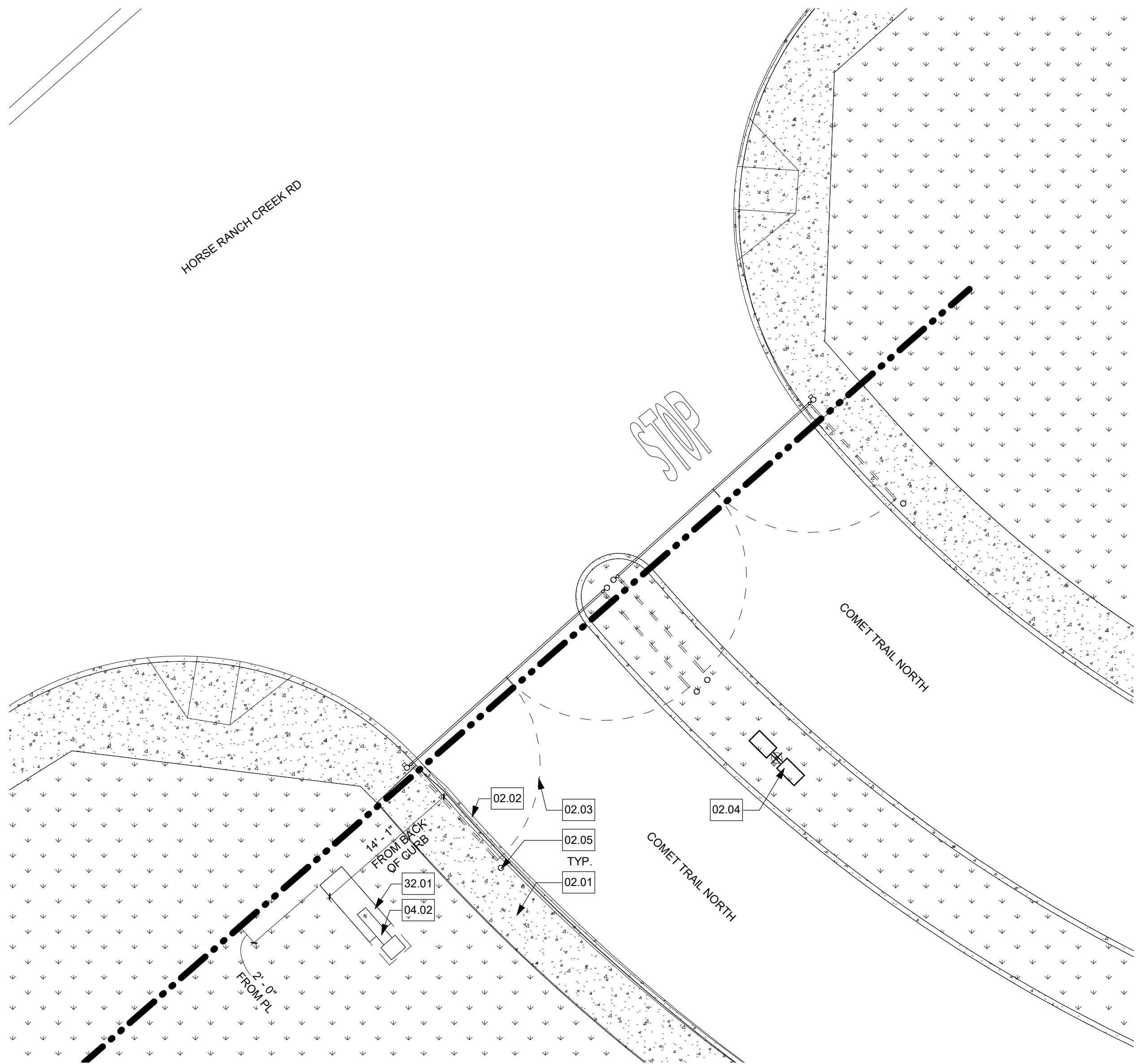
02.01	(E) SIDEWALK
02.02	(E) CURB
02.03	(E) GATE
02.04	(E) LIGHT POLE
02.05	(E) BOLLARD
04.02	STONE VENEER OVER SIGNAGE FRAME - SEE 3/A1.11
32.01	NEW MONUMENT SIGNAGE - REFER TO SIGNAGE DWGS.



STONE VENEER OVER SIGNAGE FRAMING

3

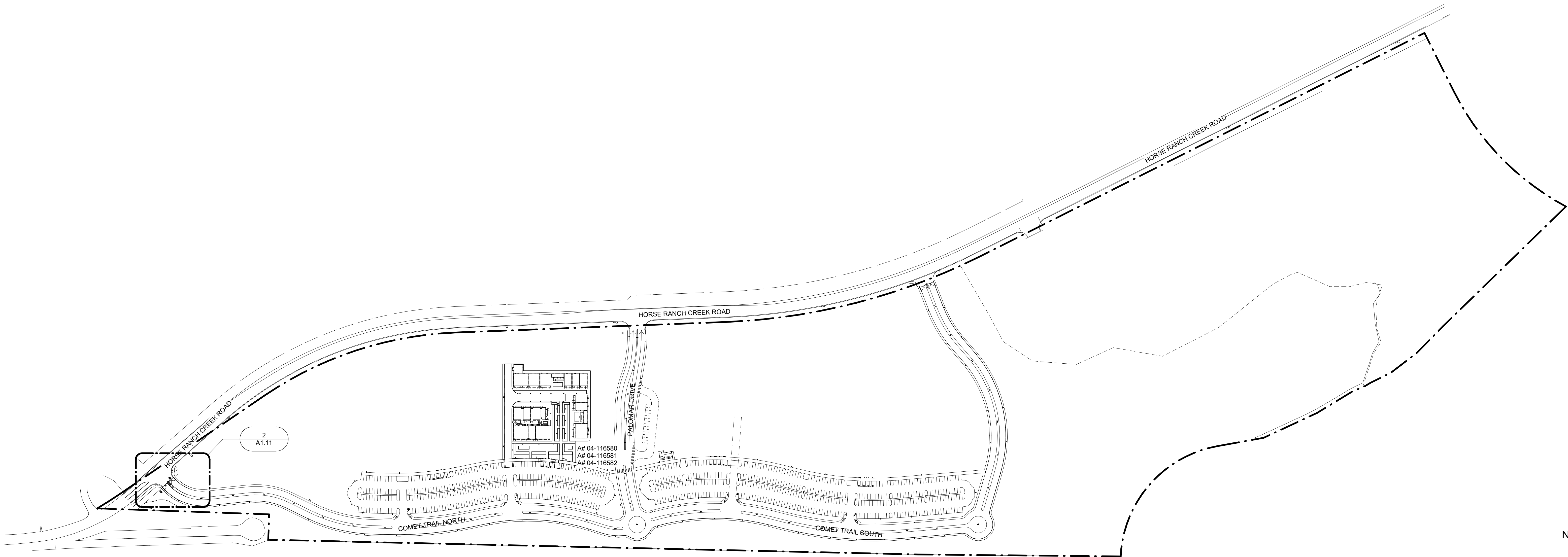
3" = 1'-0"



NORTH CAMPUS ENTRANCE -
MONUMENT SIGN

2

1/8" = 1'-0"



OVERALL CAMPUS PLAN

1

1" = 160'-0"



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Fallbrook, CA 92028

Project:
PALOMAR COLLEGE FALLBROOK EDUCATION CENTER
MONUMENT SIGNAGE

Sheet Title:
OVERALL SITE & ENLARGED PLAN

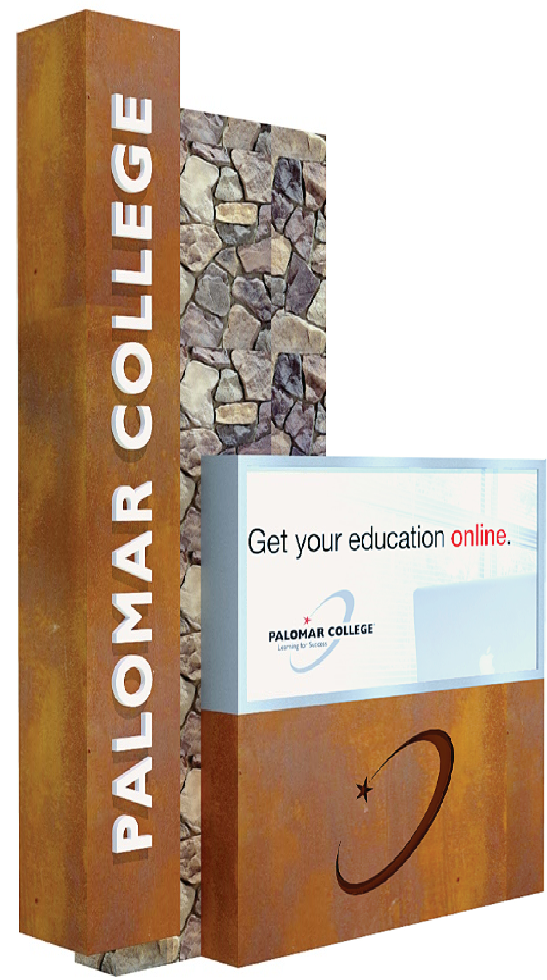
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Date: 02.01.2019 Client Project No: 5015016000

Sheet:

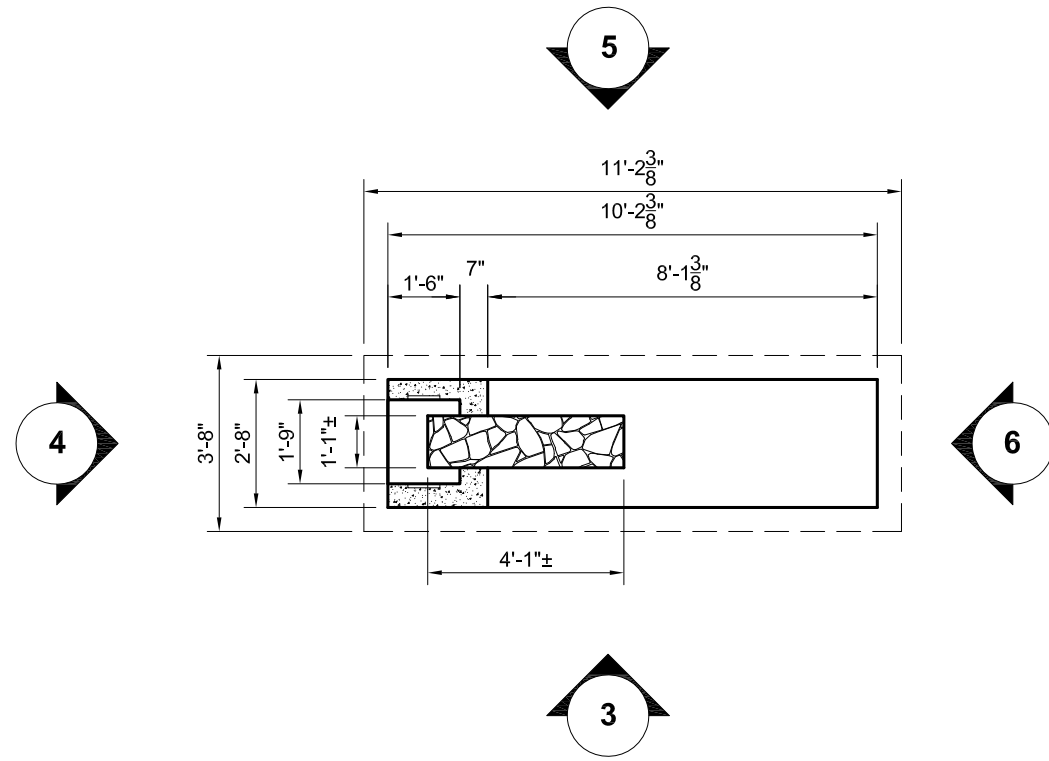
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* 3D RENDERING FOR REFERENCE ONLY

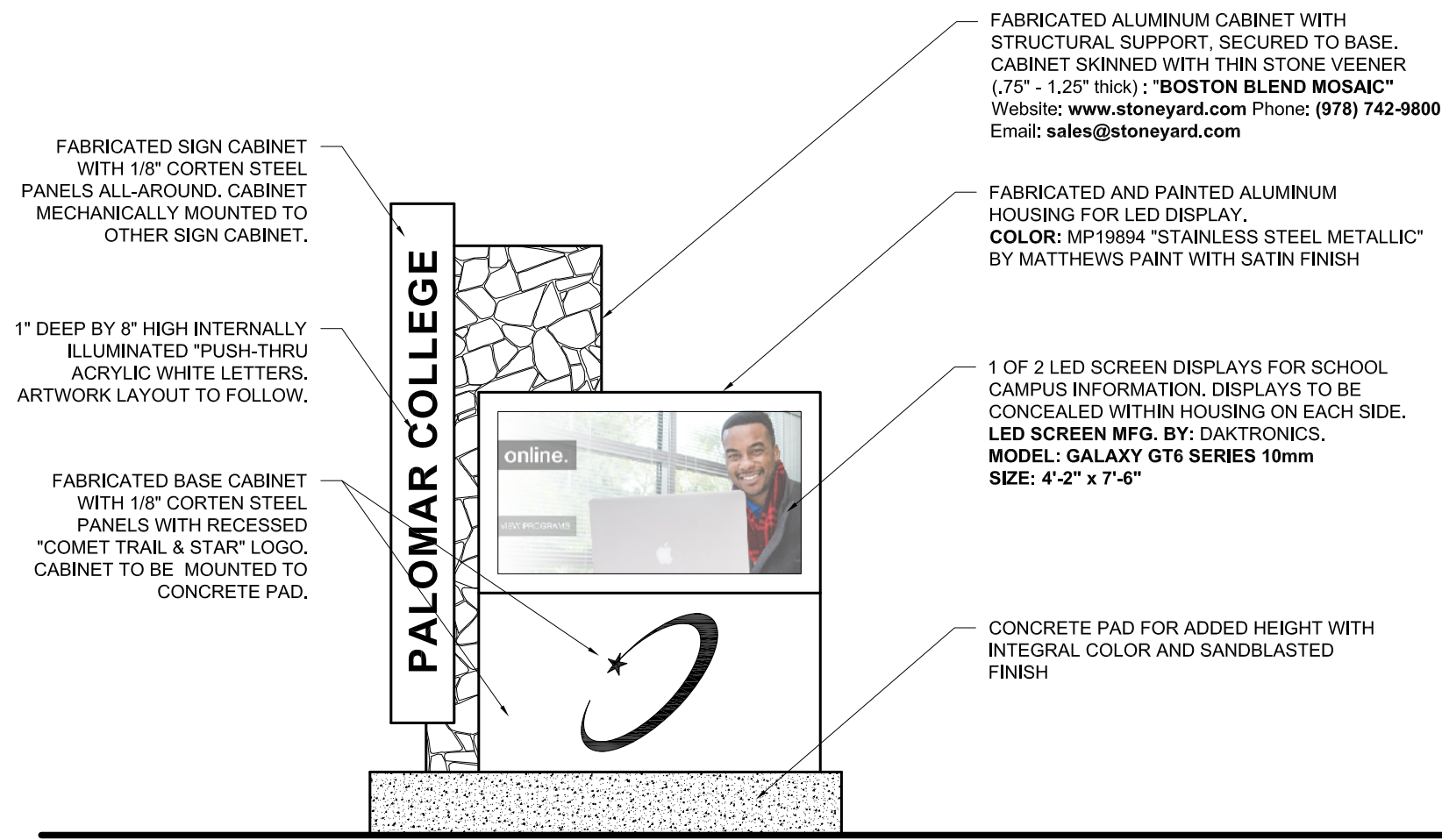


01 3D RENDERING
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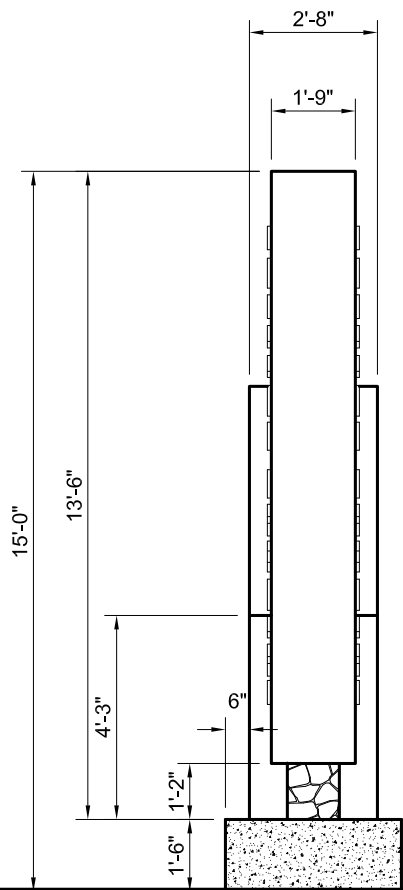
* FOR SITE AND MONUMENT SIGN ORIENTATION SEE: SHEET L-1.0



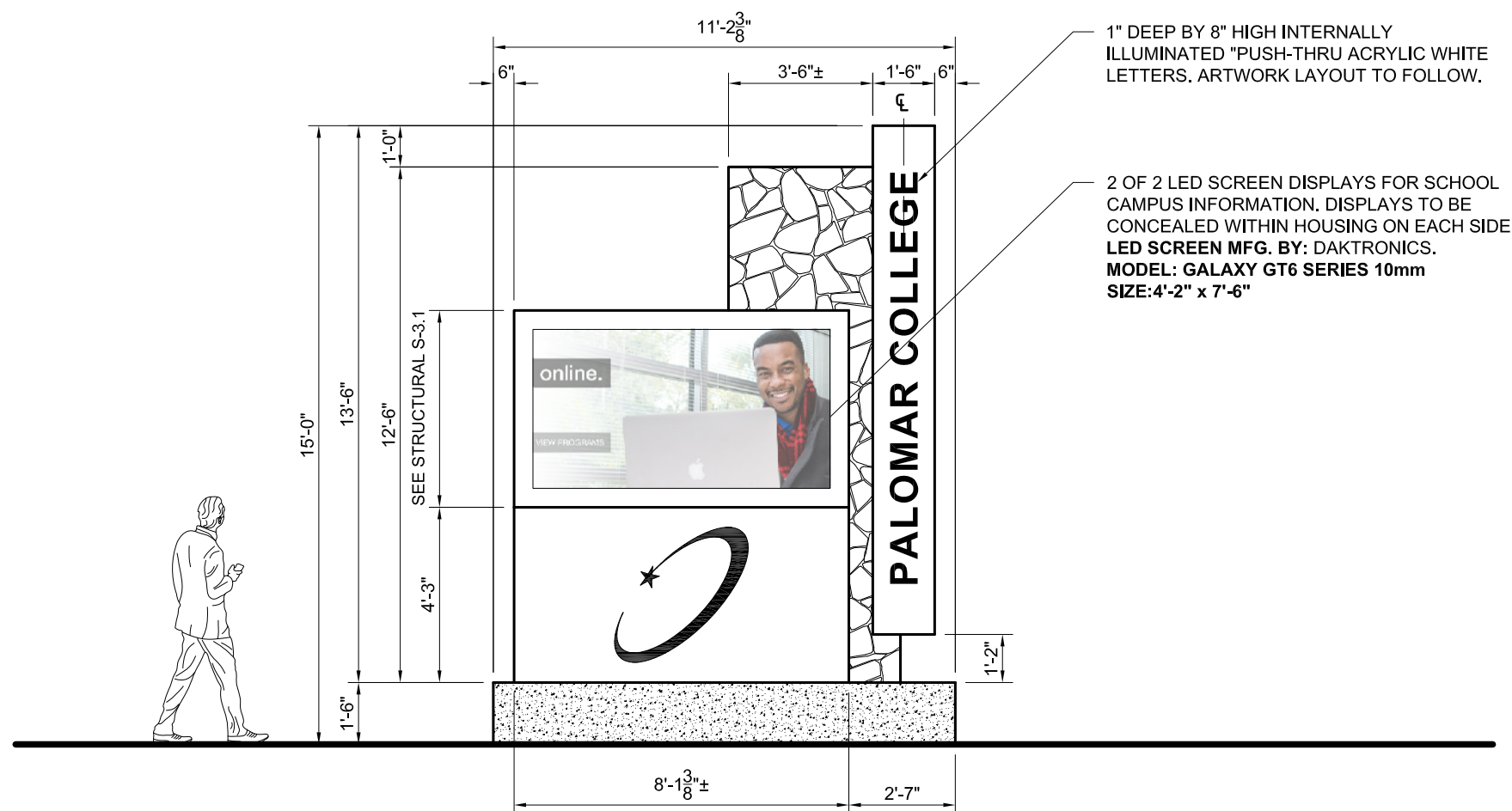
02 ELEVATION
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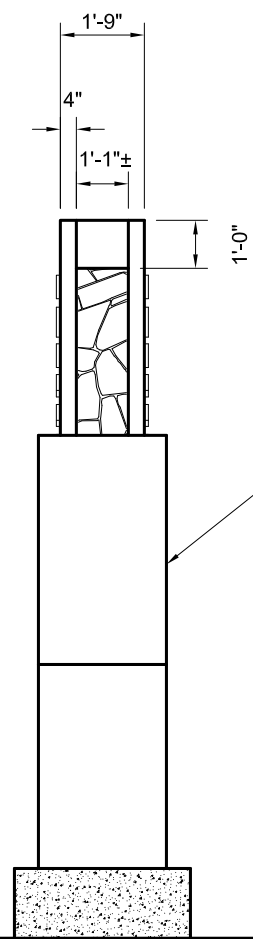
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04 ELEVATION
SCALE: 1/4"=1'-0"



05 ELEVATION
SCALE: 1/4"=1'-0"

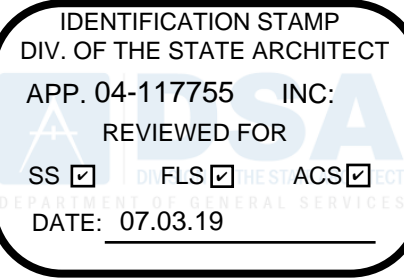


06 ELEVATION
SCALE: 1/4"=1'-0"

07 BLANK
SCALE: NTS

08 BLANK
SCALE: NTS

09 BLANK
SCALE: NTS



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1	DSA SUBMITTAL	02.01.2019	2	DSA BACKCHECK	07.02.2019

Keynotes:

1. PAINT COLORS/INFORMATION AS NOTED BY MATTHEWS PAINT.
2. ALL CONCRETE SURFACE TO BE COATED WITH CLEAR MATTE ANTI-GRAFFITI COATING.
3. PROVIDE NEOPRENE WEATHER-PROOFING MATERIAL BETWEEN MATERIAL BETWEEN DISPLAY HOUSING, SIGN CABINET AND CONCRETE BASE FOR ADDITIONAL MOISTURE/WEATHER BARRIER PROTECTION.
4. REFER TO STRUCTURAL DRAWINGS FOR FOOTING DETAILS



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MONUMENT SIGNAGE

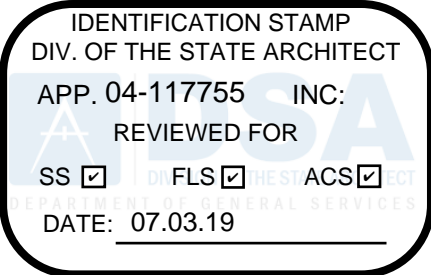
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MONUMENT SIGN 03

DSA APPROVED SET

Date: 02.01.2019 Client Project No: 5015016000

Sheet:

SW-03



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	DSA BACKCHECK	07.02.2019			

Keynotes:



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Project:
PALOMAR COLLEGE FALLBROOK EDUCATION CENTER
MONUMENT SIGNAGE

Sheet Title:
CONSTRUCTION PLAN

DSA APPROVED SET

Date: 03.22.19	Client Project No: 5015016000
Sheet:	

L-1.0

CONSTRUCTION LEGEND

- EXISTING HARDSCAPE TO REMAIN
- EXISTING SHRUBS & GROUND COVER REMAIN
- EXISTING TREE TO REMAIN
- EXISTING DECOMPOSED GRANITE PATH AND EDGING TO REMAIN
- ENTRY GATES TO REMAIN
- ENTRY MONUMENT SIGN - SEE SW DRAWINGS
- PLANT PROTECTION FENCE PER SPECIFICATIONS
- EXISTING SHRUBS & GROUND COVER TO BE REMOVED

CONSTRUCTION NOTES:

- ALL HIGH POINTS, LOW POINTS, OR GRADE BREAKS ON CONCRETE SURFACES SHALL HAVE A SMOOTH CURVE. CONCRETE SHALL NOT BE BUILT TO A POINT.
- ALL DIMENSIONS ARE FROM BACK OF CURB UNLESS OTHERWISE NOTED.

DEMOLITION NOTES

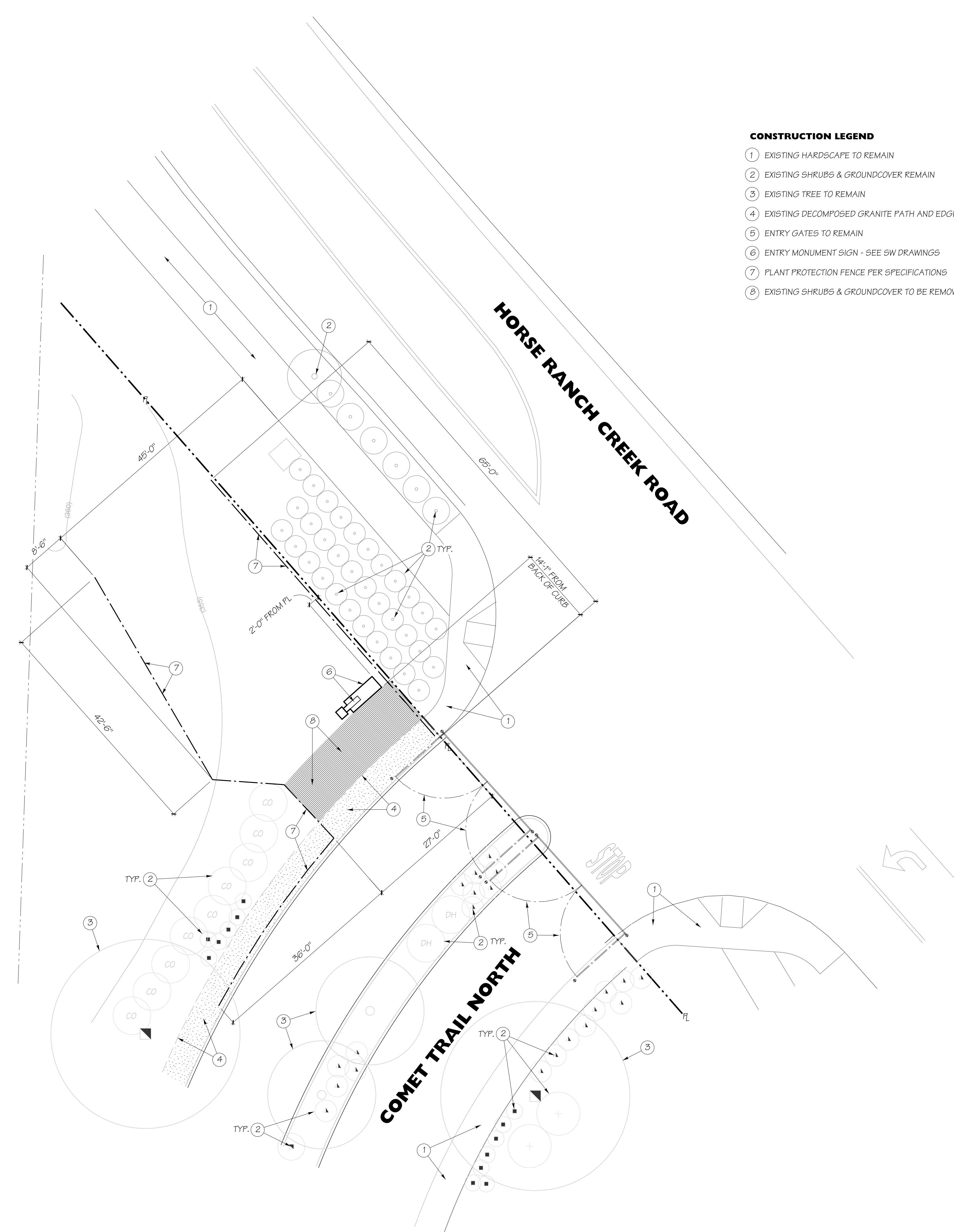
- VERIFY LOCATIONS OF UNDERGROUND UTILITIES PRIOR TO BEGINNING DEMOLITION. ALL EXISTING UTILITIES MAY NOT BE SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING LOCATIONS OF PROTECTION AND MAINTENANCE OF ALL UNDERGROUND UTILITIES PRIOR TO DEMOLITION OR CONSTRUCTION.
- ALL EXISTING SHRUB AND GROUND COVER PLANTINGS IN PROPOSED CONSTRUCTION AREAS ARE TO BE REMOVED UNLESS NOTED OTHERWISE.
- EXISTING TREES AND SHRUBS TO REMAIN ARE TO BE IRRIGATED AND MAINTAINED DURING THE CONSTRUCTION PERIOD AS SPECIFIED IN SECTION 015639. PLANTS TO REMAIN THAT DECLINE OR DIE DURING CONSTRUCTION (INCLUDING PLANTS TO BE SALVAGED AND TRANSPLANTED) ARE TO BE REPLACED AT NO COST TO THE OWNER.
- EXISTING PAVEMENTS SHOWN TO REMAIN THAT ARE CRACKED OR DAMAGED BY CONSTRUCTION ARE TO BE REMOVED AT THE NEAREST EXISTING JOINT AND ARE TO BE REPLACED IN TYPE, KIND & COLOR.

HATCH LEGEND

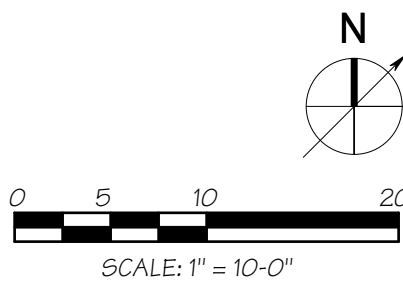
- EXISTING DECOMPOSED GRANITE PAVING TO REMAIN
- EXISTING SHRUBS & GROUND COVER TO BE REMOVED

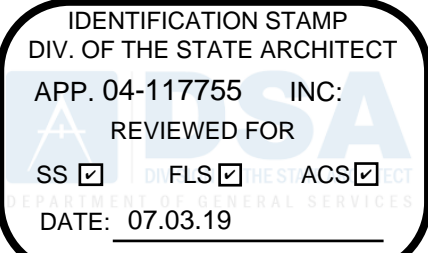
EXISTING TREE & SHRUB NOTES

- ALL EXISTING TREES AND SHRUBS NOTED ON THE PLANS TO REMAIN ARE TO BE PROTECTED DURING THE ENTIRE CONSTRUCTION PERIOD. DO NOT TRENCH ADJACENT TO TREES, (EXCEPT AS REQUIRED FOR IRRIGATION INSTALLATION) OR STORE MATERIALS UNDER TREES. FENCE OFF FROM CONSTRUCTION AT THE START OF WORK AND MAINTAIN FENCING UNTIL FINAL LANDSCAPE INSTALLATION. EXISTING TREES AND SHRUBS MUST BE IRRIGATED REGULARLY DURING CONSTRUCTION BY THE CONTRACTOR, EVEN IF THIS REQUIRES HAND WATERING SEVERAL TIMES PER WEEK. THE CONTRACTOR IS RESPONSIBLE FOR ASSURING THE EXISTING TREES AND SHRUBS SURVIVE IN GOOD FORM. EXISTING TREES OR SHRUBS THAT ARE NOTED TO REMAIN, BUT DECLINE OVER 50% OR DIE (IN THE OPINION OF THE LANDSCAPE ARCHITECT) ARE TO BE REPLACED AT THE CONTRACTOR'S COST AS FOLLOWS:
 - REPLACE IN SIZE AND KIND ANY TREES AND SHRUBS 6" AND LESS IN CALIPER MEASURED 2' ABOVE THE BASE.
 - REPLACE TREES LARGER THAN 6" IN CALIPER WITH PLANTS OF THE SAME KIND HAVING A MINIMUM DIAMETER OF 6" MEASURED 2' ABOVE THE BASE.
 - REPLACE EXISTING GROUND COVERS WITH SAME SPECIES AND CULTIVAR MATERIAL FROM FLATS @ 12" O.C.



SECONDARY SIGNAGE





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Keynotes:

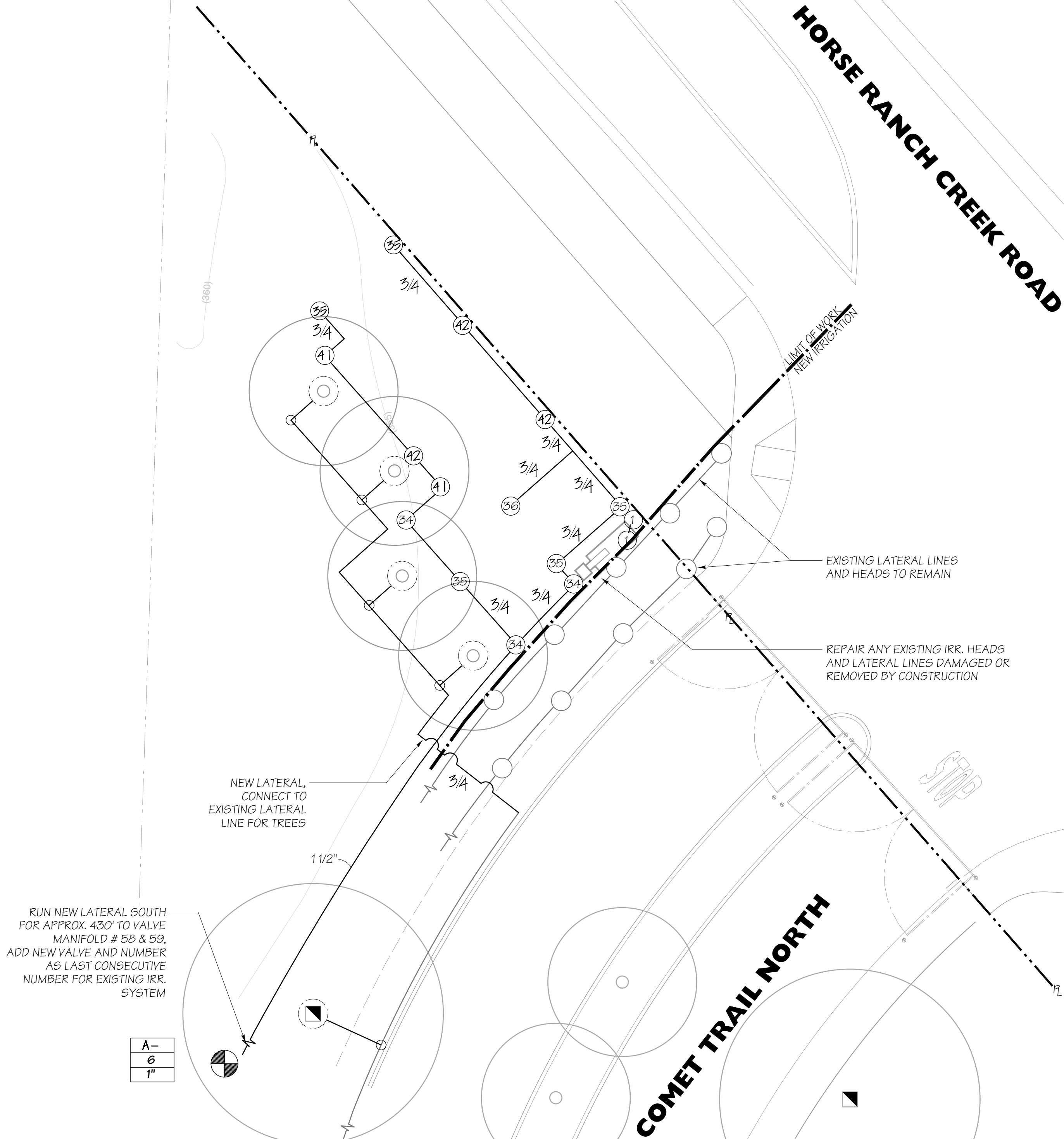
IRRIGATION LEGEND

SYM	Q	H	F	MFGR	MODEL #	GPM	RAD	PSI	DESCRIPTION
①				HUNTER	MP 800SR- 90/Q, H,	.23, 42	6'	40	ROTATOR HEAD*
②				HUNTER	MP 1000/Q, H, F	.2, 4, .75	15'	40	ROTATOR HEAD*
③				HUNTER	MP 2000/Q, H, F	.4, .75, 1.5	18'	40	ROTATOR HEAD*
⊗				WEATHERMATIC	820CR-XPR BRASS 'BRONZE BULLET' PRESSURE REGULATING REMOTE CONTROL VALVE - SIZE AS NOTED. RECTANGULAR GREEN BOX WITH RCV BRAND ON COVER				
⋈				NIBCO	N#58570 THREADED 2 PIECE BRONZE BALL VALVE - AT P.O.C. AND EACH RCV MANIFOLD - 2" AND SMALLER, 4" MAINLINE - BRONZE BALL VALVE TO BE 'APOLLO 70LF-100 SERIES - 4"				
—				PWP	PVC LATERAL - SCHEDULE 40 - BELOW GRADE - ALL PURPLE PIPE - SIZE AS NOTED				
⊗				PWP	CLASS 315 PVC SLEEVE - SIZE AS NOTED OR TWICE PIPE SIZE CARRIED WITHIN				
⊙				RAINBIRD	LD-06-12 DRIP TUBING W/4 GPH EMITTERS 12" ON CENTER. INTALL PER DETAIL L-4.0				
⊞					CONTROLLER & STATION NUMBER				
⊞					GALLONS PER MINUTE				
⊞					VALVE SIZE				

*ALL ROTATOR HEADS SHALL BE IN 12" POP-UP BODIES MINIMUM.

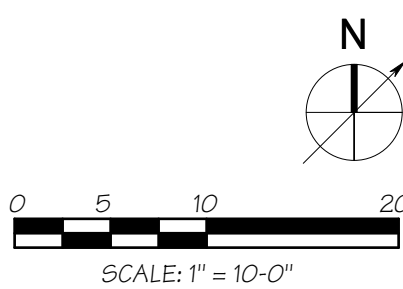
IRRIGATION NOTES

- THE WORK SHOWN ON THE IRRIGATION PLANS IS SCHEMATIC. ALL ITEMS, I.E. CONTROLLERS, VALVES, MAINLINES, SLEEVES, WIRES, IRRIGATION HEADS, PIPING, ETC. ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ONLY. DETAIL DRAWINGS AND SPECIFICATIONS WILL PROVIDE ADDITIONAL CLARIFICATION.
- THE CONTRACTOR SHALL NOT LOCATE ANY ITEMS WHERE IT IS OBVIOUS THEY ARE IN DIRECT CONFLICT WITH THE UNDERGROUND UTILITIES, STRUCTURES, PERMANENT IMPROVEMENTS OR PEDESTRIAN OR VEHICULAR SAFETY CONSIDERATIONS.
- SPRINKLER HEAD LOCATIONS ARE TO BE ADJUSTED FROM THE DIMENSIONS SCALED OFF OF THE DRAWINGS TO PREVENT OVERSPRAY ONTO WALKS AND STRUCTURES. INDIVIDUAL HEADS AND ZONES WILL BE ADJUSTED TO MINIMIZE OVERSPRAY ONTO WALLS, WALKS AND PAVEMENTS.
- NOTIFY THE LANDSCAPE ARCHITECT OF CONFLICTS BETWEEN THE PLACEMENT OF PLANT MATERIALS AND IRRIGATION HEADS, AND DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONSIDERATIONS.
- THE CONTRACTOR AND/OR OPERATOR SHALL ONLY APPLY SUFFICIENT WATER TO PROMOTE THE HEALTHY GROWTH OF THE PLANT MATERIALS. AT NO TIME SHALL THE CONTRACTOR / OPERATOR APPLY WATER AT A RATE OR FREQUENCY WHICH RESULTS IN RUNOFF OR SOIL SATURATION.
- DO NOT LOCATE TREES OR TALLER SHRUBS IN LOCATIONS WHERE THEY WILL BLOCK IRRIGATION HEADS AND PREVENT ADEQUATE COVERAGE. WHERE CALLED FOR, OBTAIN APPROVAL OF THE LANDSCAPE ARCHITECT FOR PLACEMENT OF TREES, SHRUBS OR OTHER ITEMS OF WORK.
- VALVE BOXES ARE TO BE LOCATED IN SHRUB AND GROUND COVER BEDS WHERE EVER POSSIBLE, AND AT LEAST 12" FROM THE EDGE OF THE BED.
- IRRIGATION MAINLINES AND LATERALS THAT ARE SHOWN ON THE PLAN IN PAVED AREAS ARE TO BE LOCATED IN THE ADJACENT PLANTING AREA, 6" FROM THE EDGE OF PAVEMENT.
- ALL CONTROL WIRES ARE TO BE IN CONDUIT PER SPECIFICATIONS.
- THE IRRIGATION SYSTEM SHOWN CONNECTS TO AN EXISTING IRRIGATION SYSTEM AND EXISTING MAINLINES. THE EXISTING IRRIGATION SYSTEM HAS AN APPROVED BACKFLOW PREVENTER IN PLACE.
- REPAIR ANY LANDSCAPE DAMAGED DURING CONSTRUCTION. ALSO SEE DEMOLITION NOTE #3 AND EXISTING TREE & SHRUB NOTES, SHEET L-1.0
- CONNECT NEW IRRIGATION VALVE TO EXISTING CONTROLLER. THE EXISTING SYSTEM IS A CALSENSE 2 WIRE SYSTEM. PROVIDE AND INSTALL CALSENSE DECODERS AS REQUIRED FOR VALVE TO OPERATE ON THE EXISTING SYSTEM.



SECONDARY SIGNAGE

SEE SHEET L-4.0 FOR IRRIGATION DETAILS



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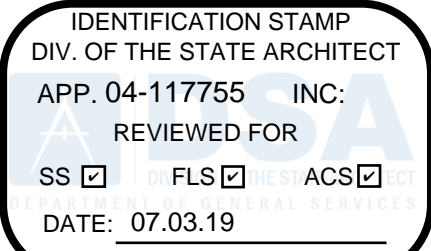
Project:
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Sheet Title:
IRRIGATION PLAN

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Date: 03.22.19 Client Project No: 5015016000
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Keynotes:

TREES LEGEND

SYMBOL	BOTANICAL NAME	LATIN NAME	SIZE	SPACING	QTY.	NOTES
	CHILOPSIS LINEARIS 'BURGUNDY'	BURGUNDY DESERT WILLOW	15 GAL.	AS SHOWN	4	MULTI-OR LOW BRANCH

SHRUBS LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	QTY.	NOTES
	CALLIANDRA CALIFORNICA	BAJA FAIRY DUSTER	5 GAL.	AS SHOWN	14	
	ROSA CALIFORNICA 'ELSIE'	CALIFORNIA WILD ROSE	15 GAL.	AS SHOWN	9	
	AGAVE PARRYI VAR. 'TRANCATA'	ARTICHOKE AGAVE	1 GAL.	18" O.C.	7	

GROUNDCOVERS

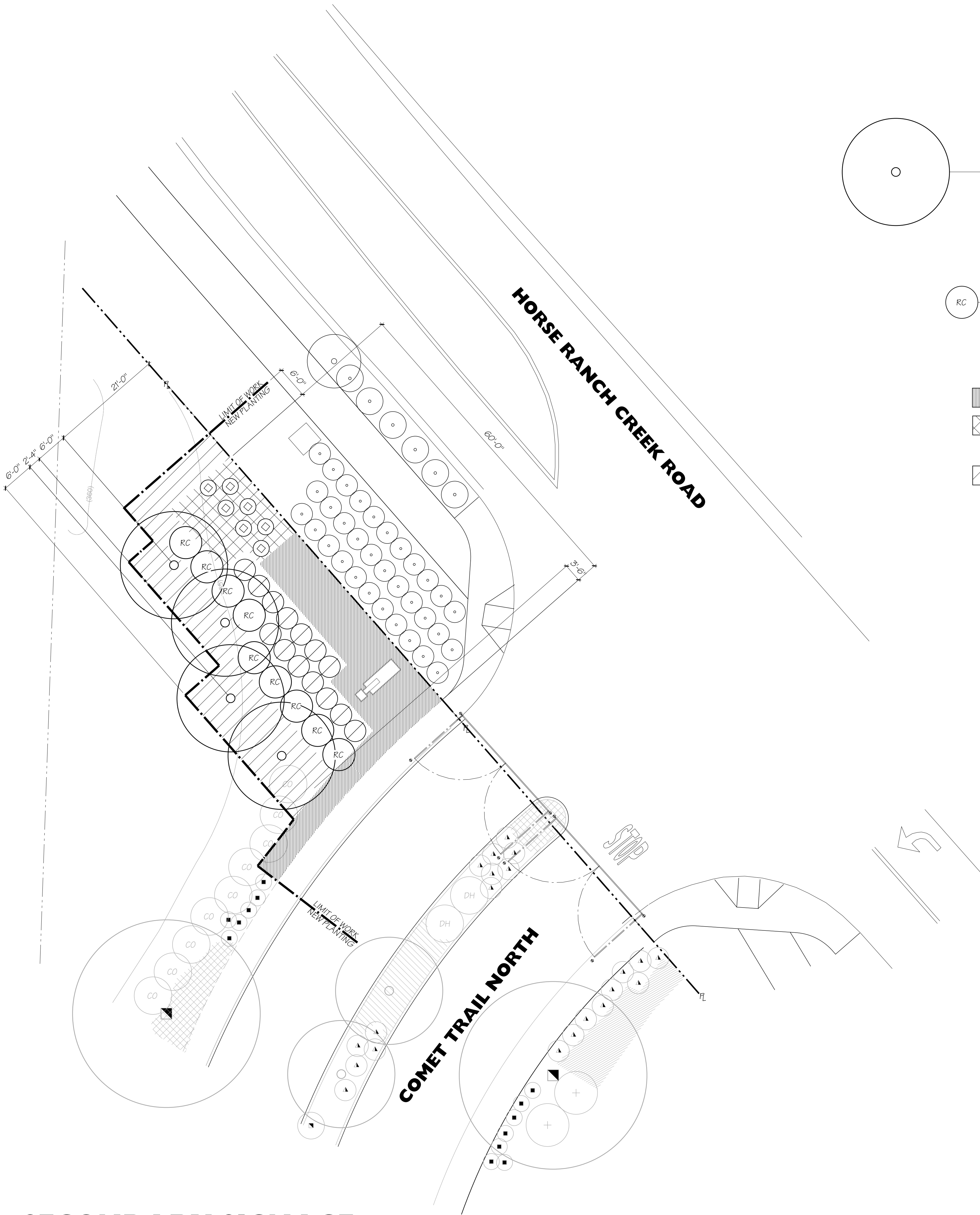
SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	QTY.	NOTES
	LESSINGIA 'SILVER CARPET'	COMMON CORETHROGYNE	1 GAL.	18" O.C.	AS NEEDED	
	SALVIA 'BEE'S BLISS'	BEE'S BLISS SAGE	1 GAL.	3' O.C.	AS NEEDED	
	3" WALK-ON-TYPE BARK CHIPS					

PLANTING NOTES

- ALL SHRUB BEDS ARE TO BE MULCHED WITH 3" WALK-ON TYPE BARK MULCH FOLLOWING PLANTING.
- QUANTITIES SHOWN ARE FOR REFERENCE ONLY. INSTALL PLANTS IN QUANTITIES AS SHOWN BY SYMBOLS ON PLAN.
- PLANTS ARE TO BE INSTALLED IN EVENLY SPACED STRAIGHT LINES AS SHOWN ON THE PLANS TO FORM HEDGES AND MASS PLANTINGS. IRREGULAR PLANT SPACING WILL NOT BE ACCEPTABLE.

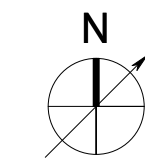
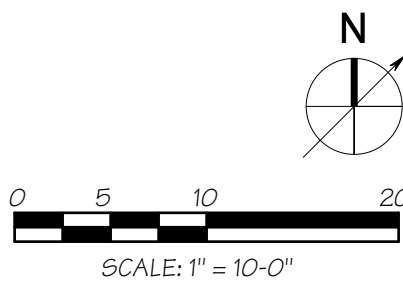
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 - REPLACE IN SIZE AND KIND ANY TREES AND SHRUBS 6" AND LESS IN CALIPER MEASURED 2' ABOVE THE BASE.
 - REPLACE TREES LARGER THAN 6" IN CALIPER WITH PLANTS OF THE SAME KIND HAVING A MINIMUM DIAMETER OF 6" MEASURED 2' ABOVE THE BASE.



SECONDARY SIGNAGE

SEE SHEET L-5.0 FOR PLANTING DETAILS



SCALE: 1" = 10'-0"

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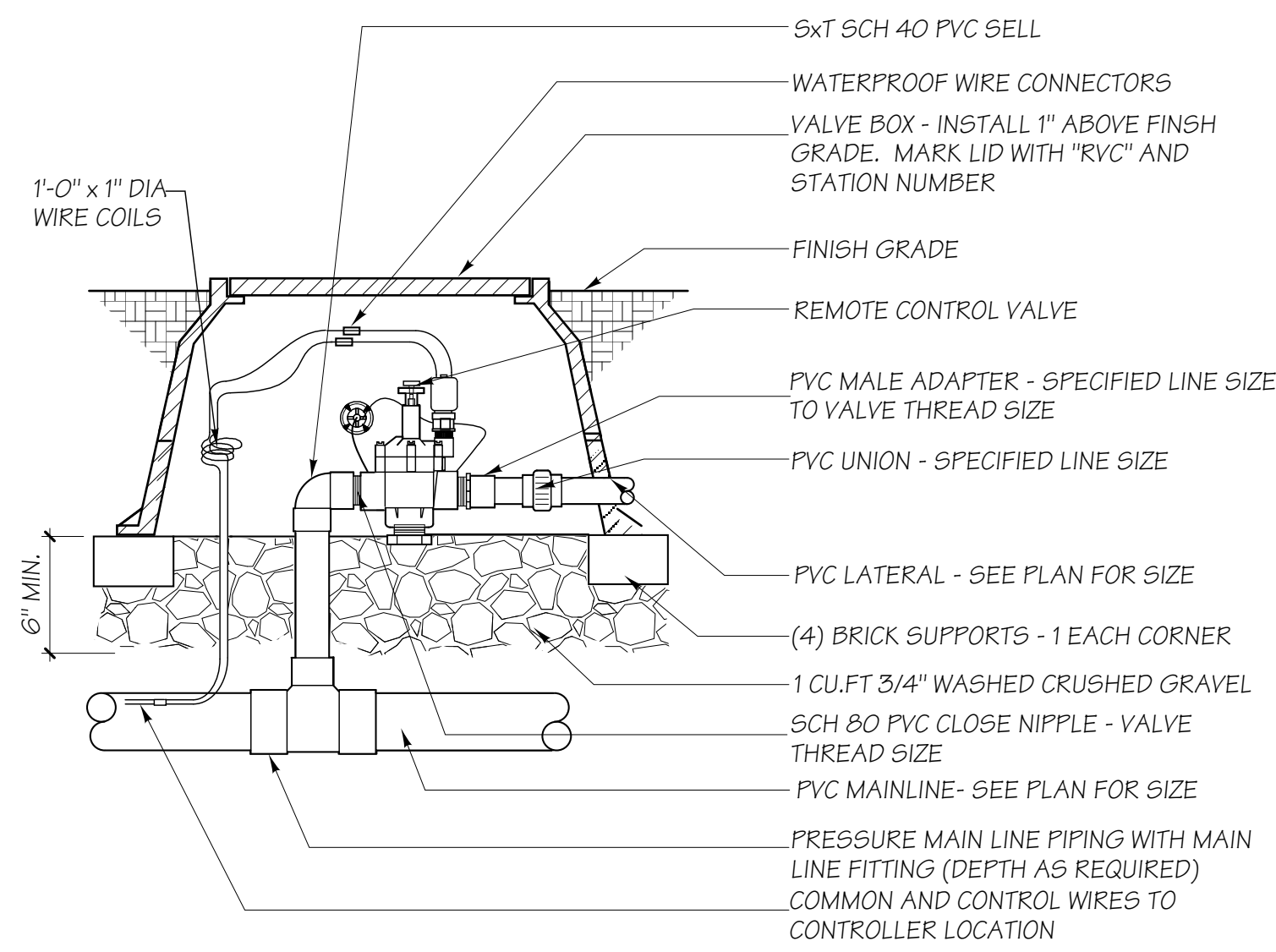
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PLANTING PLAN

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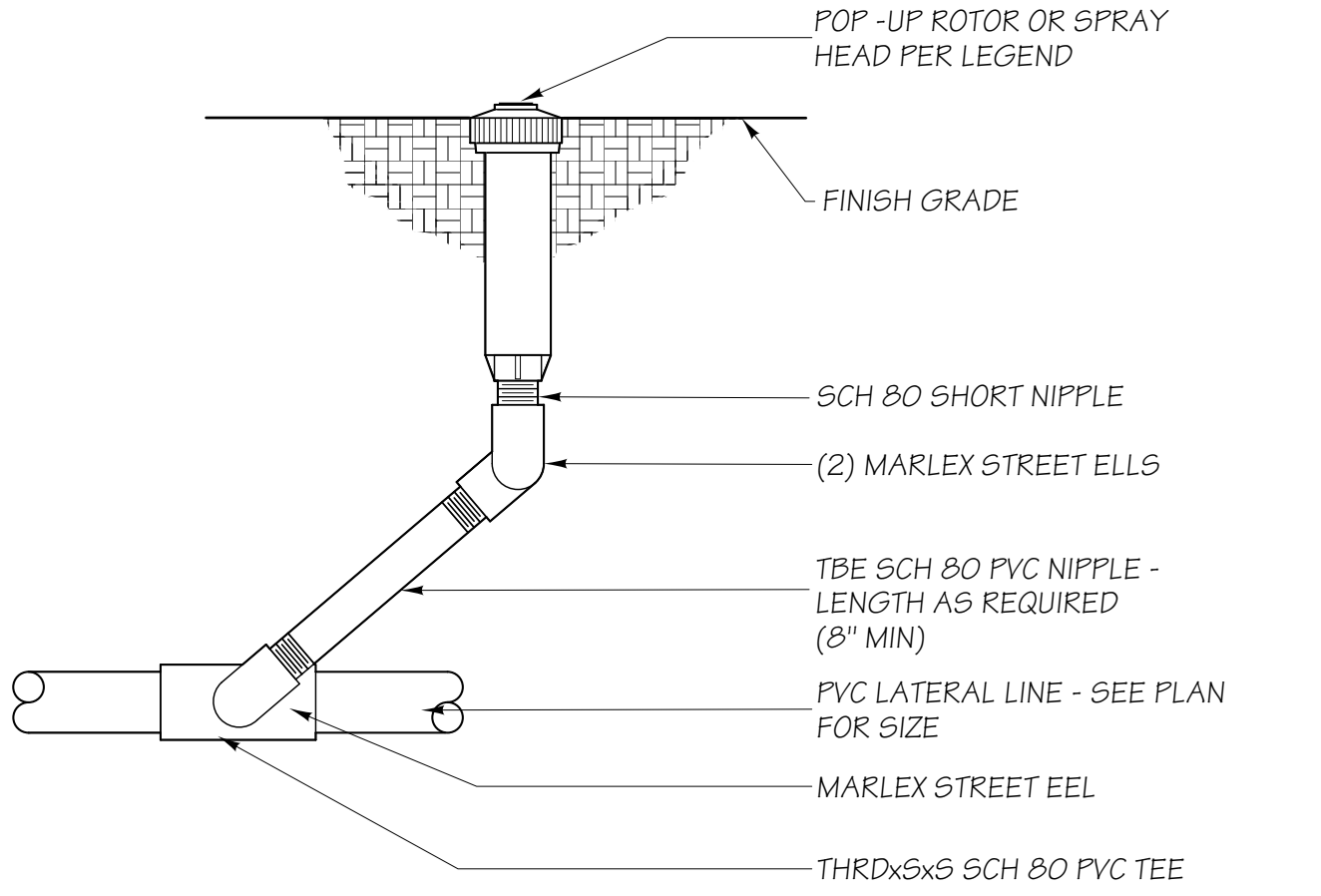
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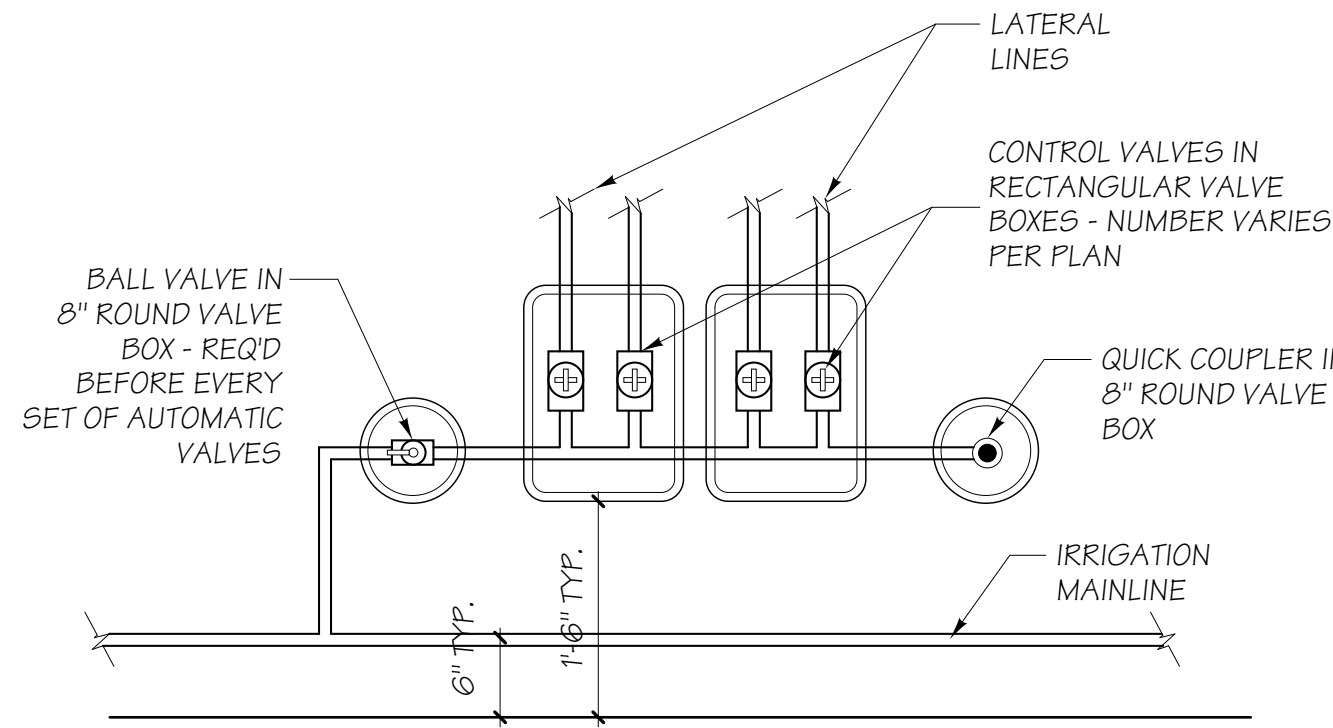
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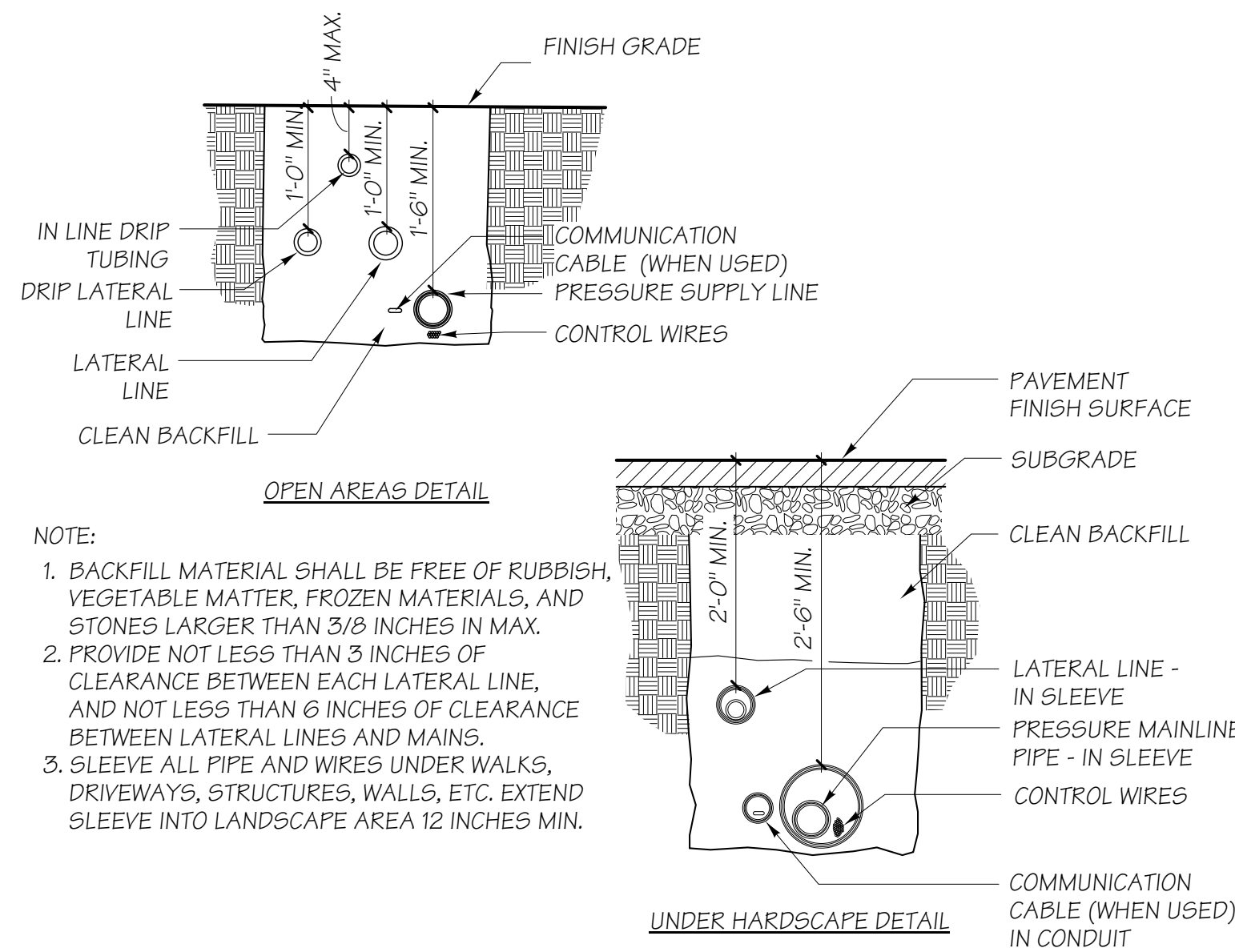
A REMOTE CONTROL VALVE DETAIL
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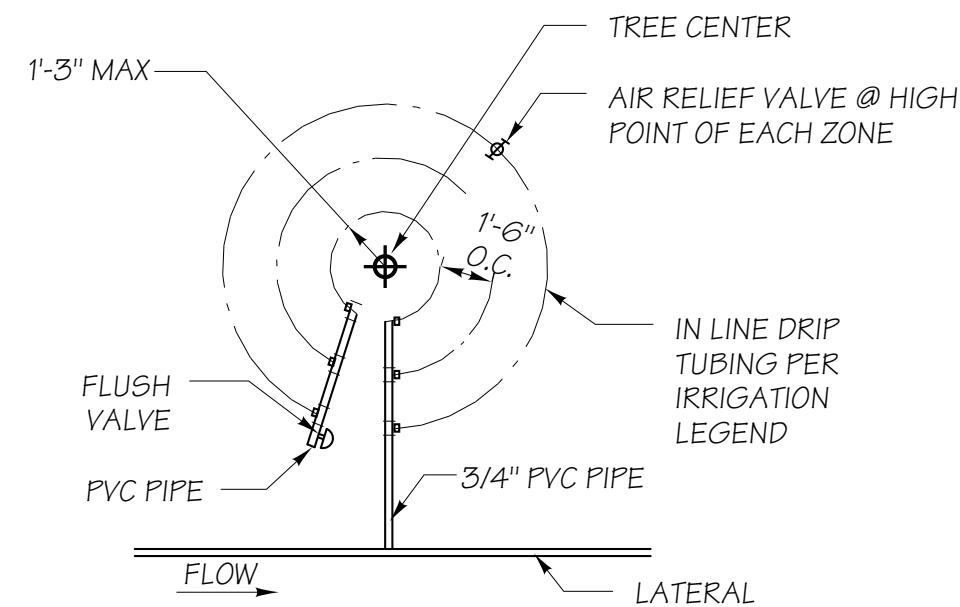
B POP-UP ROTOR OR SPRAY HEAD DETAIL
SCALE 3/4"=1'-0"



C TYPICAL VALVE MANIFOLD

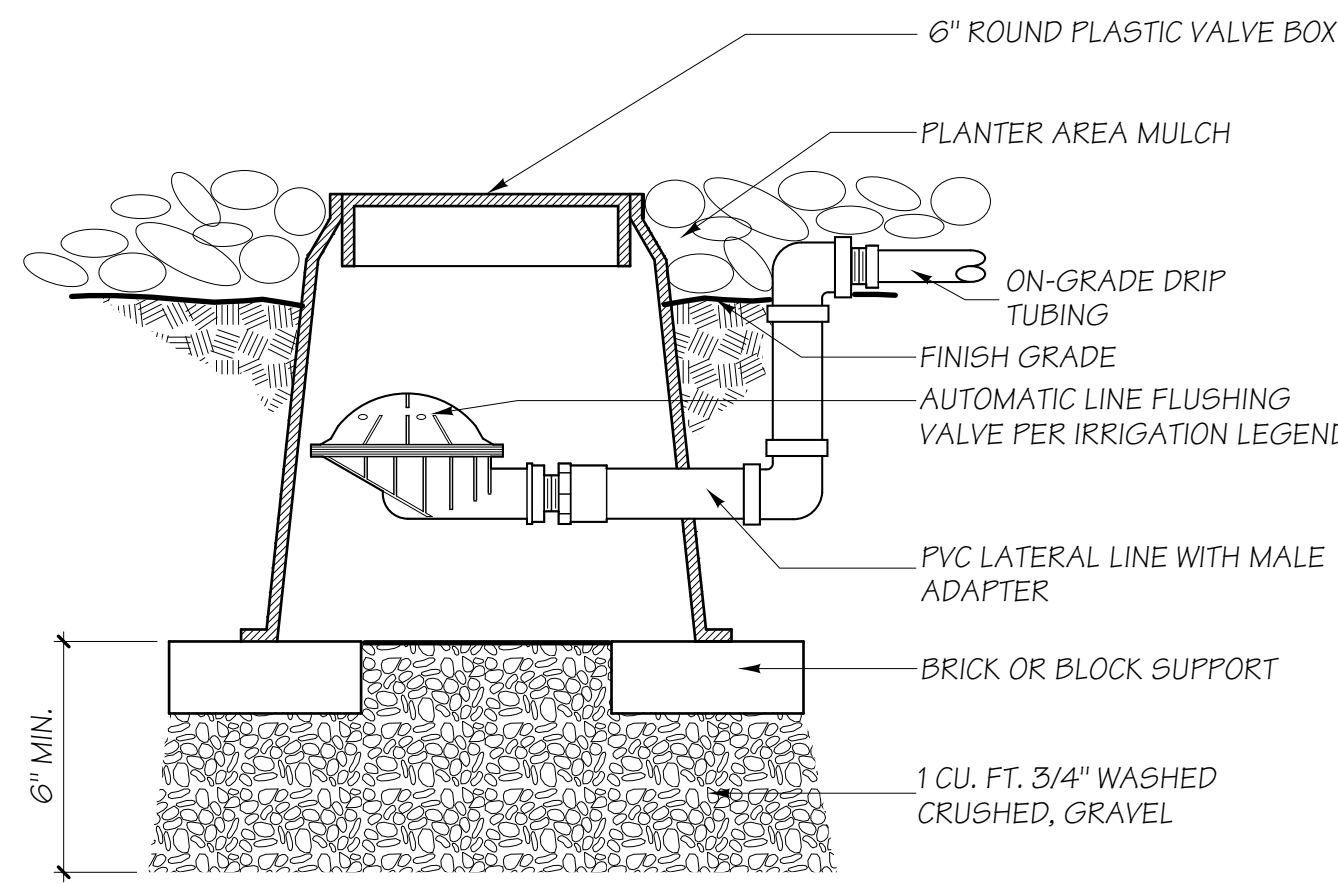


D IRRIGATION PIPE - TRENCHING
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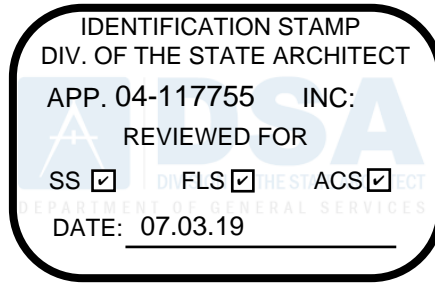


- NOTE**
1. IN-LINE TUBING IS TO BE INSTALLED ON THE SOIL SURFACE. MULCH COVER IS TO BE PLACED OVER SOIL SURFACE AFTER INSTALLATION.
 2. INSTALL AIR/VACUUM RELIEF VALVE(S) AT THE HIGHEST POINT(S) OF A ZONE AND A SELF-FLUSHING VALVE AT THE END OF EVERY IN-LINE DRIP ZONE PER MANUFACTURER'S SPECIFICATIONS
 3. TUBING TO BE 4 GPH @ 12" O.C. WITH TUBING INSTALLED AT 18" O.C.

E IN-LINE DRIP TREE IRRIGATION
NO SCALE



F FLUSH VALVE
NO SCALE



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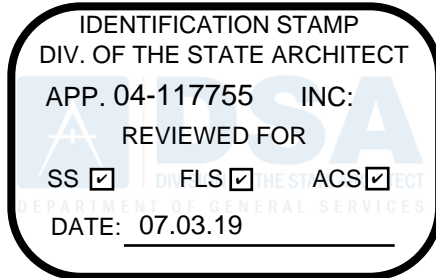
Project:
**PALOMAR COLLEGE FALLBROOK EDUCATION CENTER
MONUMENT SIGNAGE**

Sheet Title:
IRRIGATION DETAILS

DSA APPROVED SET

Date: 03.22.19 Client Project No: 5015016000
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L-4.0



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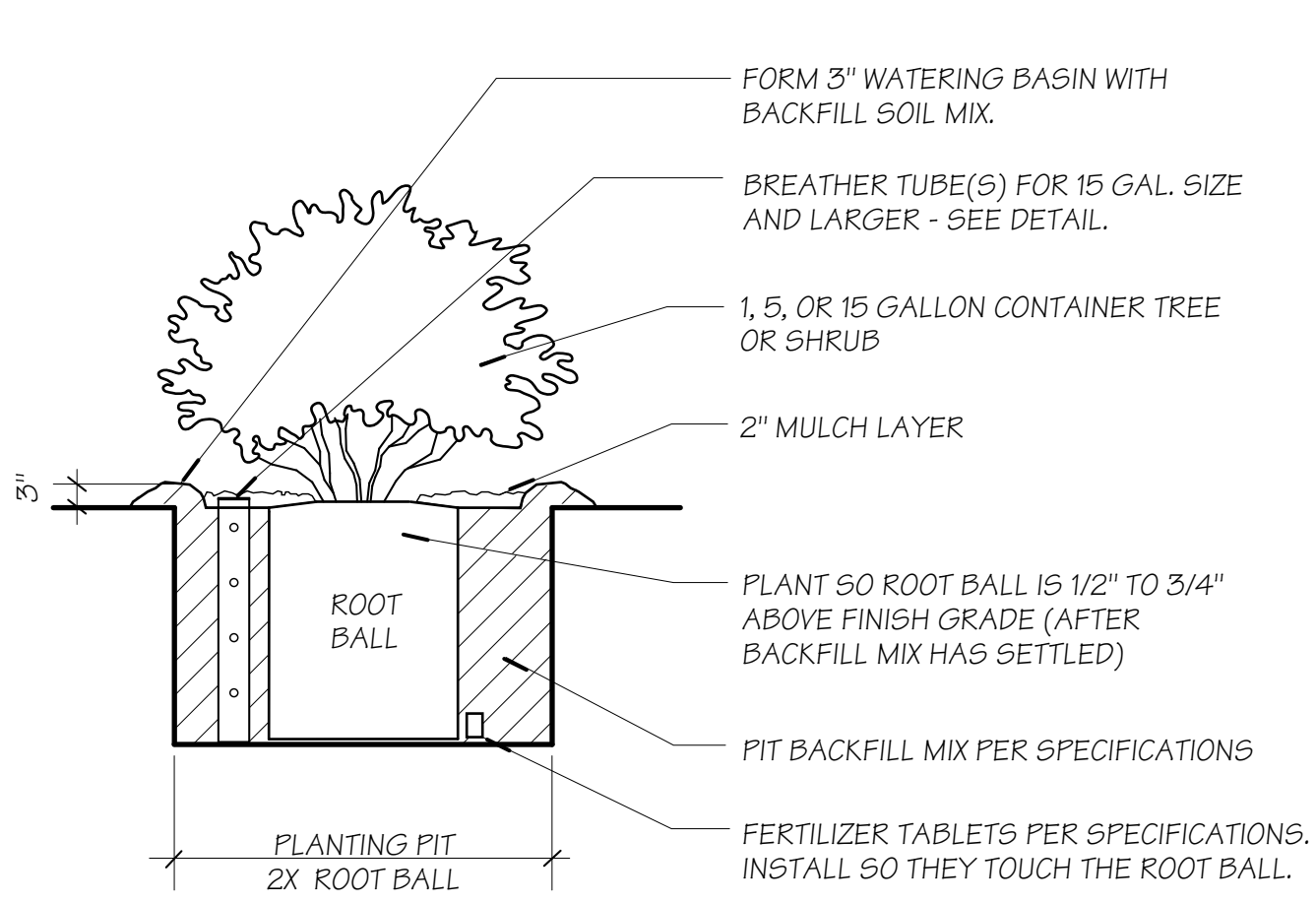
Project:
PALOMAR COLLEGE FALLBROOK EDUCATION CENTER
MONUMENT SIGNAGE

Sheet Title:
PLANTING DETAILS

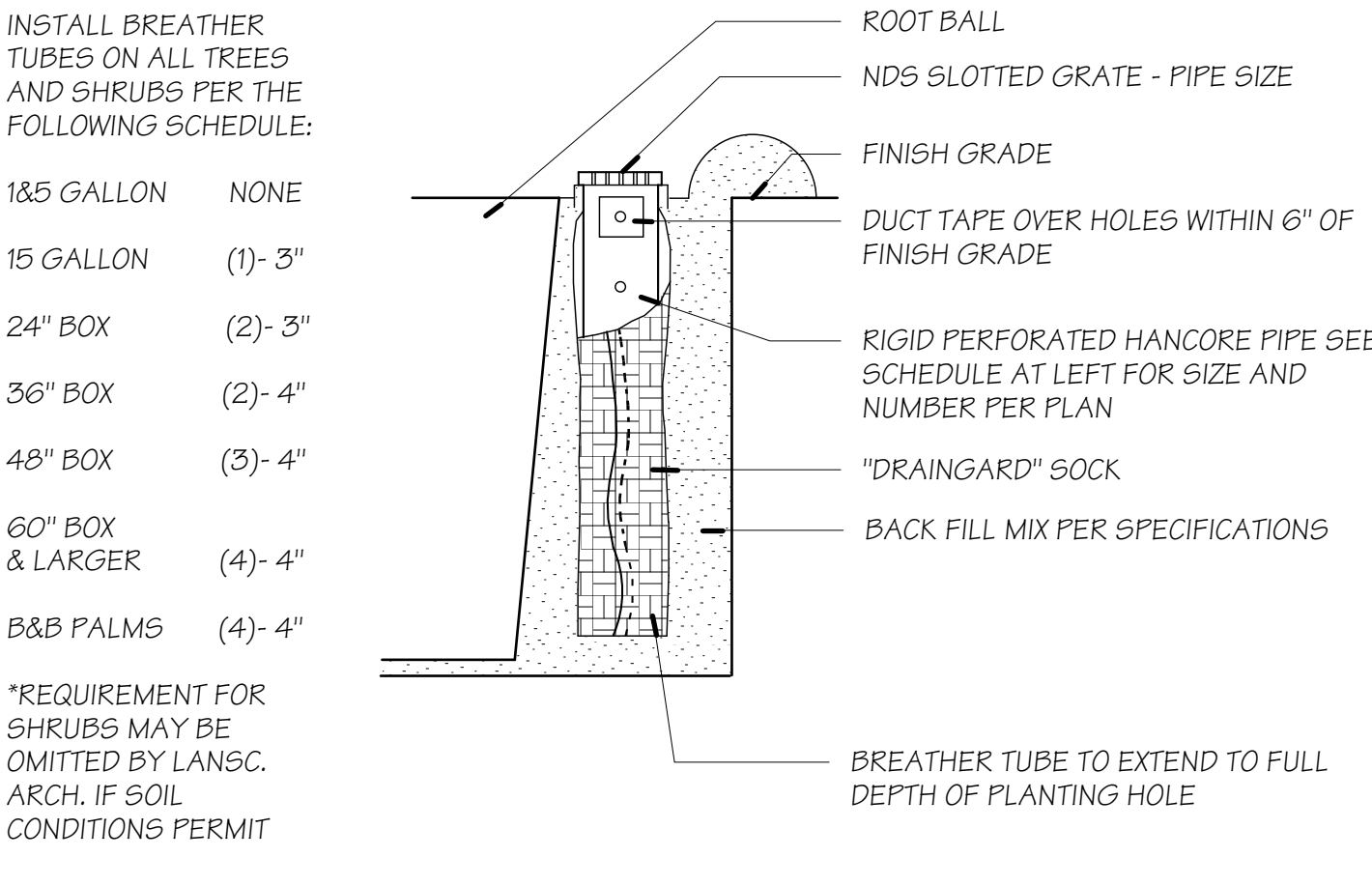
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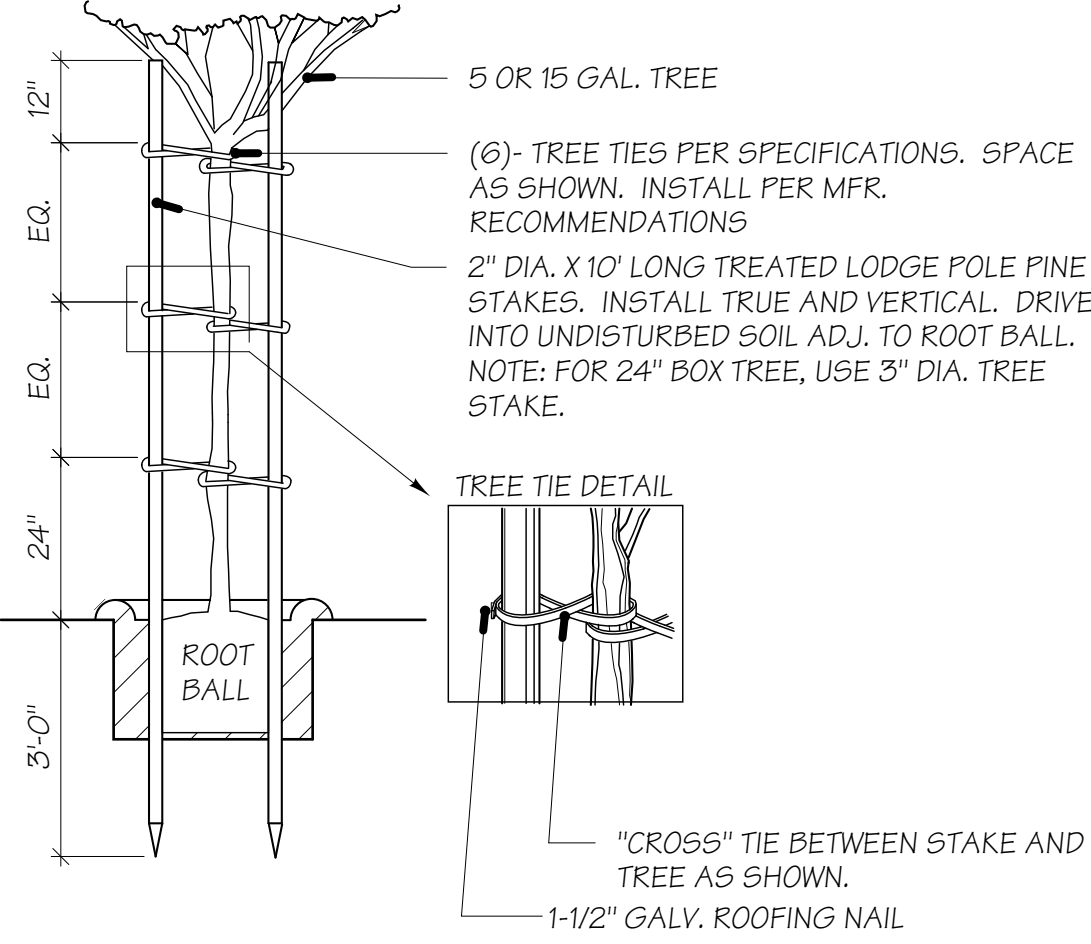
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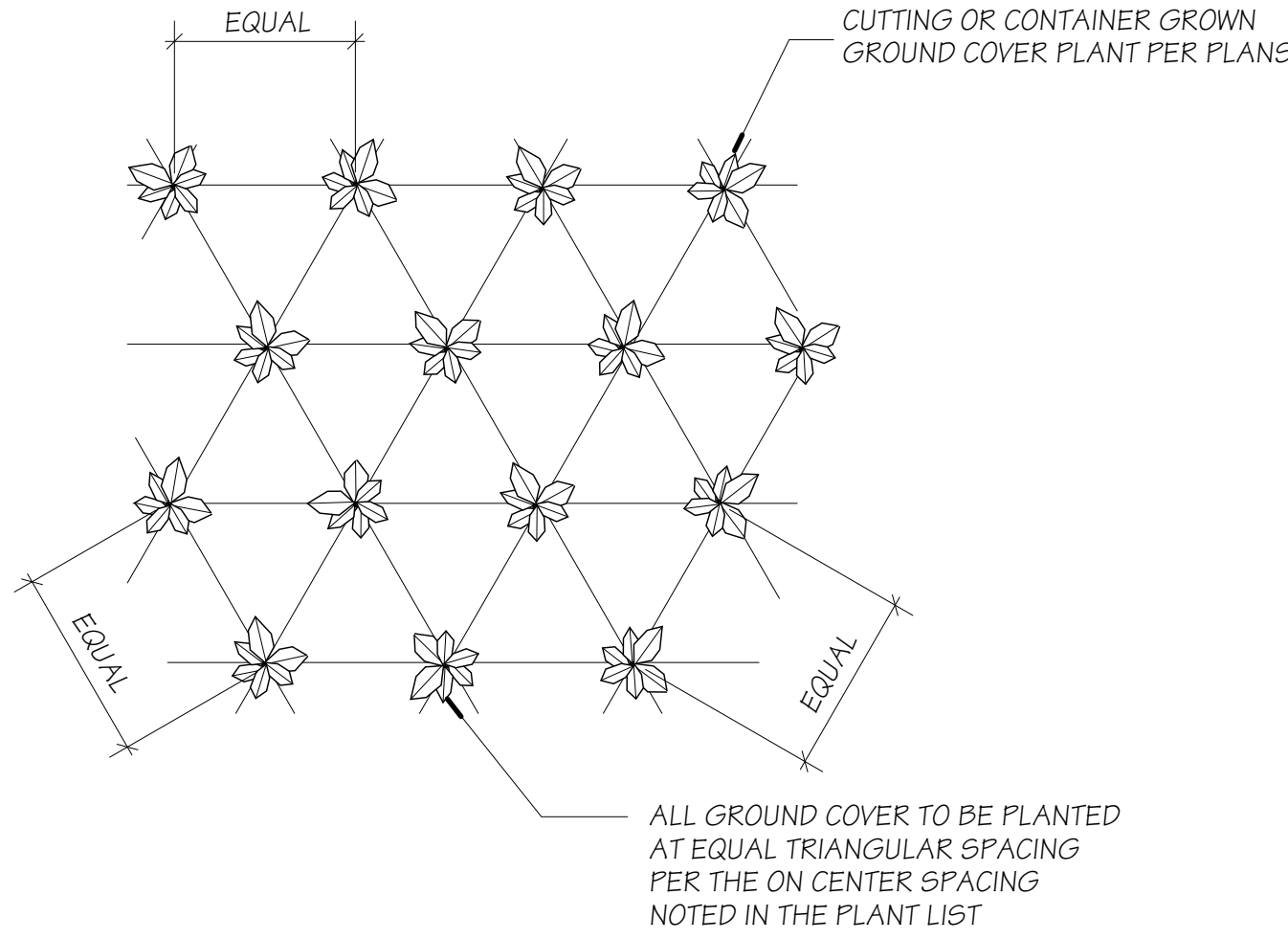
A CONTAINER PLANTING NO SCALE



B BREATHER TUBE NO SCALE



C DOUBLE TREE STAKING DETAIL NO SCALE



D GROUND COVER PLANTING NO SCALE

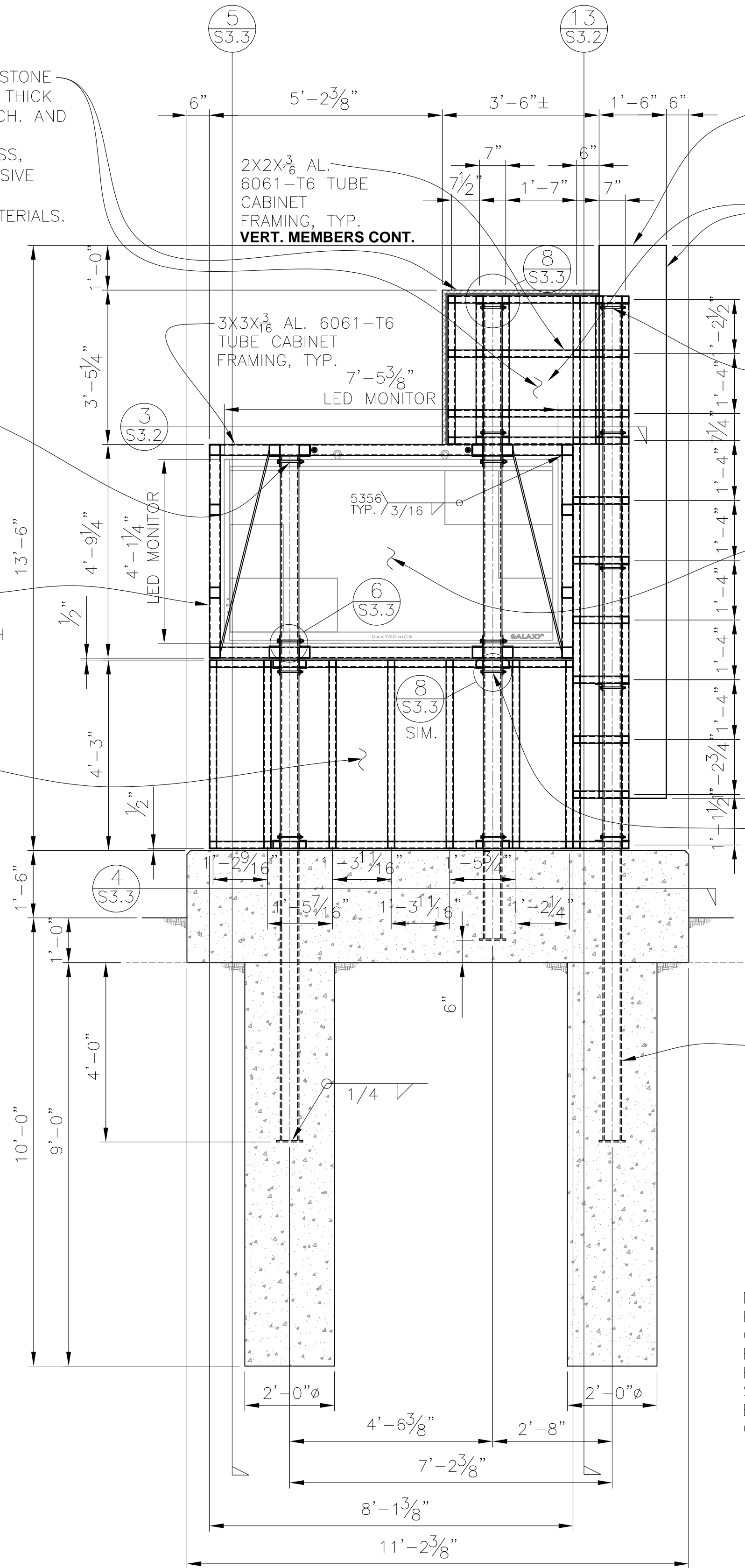
2
S3.2

3/4" TO MAX. 1 1/2" THICK STONE VENEER OVER THE 1/2" THICK CEMENT BOARD, PER ARCH. AND SIGNAGE SPECS. (TOTAL MAX. 2" THICKNESS, INCLUDING MORTAR/ADHESIVE AND CEMENT BOARD). SEPARATE DISSIMILAR MATERIALS.

FOR LED MONITOR CABINET USE 1/2" S.S. BOLT WITH L3X3X1/4 AL. 6061-T6 ANGLES ON BOTH SIDES OF HSS5X5X3/8 FOUR PLACES, AS SHOWN, TYP. (TOTAL (4) CONNECTIONS, AS SHOWN)

0.09" THICK ALUM. 5052-H34 "SKIN" OVER ALUM. TUBE FRAMING (RETURNS ONLY) WITH #10 S.S. SCREWS AT 6" O.C. ALONG EACH TUBE, TYP. (SEE SIGN ARCH PLANS FOR MORE INFO.)

1/8" THICK CORTEN "SKIN" OVER ALUM. TUBE FRAMING WITH #10 S.S. SCREWS AT 6" O.C. ALONG EACH TUBE, TYP. SEPARATE DISSIMILAR MATERIALS. (SEE SIGN ARCH PLANS FOR MORE INFO.)



FRONT ELEVATION OF SIGN-3
SCALE: 1/2"=1'-0"

1
S3.1

NOTE:
FOR THE REQUIRED ELECTRICAL CONDUITS PENETRATING THE SIGN FOUNDATION, REQUIRED ELECTRICAL BOXES INSIDE OR OUTSIDE OF THE SIGN CABINETS, ETC. REFER TO ELECTRICAL PLANS PREPARED BY OTHERS.

1 1/2X1 1/2X 3/8 AL. 6061-T6 TUBE CABINET FRAMING, TYP. SEE 3/S3.2.

0.09" THICK ALUM. 5052-H34 "SKIN" OVER ALUM. TUBE FRAMING WITH #10 S.S. SCREWS AT 6" O.C. ALONG EACH TUBE, TYP. (SEE SIGN ARCH PLANS FOR MORE INFO.)

FOR NONE LED MONITOR CABINETS 3/8" S.S. BOLT WITH L2X2X1/4 AL. 6061-T6 ANGLES ON BOTH SIDES OF HSS5X5X3/8, AS SHOWN, TYP. (TOTAL (7) CONNECTIONS, AS SHOWN)

DAKTRONICS GALAXY G6 10mm LED DISPLAY, 2V. 108x216 (4'-2"x7'-6"x7") SEE DAKTRONICS SHOP DRAWINGS # 3863490 AND SPECIFICATIONS.

FOR THE LOWER CABINET USE 3/8" S.S. BOLT WITH L2X2X1/4 AL. 6061-T6 ANGLES ON BOTH SIDES OF HSS5X5X3/8, AS SHOWN, TYP. (TOTAL (4) CONNECTIONS, AS SHOWN)

HSS5X5X 3/8 STEEL COLUMNS WITH 3/8X8X8 STEEL PLATE WELDED AT THE BOTTOM, TYP.

GENERAL STRUCTURAL NOTES FOR SIGN-3:

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO STARTING WORK AND HE SHALL NOTIFY THE ARCHITECT / STRUCTURAL ENGINEER OF ANY DISCREPANCIES OR INCONSISTENCIES.
- ALL DIMENSIONS SHOWN IN THE STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY. VERIFY ALL DIMENSIONS AND ELEVATIONS ACCORDING TO THE ARCHITECTURAL PLANS, NEW L.E.D. DISPLAY AND ALUM. CABINET SHOP DRAWINGS, AND THE EXISTING INFIELD CONDITIONS.
- THE CONTRACTOR SHALL INSTALL NEW SIGNS AT THE EXACT LOCATIONS AS INDICATED ON CIVIL ENGINEERING PLANS PREPARED BY OTHERS.
- FOR THE REQUIRED ELECTRICAL INFORMATION REFER TO ELECTRICAL PLANS PREPARED BY OTHERS.
- EXCEPT WHERE NOTED OR SHOWN IN THE PLANS OR SPECIFICATIONS, ALL PHASES OF WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF CBC-2016 (TITLE 24, PART 2), CURRENT EDITION.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND BRACING DURING CONSTRUCTION TO RESIST ALL POSSIBLE LATERAL, VERTICAL, AND UNBALANCED LOADING.
- LOADING PER CBC-2016 (TITLE 24, PART 2).

SEISMIC DESIGN CRITERIA FOR SIGN-3:

OCCUPANCY CATEGORY III
SITE CLASS D
SEISMIC DESIGN CATEGORY D
 $S_s = 1.300$; $S_{ms} = 0.867$
 $S_1 = 0.502$; $S_{m1} = 0.502$
 $I_e = 1.25$; $R = 3$ (FOR SIGNS AND BILLBOARDS)
 $V = C_s W$ $C_s = S_{ms}/(R/I_e)$

WIND DESIGN CRITERIA:

OCCUPANCY CATEGORY III
 $V = 115$ MPH (STRENGTH)
WIND EXPOSURE C
 $K_d = 0.85$; $K_{zs} = 1.0$; $K_z = 0.85$;

SOIL:

- ALL SOIL PARAMETERS ARE ACCORDING TO THE GEOTECHNICAL REPORT PREPARED BY CTE INC, JOB#: (10-14633G FOR SIGN-3), INCLUDING ADDENDUM-1.
- ALL EXCAVATIONS MUST BE INSPECTED AND APPROVED BY GTE INC AND DSA INSPECTOR, PRIOR TO PLACING REINFORCING STEEL AND CONCRETE INTO THE EXCAVATIONS.
- THE CONTRACTOR SHALL CONTACT DIGALERT PRIOR TO ANY EXCAVATION WORK.

CONCRETE:

- CONCRETE 28 DAY COMPRESSIVE STRENGTH - 4000PSI. MIXES FOR 4000 PSI CONCRETE SHALL BE DESIGNED AND SUPERVISED BY AND APPROVED TESTING LABORATORY.
- ALL MECHANICAL ANCHORS REQUIRED FOR CABINET ATTACHMENT TO CONCRETE WALLS ARE 3/8" S.S.(304) KWIK BOLT-TZ BY HILTI (ESR-1917). THE ANCHORS SHALL BE INSTALLED NO EARLIER THAN 8 DAYS AFTER THE CONCRETE HAS BEEN POURED.
- REINFORCING STEEL IN CONCRETE IN CONTACT WITH EARTH AND PLACED IN FORMS SHALL BE 2 INCHES CLEAR FROM THE CONTACT FACE, 3 INCHES CLEAR OF POURED DIRECTLY AGAINST EARTH, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR MUST REFER TO ARCH. AND SIGNAGE DRAWING SETS FOR THE INTEGRAL CONCRETE COLORS, RECESSED "COMET TRAIL & STAR" LOGO, CONCRETE EDGE CHAMFERS, SAND BLAST FINISH, ETC.

REINFORCING STEEL:

- REINFORCING STEEL FOR CONCRETE SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS OTHERWISE SHOWN.
- MINIMUM LENGTH OF LAP FOR TENSION LAP SPLICES SHALL CONFORM TO ACI STANDARD CLASS B SPLICE. SEE A/S3.1.
- ALL HOOKS AND BENDS SHALL CONFORM TO ACI STANDARD DETAILS. SEE B/S3.1

STRUCTURAL STEEL:

- FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO SPECIFICATIONS OF THE AISC-14TH EDITION, AND DSA.
- ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A992, GRADE 50, EXCEPT ANGLES, CHANNELS, AND PLATES SHALL CONFORM TO ASTM A36, U.O.N. STRUCTURAL TUBE SHALL CONFORM TO ASTM A500, GRADE B, $F_y=46$ KSI. STRUCTURAL PIPE SHALL CONFORM TO ASTM A53, GRADE B.
- ALL BOLTED CONNECTIONS SHALL BE MADE WITH A325 BOLTS AND ACCESSORIES, O.U.N. ALL BOLTS INDICATED AS SLIP CRITICAL (SL) SHALL BE INSTALLED WITH 5/16" PLATE WASHERS OVER ANY SLOTTED HOLES ACCORDING TO AISC-14TH, J3.2.
- ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS WHO ARE APPROVED BY DSA USING THE ELECTRIC SHIELDED ARC PROCESS ACCORDING TO LATEST AWS SPECIFICATIONS. E70XX ELECTRODES, WITH MIN. CVN TOUGHNESS OF 20 FT-LB @ -20°F SHALL BE USED FOR ALL WELDING.
- STRUCTURAL STEEL SHALL BE MANUFACTURED BY A LICENSED FABRICATOR WHO IS APPROVED BY DSA.
- CORROSION PROTECTION AND PAINTING OF STEEL STRUCTURE MUST BE DONE ACCORDING TO THE ARCHITECTURAL SIGNAGE SPECIFICATION DOCUMENT.
- SUBMIT SHOP DRAWINGS FOR APPROVAL, PRIOR TO FABRICATION.

DISSIMILAR MATERIALS:

- WHERE ALUMINUM ALLOY PARTS ARE IN CONTACT WITH ABSORBENT BUILDING MATERIALS LIKELY TO BE CONTINUOUSLY OR INTERMITTENTLY WET, OR DISSIMILAR MATERIALS OTHER THAN STAINLESS STEEL THE FAYING SURFACES SHALL BE PAINTED OR OTHERWISE SEPARATED IN ACCORDANCE WITH ADM 1-15.

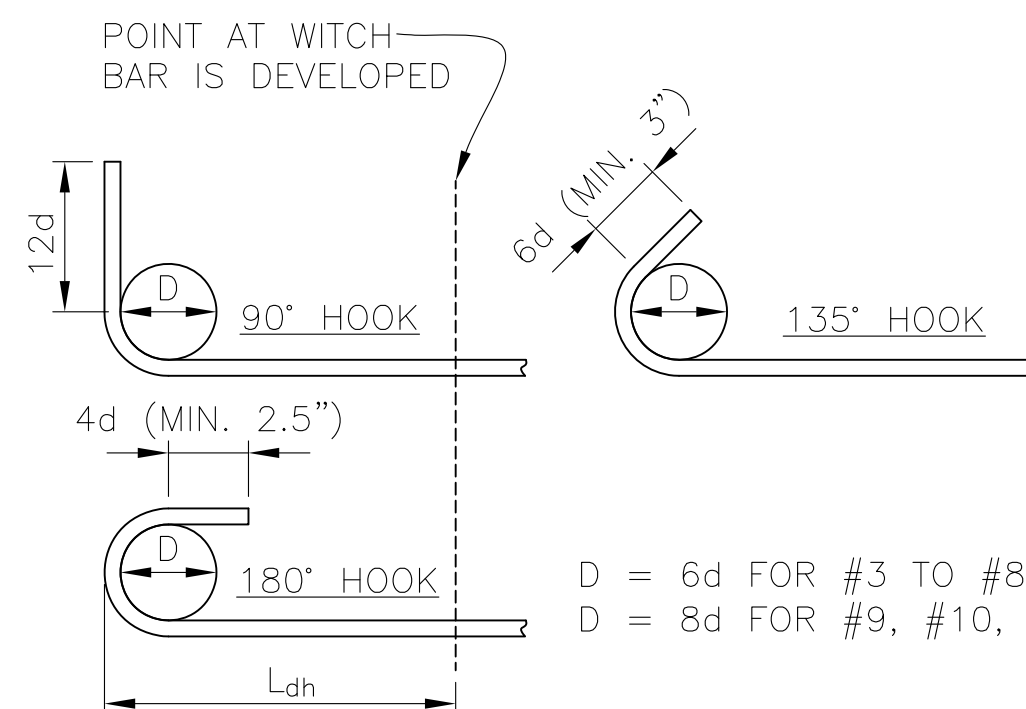
f'c (psi)	CLASS	BAR SIZE						
		3	4	5	6	7	8	9
4000	B	20"	26"	32"	38"	55"	63"	71"



TYPICAL REBAR SPLICE DETAIL
SCALE: N.T.S.

A
S3.1

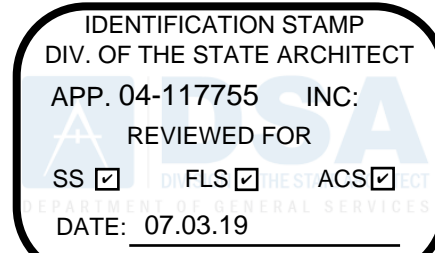
f'c (psi)	L _{dh}	HOOK DEVELOPMENT LENGTH, L _{dh}							
		3	4	5	6	7	8	9	
4000	L _{dh}	7"	10"	12"	15"	17"	19"	22"	



D = 6d FOR #3 TO #8
D = 8d FOR #9, #10, #11

TYPICAL REINFORCING BAR DETAIL
SCALE: N.T.S.

B
S3.1



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Palomar College Fallbrook Education Center
35090 Horse Ranch Creek Road
Fallbrook, CA 92028

Project:
**PALOMAR COLLEGE FALLBROOK EDUCATION CENTER
MONUMENT SIGNAGE**

Sheet Title:
STRUCTURAL DETAILS FOR SIGN-3

DSA APPROVED SET

Date: 02.01.2019 Client Project No: 5015016000

Sheet:

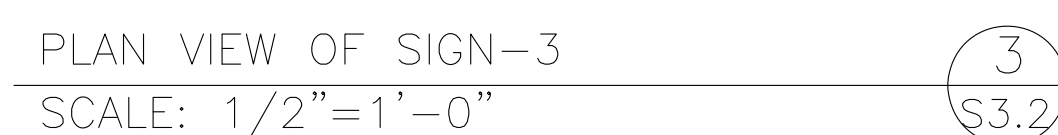
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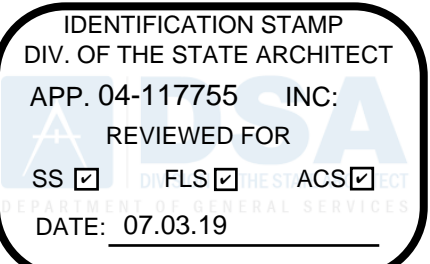
Keynotes:



Sheet:

S-3.2





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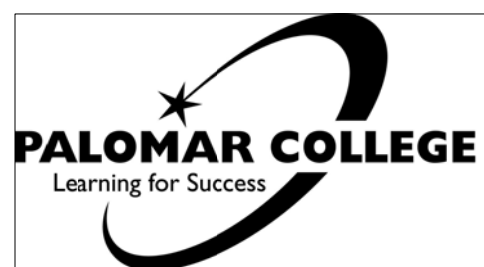
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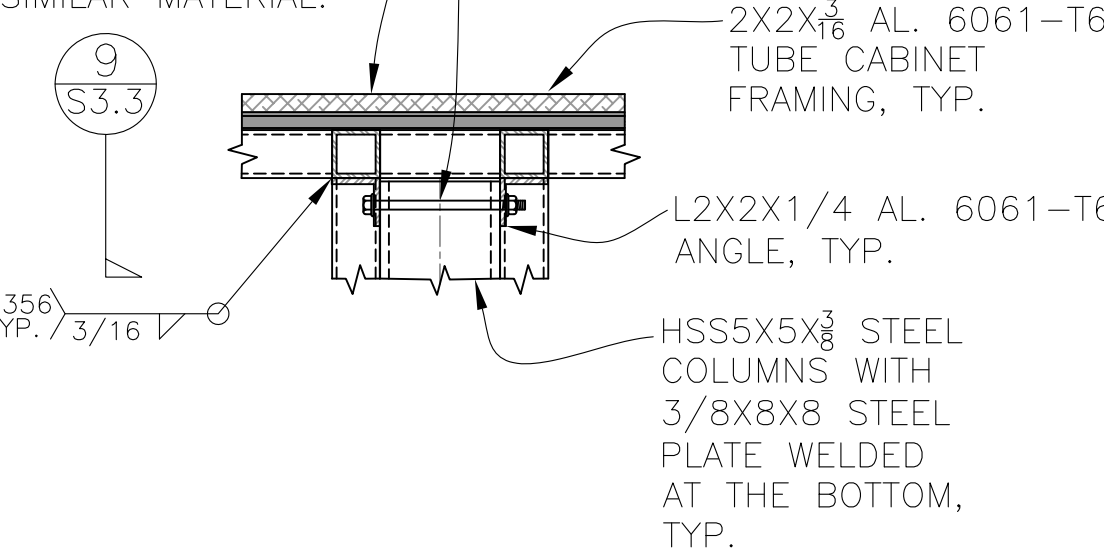
Date: 02.01.2019 Client Project No: 5015016000

Sheet:

S-3.3

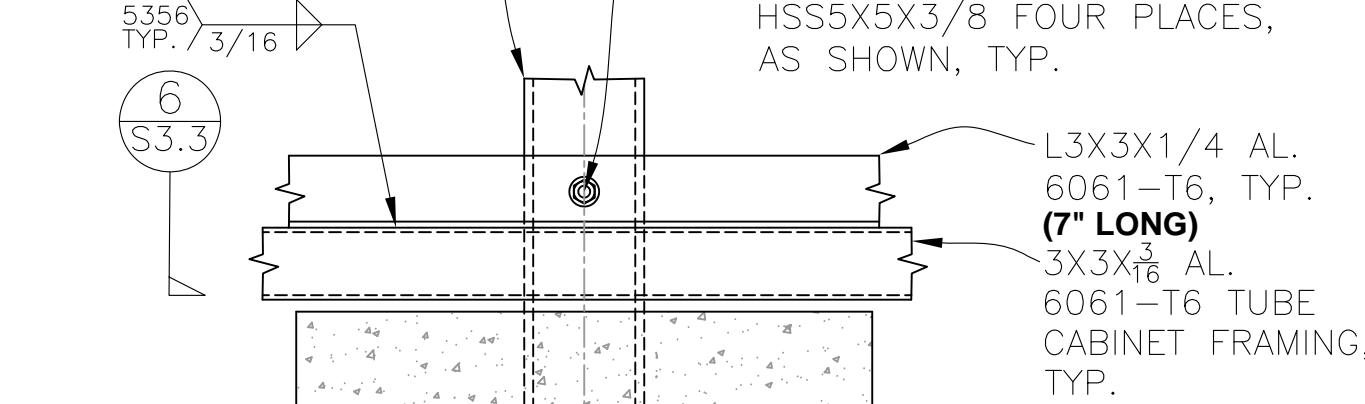
3/4" TO MAX.1 1/2" THICK STONE VENEER OVER THE 1/2" THICK CEMENT BOARD, PER ARCH. AND SIGNAGE SPECS. (TOTAL MAX. 2" THICKNESS, INCLUDING MORTAR/ADHESIVE AND CEMENT BOARD). SEPARATE DISSIMILAR MATERIAL.

FOR NONE LED MONITOR CABINETS 3/8" S.S. BOLT WITH L2X2X1/4 AL. 6061-T6 ANGLES ON BOTH SIDES OF HSS5X5X3/8, AS SHOWN, TYP.



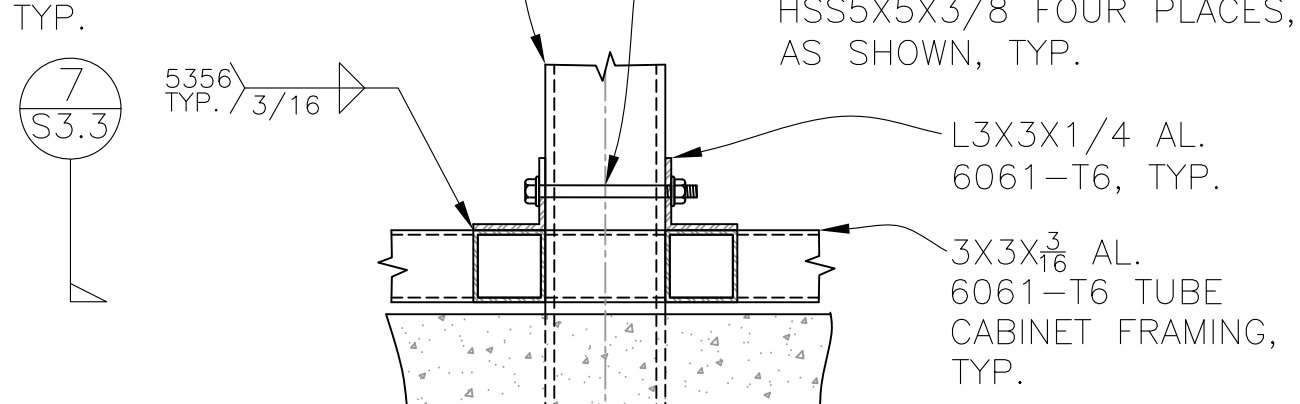
TYPICAL CONNECTION DETAIL
SCALE: 1 1/2"=1'-0"

FOR LED MONITOR CABINET USE 1/2" S.S. BOLT WITH L3X3X1/4 AL. 6061-T6 ANGLES ON BOTH SIDES OF HSS5X5X3/8 FOUR PLACES, AS SHOWN, TYP.



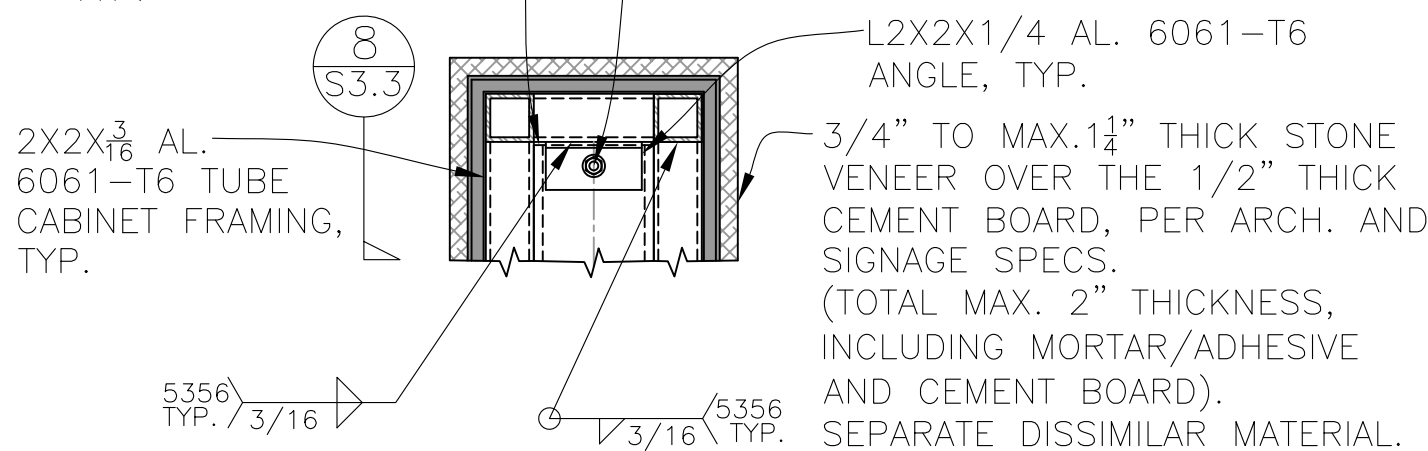
TYPICAL CONNECTION DETAIL
SCALE: 1 1/2"=1'-0"

FOR LED MONITOR CABINET USE 1/2" S.S. BOLT WITH L3X3X1/4 AL. 6061-T6 ANGLES ON BOTH SIDES OF HSS5X5X3/8 FOUR PLACES, AS SHOWN, TYP.



TYPICAL CONNECTION DETAIL
SCALE: 1 1/2"=1'-0"

FOR NONE LED MONITOR CABINETS 3/8" S.S. BOLT WITH L2X2X1/4 AL. 6061-T6 ANGLES ON BOTH SIDES OF HSS5X5X3/8, AS SHOWN, TYP.



TYPICAL CONNECTION DETAIL
SCALE: 1 1/2"=1'-0"

ACCESSES HOLE FOR THE BOLT

3X3X3/8 AL. 6061-T6 REMOVABLE HEAD BAR WITH (2) 3/8" S.S. BOLTS, FOR INSTALLING THE MONITOR, TYP.

3/8" S.S. BOLT

L2X2X1/4 AL. 6061-T6 ANGLE CLIP.

TYPICAL CONNECTION DETAIL
SCALE: 1 1/2"=1'-0"

DAKTRONICS GALAXY G6 10mm LED DISPLAY, 2V. 108x216 (4'-2"x7'-6"x7") SEE DAKTRONICS SHOP DRAWINGS # 3863490 AND SPECIFICATIONS.

HSS3X3X1/4 TOP & BOTT. HORIZONTAL MONITOR SUPPORTS, WELDED TO VERTICAL L6X3 1/2 X 3/8 STEEL ANGLES, TYP. (TOTAL (4) HSS3X3X1/4, TWO PER EACH MONITOR.)

L6X3 1/2 X 3/8 (V) STEEL ANGLE WITH 3/8" THREADED HOLES TO ACCEPT THE (4) 3/8" S.S. BOLTS, TYP. (TWO L6X3 1/2 X 3/8 (V) STEEL ANGLE PER EACH LED MONITOR)

3X3X3/8 AL. 6061-T6 TUBE CABINET FRAMING, TYP.

ACCESSES HOLE FOR THE BOLT

(4) 1/2" A307 BOLT ALONG EACH TOP AND BOTTOM HSS3X3X1/4

(4) 3/8" S.S. BOLTS WITH S.S. WASHERS THROUGH THE ACCESS HOLE, BEING BOLTED TO THREADED HOLES ON L6X3 1/2 X 3/8 STEEL ANGLE, TYP.

TYPICAL CONNECTION DETAIL
SCALE: 1 1/2"=1'-0"

(5) #4 TIES WITH 3" HOOKS (PER B/S3.1) AT 3" O.C. AROUND (6) #4(V) BARS AND HSS COLUMN, TYP.

#4 U-BARS AT 6" O.C., WITH 26" LONG LEGS PER A/S3.1, TYP.

#4(H) AT 6" O.C. ON EA. FACE, TYP.

#4(V) AT 10" O.C. ON EA. FACE, TYP.

HSS5X5X3/8 STEEL COLUMNS WITH 3/8X8X8 STEEL PLATE WELDED AT THE BOTTOM, TYP.

FTG PLAN SECTION OF SIGN-3
SCALE: 1/2"=1'-0"

9/16" HOLE FOR 1/2" S.S. BOLTS FOR CABINET ATTACHMENT, TYP.

HSS5X5X3/8 STEEL COLUMNS WITH 3/8X8X8 STEEL PLATE WELDED AT THE BOTTOM, TYP.

#4(H) AT 6" O.C. ON EA. FACE, TYP.

#4 CLOSED TIES WITH 3" HOOKS (PER B/S3.1) AT 10" O.C. TYP.

NOTE: ALUMINUM CABINETS ARE NOT SHOWN FOR CLARITY.

(5) #4 TIES WITH 3" HOOKS (PER B/S3.1) AT 3" O.C. AROUND (6) #4(V) BARS AND HSS COLUMN, TYP.

(4) #7(H) TOP & BOTTOM; WITH STANDARD HOOK AT BOTH ENDS (PER B/S3.1), TYP.

26" HOOKS

2'-6" GRADE BEAM

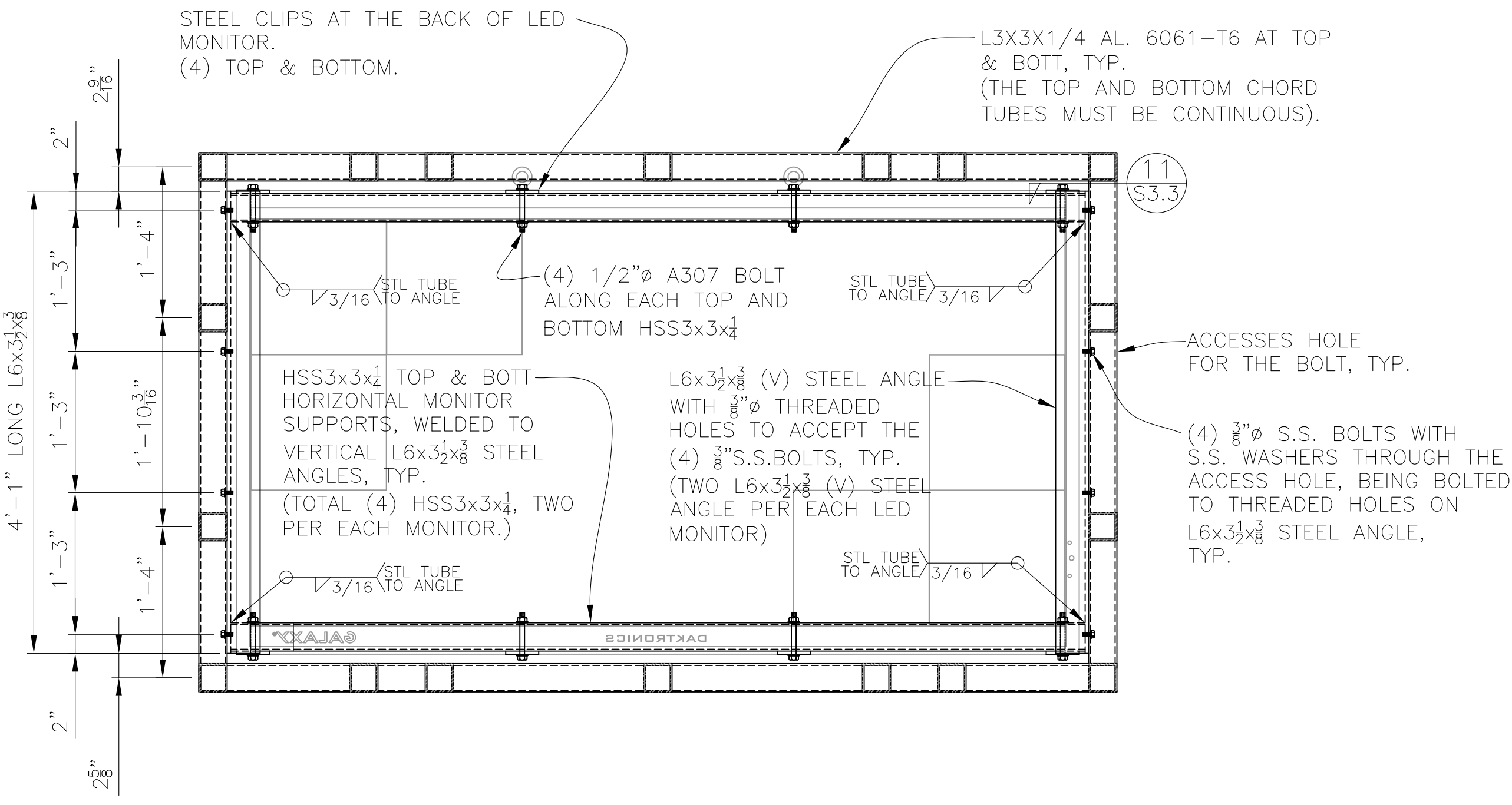
3" CVR. TYP.

(8) #7(V) WITH STANDARD HOOK AT THE TOP (PER B/S3.1); AND WITH #3 SPIRAL WITH 3" O.C. PITCH, TYP.

3" CVR. TYP.

2'-0" 3'-8"

FTG SIDE ELEVATION OF SIGN-3
SCALE: 1/2"=1'-0"



REAR VIEW OF LED MONITOR CONNECTION WITH ALUM. CABINET
SCALE: 1"=1'-0"

ABBREVIATIONS

A	AMPERE (AMPS)
AC	ALTERNATING CURRENT
AF	AMPS-FRAME (RATING)
AIC	AMP INTERRUPTING CURRENT
AM	AMMETER
AS	AMP SWITCH (FUSED SWITCH RATING)
AT	AMPS-TRIP (RATING)
AWG	AMERICAN WIRE GAUGE
BC	BAKE COPPER
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CO	CONDUIT ONLY
CT	CURRENT TRANSFORMER
CU	COPPER
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DWG	DRAWING
EX	EXISTING
FLA	FULL LOAD AMPS
FVR	FULL VOLTAGE REVERSING
FVNR	FULL VOLTAGE NON-REVERSING
GFI	GROUND FAULT INTERRUPTER
GND/GND	GROUND
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HZ	HERTZ
KW	KILOWATT
LCL	LONG CONTINUOUS LOAD
LRS	LOCKED ROTOR AMPS
LTS	LIGHTING
MCC	MOTOR CONTROL CENTER
MCM (KCM)	THOUSAND CIRCULAR MILS
MECH	MECHANICAL
NC	NORMALLY CLOSED
NF	NON-FUSED
NO	NORMALLY OPEN/NUMBER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
P	POLE
PH	PHASE
POC	POINT OF CONNECTION
PRS	PVC COATED RIGID STEEL (CONDUIT)
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE DUCT
SWBD	SWITCHBOARD
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLT
VA	VOLT-AMPERES
VM	VOLTMETER
VL	VERIFY LOCATION
W	WIRE/WATTS
WP	WEATHERPROOF (NEMA TYPE 3R)
WT	WATERTIGHT
XP	EXPLOSION PROOF (RATED FOR AREA HAZARD)

ELECTRICAL SYMBOL LEGEND

DISTRIBUTION EQUIPMENT

—◀▶—	DRAW OUT TYPE EQUIPMENT
◀—□—▶	VACUUM CIRCUIT BREAKER, RATING AS NOTED.
◀—□—▶	AIR INTERRUPTER SWITCH AND FUSE
—/—	AIR INTERRUPTER
—□—	FUSE
—⚡—	POWER TRANSFORMER, RATING AS NOTED
◀—□—▶	POWER CIRCUIT BREAKER DRAWOUT
—□—	AUTOMATIC TRANSFER SWITCH, SEE SCHEDULE
(A)	AMMETER
(V)	VOLTMETER
—□—	CIRCUIT BREAKER
200AF	200AMP FRAME
200AT	200AMP TRIP
3P	3 POLE
10000AIC	10000 AMPS INTERRUPTING CURRENT
—□—	FUSED SWITCH
200AS	200AMP SWITCH
200AF	200AMP FUSE
3P	3 POLE
(M)	UTILITY COMPANY METER

POWER CONTINUED

—□—	DUPLEX RECEPTACLE, FLOOR MOUNTED
—□—	DUPLEX RECEPTACLE, WALL MOUNTED, 18" AFF. (UON.)
—□—	RECEPTACLE, WALL MOUNTED HORIZONTALLY, 18" AFF. (UON.)
—□—	FOURFLEX RECEPTACLE, WALL MOUNTED, 18" AFF. (UON.)
—□—	RECEPTACLE MOUNTED 4' ABOVE COUNTER BACKSPASH SEE ARCHITECTURAL PLANS FOR REQUIRED MOUNTING HEIGHT PRIOR TO ROUGH-IN.
—□—	PROVIDE (2) DUPLEX RECEPTACLE CEILING MOUNTED LOCATE ADJACENT TO PROJECTOR FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
—□—	SINGLE RECEPTACLE, WALL MOUNTED 18" AFF. (UON.)
—□—	SINGLE RECEPTACLE (CLOCK HANGER TYPE) WALL MOUNTED 1'-0" AFF. (UON.)
—□—	SWITCH CONTROLLED DUPLEX RECEPTACLE 18" AFF. (UON.)
—□—	DUPLEX GROUND FAULT INTERRUPTING RECEPTACLE 18" AFF. (UON.)
—□—	DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT 18" AFF. (UON.)
—□—	DUPLEX RECEPTACLE IN WEATHERPROOF ENCLOSURE 18" AFF. (UON.)
—□—	DUPLEX RECEPTACLE IN WEATHERPROOF 'LOOKING' ENCLOSURE 18" AFF. (UON.) (SEE TYPICAL DETAILS E3 SERIES SHEETS AND SPECIFICATIONS FOR REQUIRED TYPE).
—□—	DUPLEX RECEPTACLE (ORANGE) ISOLATED GROUND WALL MOUNTED 18" AFF. (UON.)
—□—	FOURFLEX RECEPTACLE (ORANGE) ISOLATED GROUND WALL MOUNTED 18" AFF. (UON.)
—□—	JUNCTION BOX, FLOOR MOUNTED
—□—	JUNCTION BOX, CEILING OR WALL MOUNTED
—□—	HAND DRYER CONNECTION, SEE ARCHITECTURAL FOR MOUNTING HEIGHT.
—□—	FUSED DISCONNECT SWITCH, WHERE SHOWN NF = NON-FUSED.
—□—	MANUAL MOTOR STARTER 18" AFF. OR ON EQUIPMENT (UON.)
—□—	MOTOR CONNECTION, NUMERAL INDICATES HORSEPOWER.
—□—	MECHANICAL EQUIPMENT TAG (SEE MECHANICAL DRAWINGS FOR DESCRIPTION)
—□—	CONDUIT AND WIRE, CONCEALED IN CEILING OR WALL
—□—	CONDUIT AND WIRE, CONCEALED IN OR UNDER FINISHED FLOOR OR UNDER FINISHED GRADE.
—□—	FLEXIBLE CONDUIT CONNECTION
—□—	BRANCH CIRCUIT HOMERUN TO PANEL, SLASHES INDICATE NUMBER OF CONDUCTORS, EQUIPMENT GROUND WIRE NOT INDICATED UON. 1/2 CONDUCTORS ARE MINIMUM, NO HASH MARKS = MIN (2) 1/2
—□—	3/4" CONDUIT STUBBED FROM DEVICE TO ABOVE ACCESSIBLE CEILING
—□—	BRANCH CIRCUIT HOMERUN, NUMBER INDICATES INCREASED CONDUCTOR SIZE, CONDUCTORS SHALL REMAIN AS INDICATED FOR SIZE THROUGHOUT THE ENTIRE CIRCUIT.
—□—	PANELBOARD, SURFACE MOUNTED.
—□—	PANELBOARD, RECESSED
—□—	STEP-DOWN TRANSFORMER
—□—	DISTRIBUTION SWITCHBOARD
—□—	SURFACE MOUNTED RACEWAY SINGLE SECTION SERIES, NON METALLIC (WHITE)
—□—	SURFACE MOUNTED RACEWAY TWO SECTION SERIES, NON METALLIC (WHITE)
—□—	SURFACE MOUNTED RACEWAY THREE SECTION SERIES, NON METALLIC (WHITE)

MEP COMPONENT ANCHORAGE NOTE:

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A1.18 THROUGH 1616A1.26 AND ASCE 7-10 CHAPTER 13, 16 AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
- MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.3.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A1.23, 1616A1.24 AND 1616A1.25 AND 1616A1.26.

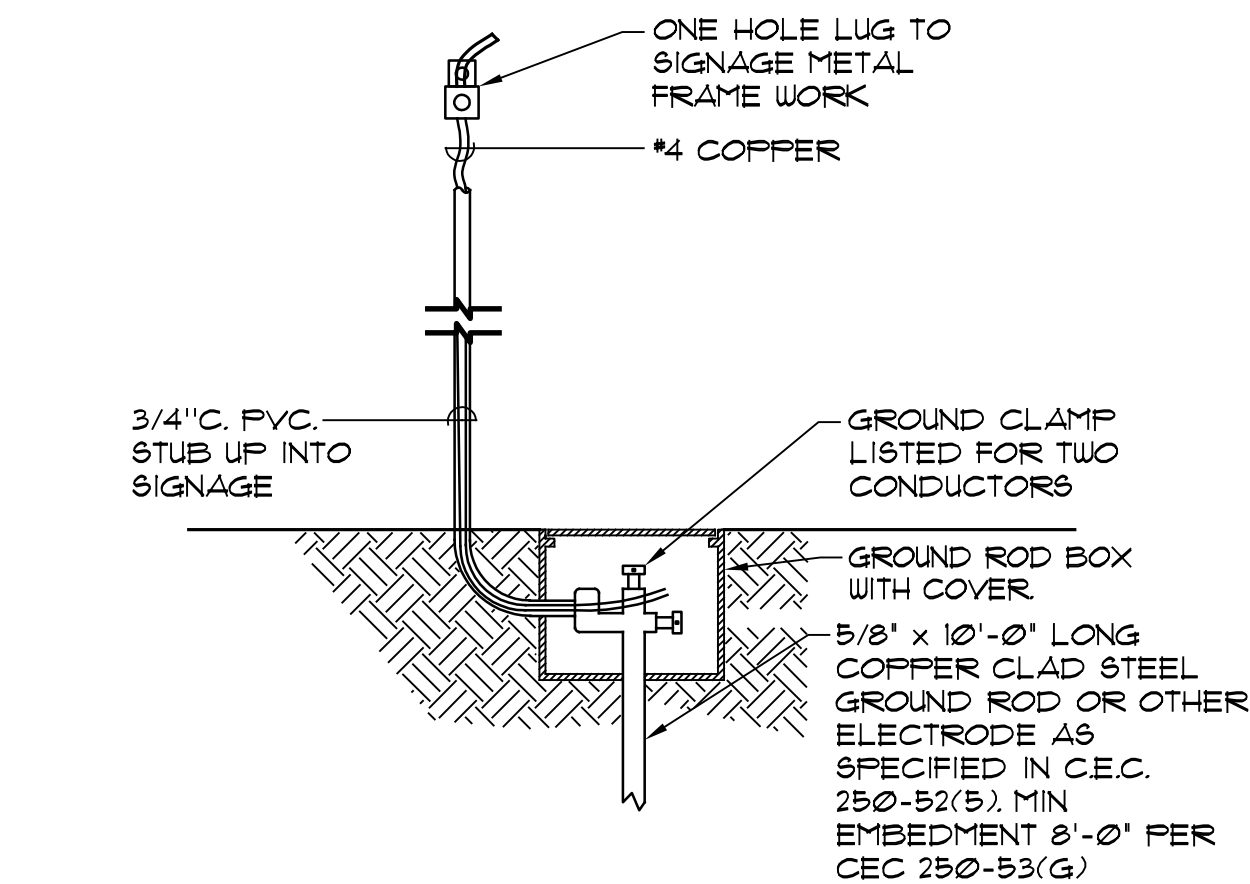
THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. SMACNA OR OSHPD OFM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEM (E).

MF0MD0PP0E0 - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MF0MD0PP0E0 - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM)*.

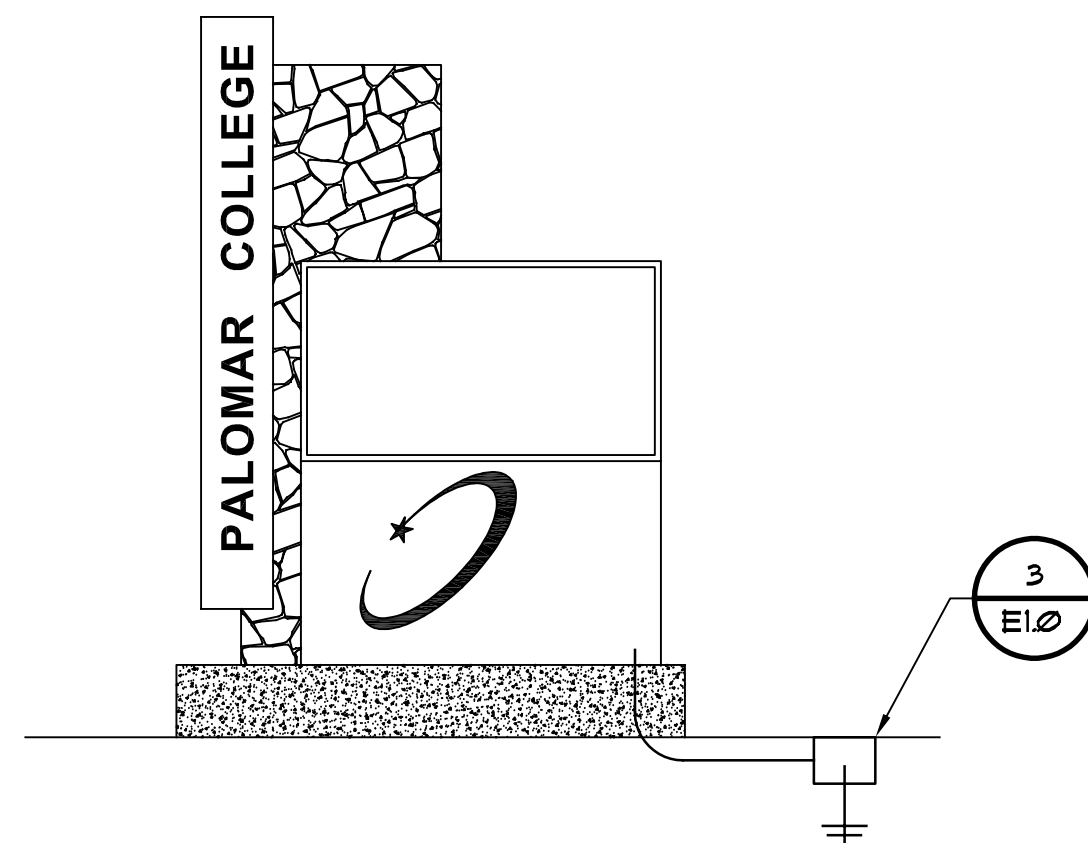
MF0MD0PP0 - OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA, FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL AND CONNECTION LEVEL. _____ FOR THE PROJECT AND CONDITIONS.



SIGNAGE GROUNDING DETAIL

NO SCALE

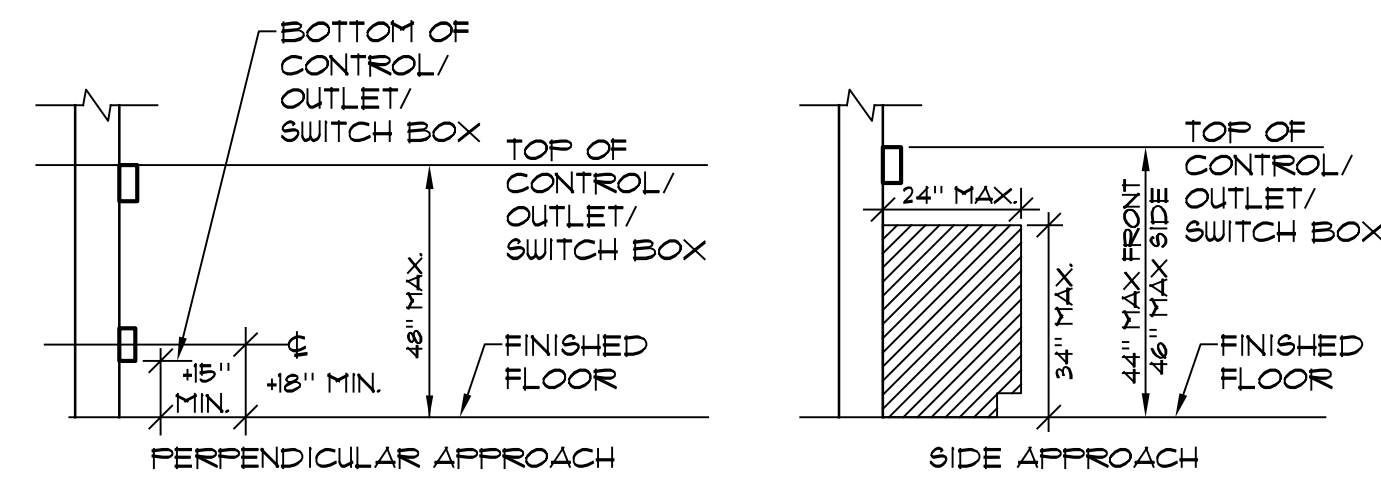
3
E10



MONUMENT SIGNAGE GROUNDING DETAIL

NO SCALE

2
E10

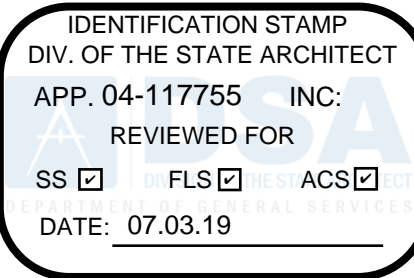


NOTE: MAINTAIN MINIMUM 30"x48" CLEAR FLOOR SPACE AT EACH APPROACH.

MOUNTING HEIGHT OVER OBSTRUCTION

NO SCALE

1
E10



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Keynotes:

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Project:
**PALOMAR COLLEGE FALLBROOK EDUCATION CENTER
MONUMENT SIGNAGE**

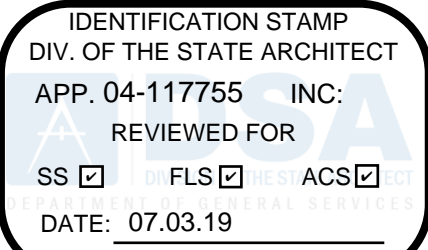
Sheet Title:
ELECTRICAL LEGEND &
NOTES

DSA APPROVED SET

Date: 02.01.2019 Client Project No: 5015016000

Sheet:

E1.0



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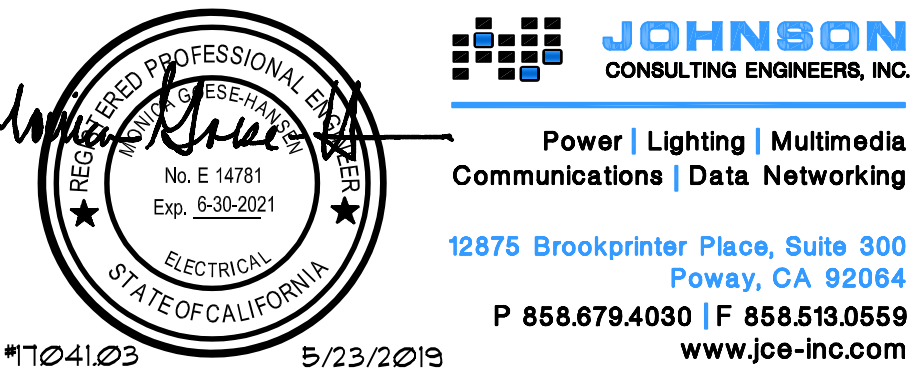
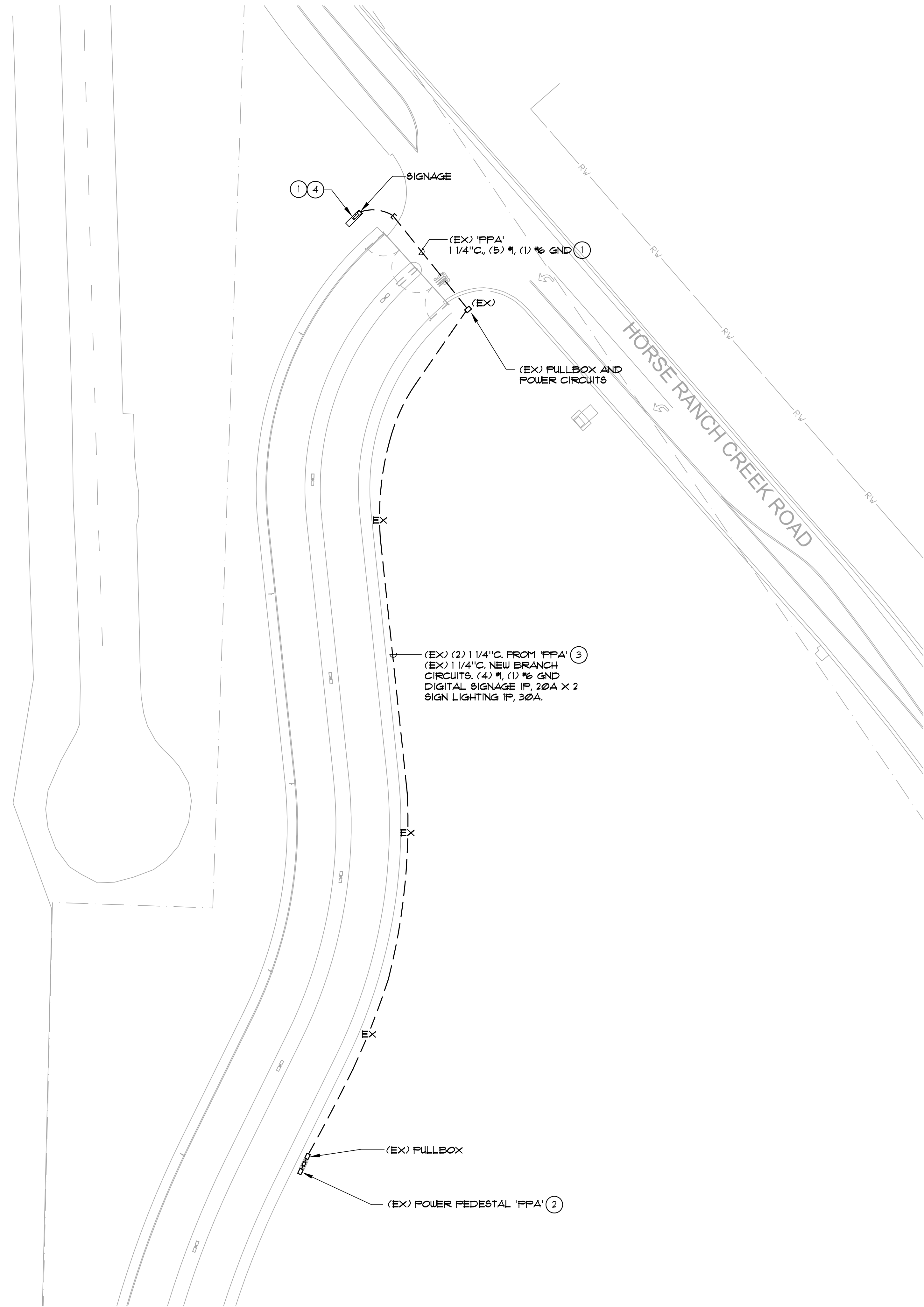
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KEY NOTES:

- EXTEND EXISTING POWER CONDUIT(S) INTO NEW SIGNAGE. PROVIDE NEW POWER CIRCUITS AS SHOWN. PROVIDE DISCONNECT MEANS AS REQUIRED.
- DISCONNECT AND REMOVE (1) EXISTING 1P, 20A CIRCUIT BREAKER. PROVIDE (1) 1P, 30A CIRCUIT BREAKER. MATCH EXISTING TYPE AND RATING.
- PROVIDE NEW BRANCH CIRCUITS IN EXISTING 1 1/4" C. BRANCH CIRCUIT WIRING AS SHOWN.
- COORDINATE WITH SIGN CONTRACTOR FOR EXACT CONDUIT STUB-UP LOCATION.



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Sheet Title:
SITE PLAN

DSA APPROVED SET

Date: 02.01.2019 Client Project No: 5015016000

Sheet:

SITE PLAN 1
1/32" = 1'-0"

Please Recycle

E1.1

TELECOM LEGEND

SYMBOL	DESCRIPTION
	NOTE CALLOUT
	DETAIL CALLOUT - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN
	BUILDING NUMBER
	UNDERGROUND CONDUIT
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	CONDUIT WITH CAP
	TELECOMMUNICATIONS PULLBOX

TELECOM GENERAL NOTES

- ALL TELECOMMUNICATIONS WORK SHALL COMPLY WITH THE LATEST EDITION OF THE PALOMAR COLLEGE TELECOMMUNICATIONS INFRASTRUCTURE STANDARDS AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL CODES. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS, THE DOCUMENTS SHALL GOVERN BUT THE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.
- IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS AND/OR SPECIFICATIONS OR WITH CODE REQUIREMENTS, THE NOTE SPECIFICATION OR CODE WHICH PRESCRIBES AND ESTABLISHES THE MORE COMPLETE JOB OR THE HIGHER STANDARD SHALL PREVAIL.
- OMISSIONS FROM THE DRAWINGS OR SPECIFICATIONS OR THE MISDESCRIPTION OF DETAILS OF WORK WHICH ARE CLEAR AND NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS AND SPECIFICATIONS, OR WHICH ARE CUSTOMARILY PERFORMED, SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMITTED OR MISDESCRIBED DETAILS OF THE WORK BUT THEY SHALL BE PERFORMED AS IF FULLY AND CORRECTLY SET FORTH AND DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL CHECK ALL DRAWINGS FURNISHED IMMEDIATELY UPON THEIR RECEIPT AND SHALL PROMPTLY NOTIFY THE OWNER OF ANY DISCREPANCIES.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE UNDERWRITERS LABEL (UL) AND SHALL BE INSTALLED IN THE MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
- THE CONTRACTOR SHALL NOT BORE, NOTCH OR IN ANYWAY CUT INTO ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT OR STRUCTURAL ENGINEER.
- FOR PURPOSES OF CLARITY AND LEGIBILITY THE TELECOM DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC. THE SIZE AND LOCATION OF EQUIPMENT IS SHOWN TO SCALE WHEREVER POSSIBLE. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, DATA INFORMATION AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATION SECTIONS WHERE TELECOM WORK INTERFACES WITH OTHER TRADES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILING TILE INCLUDING REPLACEMENT OF BROKEN OR DAMAGED TILES.
- ALL LOCATIONS PASSING THROUGH A FIRE OR A SMOKE BARRIER MUST BE FIRE STOPPED USING APPROVED (UL CLASSIFIED) FIRE STOP MATERIAL INSTALLED, PER THE MANUFACTURERS INSTRUCTIONS.
- CONDUIT SHALL BE FILLED TO MAXIMUM CAPACITY (PER STANDARD) BEFORE UTILIZING ANOTHER VACANT CONDUIT.
- EACH OSP CABLE SHALL BE EQUIPPED WITH A PERMANENT LABEL INDICATING CABLE TYPE, PAIR OR OPTIC COUNTS, DISTANT END AND CABLE LENGTH. BOTH ENDS SHALL OF EACH CABLE SHALL BE SO LABELED.
- FIBER CABLE SHALL BE PLACED WITH SIX METER (6) MAINTENANCE LOOP AT BOTH ENDS OF THE RUN. THE MAINTENANCE LOOP SHALL BE SECURED IN SUCH A MANNER TO PROVIDE PROTECTION DURING SUBSEQUENT CABLE PULLS.
- ANY DEVIATIONS FROM PLANS OR SPECIFICATIONS MUST BE APPROVED IN WRITING BY THE ENGINEER AND DISTRICT REPRESENTATIVE.
- ALL WORK MUST BE COMPLETED IN A NEAT AND PROFESSIONAL MANNER. THE WORK SITE SHALL BE KEPT CLEAN AND ALL DAMAGE TO DISTRICT PROPERTY REPAIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING A FINAL CLEANUP OF THE WORK SITE PRIOR TO FINAL SYSTEM ACCEPTANCE.
- ALL FOOTAGES ON DRAWINGS ARE ESTIMATED AND MUST BE VERIFIED BY CONTRACTOR PRIOR TO ORDERING MATERIAL.
- ALL CABLE TRAYS, LADDER RACKS, CONDUIT, EQUIPMENT RACKS, PROTECTOR PANELS, AND CABLE SHEATHS SHALL BE BONDED & GROUNDED TO EQUIPMENT GROUND WITH #6 WIRE.
- PULL ROPES SHALL BE PLACED IN ALL VACANT CONDUITS.
- ALL CHANGES TO STRUCTURES (BUILDING, DRILLING, CORING, ETC.) NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED IN WRITING BY STRUCTURAL ENGINEER.
- PULLBOXES MUST BE USED ON ANY INTRA-BUILDING CONDUIT RUN MORE THAN 100 FEET IN LENGTH OR WITH MORE THAN 180 DEGREES OF BEND. PULLBOXES SHALL BE A MINIMUM OF TWELVE (12) TIMES THE DIAMETER OF THE LARGEST CONDUIT. ALL COMMUNICATIONS CONDUIT SHALL ENTER AND LEAVE PULL BOXES IN THE SAME DIRECTION - NO RIGHT ANGLE BENDS WILL BE ALLOWED WITHIN PULL BOXES.

TELECOM RESPONSIBILITY MATRIX

TASK	PARTY
TELECOM CONDUIT, BACKBOXES, SLEEVES	EC
TELECOM CONDUIT ID LABELING AND PULLSTRINGS	EC
GROUNDING FOR TELECOM	EC
TELECOM CABLING AND TERMINATION	CC
TELECOM FACEPLATES AND DIVIDERS	CC
PULLBOXES AND VAULTS	EC

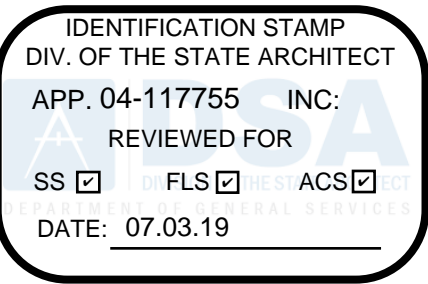
LEGEND	
GC	GENERAL CONTRACTOR
EC	ELECTRICAL CONTRACTOR
CC	COMMUNICATIONS CONTRACTOR

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
A OR AMP	AMPERES
ACCU	AIR COOLED CONDENSING UNIT
ACS	ACCESS CONTROL SYSTEM
AF	ABOVE FINISHED FLOOR
AFC	AMPERE INTERRUPTING CAPACITY
ARCH.	ARCHITECT; ARCHITECTURAL
AWG	AMERICAN WIRE GAUGE
BDF	BUILDING DISTRIBUTION FRAME
C	CONDUIT
CKT	CIRCUIT
CLG.	CEILING
C.O.	CONDUIT ONLY WITH PULL WIRE
CU	COPPER
DWG	DRAWING
EA	EACH
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NONMETALLIC TUBING
EQUIP	EQUIPMENT
EXIST / (E)	EXISTING
EW	EQUIPPED WITH
FCU	FAN COIL UNIT
FIN.	FINISH
FLT	FIXTURE
FLR	FLOOR
FLUOR	FLUORESCENT
FOC	FIBER OPTIC CABLE
FT	FEET
FTU	FIBER TERMINAL UNIT
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID CONDUIT
GND	GROUND
IDF	INTERMEDIATE DISTRIBUTION FRAME
IDS	INTRUSION DETECTION SYSTEM
JB	JUNCTION BOX
LTG.	LIGHTING
MDF	MAIN DISTRIBUTION FRAME
M-H	MOUNTING HEIGHT
MM	MULTIMODE
MTG.	MOUNTING
N	NORTH
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NO.	NUMBER
PH	PHASE
PNL	PANEL
PWR	POWER
PRO	PROTECTED TERMINAL
POE	POWER OVER ETHERNET
REC/RECEPT	RECEPTACLE
REQ'D	REQUIRED
RM	ROOM
SF	SQUARE FEET
SHT	SHEET
SM	SINGLE MODE
SMJ	SURFACE MOUNTED J-BOX
SP	SINGLE POLE
SPECS	SPECIFICATIONS
SW	SWITCH
TYP	TYPICAL
TERM	TERMINATION
UG	UNDERGROUND
U.O.N.	UNLESS OTHERWISE NOTED
V	VOLTS
V-A	VOLT-AMPERES
W	WATTS
W/	WITH
W/O	WITHOUT
WAP	WIRELESS ACCESS POINT
GC	GENERAL CONTRACTOR
OFCI	OWNER FURNISHED CONTRACTOR
OFCI	INSTALLED
OFCI	OWNER FURNISHED OWNER INSTALLED

SHEET INDEX

SHEET	DESCRIPTION
T1.00	GENERAL NOTES, LEGEND AND ABBREVIATIONS
T1.01	TELECOM MONUMENT SIGNAGE PLAN
T6.01	DIAGRAMS AND DETAILS



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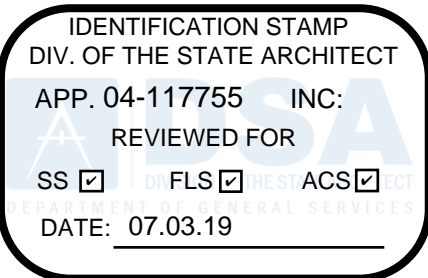
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General Notes, Legend And Abbreviations

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- 1 (E) CAMPUS MDF
- 2 (E) COMMUNICATIONS UNDERGROUND PULLBOX
- 3 (E) COMMUNICATIONS CONDUIT
- 4 PROVIDE AND INSTALL CONVENTIONAL 6 STRAND OS2 OSP SINGLE MODE FIBER FROM MDF TO SIGNAGE
- 5 MONUMENT SIGNAGE, SEE SW DRAWINGS
- 6 (E) COMMUNICATIONS HANDHOLE
- 7 (E) LIGHT POLE

Keyplan:



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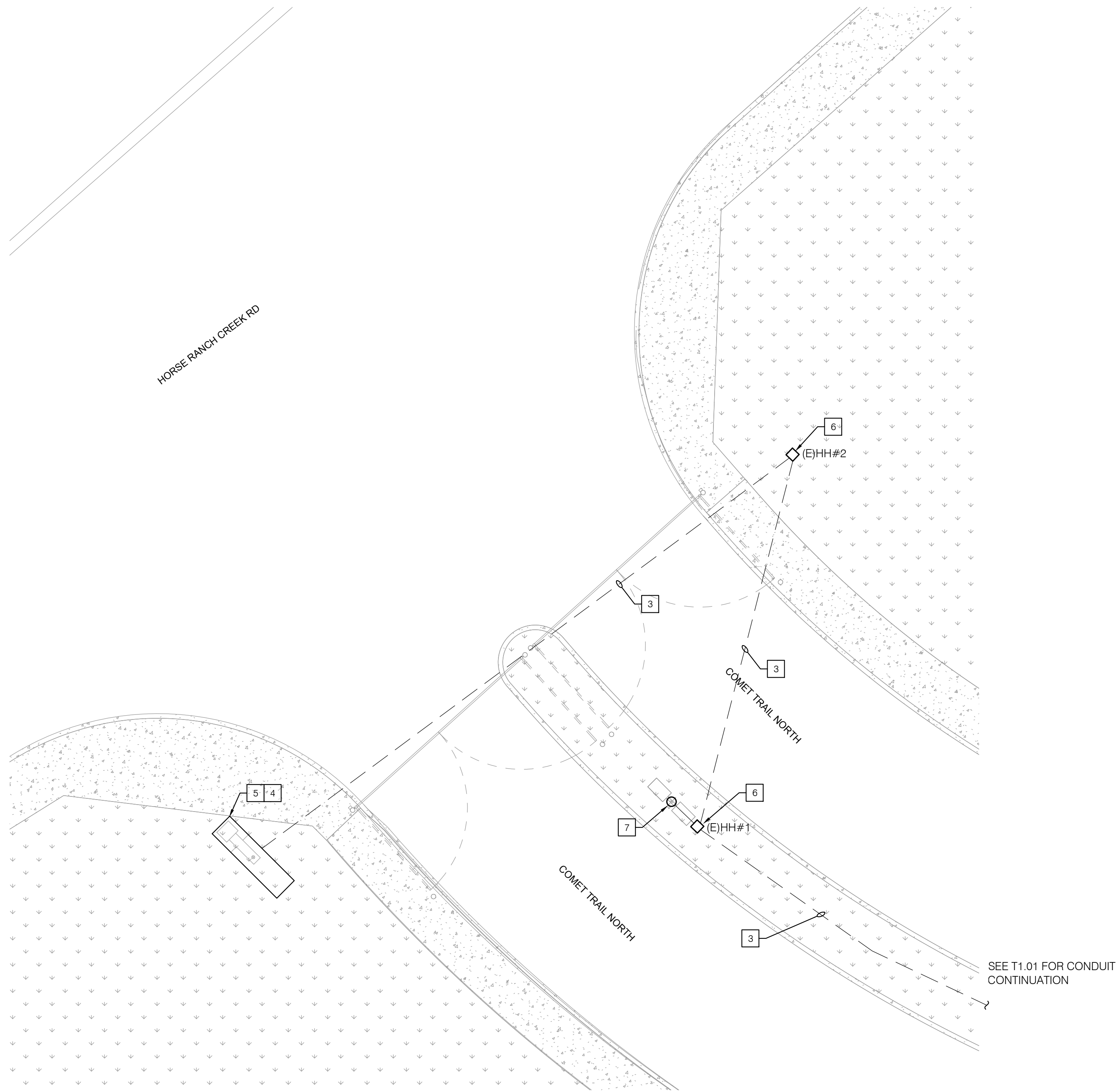
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TELECOM MONUMENT SIGNAGE PLAN

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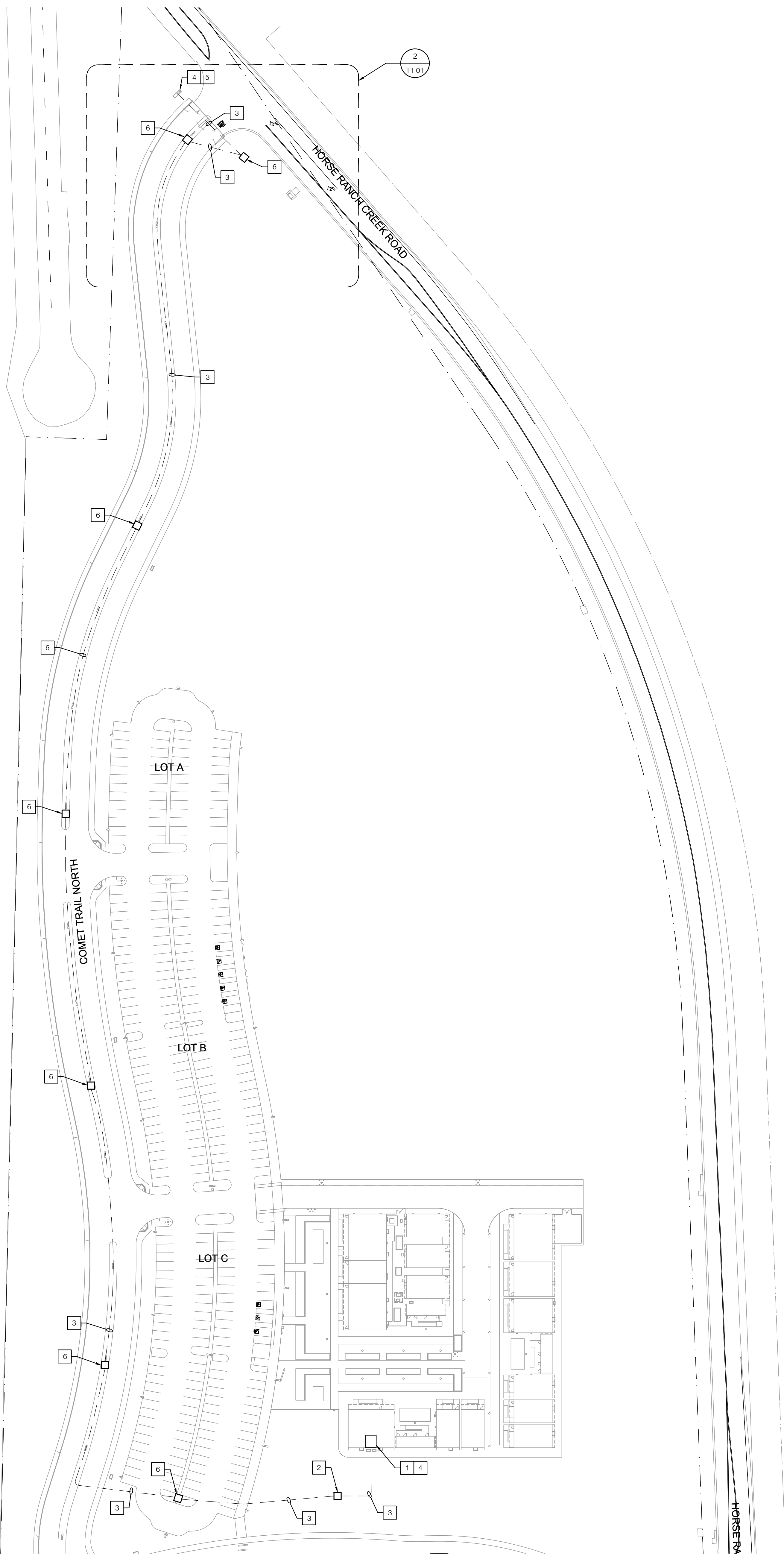
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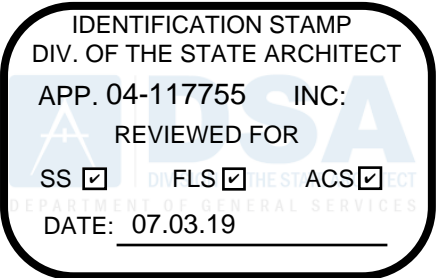
T1.01



NORTH ENTRANCE - ENLARGED
SIGNAGE PLAN **2**
1/8" = 1'-0"



PARTIAL SITE PLAN **1**
1" = 60'



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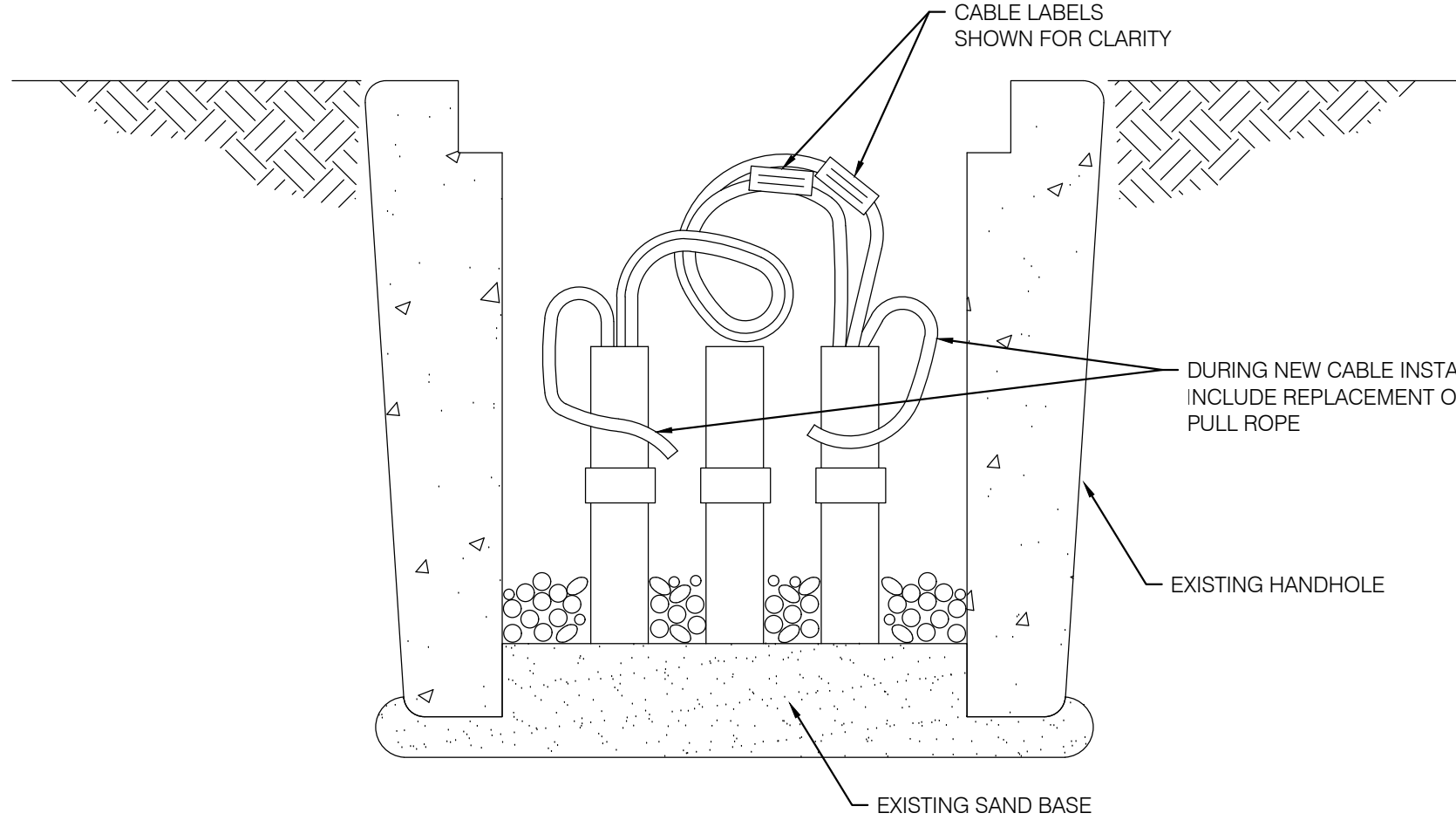
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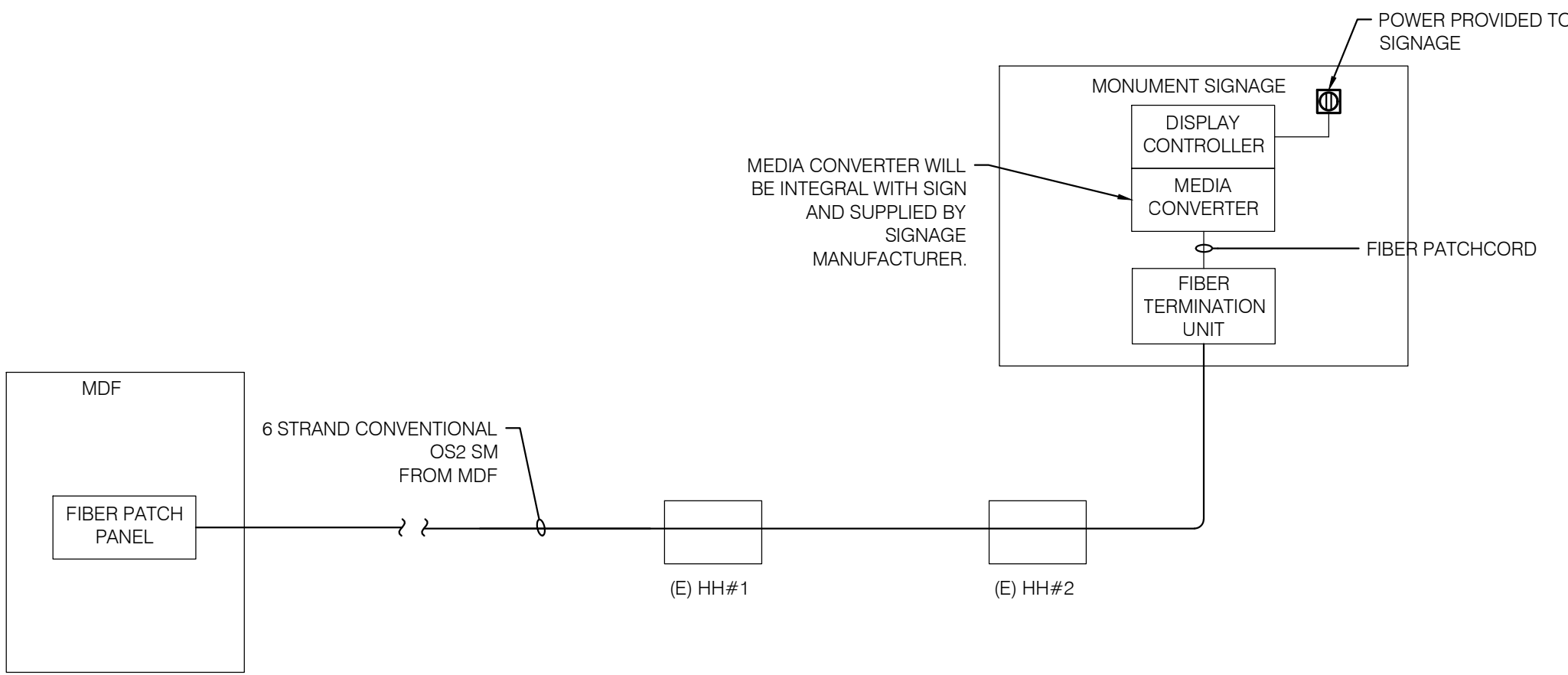
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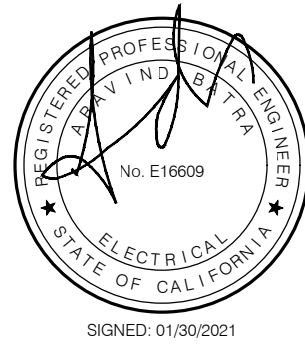
HANDHOLE CONDUIT STUB UP/LABELING

2
NTS



FIBER CABLING - DIAGRAM

1
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T6.01