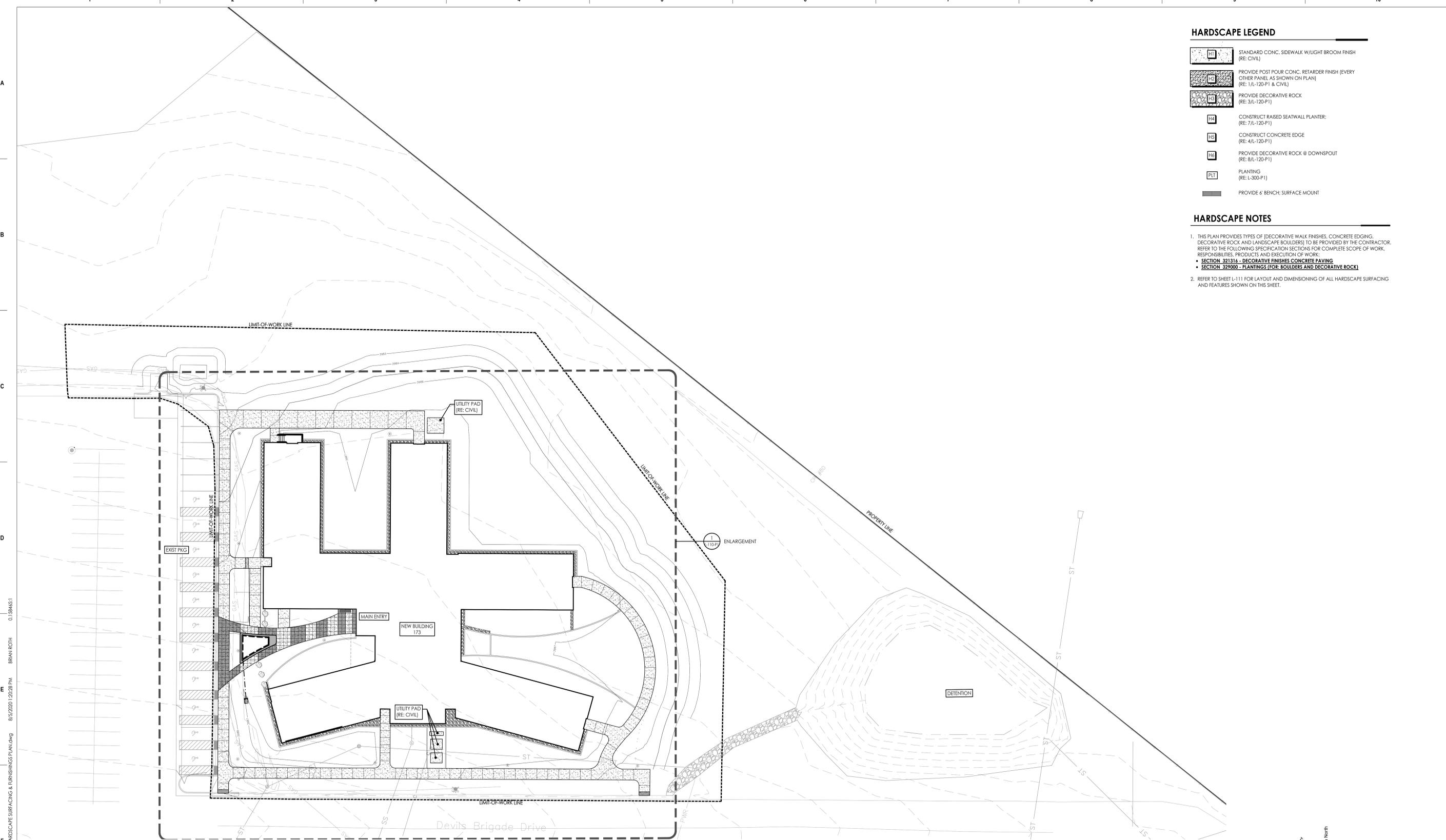


**HARDSCAPE LEGEND**

-  STANDARD CONC. SIDEWALK W/LIGHT BROOM FINISH (RE: CIVIL)
-  PROVIDE POST POUR CONC. RETARDER FINISH (EVERY OTHER PANEL AS SHOWN ON PLAN) (RE: 1/L-120-P1 & CIVIL)
-  PROVIDE DECORATIVE ROCK (RE: 3/L-120-P1)
-  CONSTRUCT RAISED SEATWALL PLANTER: (RE: 7/L-120-P1)
-  CONSTRUCT CONCRETE EDGE (RE: 4/L-120-P1)
-  PROVIDE DECORATIVE ROCK @ DOWNSPOUT (RE: 8/L-120-P1)
-  PLANTING (RE: L-300-P1)
-  PROVIDE 6' BENCH: SURFACE MOUNT

**HARDSCAPE NOTES**

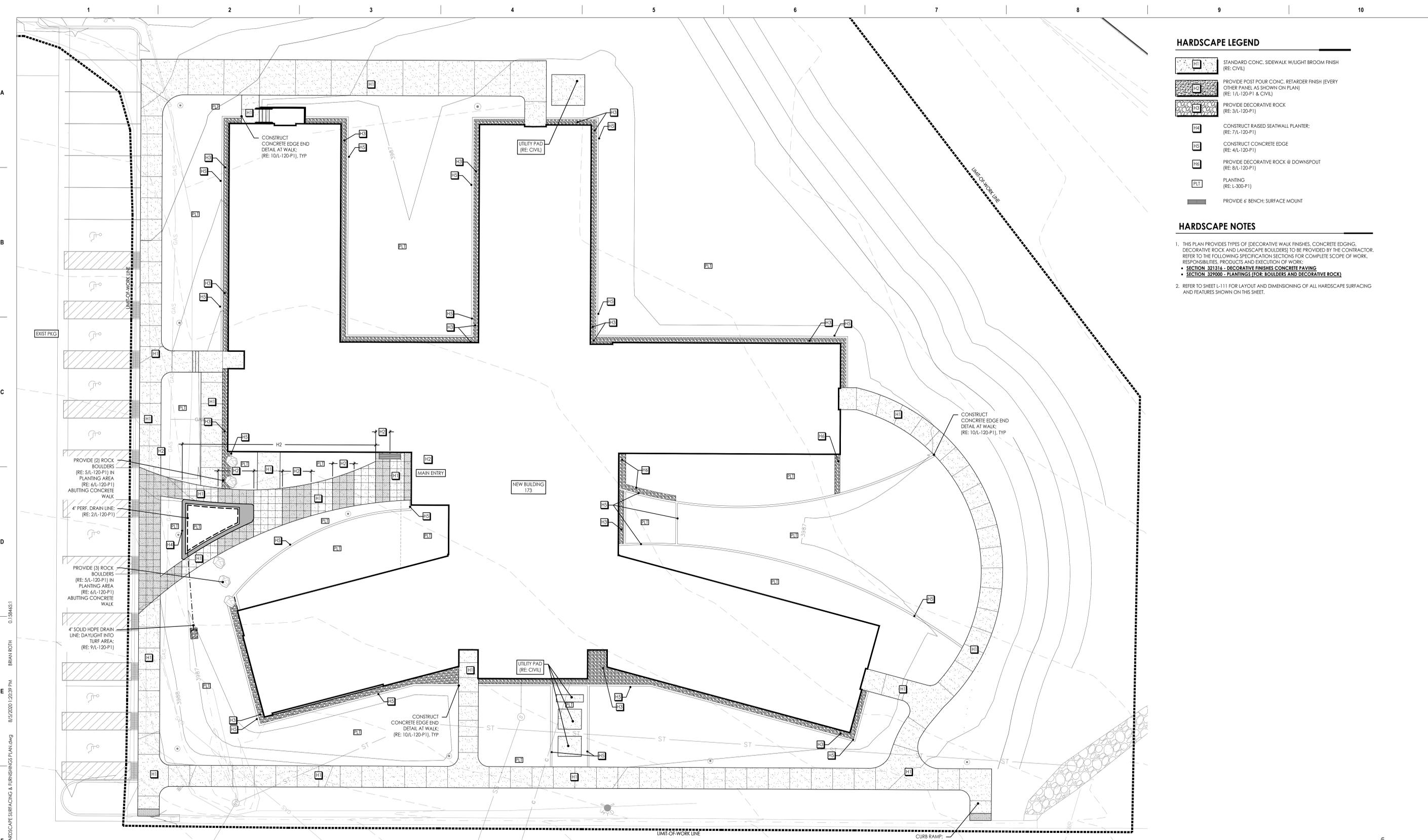
1. THIS PLAN PROVIDES TYPES OF (DECORATIVE WALK FINISHES, CONCRETE EDGING, DECORATIVE ROCK AND LANDSCAPE BOULDERS) TO BE PROVIDED BY THE CONTRACTOR. REFER TO THE FOLLOWING SPECIFICATION SECTIONS FOR COMPLETE SCOPE OF WORK, RESPONSIBILITIES, PRODUCTS AND EXECUTION OF WORK:
  - SECTION 321314 - DECORATIVE FINISHES CONCRETE PAVING
  - SECTION 322000 - PLANTINGS (FOR: BOULDERS AND DECORATIVE ROCK)
2. REFER TO SHEET L-111 FOR LAYOUT AND DIMENSIONING OF ALL HARDSCAPE SURFACING AND FEATURES SHOWN ON THIS SHEET.



1 HARDSCAPE SURFACING & SITE FURNISHINGS PLAN  
SCALE: 1" = 20'

G:\Archive\2019\1239-VA-FORT HARRISON\DRAWINGS\CAD\SHEETS\L100 HARDSCAPE SURFACING & FURNISHINGS PLAN.dwg  
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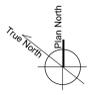
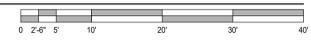
	CONSULTANTS:    	ARCHITECT/ENGINEERS:  <p>750 W HAMPTDEN AVE SUITE #300 ENGLISWOOD CO 80110 (720) 550-6307 WWW.VALHALLAENGINEERING.COM</p>	STAMP:  <p>08-05-20</p>		Drawing Title <b>HARDSCAPE SURFACING &amp; SITE FURNISHINGS PLAN</b> Approved: Project Director	Phase 100% CONSTRUCTION DOCUMENTS	Project Title OUTPATIENT MENTAL HEALTH / EDUCATION ADDITION	Project Number 436-114 Building Number 173 Drawing Number L-100-P1
Issued:	Date:	VEG 4.11	Checked: bgb	Drawn: bdr	Issue Date: 08/05/2020			



- ### HARDSCAPE LEGEND
- H1 STANDARD CONC. SIDEWALK W/LIGHT BROOM FINISH (RE: CIVIL)
  - H2 PROVIDE POST POUR CONC. RETARDER FINISH (EVERY OTHER PANEL AS SHOWN ON PLAN) (RE: 1/L-120-P1 & CIVIL)
  - H3 PROVIDE DECORATIVE ROCK (RE: 3/L-120-P1)
  - H4 CONSTRUCT RAISED SEATWALL PLANTER: (RE: 7/L-120-P1)
  - H5 CONSTRUCT CONCRETE EDGE (RE: 4/L-120-P1)
  - H6 PROVIDE DECORATIVE ROCK @ DOWNSPOUT (RE: 8/L-120-P1)
  - PL1 PLANTING (RE: L-300-P1)
  - PROVIDE 6" BENCH SURFACE MOUNT

- ### HARDSCAPE NOTES
1. THIS PLAN PROVIDES TYPES OF (DECORATIVE WALK FINISHES, CONCRETE EDGING, DECORATIVE ROCK AND LANDSCAPE BOULDERS) TO BE PROVIDED BY THE CONTRACTOR. REFER TO THE FOLLOWING SPECIFICATION SECTIONS FOR COMPLETE SCOPE OF WORK, RESPONSIBILITIES, PRODUCTS AND EXECUTION OF WORK:
    - SECTION 321314 - DECORATIVE FINISHES CONCRETE PAVING
    - SECTION 322000 - PLANTINGS (FOR: BOULDERS AND DECORATIVE ROCK)
  2. REFER TO SHEET L-111 FOR LAYOUT AND DIMENSIONING OF ALL HARDSCAPE SURFACING AND FEATURES SHOWN ON THIS SHEET.

1 HARDSCAPE SURFACING & SITE FURNISHINGS ENLARGEMENT PLAN  
 SCALE: 1" = 10'



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 BRIAN ROTH  
 01/28/2021

Issued:	Date:

**CONSULTANTS:**

**HOEFER WYSOCKI**  
 LEAD TOHAWAKE CREEK PARKWAY SUITE 400, LEAWOOD, KANSAS 66211

**LAND3**  
 PLANNING

**Protection Engineering**  
 CONSULTANTS

**JIRSA HEDRICK**  
 Structural Engineers

**ARCHITECT/ENGINEERS:**

**VALHALLA ENGINEERING GROUP, LLC**

750 W HAMPPDEN AVE  
 SUITE #300  
 ENGLEWOOD, CO 80110  
 (720) 550-6307  
 WWW.VALHALLAENGINEERING.COM

VEG 4.11

**STAMP:**

Professional Engineer Seal for Brian Roth, License No. 200100007, State of Colorado, dated 08-05-20.

**U.S. Department of Veterans Affairs**

Drawing Title  
**HARDSCAPE SURFACING & SITE FURNISHINGS ENLARGEMENT PLAN**

Approved: Project Director

Phase  
**100% CONSTRUCTION DOCUMENTS**

Project Title  
**OUTPATIENT MENTAL HEALTH / EDUCATION ADDITION**

Location

Issue Date: 08/05/2020

Checked: bgb

Drawn: bdr

Project Number: 436-114

Building Number: 173

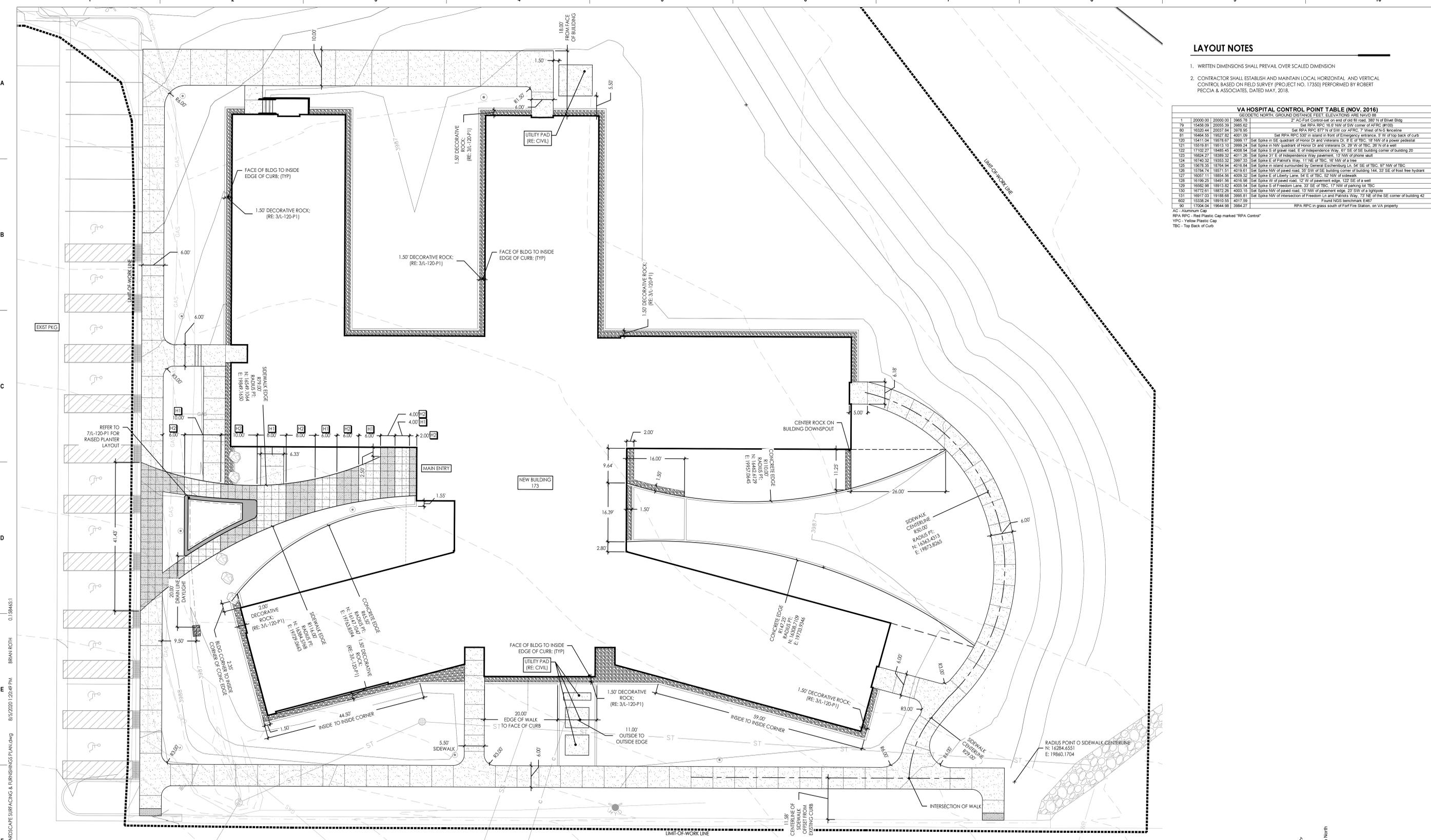
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**LAYOUT NOTES**

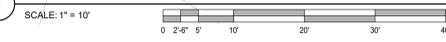
- WRITTEN DIMENSIONS SHALL PREVAIL OVER SCALED DIMENSION
- CONTRACTOR SHALL ESTABLISH AND MAINTAIN LOCAL HORIZONTAL AND VERTICAL CONTROL BASED ON FIELD SURVEY (PROJECT NO. 17350) PERFORMED BY ROBERT PECCIA & ASSOCIATES, DATED MAY, 2018.

VA HOSPITAL CONTROL POINT TABLE (NOV. 2016)			
NO.	EASTING	NORTHING	DESCRIPTION
1	20000.00	20000.00	2" A/C-For Control on east of old fill road, 300' N of Silver Bldg
79	15458.09	20055.39	Set RPA RPC 16.8' NW of SW corner of AFRC #100
80	16320.44	20037.94	Set RPA RPC 87' N of SW corner AFRC, 7' West of NS baseline
81	16464.55	19827.82	Set RPA RPC 530' in island in front of Emergency entrance, 5' W of top back of curb
120	15411.04	19878.67	Set Spike in SE quadrant of Honor Dr and Veterans Dr, 8' E of TBC, 18' NW of a power pedestal
121	15519.81	19913.10	Set Spike in NW quadrant of Honor Dr and Veterans Dr, 20' W of TBC, 26' N of a well
122	17102.27	18485.45	Set Spike S of gravel road, E of Independence Way, 61' SE of SE building corner of building 20
123	16624.21	19309.32	Set Spike 31' E of Independence Way pavement, 12' NW of phone well
124	16740.32	19353.32	Set Spike E of Patriot's Way, 11' NE of TBC, 16' NW of a tree
125	15678.35	18794.94	Set Spike in island surrounded by General Eisenhower Ln, 54' SE of TBC, 67' NW of TBC
126	15334.14	18871.51	Set Spike NW of paved road, 35' SW of SE building corner of building 144, 33' SE of first fire hydrant
127	16067.11	18854.56	Set Spike E of Liberty Lane, 54' E of TBC, 52' NW of sidewalk
128	16196.20	18491.96	Set Spike W of paved road, 12' W of pavement edge, 122' SE of a well
129	16582.68	18913.82	Set Spike S of Freedom Lane, 31' SE of TBC, 17' NW of paving of TBC
130	16772.61	18872.26	Set Spike NW of paved road, 13' NW of pavement edge, 23' SW of a signpost
131	16617.03	19168.65	Set Spike NW of intersection of Freedom Ln and Patriots Way, 17' NE of the SE corner of building 42
602	15338.24	18916.55	Found NGS benchmark (467)
90	17004.04	19644.98	RPA RPC in grass south of For Fire Station, on VA property

A/C - Aluminum Cap  
 RPA RPC - Red Plastic Cap marked "RPA Control"  
 YPC - Yellow Plastic Cap  
 TBC - Top Back of Curb



**1 HARDSCAPE SURFACING LAYOUT PLAN**



CONSULTANTS: HOEFER WYSOCKI LAND 3 Protection Engineering JIRSA HEDRICK	ARCHITECT/ENGINEERS: VALHALLA ENGINEERING GROUP, LLC 750 W HAMPTDEN AVE SUITE #300 ENGLEWOOD CO 80110 (720) 550-6307 WWW.VALHALLAENGINEERING.COM	STAMP: 	U.S. Department of Veterans Affairs	Drawing Title <b>HARDSCAPE SURFACING LAYOUT PLAN</b>	Phase <b>100% CONSTRUCTION DOCUMENTS</b>	Project Title <b>OUTPATIENT MENTAL HEALTH / EDUCATION ADDITION</b>	Project Number <b>436-114</b>
				Approved: Project Director	Location <b>173</b>	Issue Date <b>08/05/2020</b>	Checked <b>bgb</b>

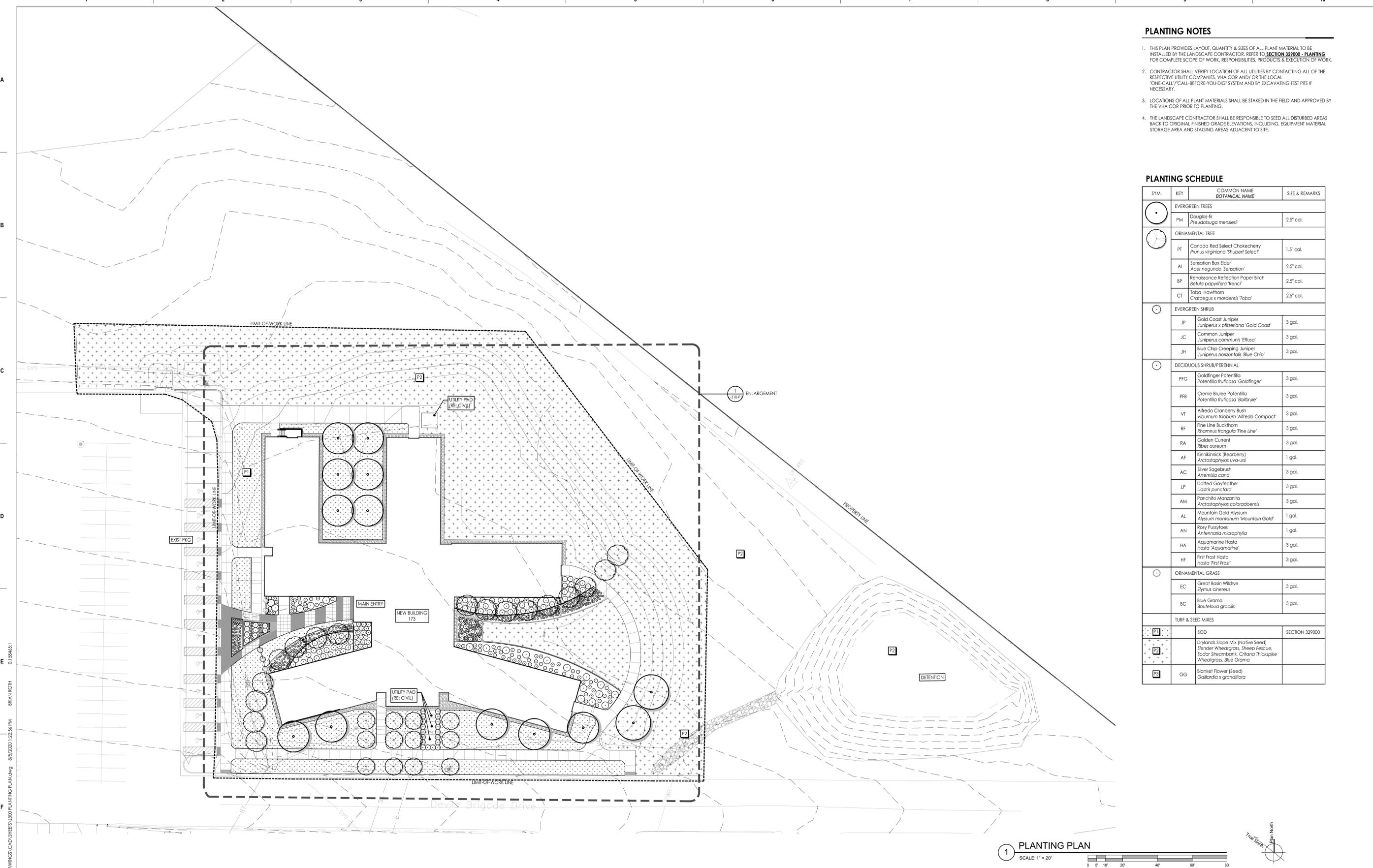


**PLANTING NOTES**

- THIS PLAN PROVIDES LAYOUT, QUANTITY & SIZES OF ALL PLANT MATERIAL TO BE INSTALLED BY THE LANDSCAPE CONTRACTOR. REFER TO SECTION 329000 - PLANTING FOR COMPLETE SCOPE OF WORK, RESPONSIBILITIES, PRODUCTS & EXECUTION OF WORK.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES BY CONTACTING ALL OF THE RESPECTIVE UTILITY COMPANIES, VIA COR AND/OR THE LOCAL "ONE-CALL"/"CALL-BEFORE-YOU-DIG" SYSTEM AND BY EXCAVATING TEST PITS IF NECESSARY.
- LOCATIONS OF ALL PLANT MATERIALS SHALL BE STAKED IN THE FIELD AND APPROVED BY THE VHA COR PRIOR TO PLANTING.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE TO SEED ALL DISTURBED AREAS BACK TO ORIGINAL FINISHED GRADE ELEVATIONS, INCLUDING, EQUIPMENT MATERIAL STORAGE AREA AND STAGING AREAS ADJACENT TO SITE.

**PLANTING SCHEDULE**

SYM.	KEY	COMMON NAME BOTANICAL NAME	SIZE & REMARKS
<b>EVERGREEN TREES</b>			
PM	•	Douglas-fir <i>Pseudotsuga menziesii</i>	2.5" cal.
<b>ORNAMENTAL TREE</b>			
PT	•	Canada Red Select Chokecherry <i>Prunus virginiana 'Shubert Select'</i>	1.5" cal.
AI	•	Sensation Box Elder <i>Acer negundo 'Sensation'</i>	2.5" cal.
BP	•	Renaissance Reflection Paper Birch <i>Betula papyrifera 'Rena'</i>	2.5" cal.
CT	•	Taba Hawthorn <i>Crataegus x mordenis 'Taba'</i>	2.5" cal.
<b>EVERGREEN SHRUB</b>			
JP	•	Gold Coast Juniper <i>Juniperus x pfitzeriana 'Gold Coast'</i>	3 gal.
JC	•	Common Juniper <i>Juniperus communis 'Effusa'</i>	3 gal.
JH	•	Blue Chip Creeping Juniper <i>Juniperus horizontalis 'Blue Chip'</i>	3 gal.
<b>DECIDUOUS SHRUB/PERENNIAL</b>			
PFG	•	Goldfinger Potentilla <i>Potentilla fruticosa 'Goldfinger'</i>	3 gal.
PFB	•	Crème Brulee Potentilla <i>Potentilla fruticosa 'Bairbrule'</i>	3 gal.
VT	•	Alfredo Cranberry Bush <i>Viburnum trilobum 'Alfredo Compact'</i>	3 gal.
RF	•	Fine Line Buckthorn <i>Rhamnus frangula 'Fine Line'</i>	3 gal.
RA	•	Golden Currant <i>Ribes aureum</i>	3 gal.
AF	•	Kinnikinnick (Bearberry) <i>Arctostaphylos uva-ursi</i>	1 gal.
AC	•	Silver Sagebrush <i>Artemisia cana</i>	3 gal.
LP	•	Dotted Gayleather <i>Liatris punctata</i>	3 gal.
AM	•	Panchito Manzanita <i>Arctostaphylos californica</i>	3 gal.
AL	•	Mountain Gold Alyssum <i>Alyssum montanum 'Mountain Gold'</i>	1 gal.
AN	•	Rosy Pussytoes <i>Antennaria microphylla</i>	1 gal.
HA	•	Aquamarine Hosta <i>Hosta 'Aquamarine'</i>	3 gal.
HF	•	Frost Hosta <i>Hosta 'Frost'</i>	3 gal.
<b>ORNAMENTAL GRASS</b>			
EC	•	Great Basin Wildrye <i>Elymus cinereus</i>	3 gal.
BC	•	Blue Grama <i>Bouteloua gracilis</i>	3 gal.
<b>TURF &amp; SEED MIXES</b>			
P1	•	SOD	SECTION 329000
P2	•	Drylands Slope Mix (Native Seed) Slender Wheatgrass, Sheep Fescue, Sodar Streambank, Critana Thickspike Wheatgrass, Blue Grama	
P3	•	Blanket Flower (Seed) <i>Gallardia x grandiflora</i>	



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 Date:

**CONSULTANTS:**

**ARCHITECT/ENGINEERS:**

750 W HAMPPDEN AVE  
 SUITE #300  
 ENGLEWOOD CO 80110  
 (720) 550-6307  
 WWW.VALHALLAENGINEERING.COM

**STAMP:**

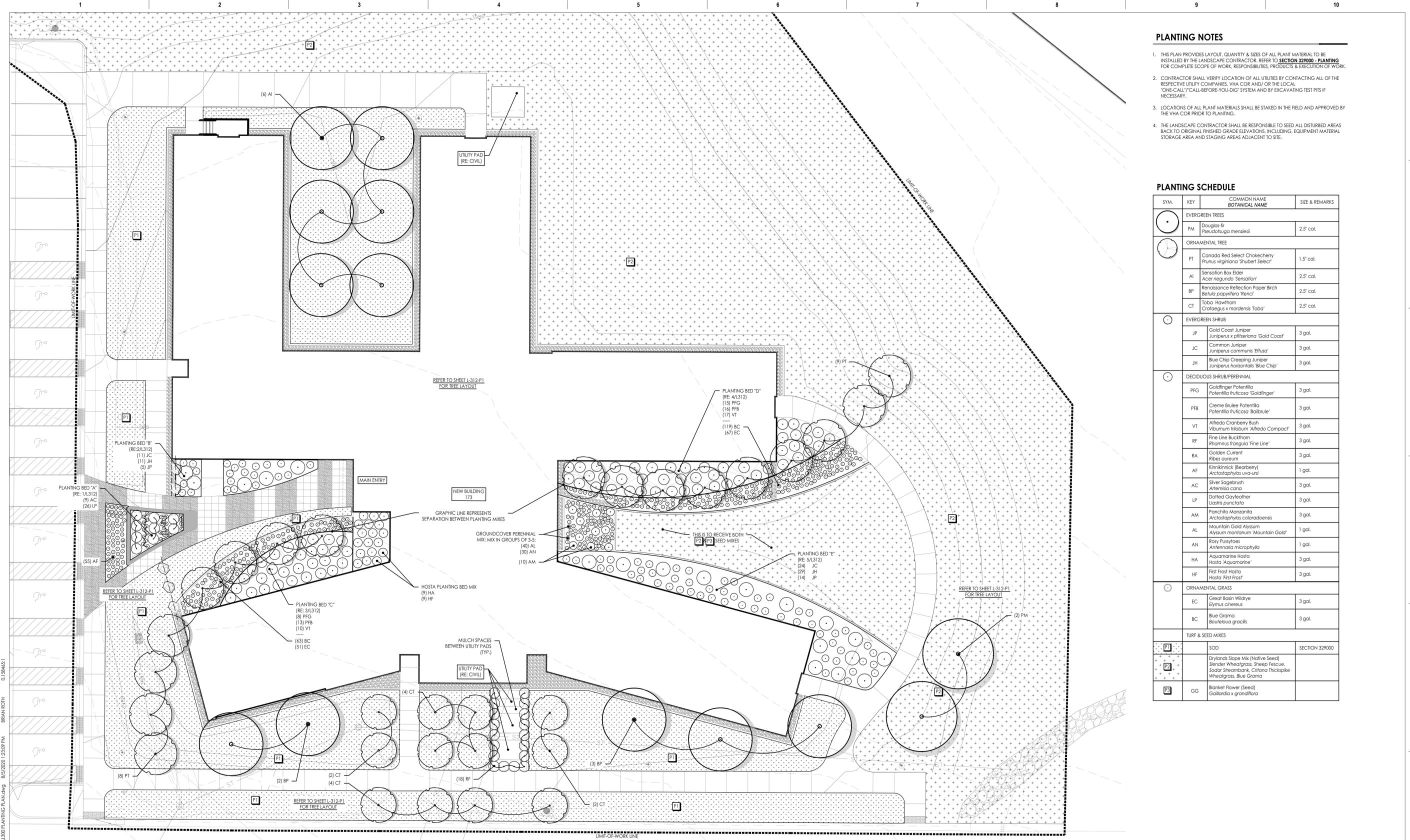


Drawing Title	<b>PLANTING PLAN</b>
Approved:	Project Director

Phase	100% CONSTRUCTION DOCUMENTS
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Project Title	OUTPATIENT MENTAL HEALTH / EDUCATION ADDITION
Location	
Issue Date	08/05/2020
Checked	bgb
Drawn	bdr

Project Number	436-114
Building Number	173
Drawing Number	L-300-P1



**PLANTING NOTES**

- THIS PLAN PROVIDES LAYOUT, QUANTITY & SIZES OF ALL PLANT MATERIAL TO BE INSTALLED BY THE LANDSCAPE CONTRACTOR. REFER TO SECTION 329000 - PLANTING FOR COMPLETE SCOPE OF WORK, RESPONSIBILITIES, PRODUCTS & EXECUTION OF WORK.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES BY CONTACTING ALL OF THE RESPECTIVE UTILITY COMPANIES, VIA COR AND/OR THE LOCAL "ONE-CALL"/"CALL-BEFORE-YOU-DIG" SYSTEM AND BY EXCAVATING TEST PITS IF NECESSARY.
- LOCATIONS OF ALL PLANT MATERIALS SHALL BE STAKED IN THE FIELD AND APPROVED BY THE VHA COR PRIOR TO PLANTING.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE TO SEED ALL DISTURBED AREAS BACK TO ORIGINAL FINISHED GRADE ELEVATIONS, INCLUDING, EQUIPMENT MATERIAL STORAGE AREA AND STAGING AREAS ADJACENT TO SITE.

**PLANTING SCHEDULE**

SYM.	KEY	COMMON NAME BOTANICAL NAME	SIZE & REMARKS
<b>EVERGREEN TREES</b>			
PM		Douglas-fir <i>Pseudotsuga menziesii</i>	2.5" cal.
<b>ORNAMENTAL TREE</b>			
PT		Canada Red Select Chokecherry <i>Prunus virginiana 'Shubert Select'</i>	1.5" cal.
AI		Sensation Box Elder <i>Acer negundo 'Sensation'</i>	2.5" cal.
BP		Renaissance Reflection Paper Birch <i>Betula papyrifera 'Rena'</i>	2.5" cal.
CT		Toba Hawthorn <i>Crataegus x mordenis 'Toba'</i>	2.5" cal.
<b>EVERGREEN SHRUB</b>			
JP		Gold Coast Juniper <i>Juniperus x pfitzeriana 'Gold Coast'</i>	3 gal.
JC		Common Juniper <i>Juniperus communis 'Effusa'</i>	3 gal.
JH		Blue Chip Creeping Juniper <i>Juniperus horizontalis 'Blue Chip'</i>	3 gal.
<b>DECIDUOUS SHRUB/PERENNIAL</b>			
PFG		Goldfinger Potentilla <i>Potentilla fruticosa 'Goldfinger'</i>	3 gal.
PFB		Creme Brulee Potentilla <i>Potentilla fruticosa 'Bairbrue'</i>	3 gal.
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RA		Golden Currant <i>Ribes aureum</i>	3 gal.
AF		Kinnikinnick (Bearberry) <i>Arctostaphylos uva-ursi</i>	1 gal.
AC		Silver Sagebrush <i>Artemisia cana</i>	3 gal.
LP		Dotted Gayleather <i>Liatris punctata</i>	3 gal.
AM		Panchito Manzanita <i>Arctostaphylos coloradoensis</i>	3 gal.
AL		Mountain Gold Alyssum <i>Alyssum montanum 'Mountain Gold'</i>	1 gal.
AN		Rosy Pussytoes <i>Antennaria microphylla</i>	1 gal.
HA		Aquamarine Hosta <i>Hosta 'Aquamarine'</i>	3 gal.
HF		First Frost Hosta <i>Hosta 'First Frost'</i>	3 gal.
<b>ORNAMENTAL GRASS</b>			
EC		Great Basin Wildrye <i>Elymus cinereus</i>	3 gal.
BC		Blue Grama <i>Bouteloua gracilis</i>	3 gal.
<b>TURF &amp; SEED MIXES</b>			
P1		SOD	SECTION 329000
P2		Drylands Slope Mix (Native Seed) Slender Wheatgrass, Sheep Fescue, Sodar Streambank, Citrina Thickspike Wheatgrass, Blue Grama	
P3		Blanket Flower (Seed) <i>Gallardia x grandiflora</i>	

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 VA FORM 08-6231

<b>CONSULTANTS:</b> HOEFER WYSOCKI LAND3 Protection Engineering JIRSA HEDRICK	<b>ARCHITECT/ENGINEERS:</b> VALHALLA ENGINEERING GROUP, LLC 750 W HAMPPDEN AVE SUITE #300 ENGLEWOOD CO 80110 (720) 550-6307 WWW.VALHALLAENGINEERING.COM	<b>STAMP:</b> 	U.S. Department of Veterans Affairs	Drawing Title <b>PLANTING ENLARGEMENT PLAN</b>	Phase 100% CONSTRUCTION DOCUMENTS	Project Title OUTPATIENT MENTAL HEALTH / EDUCATION ADDITION	Project Number 436-114
				Approved: Project Director	Location 173	Issue Date 08/05/2020	Checked bgb

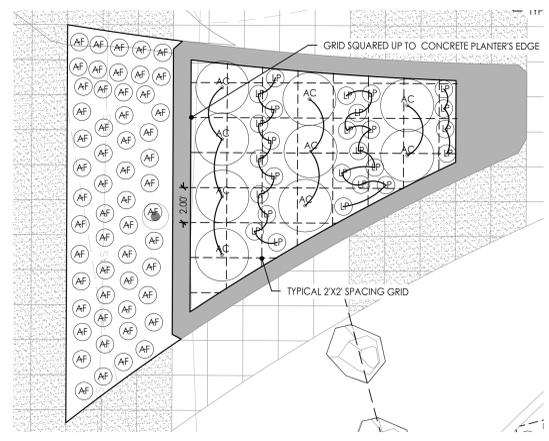


**PLANTING SCHEDULE**

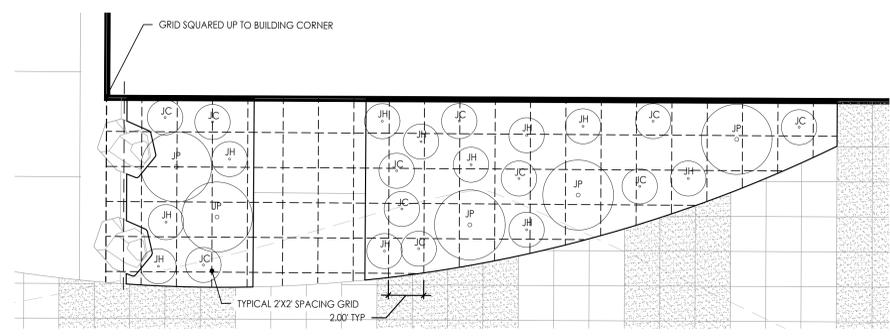
- JP - SEA GREEN JUNIPER
  - JC - COMMON JUNIPER
  - JH - CREEPING JUNIPER
  - PFG - GOLDFINGER POTENTILLA
  - PFB - CREME BRULEE POTENTILLA
  - SA - COMMON SNOWBERRY
  - AF - FRINGED SAGE BRUSH
  - AC - SILVER SAGEBRUSH
  - LP - DOTTED GAYFEATHER
  - EC - GREAT BASIN WILDRIE
  - BC - BLUE GRAMA
- REFER TO L300 FOR FULL PLANTING SCHEDULE

**LAYOUT NOTES**

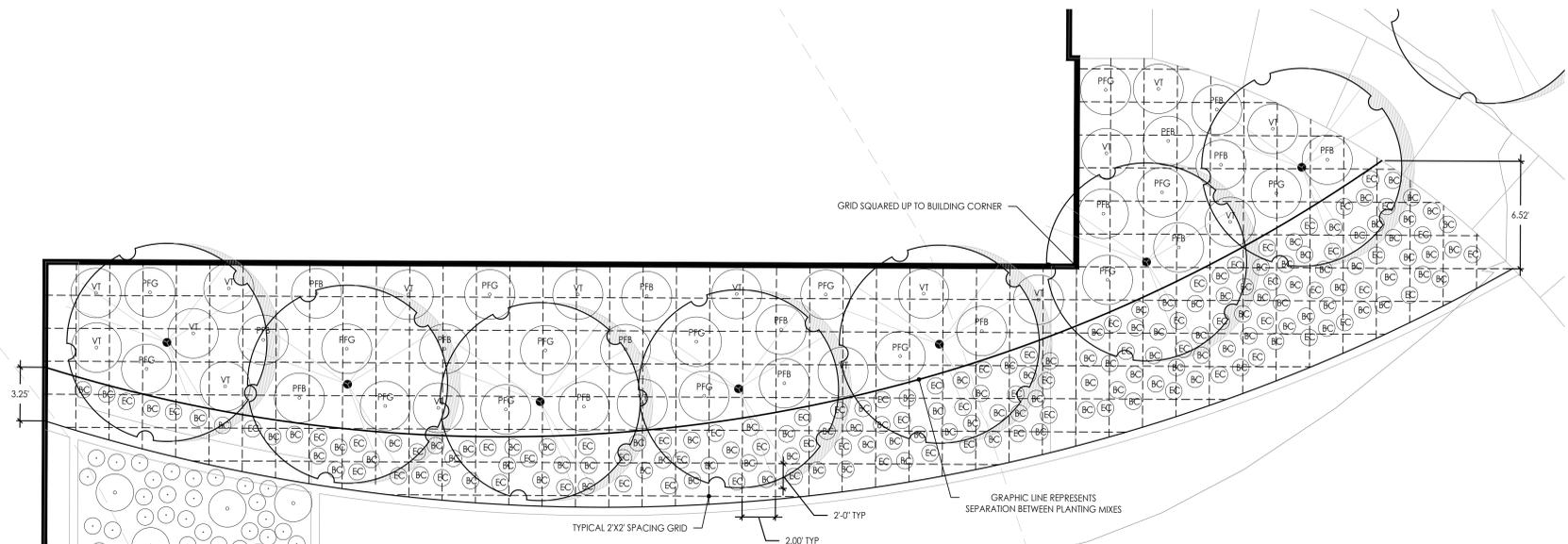
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**1 PLANTING BED "A"**  
Scale: 1:4



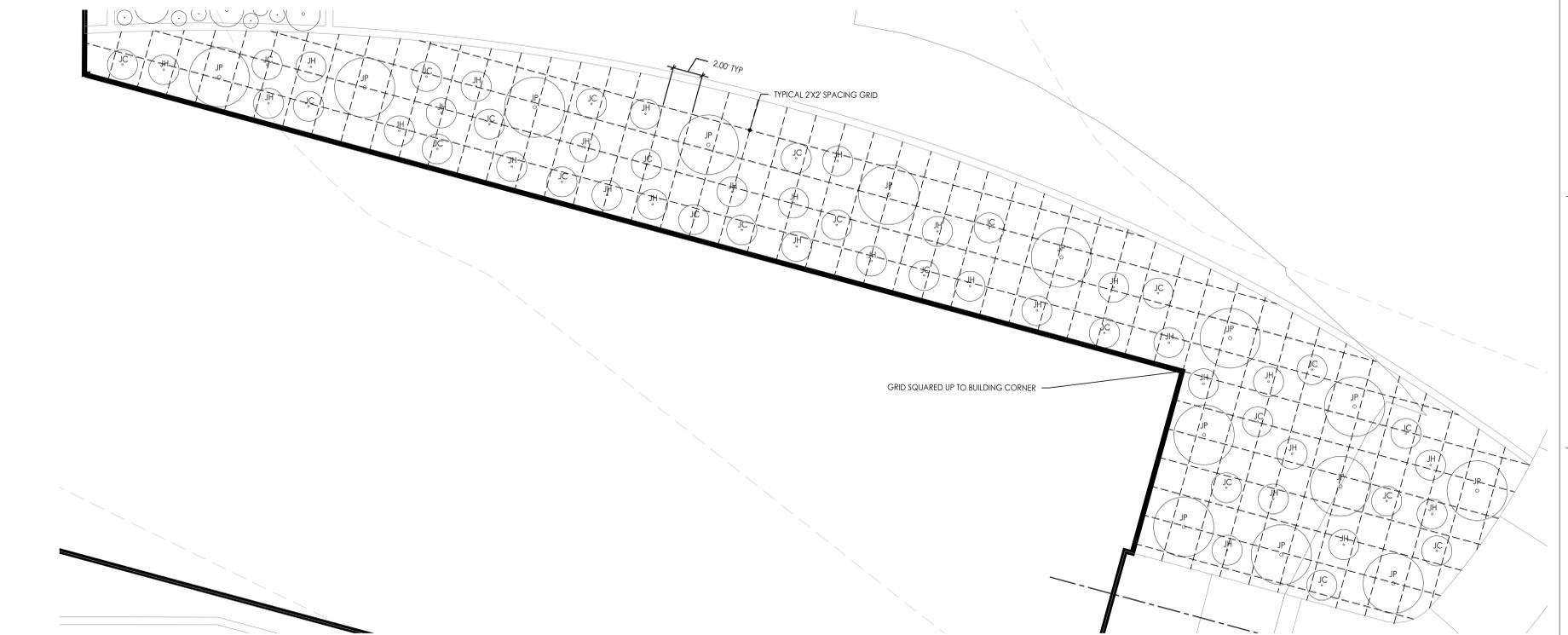
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Scale: 1:4



**4 PLANTING BED "D"**  
Scale: 1:4



**3 PLANTING BED "C"**  
Scale: 1:4



**5 PLANTING BED "E"**  
Scale: 1:4

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 BRAN ROTH 01584651

Issued: _____ Date: _____	<b>CONSULTANTS:</b>   	<b>ARCHITECT/ENGINEERS:</b>  750 W HAMPTEN AVE SUITE #300 ENGLEWOOD CO 80110 (720) 550-6307 WWW.VALHALLAENGINEERING.COM	<b>STAMP:</b>  <p style="text-align: center;">VEG 4.11</p>	 <p style="text-align: center;">U.S. Department of Veterans Affairs</p>	Drawing Title <b>PLANTING SHRUB LAYOUT PLAN</b> Approved: Project Director	Phase <b>100% CONSTRUCTION DOCUMENTS</b>	Project Title <b>OUTPATIENT MENTAL HEALTH / EDUCATION ADDITION</b> Location Issue Date 08/05/2020	Project Number <b>436-114</b> Building Number <b>173</b> Drawing Number <b>L-312-P1</b>
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A

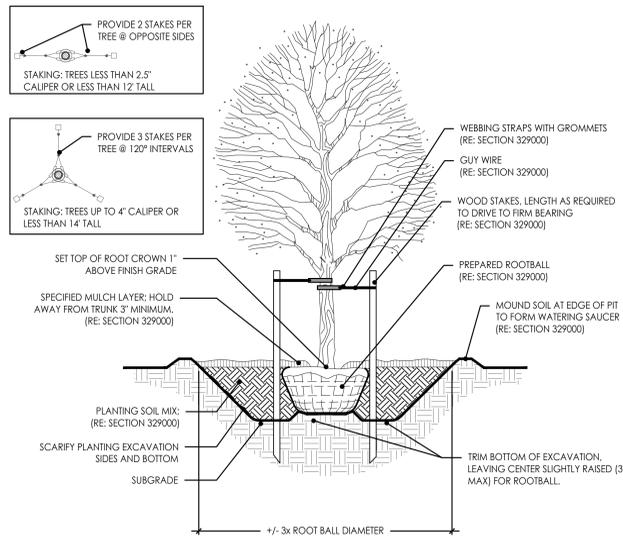
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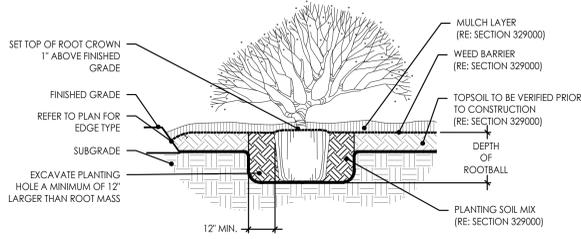
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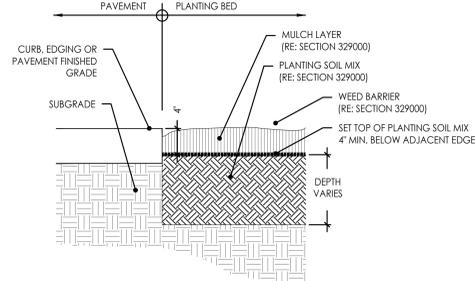
F



**1 TREE DETAIL**  
Scale: N.T.S.



**2 SHRUB DETAIL**  
Scale: N.T.S.



**3 PLANTING BED @ CONCRETE WALK**  
Scale: N.T.S.

G:\Archive\2019\1219-VA-FORT HARRISON\DRAWINGS\CAD\SHEETS\1320 PLANTING DETAILS.dwg 8/5/2020 12:54 PM BRAN ROTH 01.594651

Issued:	Date:

**CONSULTANTS:**

**ARCHITECT/ENGINEERS:**

750 W HAMPDEN AVE  
SUITE #300  
ENGLEWOOD, CO 80110  
(720) 550-6307  
WWW.VALHALLAENGINEERING.COM

VEG 4.11

**STAMP:**

U.S. Department of Veterans Affairs

Drawing Title	PLANTING DETAILS
Approved:	Project Director

Phase	100% CONSTRUCTION DOCUMENTS
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Project Title	OUTPATIENT MENTAL HEALTH / EDUCATION ADDITION
Location	
Issue Date	08/05/2020
Checked	bgb
Drawn	bdr

Project Number	436-114
Building Number	173
Drawing Number	L-320-P1

**IRRIGATION LEGEND**

SYMBOL	DESCRIPTION	DETAIL
IR1	DRIP IRRIGATION	RE: SPEC 328400 - IRRIGATION
IR2	4" POP-UP SPRAY HEADS W/ ROTATING NOZZLES	RE: SPEC 328400 - IRRIGATION
IR3	12" POP-UP SPRAY HEADS W/ ROTATING NOZZLES	RE: SPEC 328400 - IRRIGATION
IR4	TEMPORARY IRRIGATION HAND WATER DURING ESTABLISHMENT PERIOD UNTIL FINAL ACCEPTANCE IS PROVIDED	RE: SPEC 328400 - IRRIGATION
---	MAINLINE	RE: SPEC 328400 - IRRIGATION
	PIPE SLEEVE & CHANNEL	RE: SPEC 328400 - IRRIGATION
C	AUTOMATIC CONTROLLER	RE: SPEC 328400 - IRRIGATION
R	RAIN SENSOR	RE: SPEC 328400 - IRRIGATION
MV	MASTER VALVE	RE: SPEC 328400 - IRRIGATION
IV	ISOLATION VALVE	RE: SPEC 328400 - IRRIGATION
QC	QUICK COUPLER	RE: SPEC 328400 - IRRIGATION

**IRRIGATION SCOPE**

REFER TO SECTION 328400 - PLANTING IRRIGATION FOR GENERAL PRODUCT AND EXECUTION INFORMATION.

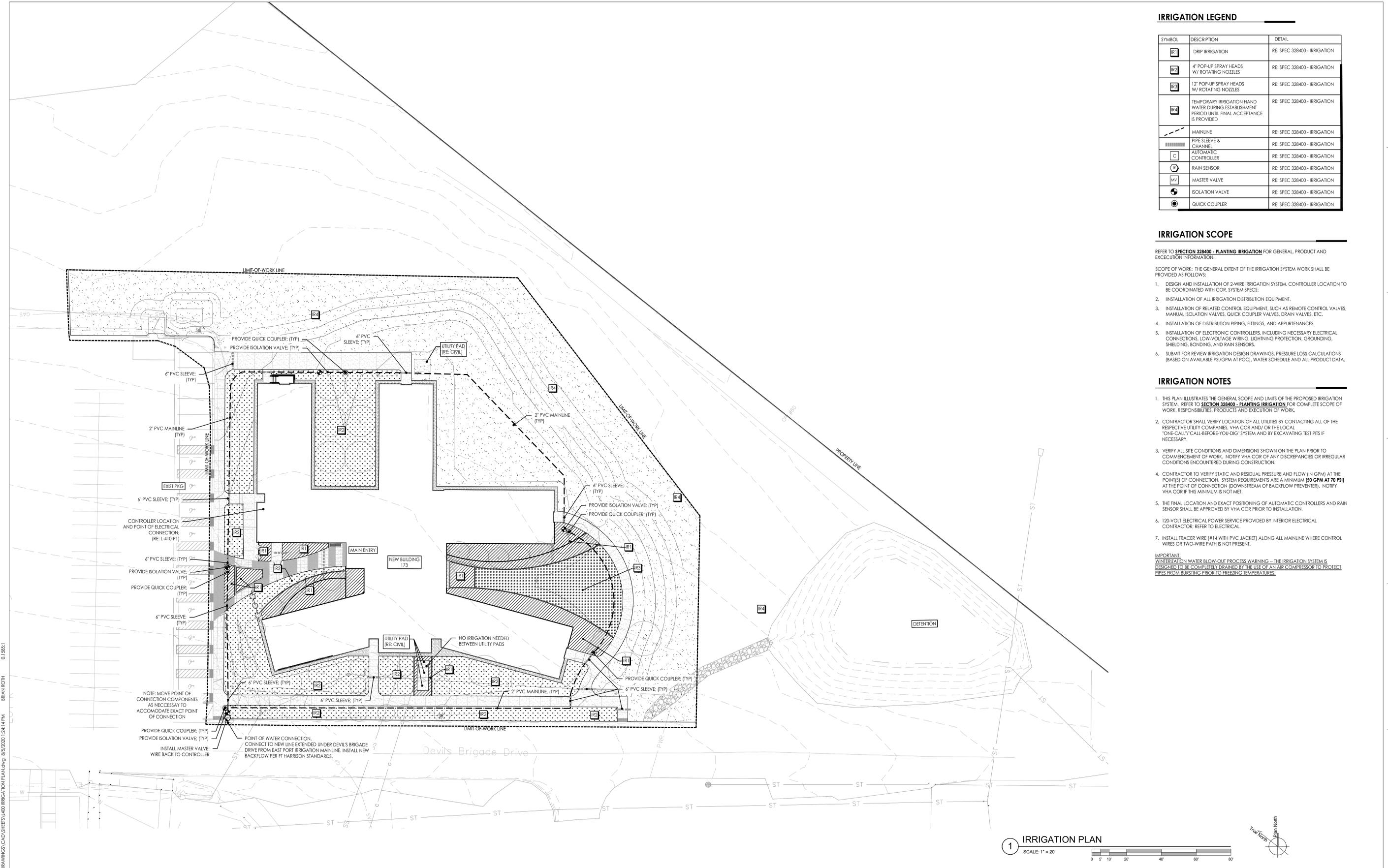
SCOPE OF WORK: THE GENERAL EXTENT OF THE IRRIGATION SYSTEM WORK SHALL BE PROVIDED AS FOLLOWS:

- DESIGN AND INSTALLATION OF 2-WIRE IRRIGATION SYSTEM. CONTROLLER LOCATION TO BE COORDINATED WITH COR. SYSTEM SPECS.
- INSTALLATION OF ALL IRRIGATION DISTRIBUTION EQUIPMENT.
- INSTALLATION OF RELATED CONTROL EQUIPMENT, SUCH AS REMOTE CONTROL VALVES, MANUAL ISOLATION VALVES, QUICK COUPLER VALVES, DRAIN VALVES, ETC.
- INSTALLATION OF DISTRIBUTION PIPING, FITTINGS, AND APPURTENANCES.
- INSTALLATION OF ELECTRONIC CONTROLLERS, INCLUDING NECESSARY ELECTRICAL CONNECTIONS, LOW-VOLTAGE WIRING, LIGHTNING PROTECTION, GROUNDING, SHIELDING, BONDING, AND RAIN SENSORS.
- SUBMIT FOR REVIEW IRRIGATION DESIGN DRAWINGS, PRESSURE LOSS CALCULATIONS [BASED ON AVAILABLE PSI/GPM AT POC], WATER SCHEDULE AND ALL PRODUCT DATA.

**IRRIGATION NOTES**

- THIS PLAN ILLUSTRATES THE GENERAL SCOPE AND LIMITS OF THE PROPOSED IRRIGATION SYSTEM. REFER TO SECTION 328400 - PLANTING IRRIGATION FOR COMPLETE SCOPE OF WORK, RESPONSIBILITIES, PRODUCTS AND EXECUTION OF WORK.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES BY CONTACTING ALL OF THE RESPECTIVE UTILITY COMPANIES, VHA COR AND/ OR THE LOCAL "ONE-CALL" CALL-BEFORE-YOU-DIG SYSTEM AND BY EXCAVATING TEST PITS IF NECESSARY.
- VERIFY ALL SITE CONDITIONS AND DIMENSIONS SHOWN ON THE PLAN PRIOR TO COMMENCEMENT OF WORK. NOTIFY VHA COR OF ANY DISCREPANCIES OR IRREGULAR CONDITIONS ENCOUNTERED DURING CONSTRUCTION.
- CONTRACTOR TO VERIFY STATIC AND RESIDUAL PRESSURE AND FLOW (IN GPM) AT THE POINT(S) OF CONNECTION. SYSTEM REQUIREMENTS ARE A MINIMUM [50 GPM AT 70 PSI] AT THE POINT OF CONNECTION [DOWNSTREAM OF BACKFLOW PREVENTER]. NOTIFY VHA COR IF THIS MINIMUM IS NOT MET.
- THE FINAL LOCATION AND EXACT POSITIONING OF AUTOMATIC CONTROLLERS AND RAIN SENSOR SHALL BE APPROVED BY VHA COR PRIOR TO INSTALLATION.
- 120-VOLT ELECTRICAL POWER SERVICE PROVIDED BY INTERIOR ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL.
- INSTALL TRACER WIRE (#14 WITH PVC JACKET) ALONG ALL MAINLINE WHERE CONTROL WIRES OR TWO-WIRE PATH IS NOT PRESENT.

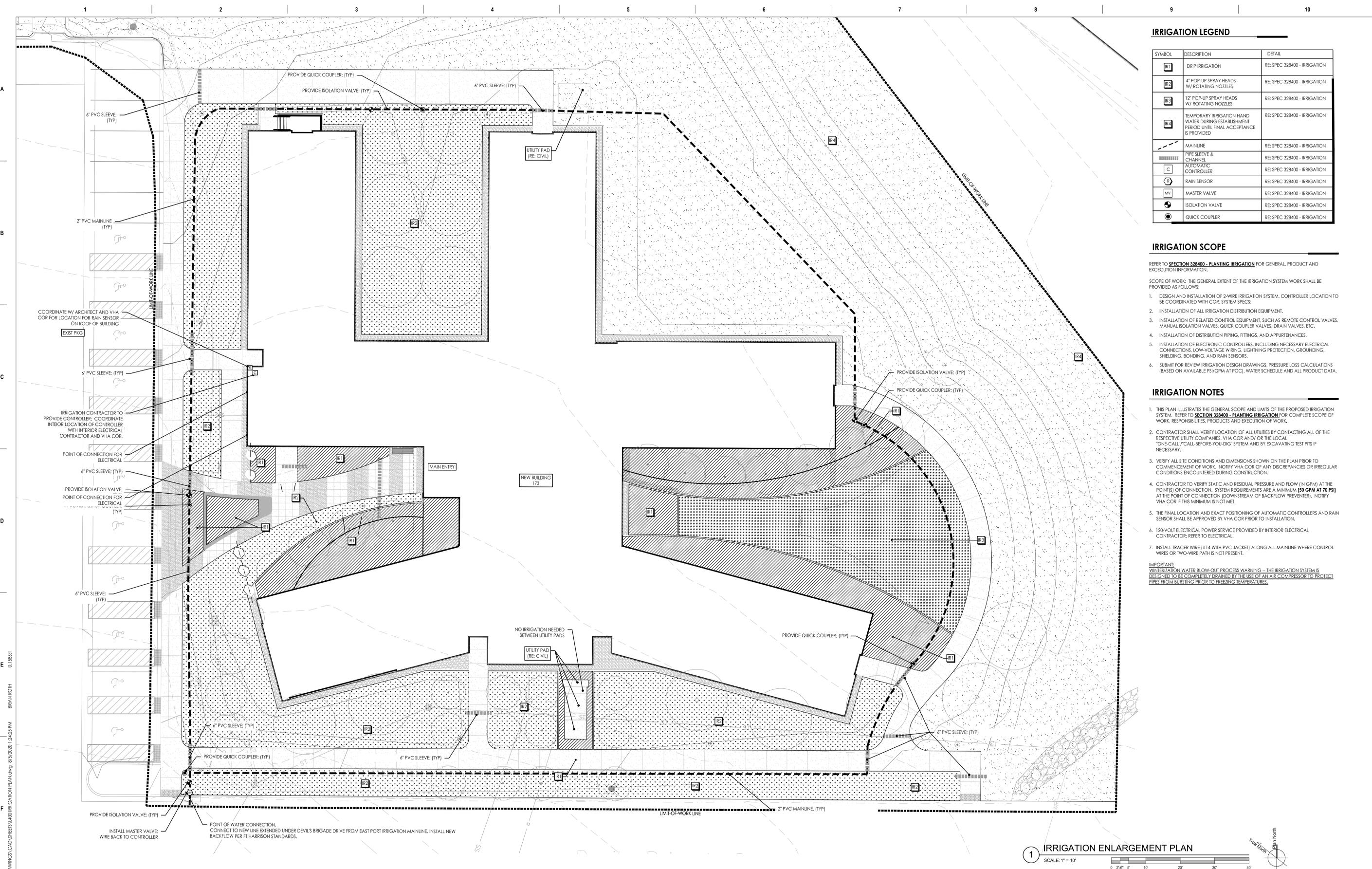
**IMPORTANT:**  
WINTERIZATION WATER BLOW-OUT PROCESS WARNING - THE IRRIGATION SYSTEM IS DESIGNED TO BE COMPLETELY DRAINED BY THE USE OF AN AIR COMPRESSOR TO PROTECT PIPES FROM BURSTING PRIOR TO FREEZING TEMPERATURES.



**1 IRRIGATION PLAN**  
SCALE: 1" = 20'



CONSULTANTS:   	ARCHITECT/ENGINEERS:  750 W HAMPPDEN AVE SUITE #300 ENGLEWOOD, CO 80110 (720) 550-6307 WWW.VALHALLAENGINEERING.COM	STAMP:  08-05-20		Drawing Title <b>IRRIGATION PLAN</b>	Phase 100% CONSTRUCTION DOCUMENTS	Project Title OUTPATIENT MENTAL HEALTH / EDUCATION ADDITION	Project Number 436-114
				Approved: Project Director	Location Issue Date 08/05/2020	Checked bgb	Drawn bdr



**IRRIGATION LEGEND**

SYMBOL	DESCRIPTION	DETAIL
IR1	DRIP IRRIGATION	RE: SPEC 328400 - IRRIGATION
IR2	4\"/>	

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**1 IRRIGATION ENLARGEMENT PLAN**  
SCALE: 1" = 10'

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CONSULTANTS:   	ARCHITECT/ENGINEERS:  750 W HAMPPDEN AVE SUITE #300 ENGLEWOOD CO 80110 (720) 550-6307 WWW.VALHALLAENGINEERING.COM VEG 4.11	STAMP:  	Drawing Title <b>IRRIGATION ENLARGEMENT PLAN</b>	Phase <b>100% CONSTRUCTION DOCUMENTS</b>	Project Title <b>OUTPATIENT MENTAL HEALTH / EDUCATION ADDITION</b>	Project Number <b>436-114</b>
			Approved: Project Director	Location Issue Date: 08/05/2020 Checked: bgb Drawn: bdr	Building Number <b>173</b>	Drawing Number <b>L-410-P1</b>