

SCALE: 1" = 2000'

SITE PLAN W/WAIVER ALAMEDA BUCKLEY STORAGE

A Resubdivision of a part of Lots 1 & 2, Block 1, Tollgate Village Subdivision Filing No. 13,
Situated in the NE 1/4 Section 17, T. 4 S. R. 66 W., of the 6th P.M.,
City of Aurora, County of Arapahoe, State of Colorado

PROPERTY DESCRIPTION

A PARCEL OF LAND BEING A PART OF LOTS 1 AND 2, BLOCK 1, TOLLGATE VILLAGE SUBDIVISION FILING NO. 13, A SUBDIVISION PLAT RECORDED IN BOOK 45 AT PAGE 39, RECEPTION NO. 1970225, IN THE OFFICE OF THE ARAPAHOE COUNTY CLERK AND RECORDER, SITUATED IN THE NE 1/4 OF SECTION 17, T. 4 S., R. 66 W., OF THE 6TH P.M., CITY OF AURORA, COUNTY OF ARAPAHOE, STATE OF COLORADO AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF LOT 1, BLOCK 1, SAID TOLLGATE VILLAGE SUBDIVISION FILING NO. 13;
THENCE N 85°41'33" W, ALONG THE SOUTHERLY RIGHT-OF-WAY LINE OF EAST ALAMEDA PARKWAY A DISTANCE OF 399.87 FEET TO THE POINT OF BEGINNING, SAID POINT ALSO BEING THE NORTHWEST CORNER OF A PARCEL OF LAND AS DESCRIBED IN BOOK 5199 AT PAGE 538;
THENCE S 04°18'27" W, ALONG THE WEST LINE OF SAID PARCEL OF LAND, A DISTANCE OF 689.00 FEET TO A POINT ON THE SOUTH LINE OF SAID TOLLGATE VILLAGE SUBDIVISION FILING NO. 13;
THENCE N 89°46'12" W, ALONG SAID SOUTH LINE A DISTANCE OF 207.99 FEET TO THE SOUTHWEST CORNER OF SAID TOLLGATE VILLAGE SUBDIVISION FILING NO. 13;
THENCE ALONG THE WESTERLY BOUNDARY LINES OF SAID TOLLGATE VILLAGE SUBDIVISION FILING NO. 13 THE FOLLOWING TWO (2) COURSES;

- 1.) N 07°25'06" W, A DISTANCE OF 386.85 FEET;
- 2.) N 50°34'42" W, A DISTANCE OF 565.02 FEET TO THE NORTHWEST CORNER OF SAID TOLLGATE VILLAGE SUBDIVISION FILING NO. 13;

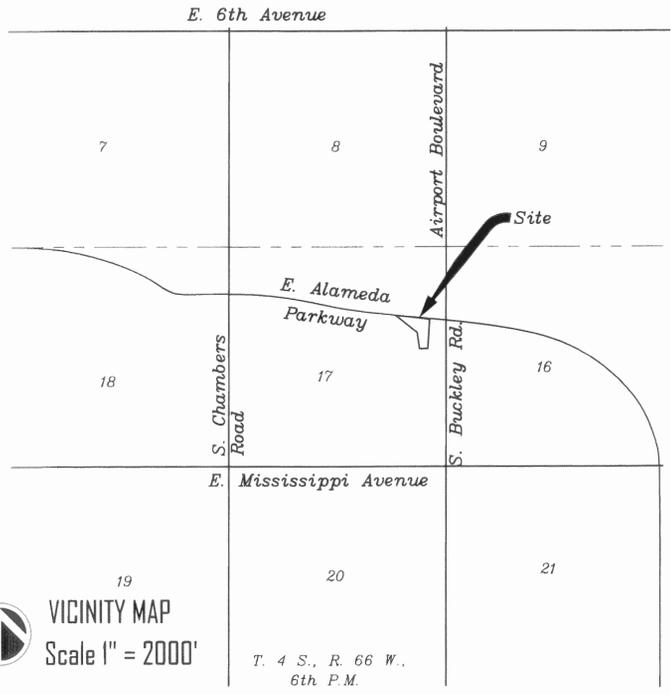
THENCE S 85°41'33" E, ALONG THE NORTHERLY BOUNDARY LINE OF SAID TOLLGATE VILLAGE SUBDIVISION FILING NO. 13 AND ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE OF EAST ALAMEDA PARKWAY, A DISTANCE OF 748.28 FEET TO THE POINT OF BEGINNING;

CONTAINING 5.97 ACRES (260,026 S.F.) MORE OR LESS.

THIS SITE PLAN AND ANY AMENDMENTS HERETO, UPON APPROVAL BY THE CITY OF AURORA AND RECORDING, SHALL BE BINDING UPON THE APPLICANTS THEREFORE, THEIR SUCCESSORS AND ASSIGNS. THIS PLAN SHALL LIMIT AND CONTROL THE ISSUANCE AND VALIDITY OF ALL BUILDING PERMITS AND SHALL RESTRICT AND LIMIT THE CONSTRUCTION, LOCATION, USE, OCCUPANCY AND OPERATION OF ALL LAND AND STRUCTURES WITHIN THIS PLAN TO ALL CONDITIONS, REQUIREMENTS, LOCATIONS AND LIMITATIONS SET FORTH HEREIN. ABANDONMENT, WITHDRAWAL OR AMENDMENT OF THIS PLAN MAY BE PERMITTED ONLY ONLY APPROVAL OF THE CITY OF AURORA.

IN WITNESS WHEREOF ALAMEDA & BUCKLEY VENTURE, L.L.C., A COLORADO LIMITED LIABILITY COMPANY HAVE CAUSED THESE PRESENTS TO BE EXECUTED THIS 29 DAY OF September A.D. 2004.

BY: Thomas Sattler
THOMAS SATTLER, AS MANAGER



STATE OF COLORADO)
COUNTY OF Arapahoe)SS

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS 29th DAY OF September, A.D. 2004, BY THOMAS SATTLER AS MANAGER OF ALAMEDA & BUCKLEY VENTURE, L.L.C., A COLORADO LIMITED LIABILITY COMPANY.



WITNESS MY HAND AND OFFICIAL SEAL
Martha M. Antiveros
NOTARY PUBLIC
MY COMMISSION EXPIRES April 16, 2005
NOTARY BUSINESS ADDRESS: 5990 Greenwood Plaza, Bld. #118 Greenwood Village, CO 80111

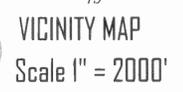
CITY OF AURORA APPROVALS

CITY ATTORNEY: Patricia Williams DATE: 10/12/04
PLANNING DIRECTOR: Bob Witten DATE: 10/17/04
PLANNING COMMISSION: H DATE: 8/27/03
(Chairman)
ATTEST: _____ DATE: _____
(City Clerk)

RECORDER'S CERTIFICATE

ACCEPTED FOR FILING IN THE OFFICE OF THE CLERK AND RECORDER OF ARAPAHOE COUNTY, COLORADO, AT _____ O'CLOCK ____ M., THIS _____ DAY OF _____, A.D. 2004.

CLERK AND RECORDER: _____
DEPUTY _____



T. 4 S., R. 66 W.,
6th P.M.

PROJECT DATA

	PHASE ONE		PHASE TWO		TRACT A		TOTALS	
	AC./S.F.	AC./S.F.	AC./S.F.	AC./S.F.	AC./S.F.	AC./S.F.	AC./S.F.	
LAND AREA WITHIN PROPERTY LINE	187,112/4.30	65,693/1.51	7,221/0.17		260,026/5.97			
GROSS FLOOR AREA (PER 41-16 CITY CODE)	66,371/1.52	9,425/0.22	0/0		75,796/1.74			
NUMBER OF BUILDINGS	13	4			17			
NUMBER OF STORIES	1	1			1			
MAXIMUM HEIGHT OF BUILDINGS	35 FEET	35 FEET	35 FEET		35 FEET			
TOTAL BUILDING COVERAGE	66,371/1.52	9,425/0.22	0/0		75,796/1.74			
HARD SURFACE COVERAGE	54,194/1.25	13,950/0.32			68,144/1.57			
LANDSCAPE AREA - TOTAL INCLUDING BUFFER	66,734/1.53	42,253/0.97	7,221/0.17		116,208/2.67			
LANDSCAPE AREA - INSIDE BUFFER	26,572/0.61	20,038/0.46	7,221/0.17		53,831/1.23			
PRESENT ZONING CLASSIFICATION					PCZD			
PROPOSED USES					MINI-STORAGE			
PERMITTED MAXIMUM SIGN AREA					242.5			
PROPOSED NUMBER OF SIGNS	3				3			
1 MONUMENTATION SIGN - DOUBLE FACE 10'x5'					100			
1 WALL MOUNTED SIGN - 12'x2.5'					30			
1 WALL MOUNTED SIGN -					8.6			
PROPOSED TOTAL SIGN AREA					138.6			
PARKING SPACES REQUIRED					6			
PARKING SPACES PROVIDED					7			
HANDICAP SPACES REQUIRED					1			
HANDICAP SPACES PROVIDED					1			
LOADING SPACES REQUIRED					N/A			
LOADING SPACES PROVIDED					N/A			

WAIVER:
1 - SETBACK ON EAST SIDE OF BUILDINGS 8 AND 9 TO BE WAIVED TO ALLOW A MINIMUM OF 3.6' SETBACK NEXT TO POST OFFICE.

AMENDMENTS

Mylar change 5-13-05

- 1. Add storefront double glass door to west elevation
- 2. Delete windows on west elevation to gain sheer wall support
- 3. Raise 2nd floor kitchen window approx. 12" to accommodate countertop
- 4. Revise fencing to wrought iron from aluminum
- 5. Change fencing to arched top from straight
- 6. Change entry gate to 2'4" lift gate from sliding gate
- 7. Show as built walk locations
- 8. Revise monument sign
- 9. Relocate wall sign

2. CMRS Tower ("Monopine") in the southwest corner. Nine supplemental sheets. Approved by Planning Commission December 12, 2018.

3. Telecom Facility Co-Location & 20' Height Increase - See additional supplemental sheets

4. Telecom Facility - Minor Amendment to Ground Shelter - See additional supplemental sheets

5. Minor amendment to revise self storage area in northwest corner of site to fiber-optic communications hut

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SHEETS 8-10	SITE PLAN-GRADING PLAN
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SHEET 17(L-2)	LANDSCAPE-PLANT LEGEND AND NOTES
SHEET 18(L-3)	LANDSCAPE PLAN
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NEW SHEETS FOR CMRS TOWER

SITE PLAN W/WAIVER
ALAMEDA BUCKLEY STORAGE
COSTIN ENGINEERING CONSULTANTS, INC.
7353 S. Alton Way, Suite A115 Englewood, Colorado 80112
PH (303) 790-4969
FAX (303) 790-4967
Revised 10-03-2003
Revised 12-12-2003
Revised 1-20-2004

ENGINEERING
LAND SURVEYING
CONSTRUCTION MANAGEMENT
Prepared 4-21-2003
Project No 419
Sheet 1 of 15
Revised 6-25-2003
Revised 7-23-2003

**SITE PLAN W/WAIVER
ALAMEDA BUCKLEY STORAGE**

A Resubdivision of a part of Lots 1 & 2, Block 1, Tollgate Village Subdivision Filing No. 15,
Situating in the NE 1/4 Section 17, T. 4 S. R. 66 W., of the 6th P.M.,
City of Aurora, County of Arapahoe, State of Colorado

SITE PLAN GENERAL NOTES:

1. THE DEVELOPER, HIS SUCCESSORS AND ASSIGNS, INCLUDING THE HOMEOWNERS OR MERCHANTS ASSOCIATION, SHALL BE RESPONSIBLE FOR INSTALLATION, MAINTENANCE AND REPLACEMENT OF ALL FIRE LANE SIGNS AS REQUIRED BY THE CITY OF AURORA.
2. ALL SIGNS MUST CONFORM TO THE CITY OF AURORA SIGN CODE.
3. RIGHT OF WAY FOR INGRESS AND EGRESS FOR SERVICE AND EMERGENCY VEHICLES IS GRANTED OVER, ACROSS, ON AND THROUGH ANY AND ALL PRIVATE ROADS AND WAYS NOW OR HEREAFTER ESTABLISHED ON THE DESCRIBED PROPERTY, AND THE SAME ARE HEREBY DESIGNATED AS "SERVICE/EMERGENCY AND UTILITY EASEMENTS" AND SHALL BE POSTED "NO PARKING/FIRE LANE."
4. "ACCESSIBLE EXTERIOR ROUTES" SHALL BE PROVIDED FROM PUBLIC TRANSPORTATION STOPS, ACCESSIBLE PARKING, ACCESSIBLE PASSENGER LOADING ZONES AND PUBLIC SIDEWALKS TO THE ACCESSIBLE BUILDING ENTRANCE THEY SERVE. AT LEAST 50% OF ALL BUILDING ENTRANCES SHALL BE THE MOST PRACTICAL DIRECT ROUTE. NO SLOPE ALONG THIS ROUTE MAY EXCEED 1:20 WITHOUT PROVIDING A RAMP WITH A MAXIMUM SLOPE OF 1:12 AND HANDRAILS. CROSSWALKS ALONG THIS ROUTE SHALL BE WIDE ENOUGH TO WHOLLY CONTAIN THE CURB RAMP WITH A MINIMUM WIDTH OF 36", AND SHALL BE PAINTED WITH WHITE STRIPS. REQUIRED ACCESSIBLE MEANS OF EGRESS SHALL BE CONTINUOUS FROM EACH REQUIRED ACCESSIBLE OCCUPIED AREA TO THE PUBLIC WAY. THE "ACCESSIBLE EXTERIOR ROUTES" SHALL COMPLY WITH U.B.C. CHAPTER 11, APPENDIX 11, AND C.A.B.O./A.N.S.I. 117.1.
5. THE APPLICANT HAS THE OBLIGATION TO COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE AMERICAN DISABILITIES ACT.
6. THE DEVELOPER, HIS SUCCESSORS AND ASSIGNS, SHALL BE RESPONSIBLE FOR INSTALLATION, MAINTENANCE AND REPLACEMENT OF ALL LANDSCAPE MATERIALS SHOWN OR INDICATED ON THE APPROVED SITE PLAN OR LANDSCAPE PLAN ON FILE IN THE PLANNING DEPARTMENT. ALL LANDSCAPING WILL BE INSTALLED PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY.
7. ALL CROSSINGS OR ENCROACHMENTS BY PRIVATE LANDSCAPE IRRIGATION LINES OR SYSTEMS INTO EASEMENTS AND STREET RIGHTS OF WAY OWNED BY THE CITY OF AURORA ARE ACKNOWLEDGED BY THE UNDERSIGNED AS BEING SUBJECT TO THE CITY OF AURORA'S USE AND OCCUPANCY OF SAID EASEMENTS OR RIGHTS OF WAY. THE UNDERSIGNED, THEIR SUCCESSORS AND ASSIGNS, HEREBY AGREE TO INDEMNIFY THE CITY OF AURORA FOR ANY LOSS, DAMAGE OR REPAIR TO THE CITY FACILITIES THAT MAY RESULT FROM THE INSTALLATION, OPERATION OR MAINTENANCE OF SAID PRIVATE IRRIGATION LINES OR SYSTEMS.
ARCHITECTURAL FEATURES (I.E. BAY WINDOWS, FIREPLACES, ROOF OVERHANGS, FOUNDATIONS, FOOTINGS, CANTILEVERED WALLS, ETC.) ARE NOT ALLOWED TO ENCROACH INTO ANY EASEMENT OR FIRE LANE.
8. THE APPROVAL OF THIS DOCUMENT DOES NOT CONSTITUTE FINAL APPROVAL OF GRADING, DRAINAGE, UTILITY, PUBLIC IMPROVEMENTS AND BUILDING PLANS. CONSTRUCTION PLANS MUST BE REVIEWED AND APPROVED BY THE APPROPRIATE AGENCY PRIOR TO THE ISSUANCE OF BUILDING PERMITS.
9. ALL BUILDING ADDRESS NUMBERS SHALL COMPLY WITH SECTIONS 126-271 AND 126-278 OF THE AURORA CITY CODE.
10. ALL ROOFTOP MECHANICAL EQUIPMENT AND VENTS GREATER THAN EIGHT (8) INCHES IN DIAMETER MUST BE SCREENED. SCREENING MAY BE DONE EITHER WITH AN EXTENDED PARAPET WALL OR A FREE STANDING SCREEN WALL. SCREENS SHALL BE AT LEAST AS HIGH AS THE EQUIPMENT THEY HIDE. IF EQUIPMENT IS VISIBLE BECAUSE SCREENS DON'T MEET THIS REQUIREMENT, THE DIRECTOR OF PLANNING MAY REQUIRE CONSTRUCTION MODIFICATIONS PRIOR TO THE ISSUANCE OF A PERMANENT CERTIFICATE OF OCCUPANCY.
11. NOTWITHSTANDING ANY SURFACE IMPROVEMENTS, LANDSCAPING, PLANTING OR CHANGES SHOWN IN THESE SITE OR CONSTRUCTION PLANS, OR ACTUALLY CONSTRUCTED OR PUT IN PLACE, ALL UTILITY EASEMENTS MUST REMAIN UNOBSTRUCTED AND FULLY ACCESSIBLE ALONG THEIR ENTIRE LENGTH TO ALLOW FOR ADEQUATE MAINTENANCE EQUIPMENT. ADDITIONALLY, NO INSTALLATION, PLANTING, CHANGE IN THE SURFACE, ET CETERA SHALL INTERFERE WITH THE OPERATION OF THE UTILITY LINES PLACED WITHIN THE EASEMENT. BY SUBMITTING THESE SITE OR CONSTRUCTION PLANS FOR APPROVAL, THE LANDOWNER RECOGNIZES AND ACCEPTS THE TERMS, CONDITIONS AND REQUIREMENTS OF THIS NOTE.
12. FINAL GRADE SHALL BE AT LEAST SIX (6) INCHES BELOW ANY EXTERIOR WOOD SIDING ON THE PREMISES.

SITE PLAN GENERAL NOTES Continued:

13. ALL INTERESTED PARTIES ARE HEREBY ALERTED THAT THIS SITE PLAN IS SUBJECT TO ADMINISTRATIVE CHANGES AND AS SHOWN ON THE ORIGINAL SITE PLAN ON FILE IN THE AURORA CITY PLANNING OFFICE AT THE MUNICIPAL BUILDING. A COPY OF THE OFFICIAL CURRENT PLAN MAY BE PURCHASED THERE. LIKEWISE, SITE PLANS ARE REQUIRED TO AGREE WITH THE APPROVED SUBDIVISION PLAT OF RECORD AT THE TIME OF A BUILDING PERMIT; AND IF NOT, MUST BE AMENDED TO AGREE WITH THE PLAT AS NEEDED, OR VICE VERSA.
14. ERRORS IN APPROVED SITE PLANS RESULTING FROM COMPUTATIONS OR INCONSISTENCIES IN THE DRAWINGS MADE BY THE APPLICANT ARE THE RESPONSIBILITY OF THE PROPERTY OWNER OF RECORD. WHERE FOUND, THE CURRENT MINIMUM CODE REQUIREMENTS WILL APPLY AT THE TIME OF BUILDING PERMIT. PLEASE BE SURE THAT ALL PLAN COMPUTATIONS ARE CORRECT.
15. ALL REPRESENTATIVES AND COMMITMENTS MADE BY APPLICANTS AND PROPERTY OWNERS AT PUBLIC HEARINGS REGARDING THIS PLAN ARE BINDING UPON THE APPLICANT, PROPERTY OWNER, AND ITS HEIRS, SUCCESSORS, AND ASSIGNS.
16. STREET LIGHT INSTALLATION COST IS FUNDED BY THE DEVELOPER/OWNER. COORDINATE THE INSTALLATION WITH AURORA PUBLIC WORKS @ (303) 739-7300.
17. THE VENDOR OF ANY FUTURE SALE OF THE PROPERTY SHALL PROVIDE THE REQUIRED NOTICE PER CITY CODE SECTION 146-1587(C) TO BE RECORDED WITH THE COUNTY CLERK AND RECORDER AND SHALL PROVIDE SUCH NOTICE TO EACH PROSPECTIVE PURCHASER OF ANY AND ALL SAID PROPERTY. SEE EXHIBIT C4 UNDER THE AIRPORT RELATED LAND USE RESTRICTIONS SECTION OF THIS GUIDEBOOK.
18. THIS PROPERTY IS AFFECTED BY COVENANTS REGARDING AIRCRAFT OVER FLIGHT AS SET FORTH IN THE INSTRUMENT RECORDED MAY 30, 1975 IN BOOK 2339 AT PAGE 186, ARAPAHOE COUNTY CLERK AND RECORDER'S OFFICE.
19. NO CONSTRUCTION ACTIVITY WILL BE ON CITY PROPERTY. THIS INCLUDES, BUT IS NOT LIMITED TO GRADING AND CONSTRUCTION TRAFFIC. AN ORANGE CONSTRUCTION FENCE ON T-POSTS MUST BE INSTALLED AT THE PROPERTY LINE TO NOTE THE LIMITS OF CONSTRUCTION.
20. ALL PRAIRIE DOGS MUST BE REMOVED FROM THE SITE PRIOR TO ANY CONSTRUCTION ACTIVITY. THE DEVELOPER IS RESPONSIBLE FOR ENSURING THAT NO PRAIRIE DOG POPULATIONS RELOCATE ACROSS PROPERTY LINES ON LANDS NOT OWNED BY THE DEVELOPMENT.
21. NO CUSTOMER ACCESS WILL BE PROVIDED BETWEEN THE HOURS OF MIDNIGHT AND 6 A.M.
22. THE APPLICANT SHALL PROVE COMPLIANCE WITH THE ENDANGERED SPECIES ACT AS PART OF THE 404 PERMIT REQUEST AND SHALL NOTIFY THE CENTREPOINTE NEIGHBORHOOD ASSOCIATION OF SUCH COMPLIANCE.
23. THE APPLICANT SHALL BE IN COMPLIANCE WITH CITY OF AURORA STANDARDS FOR WETLANDS IMPACT AND MITIGATION AND SHALL NOTIFY THE CENTREPOINTE NEIGHBORHOOD ASSOCIATION OF SUCH COMPLIANCE.
24. THE APPLICANT SHALL NOTIFY THE ARMY CORPS OF ENGINEERS REGARDING IMPACT OF THIS PROJECT ON WETLANDS AND SHALL NOTIFY THE CENTREPOINTE NEIGHBORHOOD ASSOCIATION OF SUCH NOTIFICATION.

**SITE PLAN W/WAIVER
ALAMEDA BUCKLEY STORAGE**

COSTIN ENGINEERING CONSULTANTS, INC.

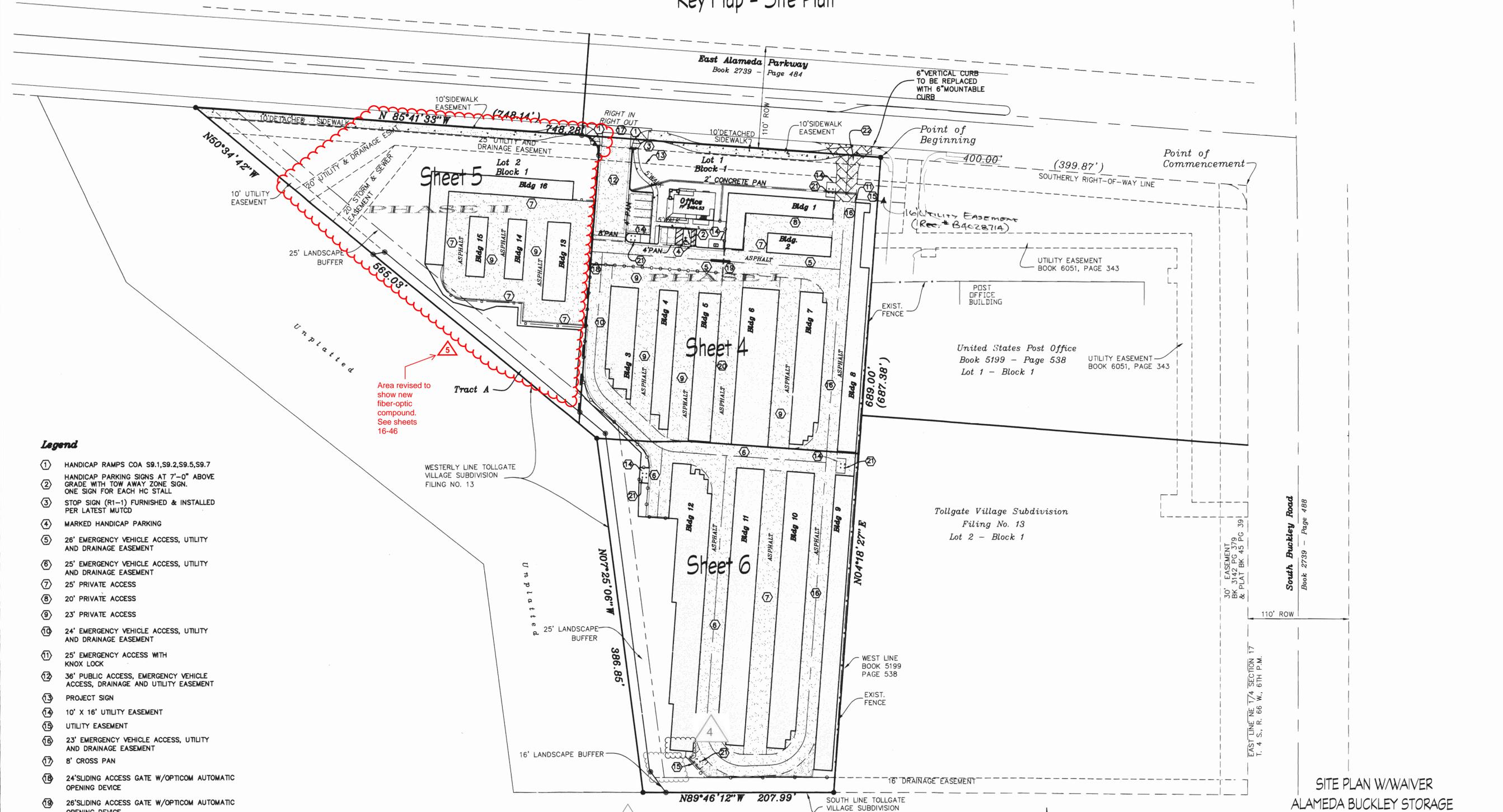
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CONSTRUCTION MANAGEMENT

7353 S. Alton Way, Suite A115 Englewood, Colorado 80112 PH (303) 790-4969 FAX (303) 790-4967	Prepared 4-21-2003 Project No 419 Sheet 2 of 15 Revised 6-25-2003 Revised 7-23-2003 Revised 9-2-2003
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Revised 12-12-2003

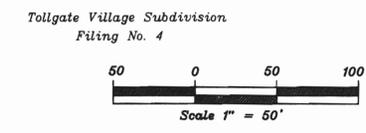
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City of Aurora, County of Arapahoe, State of Colorado
Key Map - Site Plan



- Legend**
- ① HANDICAP RAMPS COA S9.1, S9.2, S9.5, S9.7
 - ② HANDICAP PARKING SIGNS AT 7'-0" ABOVE GRADE WITH TOW AWAY ZONE SIGN. ONE SIGN FOR EACH HC STALL
 - ③ STOP SIGN (R1-1) FURNISHED & INSTALLED PER LATEST MUTCD
 - ④ MARKED HANDICAP PARKING
 - ⑤ 26' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT
 - ⑥ 25' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT
 - ⑦ 25' PRIVATE ACCESS
 - ⑧ 20' PRIVATE ACCESS
 - ⑨ 23' PRIVATE ACCESS
 - ⑩ 24' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT
 - ⑪ 25' EMERGENCY ACCESS WITH KNOX LOCK
 - ⑫ 36' PUBLIC ACCESS, EMERGENCY VEHICLE ACCESS, DRAINAGE AND UTILITY EASEMENT
 - ⑬ PROJECT SIGN
 - ⑭ 10' X 16' UTILITY EASEMENT
 - ⑮ UTILITY EASEMENT
 - ⑯ 23' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT
 - ⑰ 8' CROSS PAN
 - ⑱ 24' SLIDING ACCESS GATE W/OPTICOM AUTOMATIC OPENING DEVICE
 - ⑲ 26' SLIDING ACCESS GATE W/OPTICOM AUTOMATIC OPENING DEVICE
 - ⑳ 23' UTILITY EASEMENT AND PRIVATE ACCESS
 - ㉑ FIRE HYDRANT BOLLARDS (TYP.)
 - ㉒ EMERGENCY ACCESS - ASPHALT/CONCRETE AND SIDEWALK WILL SUPPORT FIRE APPARATUS UP TO 65000 LBS.
 - ⊕ Found Aliquot Monument as noted
 - Found #5 Rebar w/1 1/4" Plastic Cap, LS#16409
 - ⊙ Found #5 Rebar w/1 1/4" Plastic Cap, LS#11330

NOTE: ALL UTILITIES (INCLUDING STORM AND DETENTION POND), AND DIRT WORK WILL BE CONSTRUCTED WITH PHASE I. BUILDINGS AND PAVING IN PHASE II WILL BE COMPLETED AT A LATER DATE.



SITE PLAN W/WAIVER
ALAMEDA BUCKLEY STORAGE

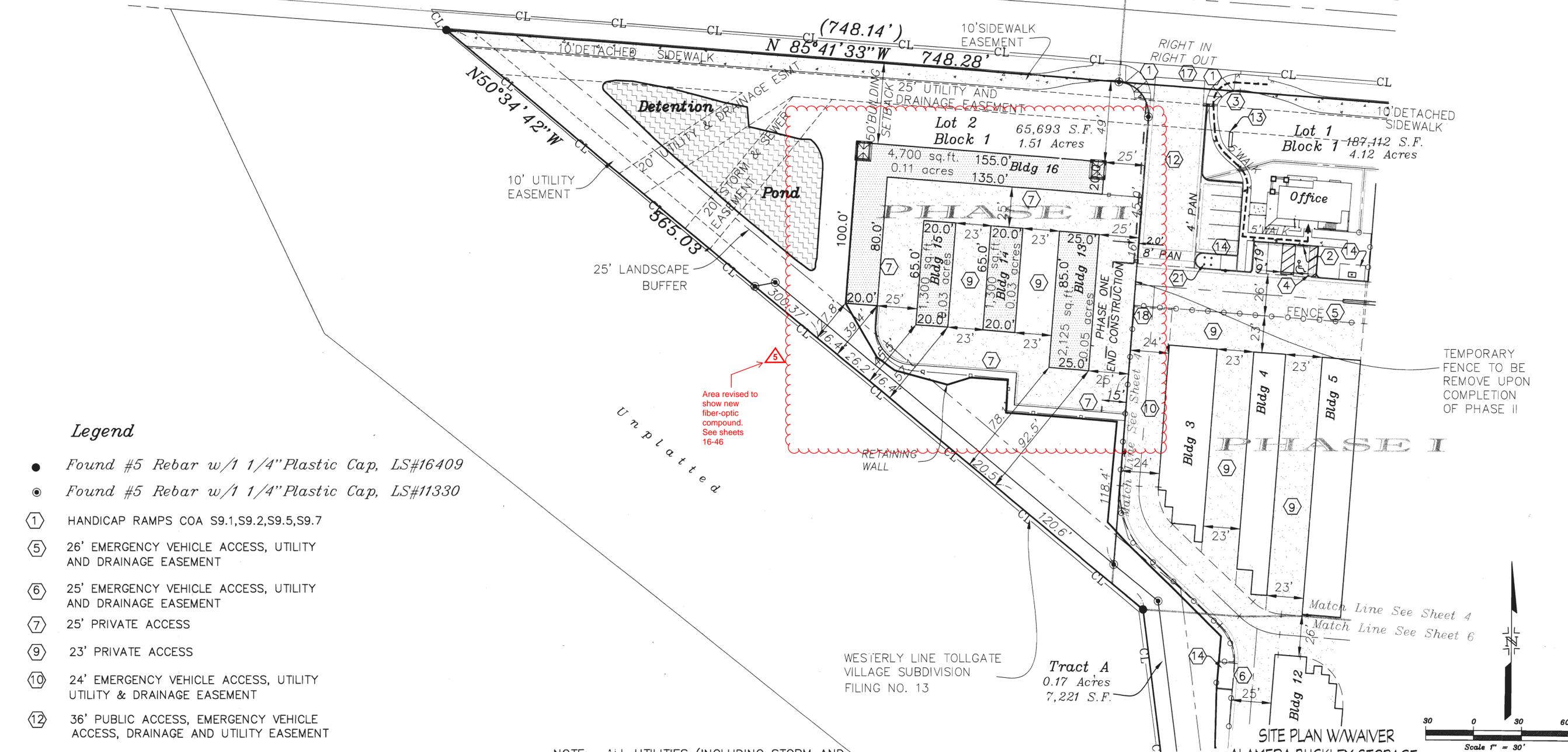
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Sheet 3 of 15
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East Alameda Parkway
Book 2739 - Page 484



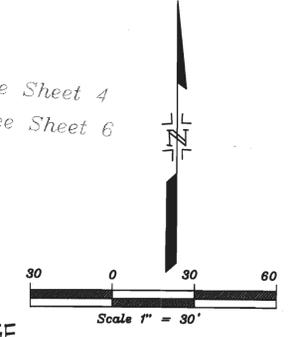
Legend

- Found #5 Rebar w/1 1/4" Plastic Cap, LS#16409
- Found #5 Rebar w/1 1/4" Plastic Cap, LS#11330
- ① HANDICAP RAMPS COA S9.1, S9.2, S9.5, S9.7
- ⑤ 26' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT
- ⑥ 25' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT
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- ⑳ FIRE HYDRANT BOLLARDS (TYP.)
- FIRE LANE SIGN
- CL—CL— LIMITS OF CONSTRUCTION
- — — — — PHASE LINE

NOTE: ALL UTILITIES (INCLUDING STORM AND DETENTION POND), AND DIRT WORK WILL BE CONSTRUCTED WITH PHASE I. BUILDINGS AND PAVING IN PHASE II WILL BE COMPLETED AT A LATER DATE.

COSTIN ENGINEERING CONSULTANTS, INC.
 7353 S. Alton Way, Suite A115 **ENGINEERING**
 Englewood, Colorado 80112 **LAND SURVEYING**
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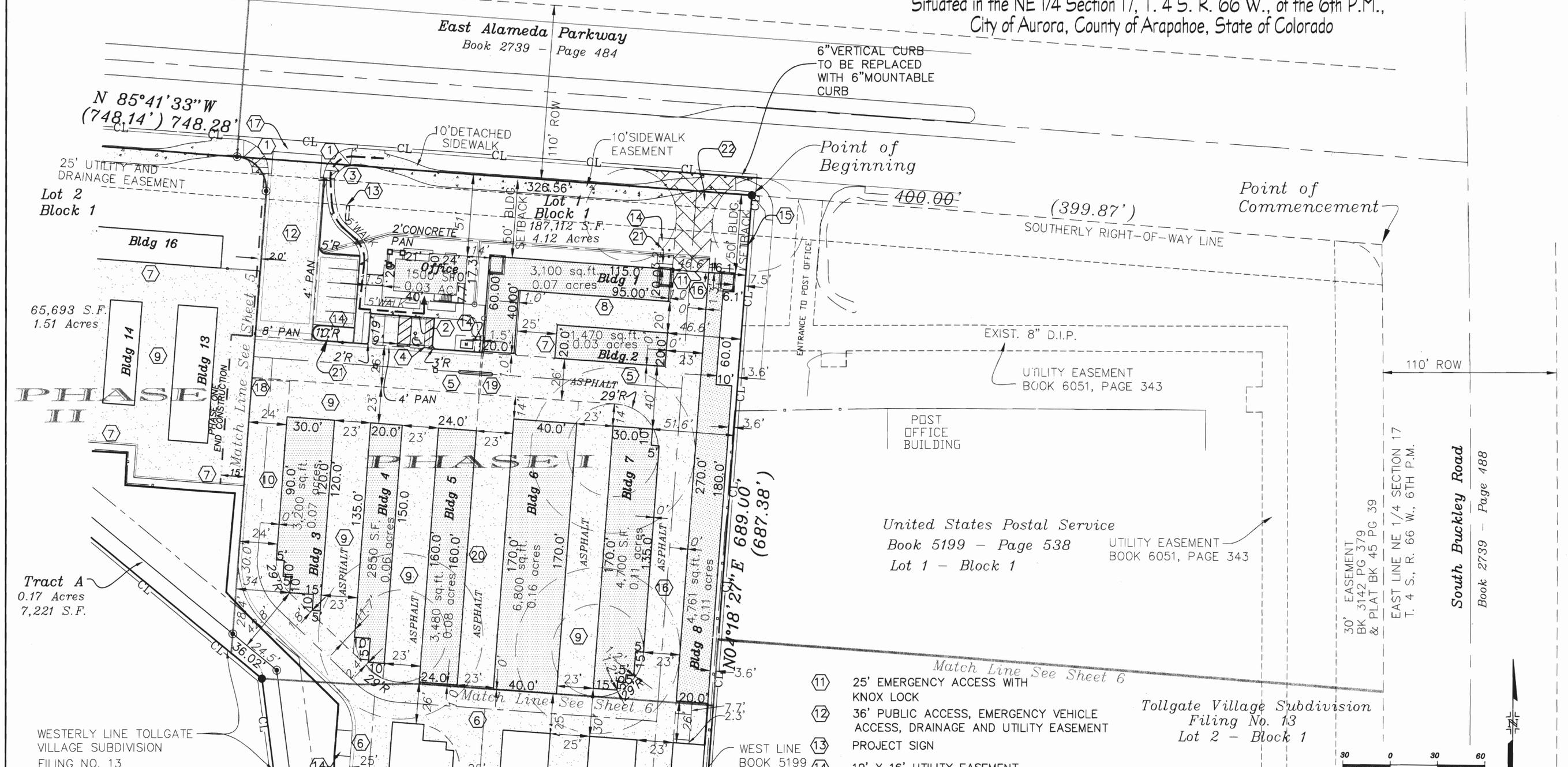
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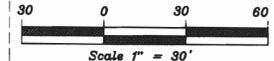


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 - ① HANDICAP RAMPS COA S9.1, S9.2, S9.5, S9.7
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 - ④ MARKED HANDICAP PARKING

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- ⑬ PROJECT SIGN
- ⑭ 10' X 16' UTILITY EASEMENT
- ⑮ UTILITY EASEMENT
- ⑯ 23' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT
- ⑰ 8' CROSS PAN
- ⑱ 24' SLIDING ACCESS GATE W/OPTICOM AUTOMATIC OPENING DEVICE
- ⑲ 26' SLIDING ACCESS GATE W/OPTICOM AUTOMATIC OPENING DEVICE
- ⑳ 23' UTILITY EASEMENT AND PRIVATE ACCESS
- ㉑ FIRE HYDRANT BOLLARDS (TYP.)
- ㉒ EMERGENCY ACCESS - ASPHALT/CONCRETE AND SIDEWALK WILL SUPPORT FIRE APPARATUS UP TO 65000 LBS.

Tollgate Village Subdivision
Filing No. 13
Lot 2 - Block 1



SITE PLAN W/WAIVER
ALAMEDA BUCKLEY STORAGE

COSTIN ENGINEERING CONSULTANTS, INC.
7353 S. Alton Way, Suite A115 Englewood, Colorado 80112
ENGINEERING
LAND SURVEYING
PH (303) 790-4969
FAX (303) 790-4967
Rev. 10-03-2003
Rev. 12-12-2003
Rev. 3-29-2004

CONSTRUCTION MANAGEMENT
Prepared 4-21-2003
Project No 419
Sheet 4 of 15
Rev. 6-25-2003
Rev. 7-23-2003

SITE PLAN W/WAIVER ALAMEDA BUCKLEY STORAGE

A Resubdivision of a part of Lots 1 & 2, Block 1, Tollgate Village Subdivision Filing No. 13,
Sited in the NE 1/4 Section 17, T. 4 S. R. 66 W., of the 6th P.M.,
City of Aurora, County of Arapahoe, State of Colorado

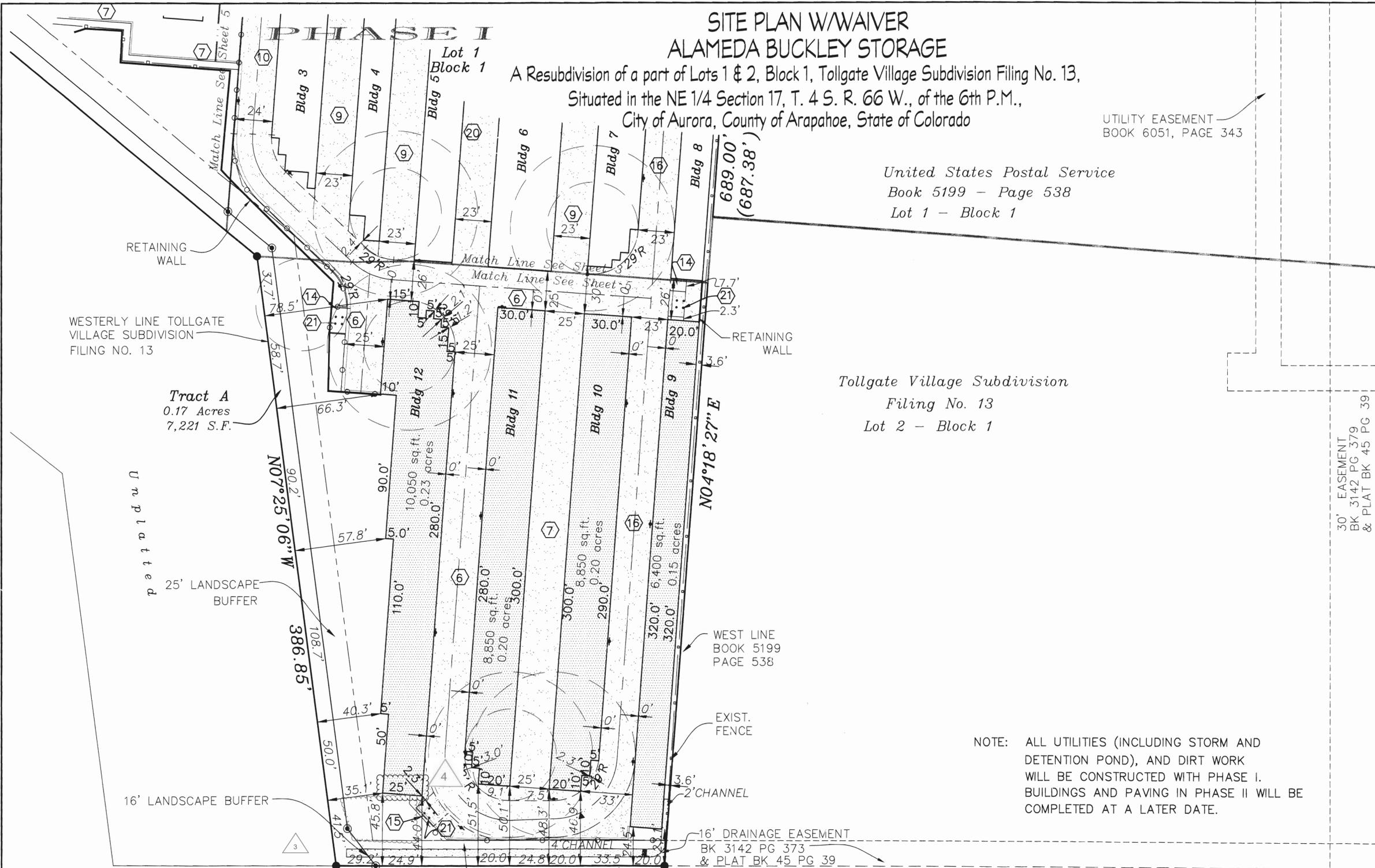
UTILITY EASEMENT
BOOK 6051, PAGE 343

United States Postal Service
Book 5199 - Page 538
Lot 1 - Block 1

Tollgate Village Subdivision
Filing No. 13
Lot 2 - Block 1

30' EASEMENT
BK 3142 PG 379
& PLAT BK 45 PG 39

South Buckley Road
Book 2739 - Page 488



NOTE: ALL UTILITIES (INCLUDING STORM AND DETENTION POND), AND DIRT WORK WILL BE CONSTRUCTED WITH PHASE I. BUILDINGS AND PAVING IN PHASE II WILL BE COMPLETED AT A LATER DATE.

Legend

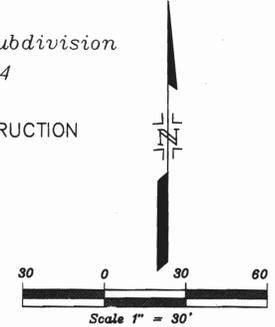
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- ⊙ Found #5 Rebar w/1 1/4" Plastic Cap, LS#11330
- ⑥ 25' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT
- ⑦ 25' PRIVATE ACCESS
- ⑨ 23' PRIVATE ACCESS
- ⑩ 24' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT
- ⑭ 10' X 16' UTILITY EASEMENT
- ⑮ UTILITY EASEMENT
- ⑯ 23' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT
- ⑰ 23' UTILITY EASEMENT AND PRIVATE ACCESS
- ⑳ FIRE HYDRANT BOLLARDS (TYP.)
- ㉑ FIRE LANE SIGN

SOUTH LINE TOLLGATE VILLAGE SUBDIVISION FILING NO. 13

Tollgate Village Subdivision Filing No. 4

—CL—CL— LIMITS OF CONSTRUCTION

--- PHASE LINE



SITE PLAN W/WAIVER
ALAMEDA BUCKLEY STORAGE

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7353 S. Alton Way, Suite A115 Englewood, Colorado 80112
PH (303) 790-4969 FAX (303) 790-4967
Rev. 10-03-2003 Rev. 12-12-2003 Rev. 3-29-2004

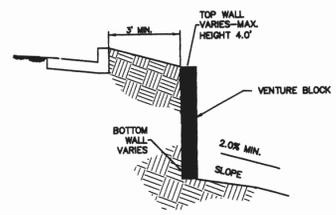
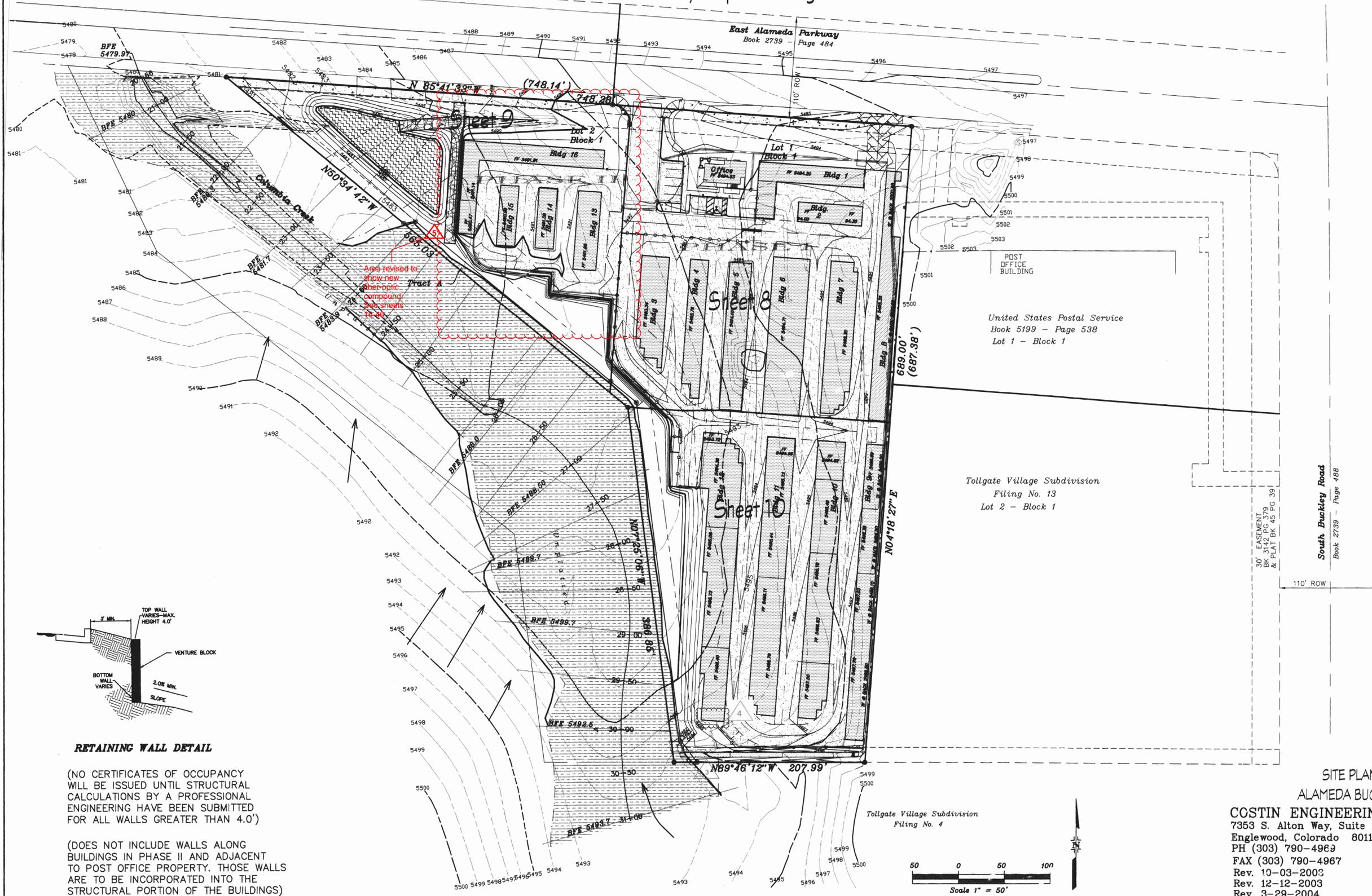
**ENGINEERING
LAND SURVEYING
CONSTRUCTION MANAGEMENT**

Prepared 4-21-2003
Project No 419
Sheet 6 of 15
Rev. 6-25-2003
Rev. 7-23-2003

C:\MCHP\EXHIBITS\10-12-03\15SITE-SKETCHES.DWG MOD MAY 17 11:37:29 2004

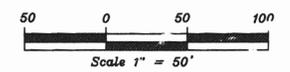
SITE PLAN W/WAIVER ALAMEDA BUCKLEY STORAGE

A Resubdivision of a part of Lots 1 & 2, Block 1, Tollgate Village Subdivision Filing No. 13,
Situated in the NE 1/4 Section 17, T. 4 S. R. 66 W., of the 6th P.M.,
City of Aurora, County of Arapahoe, State of Colorado
Key Map - Grading Plan



(NO CERTIFICATES OF OCCUPANCY WILL BE ISSUED UNTIL STRUCTURAL CALCULATIONS BY A PROFESSIONAL ENGINEERING HAVE BEEN SUBMITTED FOR ALL WALLS GREATER THAN 4.0')

(DOES NOT INCLUDE WALLS ALONG BUILDINGS IN PHASE II AND ADJACENT TO POST OFFICE PROPERTY. THOSE WALLS ARE TO BE INCORPORATED INTO THE STRUCTURAL PORTION OF THE BUILDINGS)



SITE PLAN W/WAIVER
ALAMEDA BUCKLEY STORAGE

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Rev. 10-03-2003
Rev. 12-12-2003
Rev. 3-29-2004

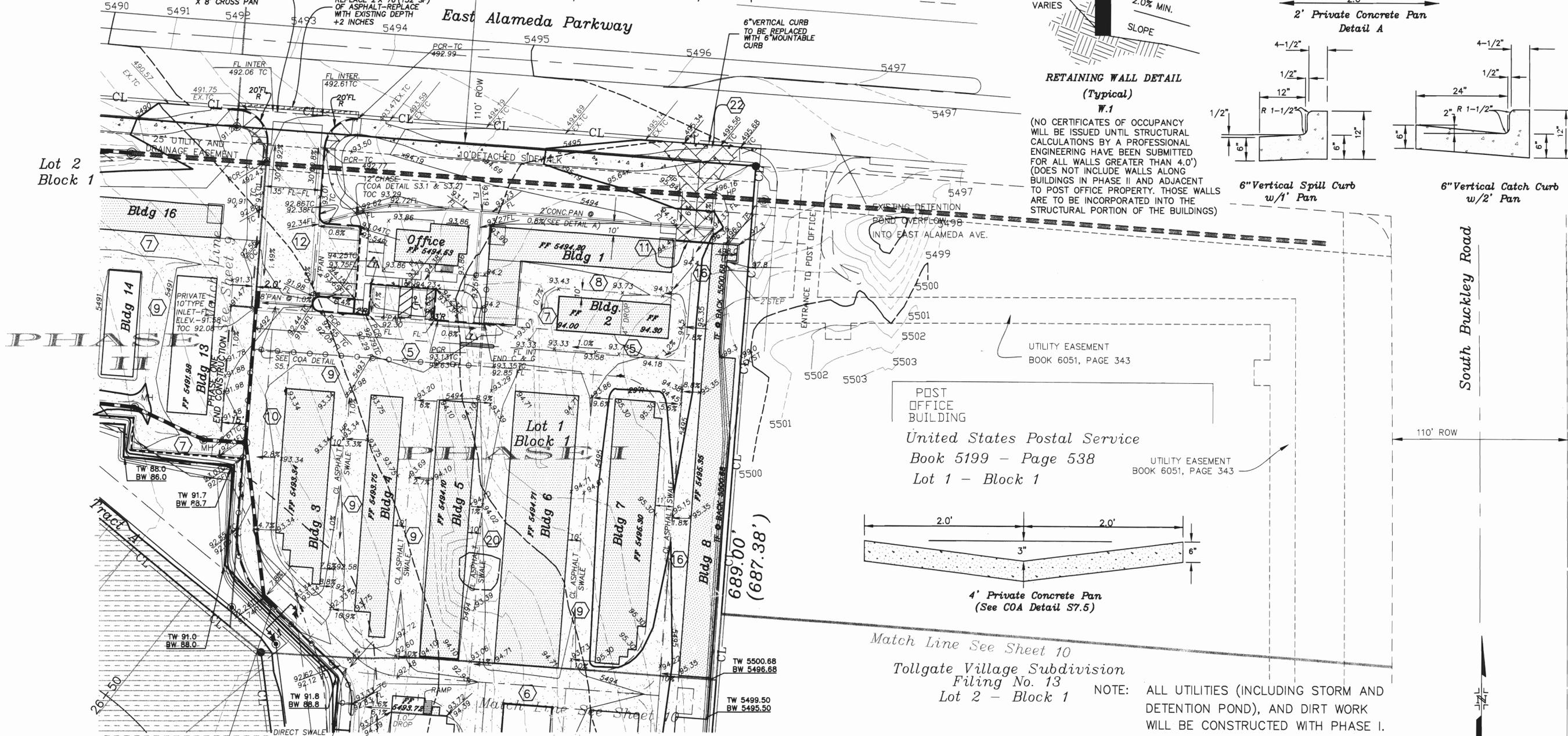
ENGINEERING
LAND SURVEYING
CONSTRUCTION MANAGEMENT

Prepared 4-21-2003
Project No 419
Sheet 7 of 15
Rev. 6-25-2003
Rev. 7-23-2003

Note:
ALL STORM IS PUBLIC EXCEPT AS INDICATED.

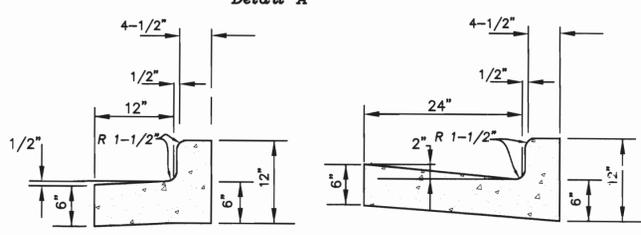
SITE GRADING PLAN ALAMEDA BUCKLEY STORAGE

A Resubdivision of a part of Lots 1 & 2, Block 1, Tollgate Village Subdivision Filing No. 13,
Situated in the NE 1/4 Section 17, T. 4 S. R. 66 W., of the 6th P.M.,
City of Aurora, County of Arapahoe, State of Colorado



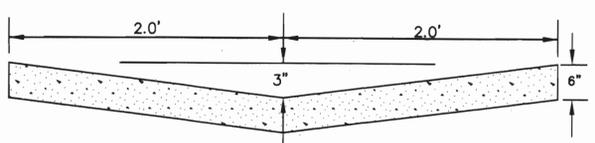
RETAINING WALL DETAIL (Typical) W.1

(NO CERTIFICATES OF OCCUPANCY WILL BE ISSUED UNTIL STRUCTURAL CALCULATIONS BY A PROFESSIONAL ENGINEERING HAVE BEEN SUBMITTED FOR ALL WALLS GREATER THAN 4.0') (DOES NOT INCLUDE WALLS ALONG BUILDINGS IN PHASE II AND ADJACENT TO POST OFFICE PROPERTY. THOSE WALLS ARE TO BE INCORPORATED INTO THE STRUCTURAL PORTION OF THE BUILDINGS)



6\"/>

6\"/>



4' Private Concrete Pan (See COA Detail S7.5)

Match Line See Sheet 10
Tollgate Village Subdivision
Filing No. 13
Lot 2 - Block 1

NOTE: ALL UTILITIES (INCLUDING STORM AND DETENTION POND), AND DIRT WORK WILL BE CONSTRUCTED WITH PHASE I. BUILDINGS AND PAVING IN PHASE II WILL BE COMPLETED AT A LATER DATE.

SITE GRADING PLAN
ALAMEDA BUCKLEY STORAGE
Scale 1" = 30'

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**ENGINEERING
LAND SURVEYING
CONSTRUCTION MANAGEMENT**
Prepared 4-21-2003
Project No 419
Sheet 8 of 15
Rev. 6-25-2003
Rev. 7-23-2003

- PHASE LINE
- CL --- CL LIMITS OF CONSTRUCTION
- (5) 26' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT
- (6) 25' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT
- (7) 25' PRIVATE ACCESS
- (8) 20' PRIVATE ACCESS
- (9) 23' PRIVATE ACCESS
- (10) 24' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT
- (11) 25' EMERGENCY ACCESS WITH KNOX LOCK
- (12) 36' PUBLIC ACCESS, EMERGENCY VEHICLE ACCESS, DRAINAGE AND UTILITY EASEMENT
- TF TOP OF FOUNDATION
- FF FINISHED FLOOR
- TW TOP OF RETAINING WALL
- BW BOTTOM OF RETAINING WALL

- BFE = 100 YR. BASE FLOOD ELEVATION (HECRAS)**
- (16) 23' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT
 - (20) 23' UTILITY EASEMENT AND PRIVATE ACCESS
 - (22) EMERGENCY ACCESS - ASPHALT/CONCRETE AND SIDEWALK WILL SUPPORT FIRE APPARATUS UP TO 65000 LBS.
 - Wetlands Designation
 - Existing 100yr. Floodplain Designation
 - Proposed 100yr. Floodplain Designation
 - CATCH CURB - 6" VERTICAL W/2' PAN
 - SPILL CURB - 6" VERTICAL W/1' PAN

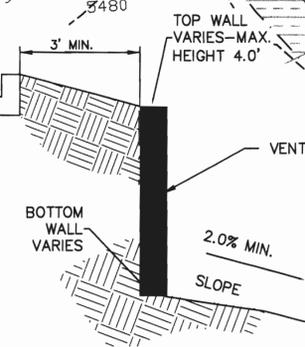
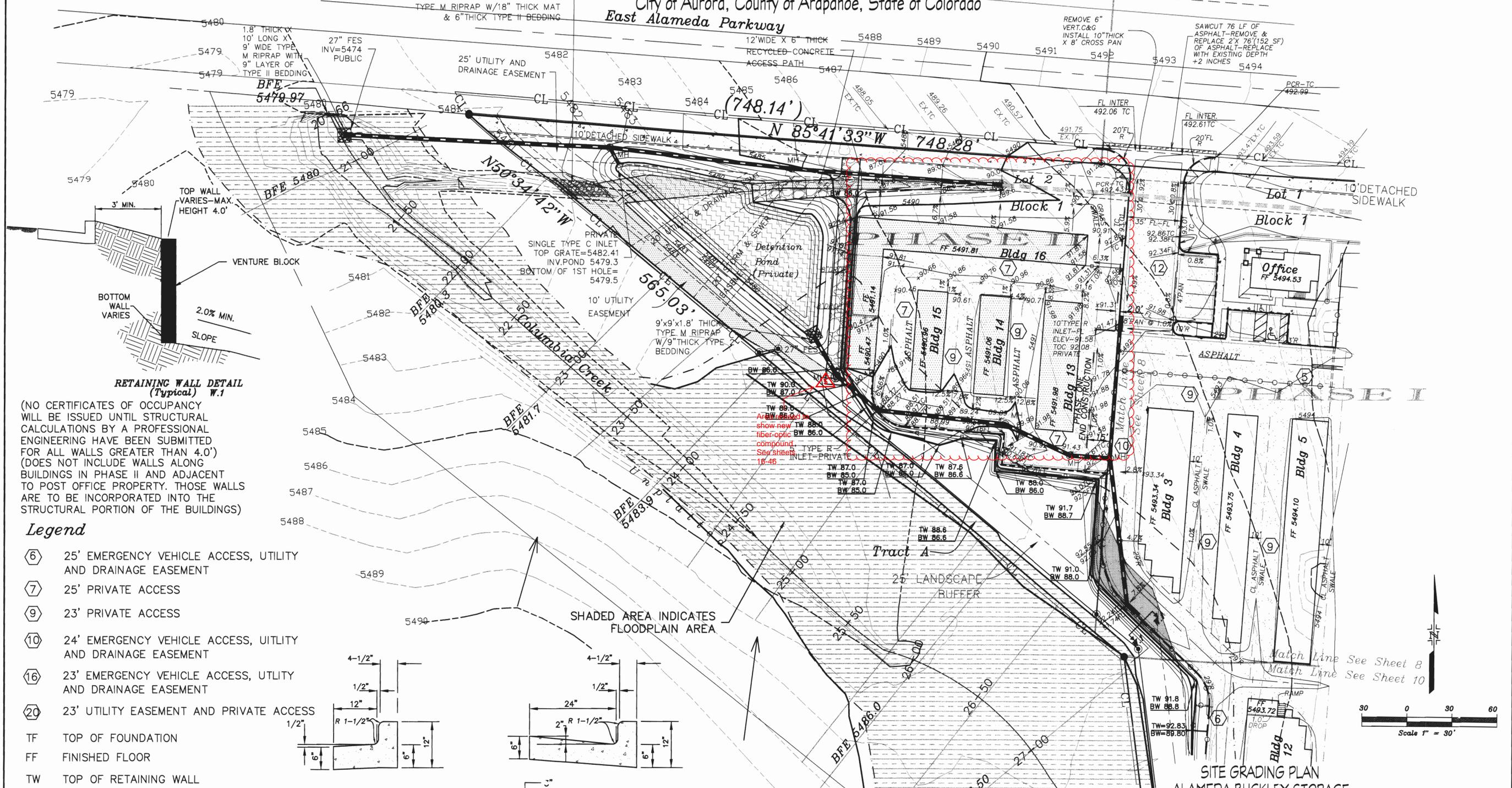
Mylar Change 5-13-05

SITE GRADING PLAN ALAMEDA BUCKLEY STORAGE

Note:
ALL STORM IS PUBLIC UNLESS INDICATED

NOTE: ALL UTILITIES (INCLUDING STORM AND DETENTION POND), AND DIRT WORK WILL BE CONSTRUCTED WITH PHASE I. BUILDINGS AND PAVING IN PHASE II WILL BE COMPLETED AT A LATER DATE.

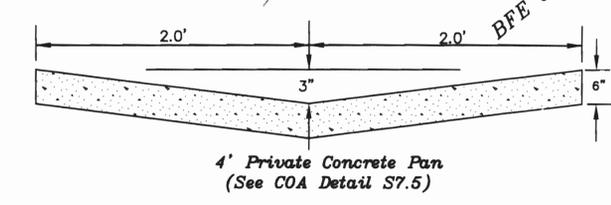
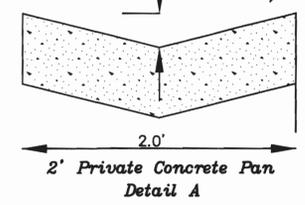
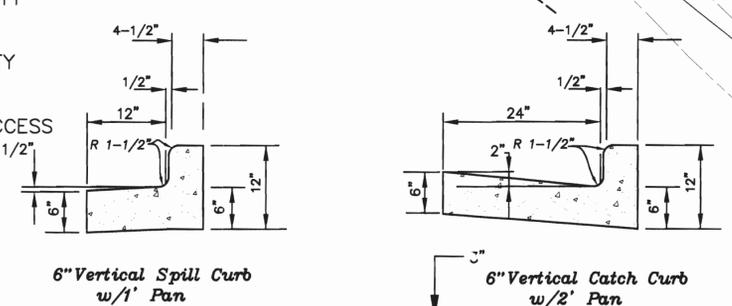
A Resubdivision of a part of Lots 1 & 2, Block 1, Tollgate Village Subdivision Filing No. 13,
Situated in the NE 1/4 Section 17, T. 4 S. R. 66 W., of the 6th P.M.,
City of Aurora, County of Arapahoe, State of Colorado



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Legend

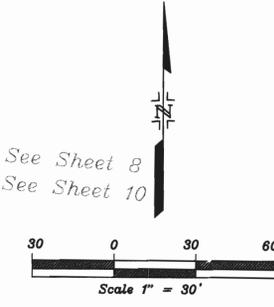
- ⑥ 25' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT
- ⑦ 25' PRIVATE ACCESS
- ⑨ 23' PRIVATE ACCESS
- ⑩ 24' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT
- ⑯ 23' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT
- ⑳ 23' UTILITY EASEMENT AND PRIVATE ACCESS
- TF TOP OF FOUNDATION
- FF FINISHED FLOOR
- TW TOP OF RETAINING WALL
- BW BOTTOM OF RETAINING WALL



- CL—CL— LIMITS OF CONSTRUCTION
- - - - - PHASE LINE
- Wetlands Designation
- Existing 100yr. Floodplain Designation
- Proposed 100yr. Floodplain Designation

BFE = 100 YR. BASE FLOOD ELEVATION (HECRAS)

SITE GRADING PLAN
ALAMEDA BUCKLEY STORAGE
COSTIN ENGINEERING CONSULTANTS, INC.
7353 S. Alton Way, Suite A115 ENGINEERING
Englewood, Colorado 80112 LAND SURVEYING
PH (303) 790-4969 CONSTRUCTION MANAGEMENT
FAX (303) 790-4967 Prepared 8-20-2002
Rev 10-03-2003 Project No 419
Rev. 12-12-2003 Sheet 9 of 15
Rev. 3-29-2004 Rev. 6-25-2003
Rev. 7-23-2003

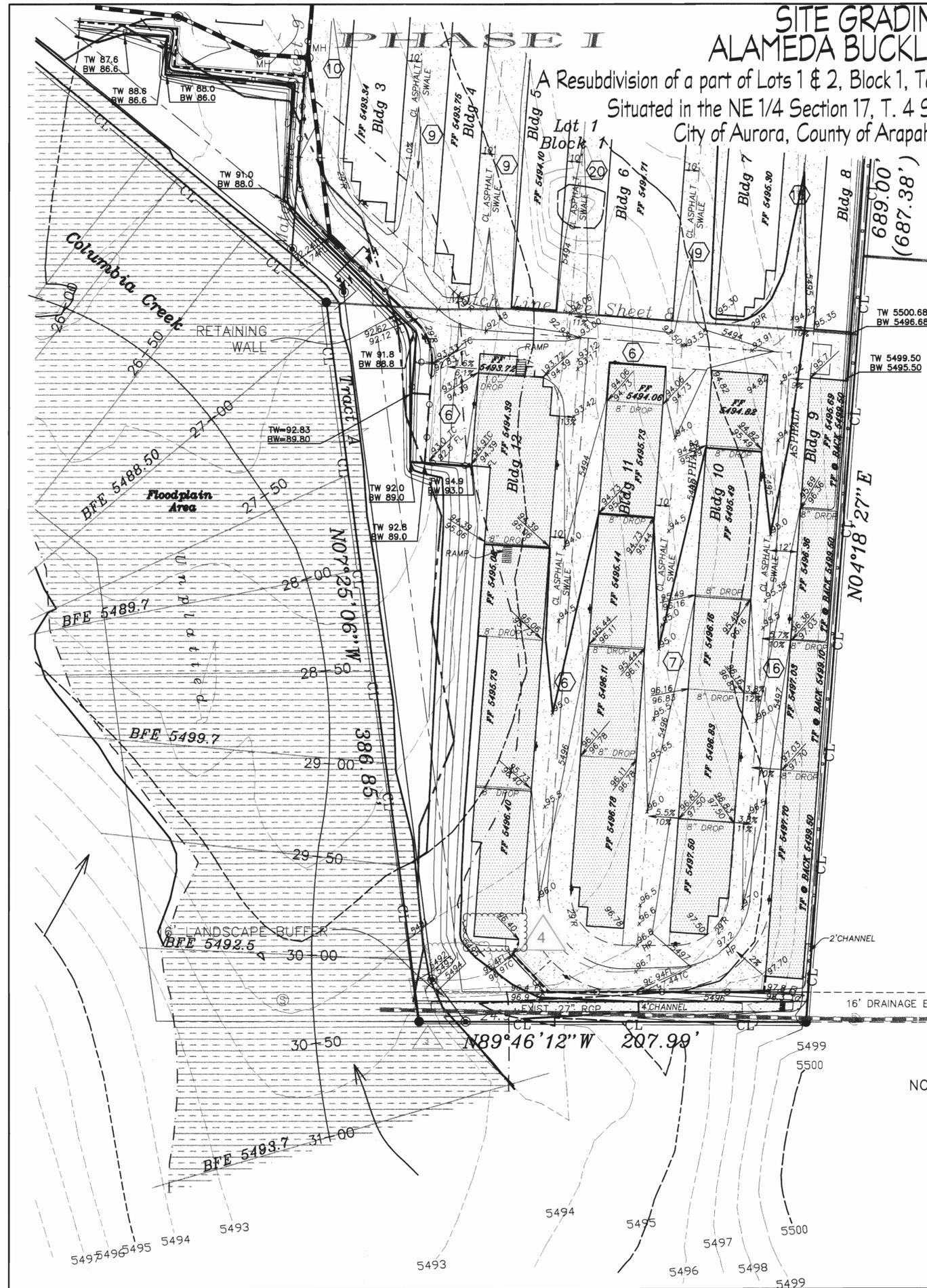


SITE GRADING PLAN ALAMEDA BUCKLEY STORAGE

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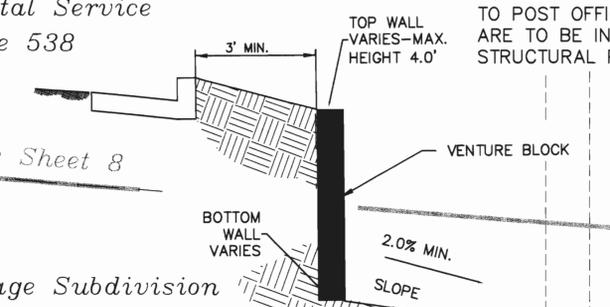
United States Postal Service
Book 5199 - Page 538
Lot 1 - Block 1

(NO CERTIFICATES OF OCCUPANCY WILL BE ISSUED UNTIL STRUCTURAL CALCULATIONS BY A PROFESSIONAL ENGINEER HAVE BEEN SUBMITTED FOR ALL WALLS GREATER THAN 4.0') (DOES NOT INCLUDE WALLS ALONG BUILDINGS IN PHASE II AND ADJACENT TO POST OFFICE PROPERTY. THOSE WALLS ARE TO BE INCORPORATED INTO THE STRUCTURAL PORTION OF THE BUILDINGS)



Match Line See Sheet 8

Tollgate Village Subdivision
Filing No. 13
Lot 2 - Block 1

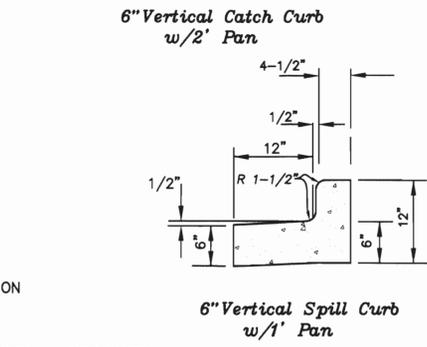


RETAINING WALL DETAIL (Typical)

UTILITY EASEMENT
BOOK 6051, PAGE 343

Legend

- (6) 25' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT
- (7) 25' PRIVATE ACCESS
- (9) 23' PRIVATE ACCESS
- (10) 24' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT
- (16) 23' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT
- (20) 23' UTILITY EASEMENT AND PRIVATE ACCESS
- TF TOP OF FOUNDATION
- FF FINISHED FLOOR
- TW TOP OF RETAINING WALL
- BW BOTTOM OF RETAINING WALL
- CL CL LIMITS OF CONSTRUCTION
- WETLANDS DESIGNATION
- PHASE LINE
- EXISTING 100yr. FLOODPLAIN DESIGNATION
- PROPOSED 100yr. FLOODPLAIN DESIGNATION
- BFE = 100 YR. BASE FLOOD ELEVATION (HECRAS)
- CATCH CURB-6" VERTICAL W/2' PAN
- SPILL CURB-6" VERTICAL W/1' PAN



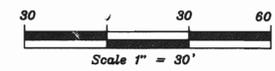
30' EASEMENT
BK 3142 PG 379
& PLAT BK 45 PG 39

South Buckley Road
Book 2739 - Page 488

EAST LINE NE 1/4 SECTION 17
T. 4 S., R. 66 W., 6TH P.M.

NOTE: ALL UTILITIES (INCLUDING STORM AND DETENTION POND), AND DIRT WORK WILL BE CONSTRUCTED WITH PHASE I. BUILDINGS AND PAVING IN PHASE II WILL BE COMPLETED AT A LATER DATE.

Note: ALL STORM IS PUBLIC UNLESS INDICATED



SITE GRADING PLAN
ALAMEDA BUCKLEY STORAGE

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Rev. 6-25-2003
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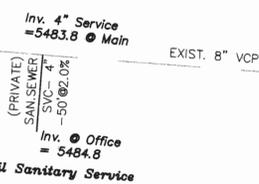
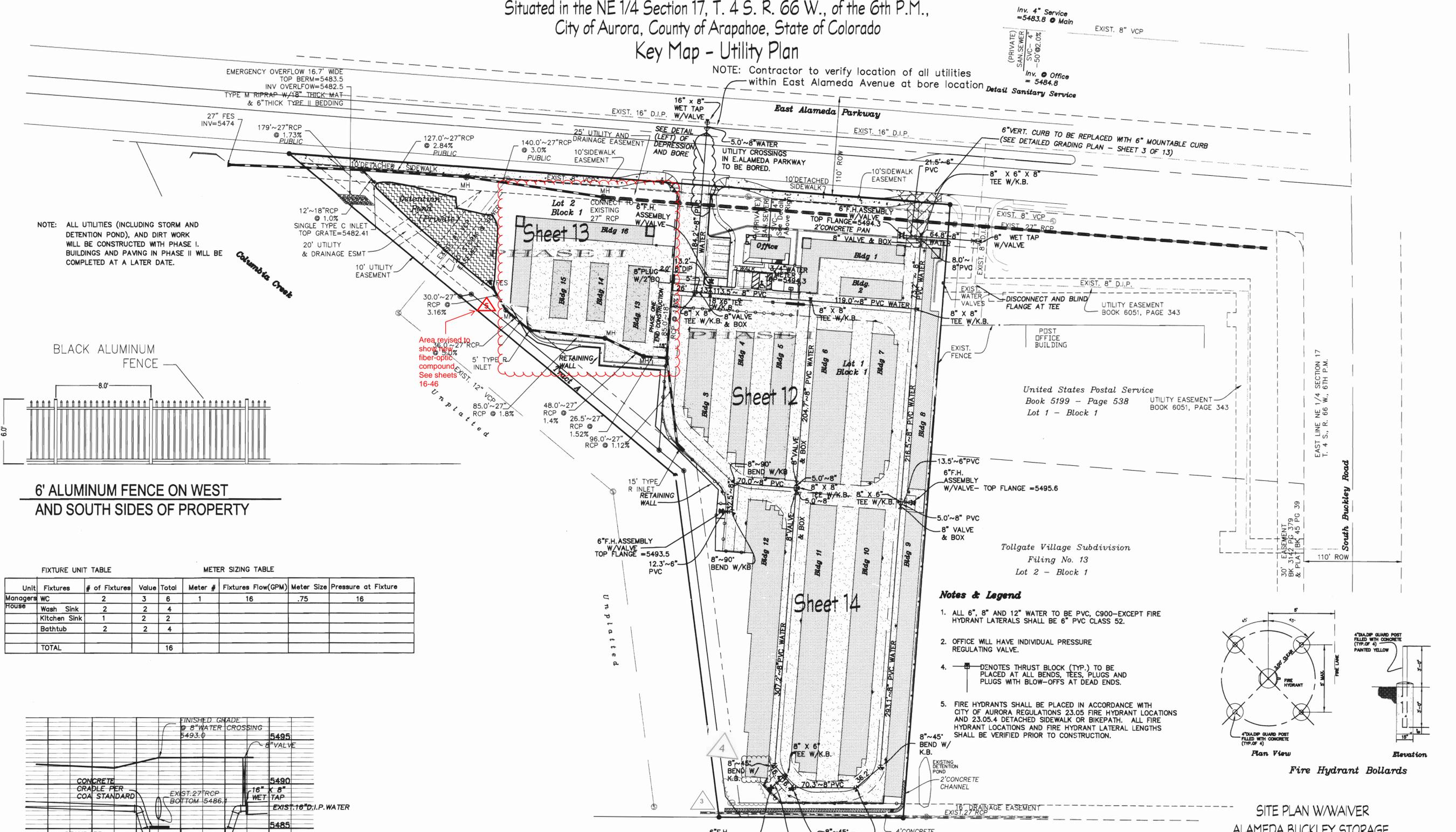
Note:
ALL STORM SEWER PIPING, DETENTION POND AND OUTLET STRUCTURES ON THIS SHEET IS PRIVATE, UNLESS OTHERWISE NOTED.

BENCHMARK: AP-048 COA BC IN THE END OF CONC. HEADWALL ON S.SIDE ALAMEDA PARKWAY @ COLUMBIA CREEK CULVER 1000' +/- W OF BUCKLEY RD. RE. ELEV. ON 12-23-91 DO TO RERUN OLD ELEV.=5480.374 FT. ELEVATION - 5480.459

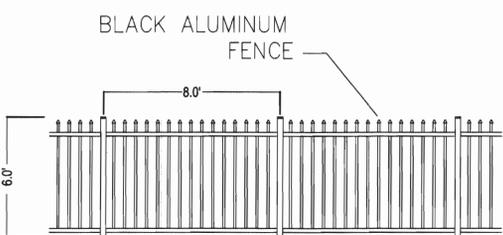
SITE PLAN W/WAIVER ALAMEDA BUCKLEY STORAGE

A Resubdivision of a part of Lots 1 & 2, Block 1, Tollgate Village Subdivision Filing No. 13,
Situated in the NE 1/4 Section 17, T. 4 S. R. 66 W., of the 6th P.M.,
City of Aurora, County of Arapahoe, State of Colorado
Key Map - Utility Plan

NOTE: Contractor to verify location of all utilities within East Alameda Avenue at bore location

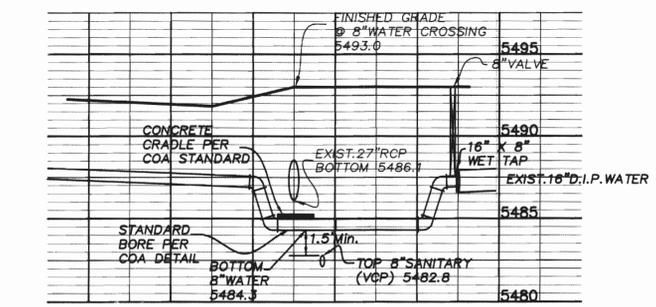


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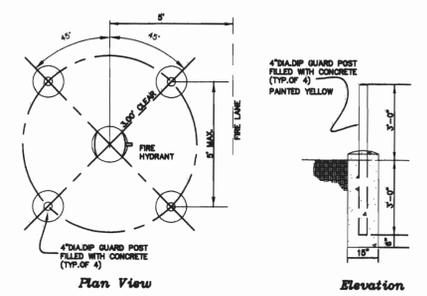
6' ALUMINUM FENCE ON WEST AND SOUTH SIDES OF PROPERTY

FIXTURE UNIT TABLE				METER SIZING TABLE				
Unit	Fixtures	# of Fixtures	Value	Total	Meter #	Fixtures Flow (GPM)	Meter Size	Pressure at Fixture
Managers WC	2	3	6	1	16	.75		16
House	Wash Sink	2	2	4				
	Kitchen Sink	1	2	2				
	Bathtub	2	2	4				
TOTAL				16				

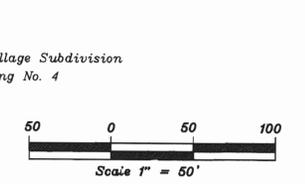


Water Depression Detail

- Notes & Legend**
- ALL 6", 8" AND 12" WATER TO BE PVC, C900—EXCEPT FIRE HYDRANT LATERALS SHALL BE 6" PVC CLASS 52.
 - OFFICE WILL HAVE INDIVIDUAL PRESSURE REGULATING VALVE.
 - DENOTES THRUST BLOCK (TYP.) TO BE PLACED AT ALL BENDS, TEES, PLUGS AND PLUGS WITH BLOW-OFFS AT DEAD ENDS.
 - FIRE HYDRANTS SHALL BE PLACED IN ACCORDANCE WITH CITY OF AURORA REGULATIONS 23.05 FIRE HYDRANT LOCATIONS AND 23.05.4 DETACHED SIDEWALK OR BIKEPATH. ALL FIRE HYDRANT LOCATIONS AND FIRE HYDRANT LATERAL LENGTHS SHALL BE VERIFIED PRIOR TO CONSTRUCTION.



Fire Hydrant Bollards



**SITE PLAN W/WAIVER
ALAMEDA BUCKLEY STORAGE**

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Rev. 10-03-2003
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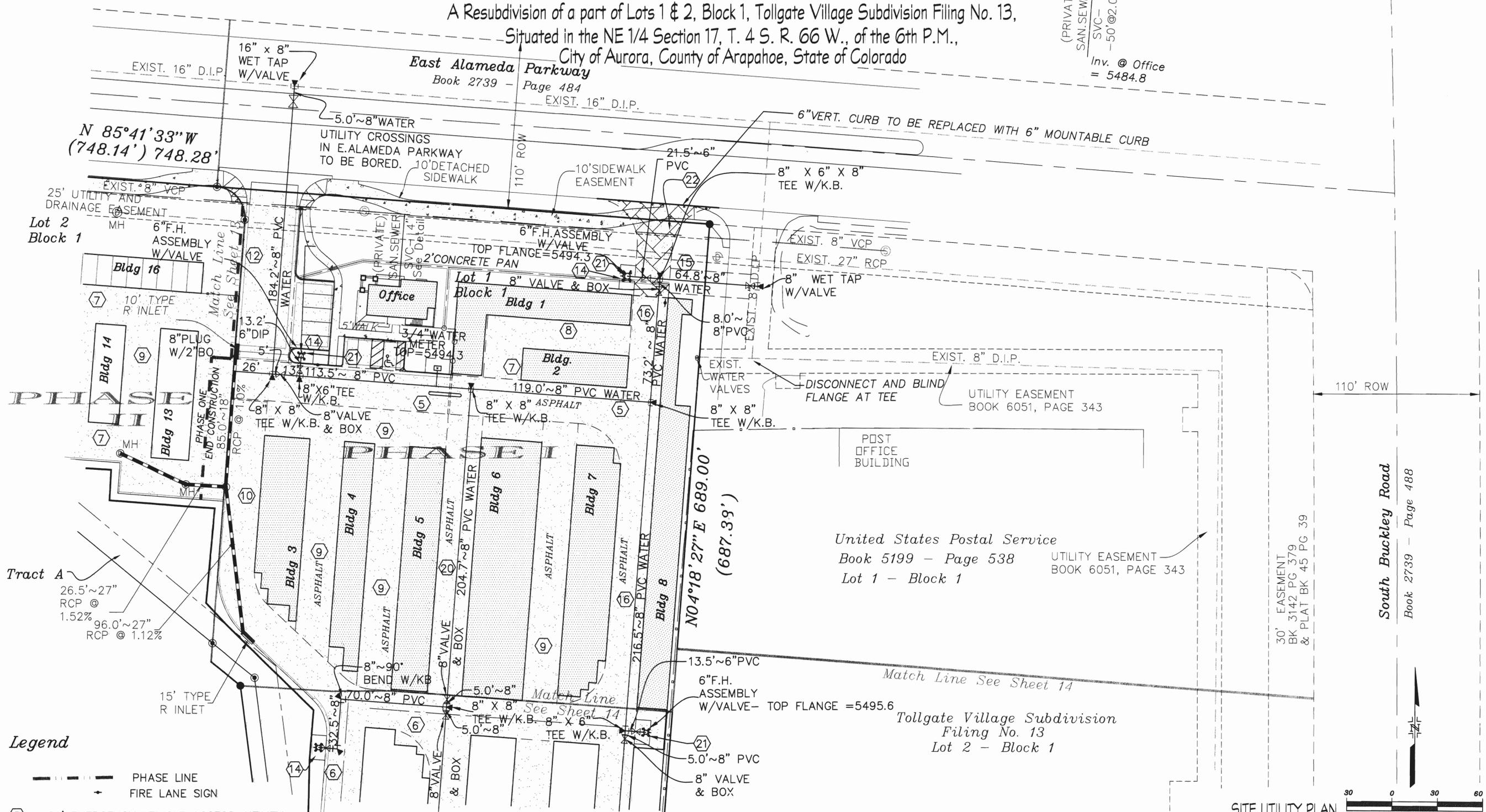
**ENGINEERING
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CONSTRUCTION MANAGEMENT**
Prepared 4-21-2003
Project No 419
Sheet 11 of 15
Rev. 6-26-2003
Rev. 7-23-2003

Note:
ALL ON-SITE STORM SEWER PIPING, DETENTION POND AND OUTLET STRUCTURES ARE PRIVATE.

SITE UTILITY PLAN ALAMEDA BUCKLEY STORAGE

A Resubdivision of a part of Lots 1 & 2, Block 1, Tollgate Village Subdivision Filing No. 13,
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Inv. 4" Service
= 5483.8 @ Main
(PRIVATE)
SAN. SEWER
SVC - 4"
- 50 @ 2.0%
Inv. @ Office
= 5484.8



Legend

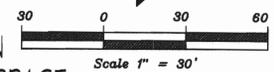
- PHASE LINE
- ▲ FIRE LANE SIGN
- ⑤ 26' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT
- ⑥ 25' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT
- ⑦ 25' PRIVATE ACCESS
- ⑧ 20' PRIVATE ACCESS
- ⑨ 23' PRIVATE ACCESS
- ⑩ 24' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT
- ⑫ 36' PUBLIC ACCESS, EMERGENCY VEHICLE ACCESS, DRAINAGE AND UTILITY EASEMENT
- ⑭ 10' X 16' UTILITY EASEMENT
- ⑮ UTILITY EASEMENT
- ⑯ 23' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT
- ⑰ 23' UTILITY EASEMENT AND PRIVATE ACCESS
- ⑳ 21' FIRE HYDRANT BOLLARDS (TYP.)
- ㉑ EMERGENCY ACCESS - ASPHALT/CONCRETE AND SIDEWALK WILL SUPPORT FIRE APPARATUS UP TO 65000 LBS.

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SITE UTILITY PLAN
ALAMEDA BUCKLEY STORAGE

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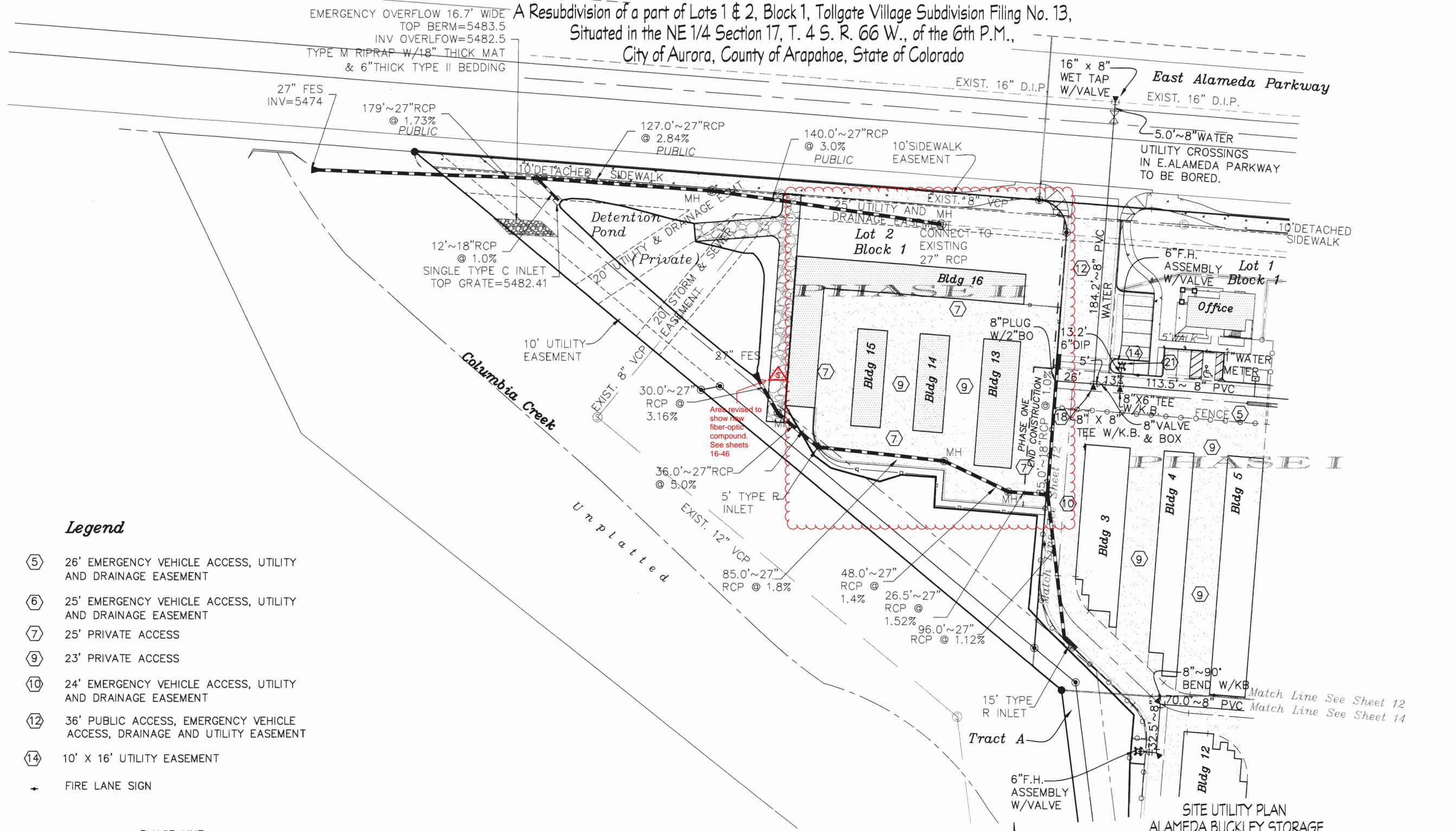


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Note:
ALL ON-SITE STORM SEWER PIPING, DETENTION POND AND OUTLET STRUCTURES ARE PRIVATE.

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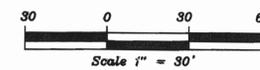


Legend

- ⑤ 26' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT
- ⑥ 25' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT
- ⑦ 25' PRIVATE ACCESS
- ⑧ 23' PRIVATE ACCESS
- ⑩ 24' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT
- ⑫ 36' PUBLIC ACCESS, EMERGENCY VEHICLE ACCESS, DRAINAGE AND UTILITY EASEMENT
- ⑭ 10' X 16' UTILITY EASEMENT
- FIRE LANE SIGN

--- PHASE LINE

NOTE: ALL UTILITIES (INCLUDING STORM AND DETENTION POND), AND DIRT WORK WILL BE CONSTRUCTED WITH PHASE I. BUILDINGS AND PAVING IN PHASE II WILL BE COMPLETED AT A LATER DATE.



SITE UTILITY PLAN
ALAMEDA BUCKLEY STORAGE

COSTIN ENGINEERING CONSULTANTS, INC.
7353 S. Alton Way, Suite A115 ENGINEERING
Englewood, Colorado 80112 LAND SURVEYING
PH (303) 790-4969 CONSTRUCTION MANAGEMENT
FAX (303) 790-4967
Rev. 10-03-2003
Rev. 12-12-2003
Rev. 3-29-2004

Prepared 4-21-2003
Project No 419
Sheet 13 of 15
Rev. 6-25-2003
Rev. 7-23-2003

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SITE UTILITY PLAN ALAMEDA BUCKLEY STORAGE

A Resubdivision of a part of Lots 1 & 2, Block 1, Tollgate Village Subdivision Filing No. 13,
Sited in the NE 1/4 Section 17, T. 4 S. R. 66 W., of the 6th P.M.,
City of Aurora, County of Arapahoe, State of Colorado

UTILITY EASEMENT
BOOK 6051, PAGE 343

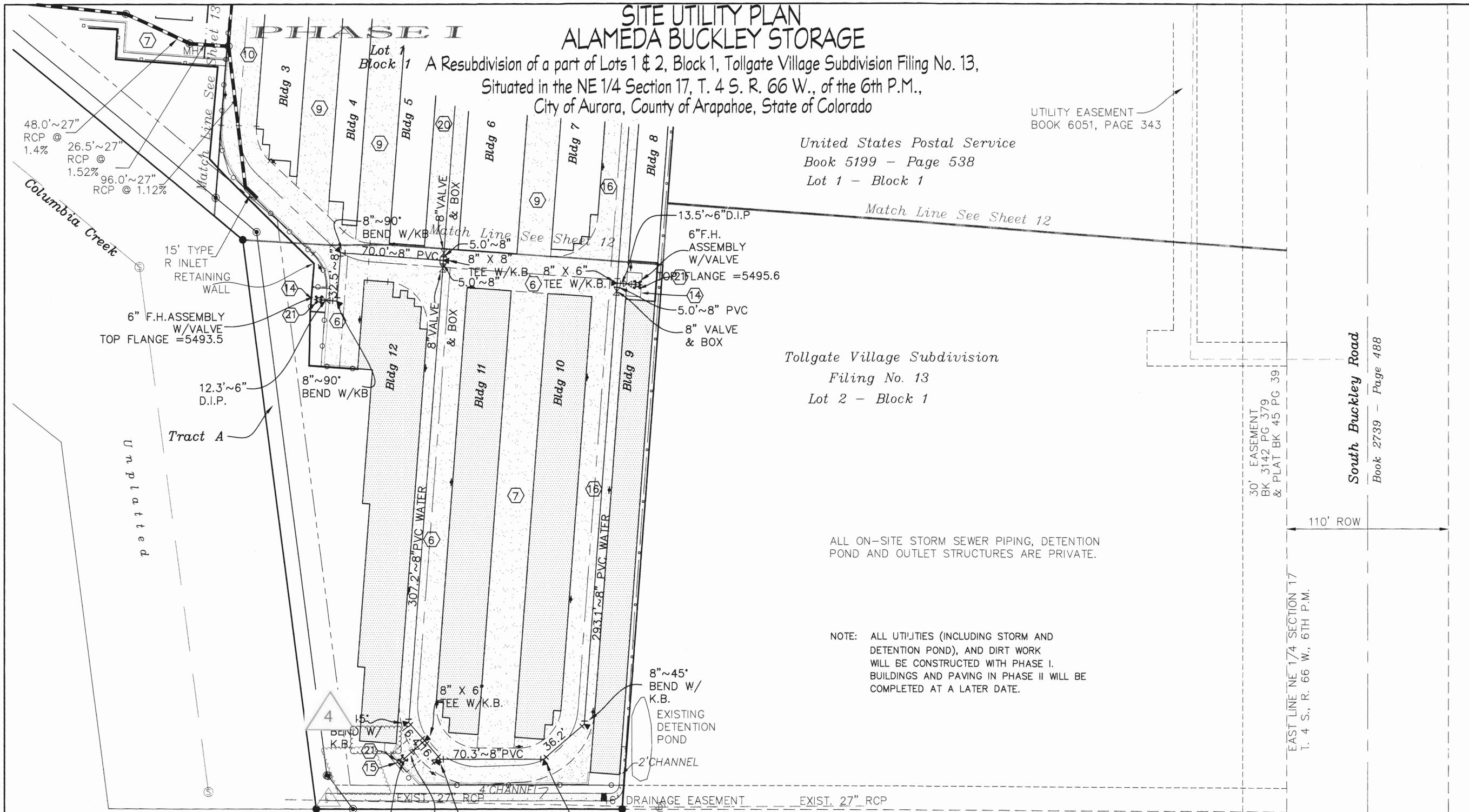
United States Postal Service
Book 5199 - Page 538
Lot 1 - Block 1

Tollgate Village Subdivision
Filing No. 13
Lot 2 - Block 1

South Buckley Road
Book 2739 - Page 488

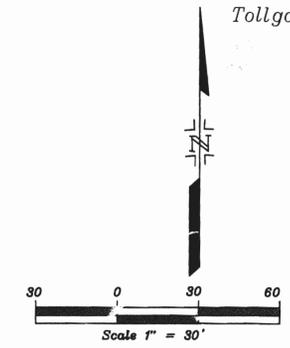
ALL ON-SITE STORM SEWER PIPING, DETENTION POND AND OUTLET STRUCTURES ARE PRIVATE.

NOTE: ALL UTILITIES (INCLUDING STORM AND DETENTION POND), AND DIRT WORK WILL BE CONSTRUCTED WITH PHASE I. BUILDINGS AND PAVING IN PHASE II WILL BE COMPLETED AT A LATER DATE.



Legend

- | | | | |
|---|---|---|---|
| ⑥ | 25' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT | ⑭ | 10' X 16' UTILITY EASEMENT WATER |
| ⑦ | 25' PRIVATE ACCESS | ⑮ | UTILITY EASEMENT |
| ⑨ | 23' PRIVATE ACCESS | ⑯ | 23' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT |
| ⑩ | 24' EMERGENCY VEHICLE ACCESS, UTILITY AND DRAINAGE EASEMENT | ⑰ | 23' UTILITY EASEMENT AND PRIVATE ACCESS |
| | | ⑱ | FIRE HYDRANT BOLLARDS (TYP.) |
| | | ⑲ | FIRE LANE SIGN |



Tollgate Village Subdivision
Filing No. 4

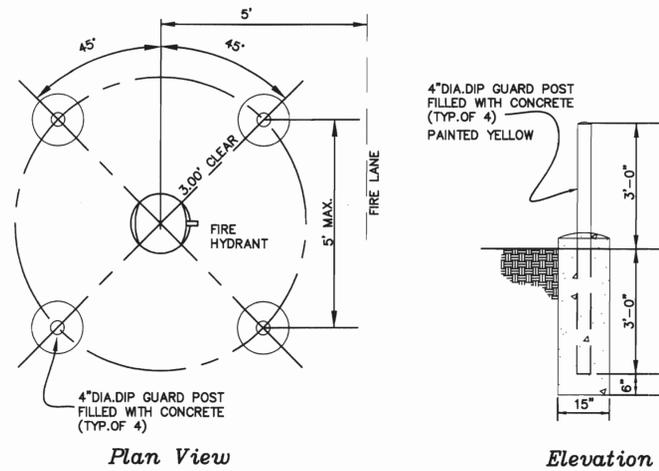
SITE UTILITY PLAN
ALAMEDA BUCKLEY STORAGE

COSTIN ENGINEERING CONSULTANTS, INC.
7353 S. Alton Way, Suite A115
Englewood, Colorado 80112
PH (303) 790-4969
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Rev. 10-03-2003
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Rev. 3-29-2004

ENGINEERING
LAND SURVEYING
CONSTRUCTION MANAGEMENT
Prepared 4-21-2003
Project No 419
Sheet 14 of 15
Rev. 6-25-2003
Rev. 7-23-2003

SITE PLAN ALAMEDA BUCKLEY STORAGE

A Resubdivision of a part of Lots 1 & 2, Block 1, Tollgate Village Subdivision Filing No. 13,
Sited in the NE 1/4 Section 17, T. 4 S. R. 66 W., of the 6th P.M.,
City of Aurora, County of Arapahoe, State of Colorado



Fire Hydrant Bollards



SEE MUTCD MANUAL FOR DETAILS OF SIGNS

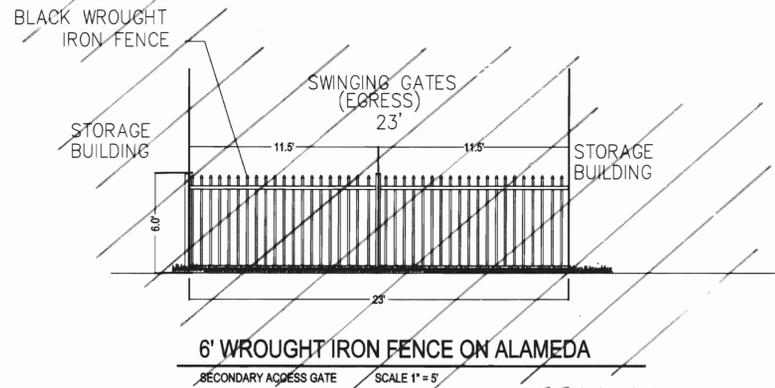


Signage for Accessible Parking

SIGNS FOR ACCESSIBLE PARKING SHALL"

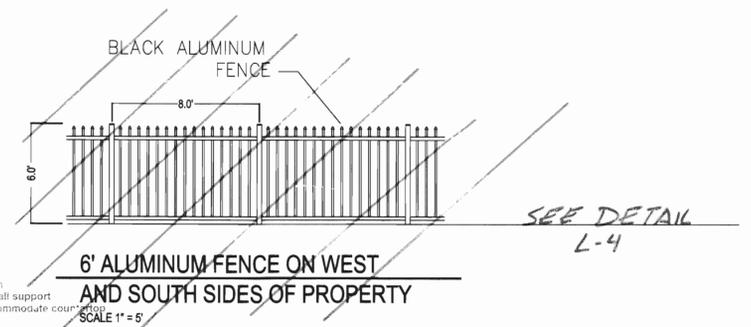
1. BE AT LEAST 12 INCHES WIDE AND 18 INCHES HIGH
2. HAVE WHITE LETTER ON BLUE BACKGROUND
3. STATE "RESERVED PARKING" AND "TOW AWAY ZONE"
4. SHOW A HANDICAPPED SYMBOL
5. BE PERMANENTLY MOUNTED WITHIN 10 FEET OF EACH ACCESSIBLE PARKING SPACE
6. BE LOCATED AT THE CENTER OF THE FRONT OF EACH ACCESSIBLE PARKING SPACE, FACING THE REAR OF THE SPACE
7. BE SEVEN FEET MEASURED FROM GRADE TO BOTTOM OF LOWEST SIGN POSTED
8. THERE SHALL ONE VAN ACCESSIBLE PARKING SPACE ON THIS SITE.

Mylar Change 5-13-05



6' WROUGHT IRON FENCE ON ALAMEDA

SCALE 1" = 5'
SEE DETAIL L-4

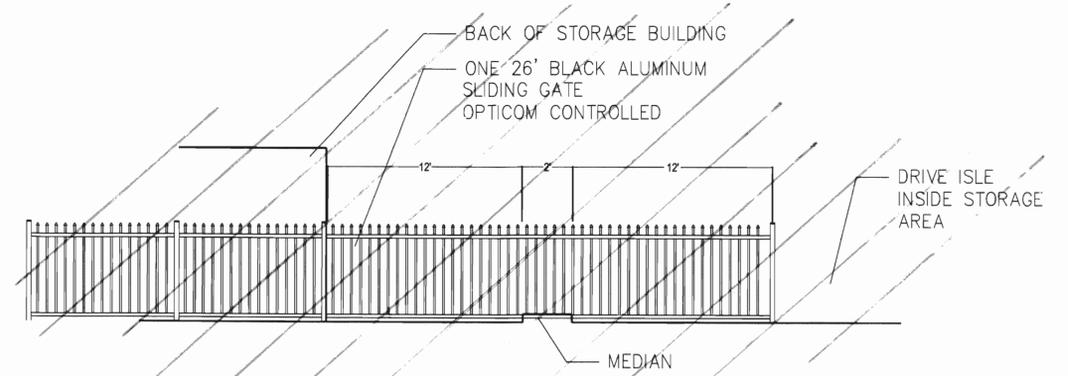


6' ALUMINUM FENCE ON WEST
AND SOUTH SIDES OF PROPERTY

SCALE 1" = 5'

Mylar change 5-13-05

1. Add storefront double glass door to west elevation
2. Delete windows on west elevation to gain shear wall support
3. Raise 2nd floor kitchen window approx. 12" to accommodate counter
4. Revise fencing to wrought iron from aluminum
5. Change fence to arched top from straight
6. Change entry gate to 2-1/2' lift gate from sliding gate
7. Show as built walk locations
8. Revise monument sign
9. Relocate wall sign



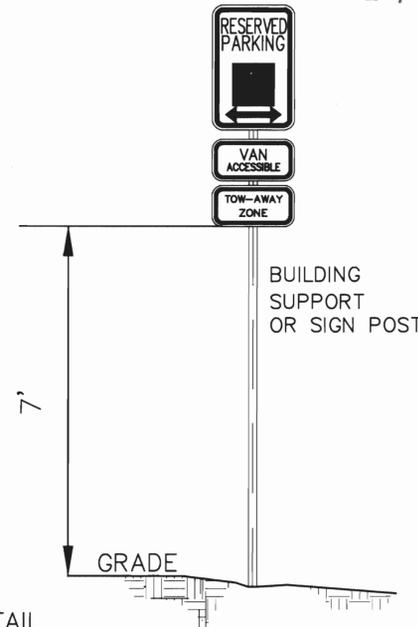
6' ALUMINUM SLIDING FRONT ENTRY GATE

SCALE 1" = 5'

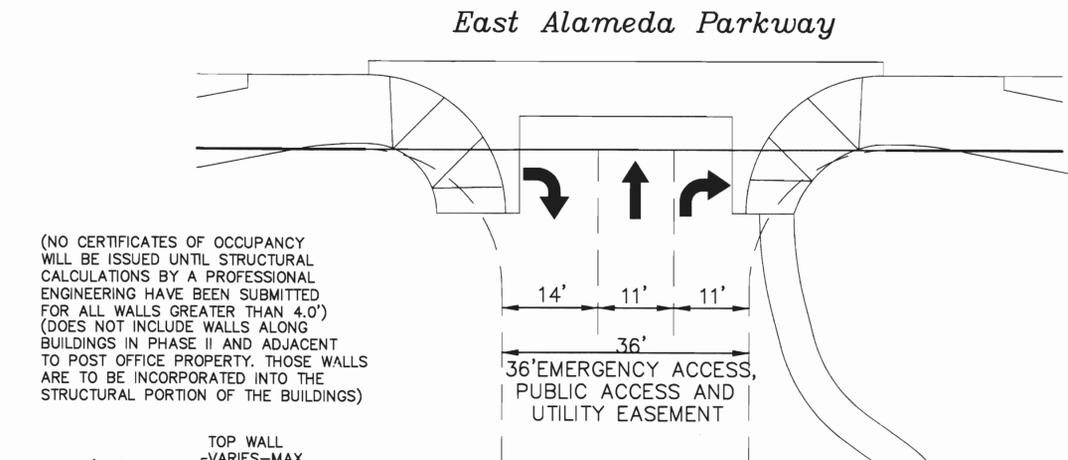
EMERGENCY VEHICLE GATE OPENING OPERATIONS

- 1) OPTICOM AUTOMATIC OPENING DEVICE
 - 2) AUTOMATIC KNOX KEY OPENING
 - 3) MANUAL OVERRIDE IN THE EVENT OF SYSTEM FAILURE
- NO CUSTOMER ACCESS WILL BE PROVIDED BETWEEN THE HOURS OF MIDNIGHT AND 6 AM.

SEE DETAIL
L-4

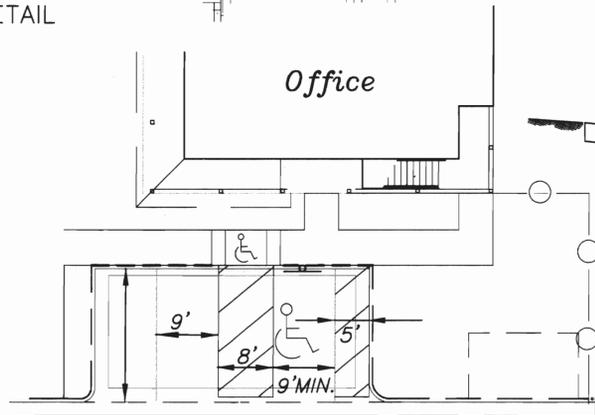


Handicap Parking Stall Detail



*36' Emergency Access, Public Access
and Utility Easement Detail*

(NO CERTIFICATES OF OCCUPANCY WILL BE ISSUED UNTIL STRUCTURAL CALCULATIONS BY A PROFESSIONAL ENGINEER HAVE BEEN SUBMITTED FOR ALL WALLS GREATER THAN 4.0') (DOES NOT INCLUDE WALLS ALONG BUILDINGS IN PHASE II AND ADJACENT TO POST OFFICE PROPERTY. THOSE WALLS ARE TO BE INCORPORATED INTO THE STRUCTURAL PORTION OF THE BUILDINGS)



Handicap Parking Stall Detail

Retaining Wall Detail

SITE PLAN - DETAILS
ALAMEDA BUCKLEY STORAGE

COSTIN ENGINEERING CONSULTANTS, INC.
7353 S. Alton Way, Suite A115
Englewood, Colorado 80112
PH (303) 790-4969
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Rev. 12-12-2003
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ENGINEERING
LAND SURVEYING
CONSTRUCTION MANAGEMENT
Prepared 4-21-2003
Project No 419
Sheet 15 of 15
Rev. 6-25-2003
Rev. 7-23-2003

IMPROVEMENT PLANS FOR

METRONET SHELTER

3701 COMMUNICATIONS WAY
EVANSVILLE, IN 47715
812-213-1095

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**COMMUNICATIONS
SHELTER
AURORA, CO**

DESIGN ENG: LWW
DRAWN BY: SLF
REVIEWED BY: LWW

SUBMITTALS		
DATE	DESCRIPTION	REV
3/19/25	PERMITTING	A

PROJECT SITE INFORMATION:

Address: 16620 E Alameda Pkwy, Aurora, CO 80017

Type: Unmanned Communications

Shelter: Dual Hut

Shelter Type: Prefabricated Concrete

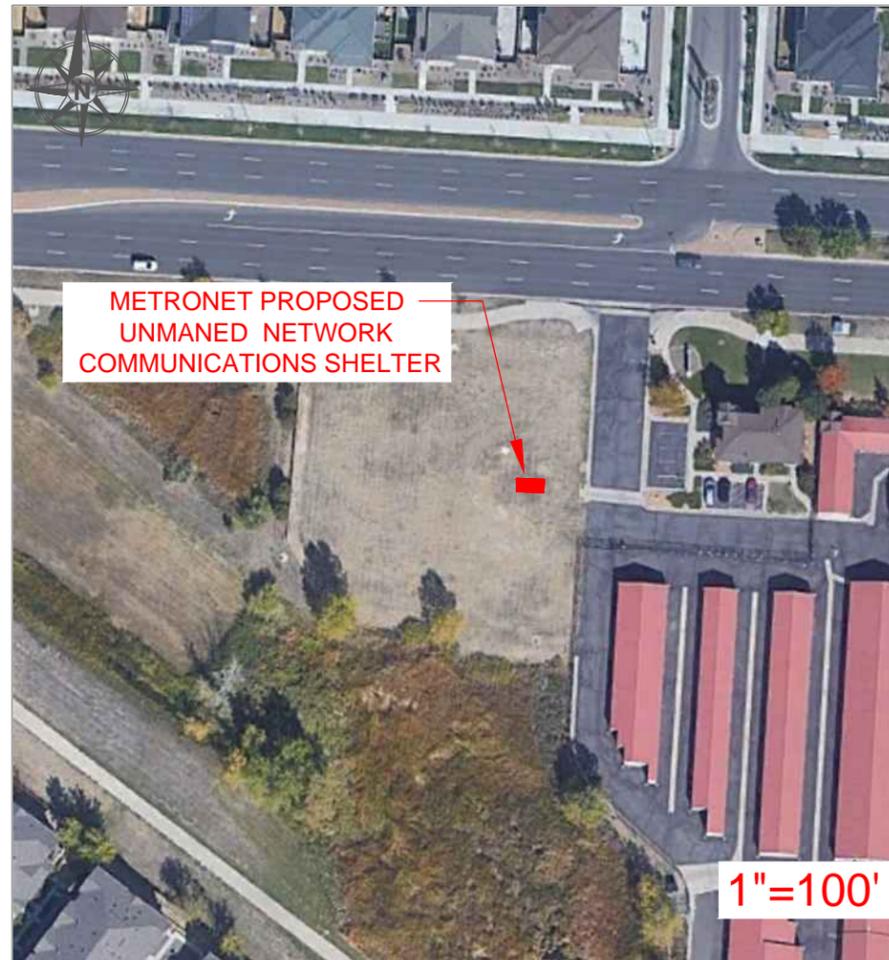
Shelter Size: (1) 24' W X 36' L

Owner: DJM LLC

Legal Description: Lot 2, Block 1, ALAMEDA BUCKLEY SUBDIVISION FLING NO. 1, according to the Plot recorded November 10, 2004 in Book 273 at Page 12, County of Arapahoe, State of Colorado



SCALE: NTS
SITE ADDRESS: 16620 E ALAMEDA PKWY
SITE NAME: AURORA SHELTER
SHEET NAME: COVER SHEET
SHEET NUMBER: 1



INDEX OF PLAN SHEETS:

Cover Sheet	1
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Site Plan	6
Landscaping Plan	7-8
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Concrete Pad Install Details	11
Shelter Foundation Plan	12
Shelter Elevations	13-13D
Site Utilities	14
Electrical Plan	15
Panelboard Schedule	16-16D
Gas Service Plan	17
Grounding Plan & Details	18
Generator Details	19-23

CONTACTS

ENGINEER (CONTACT):

LEE W. WRIGHT, P.E.
METRONET
11880 COLLEGE BLVD
SUITE 100
OVERLAND PARK, KS 66210
(810)-333-2303
LEE.WRIGHT@METRONET.COM

PROJECT MANAGER

CHRIS DEER
FACILITIES ENGINEERING DIRECTOR
3701 COMMUNICATIONS WAY,
EVANSVILLE, IN 47715
CHRISTOPHER.DEER@METRONET.COM

LAND SURVEYOR

US SURVEYORS
4929 RIVERWIND POINTE DRIVE,
EVANSVILLE, INDIANA 47715
1-800-867-8783 EXT. 201
MJFELDBUSCH@USSURVEYOR.COM

GEOTECHNICAL ENGINEER

JOSEPH V BORRELLI, P.E.
DELTA OAKS GROUP, PLLC
4904 PROFESSIONAL CT
RALEIGH, NC 27609
919-235-5347
JBORRELLI@DELTAOAKSGROUP.COM

POWER & NATURAL GAS

XCEL ENERGY
800-628-2121

APPLICANT

METRO FIBERNET, LLC
8837 BOND ST
OVERLAND PARK, KS 66214
810-333-2303

GENERAL NOTES

- Prior to commencement of construction, the contractor shall verify all dimensions, and conditions affecting their work with the actual conditions at the job site. In addition, the contractor must verify the line and grades. If there are any discrepancies from what is shown on the construction plans, standard specifications and/or special details. The contractor shall secure written instruction from the engineer prior to proceeding with any part of the work affected by omission or discrepancies. Failing to secure such instruction, the contractor will be considered to have proceeded at his own risk and expense. In the event of any doubt or question arising with respect to the true meaning of the construction plans or specifications, the decision of the engineer shall be final and conclusive.
- AURORA, CO codes shall be adhered to at all times by the contractor.
- The standard specifications, construction plans, and subsequent details are all to be considered as part of the contract. Incidental items or accessories necessary to complete this work may not be specifically noted but are to be considered part of the contract.
- The contractor shall notify City of XXXX, XX and any applicable engineering or building departments two (2) working days minimum prior to start of work. As required, the utility companies will establish the approximate location of underground pipes, conduits, or cables adjoining or crossing proposed construction.
- The contractor shall indemnify the owner, the engineer, the town/county and their agents from all liability involved in the construction, installation and testing of the work on this project.
- When a conflict between plans and specifications or notes occurs, the engineer shall decide which governs. Generally, the more restrictive, more specific or stricter provision shall govern.
- The contractor is responsible for returning all areas affected by equipment or laborers to pre-existing or better conditions. Contractor is also responsible for protecting all new work until completion of this contract.
- The contractor shall be responsible for cleaning any road of material that is tracked out from the project. The contractor shall clean the streets on a daily basis. This will be done at the close of each day of work or more frequently as may be required due to field conditions or as directed by town/county.
- The contractor is to verify all elevations prior to the start of work and, if there are any discrepancies, is to notify the engineer at once. To work shall be done until the discrepancies are resolved.
- The contractor is responsible for the traffic control and protection of all work conducted within public right-of-ways, traffic control and protection shall be in accordance with the Manual on Uniform Traffic Control Devices (MUTCD).
- Whenever, during construction operations, any loose material is deposited in the flow line of gutters, drainage structures, ditches, etc. such that the natural flow line of water is obstructed, the loose material will be removed at the close of each working day. At the conclusion of construction operations, all drainage structures and flow lines shall be free from dirt and debris. This work shall be considered incidental to the contract.
- The contractor shall be responsible for the installation and maintenance of adequate signs, traffic control devices, and warning devices to inform and protect the public during all phases of construction. All safety requirements provided by the city/county and/or OSHA shall be adhered to by the contractor during construction operations.
- The contractor shall insure positive site drainage at the conclusion of each day. site drainage may be achieved by ditching, pumping, or any other method acceptable to the engineer. The contractor's failure to provide the above will preclude any possible added compensation requested due to delays or unsuitable materials created as a result thereof.
- The location of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or his representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the contractor's failure to locate and preserve any and all underground utilities.
- All shrubs, topsoil, or excavation material and any other unsuitable material shall be removed

and disposed of at an off-site location at the contractor's expense. Areas which are to be filled shall be compacted to a maximum density of 95% as determined by the modified AASHTO compaction test, T-180-74, (ASTM-D-1557) in paved areas. The owner's soils engineer shall evaluate and approve the excavation, fill placement, and compaction prior to pavement construction. The contractor shall give the governing authorities having jurisdiction over the work forty-eight (48) hours notice before work commences.

- The contractor shall provide erosion and sedimentation control at areas designated on the grading plan. Additional measures shall be provided as deemed necessary by the city or the engineer at contractor's expense.
- All handicap provisions shall be in accordance with the "Americans with Disabilities Act" (ADA).
- The contractor is responsible for the obtaining of any necessary permits not previously applied for by the owner and posting of the necessary bonds.
- The contractor is responsible for the notification of the start of construction to all jurisdictional agencies, utility companies, and the engineer, at least two (2) working days prior to said start. All existing utilities must be staked prior to construction. Town Development Engineering Department shall be notified 48 hrs. in advance.
- The contractor shall provide and maintain a safe and healthful working condition throughout the prosecution of the construction work. This shall include, but not be limited to: the removal of debris, the protection of construction barricades, and the keeping of public street pavements clean of construction dirt and debris, securing open excavations, and following all safety measures required by the governing authorities.
- The contractor is responsible for the testing of materials, if required by the owner and/or the jurisdictional agencies.
- The contractor is responsible for the guarantee of all materials and workmanship for a period of one (1) year upon final acceptance by the owner and the jurisdictional agencies.
- All landscape, sod and seeding areas shall receive a minimum of 4 inches of topsoil to achieve the final grades shown on the final engineering plans.
- All parking space, driveways and access drives shall be surfaced with an asphaltic or Portland cement binder pavement, or such other surfaces as shall be approved by the building official or inspector, so as to provide durable and dustless surface; shall be so graded and drained as to dispose of all surface water accumulations within the area; and shall be so arranged and marked as to provide for orderly and safe loading or unloading and parking and storage of self-propelled vehicles.
- Parking Area Landscaping. Parking areas shall be required to provide natural shading, through the use of deciduous trees, in an amount equal to twenty percent of the parking area. Trees used for this purpose should be those encouraged as street trees and will be presumed to shade a circular area having a radius of fifteen feet. New trees used for this purpose shall be located so that they are surrounded by at least one hundred ninety square feet of unpaved area. New and existing trees should be protected from damage by vehicles
- All trash to be removed by contractor or vendor and disposed of in a lawful manner.

STANDARD SPECIFICATIONS

The standard specifications which apply to the construction work as shown on the engineering plans, are contained in the following documents:

- All construction activities on this site shall conform to and comply with all applicable codes including, but not limited to the following:
 2021 International Building Code
 2021 International Residential Code
 2021 International Fire Code
 2021 International Energy Conservation Code
 2021 International Mechanical Code
 2021 International Existing Building Code
 2021 International Plumbing Code

NOTE: COLORADO SPECIFIC

3701 COMMUNICATIONS WAY
 EVANSVILLE, IN 47715
 812-213-1095

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COMMUNICATIONS
 SHELTER
 AURORA, CO

DESIGN ENG: LWW

DRAWN BY: SLF

REVIEWED BY: LWW

SUBMITTALS

DATE	DESCRIPTION	REV
3/19/25	PERMITTING	A



SCALE: NTS

SITE ADDRESS:
 16620 E ALAMEDA PKWY

SITE NAME:
 AURORA SHELTER

SHEET NAME:
 GENERAL NOTES

SHEET NUMBER:
 2

EARTHWORK NOTES

1. The contractor shall review and adhere to the geotechnical report prepared by "DELTA OAKS GROUP" dated "12/03/2024". Copies of this report shall be made available to the contractor by Metronet's project manager. This report and its recommendation supercede all other geotechnical recommendations/specifications.
2. Net allowable soil bearing pressure used for design: 1,500 psf.
3. The contractor shall retain a Geotechnical Engineering firm to observe and monitor all site earthwork procedures and to inspect and approve the footing excavations.
4. Remove all deleterious material such as asphalt, vegetation, topsoil, organic material, and construction debris from under the proposed structures and pads.
5. Prior to fill, a sample of the proposed fill material should be submitted to the soils engineer for his approval.
6. The fill material should be placed in lifts not to exceed eight (8) inches in loose thickness and should be sprinkled with water as required to secure specified compactions.
7. Each layer should be uniformly compacted by means of suitable equipment of the type required by the material composing the fill.
8. Under no circumstances should a bulldozer or similar tracked vehicle be used as compacting equipment.
9. Material containing an excess of water so the specified compaction limits cannot be attained should be spread and dried to a moisture content which will permit proper compaction.
10. All fill should be compacted to the specified percent of the maximum density obtained in accordance with ASTM density TES D-698 (100 percent of maximum dry density below and above the base of footing elevation).
11. Should the results of the in-place density tests indicate that the specified compaction limits are not obtained; the areas represented by such tests should be reworked and retested as required until the specified limits are reached.
12. Stripping procedures shall extend at least five feet laterally beyond the structure limits on all sides at the pad subgrade elevation.
13. final grades shall be adjusted to provide positive drainage away from the structure (minimum slope of 5% extending 10' laterally from structure) to prevent ponding of water near or adjacent to the structure.
14. Granular fill placed in slab areas shall be compacted to a density of 98 percent maximum dry density in accordance with ASTM D-698.
15. Take care not to undermine support of existing buildings or remaining pavement. Provide shoring and/or underpinning as required.

PRECAST BUILDING NOTES

1. 5,000 psi concrete (28-day strength)
2. Steel reinforcement shall be per ASTM A 615, grade 60
3. Occupancy category IV
4. Design loads:

a. Roof live load	82 psf
b. Snow load (pg)	63 psf
c. Floor live load	196 psf
d. Building weight	61,000 lbs (per precast drawings)
e. Wind data:	
i. Wind speed	120 mph
ii. Exposure	D
Seismic data:	
SS	0.165g
S1	0.088g
5. Design category C
6. Risk category IV
7. Occupancy classification: U
 - a. Note: Facility is unmanned

CONCRETE NOTES:

1. Reference utility plans for all required underslab conduits, pipes, etc. Coordinate locations with general contractor and all trades involved.
2. Minimum 28-day concrete compressive strengths shall be as follows:
 - a. Footings 4,000 psi
 - b. Slab-on-grade 4,000 psi
 - c. Curbs, gutters, walks & pads 4,000 psi
3. Provide ready-mixed concrete in accordance with ASTM C 94.
4. Comply with the following ACI publications unless modified by requirements on these plans:
 - a. ACI 301, "Specifications for structural concrete."
 - b. ACI 117, "Specifications for tolerances for concrete construction and materials."
 - c. ACI 318, "Building code requirements for reinforced concrete."
5. Reinforcing bars: ASTM A 615, grade 60.
6. Portland Cement: ASTM C 150.
7. Normal-weight aggregates: ASTM C 33, graded.
8. Prepare concrete design mixtures, proportioned on the basis of laboratory trial mixture or field test data, or both, according to ACI 301.
9. Fly ash may be substituted for Portland Cement to a maximum of 20% by weight. Fly ash shall comply ASTM C 618, class C.
10. Air-entraining admixtures: ASTM C 260.
11. Chemical admixtures: ASTM C 494 and ASTM C 1017.
12. Air content: 5%, plus or minus 1.5%, for all exterior concrete and grade wall concrete mixtures.
13. Chloride ions shall not be used in any concrete mixture.
14. Maximum slump = five inches.
15. Reinforcement lap splices shall be in accordance with the following table, unless noted otherwise. Where classes are not indicated on the drawings, use class "B" splices. Provide diagonal reinforcing at re-entrant corners.
16. Place concrete in accordance with ACI 318. Deposit concrete as near to its final position as practical. Concrete shall be thoroughly consolidated around reinforcement and embedded items. All reinforcement steel shall be free from dirt, rust, and other deleterious material prior to concrete placement.
17. Concrete placed in cold weather shall be in compliance with ACI 306. Concrete shall not be placed on frozen sub-grade or on grade containing frozen material.
18. Minimum concrete cover shall be provided as indicated below:
 - a. Concrete cast against the earth: 3"
 - b. Concrete permanently exposed to the earth or weather: 3"
 - c. #5 or smaller: 1 1/2"
 - d. #6 or larger: 2"
 - e. Concrete not in contact with earth or weather: 1/4"
19. Provide 2"x4" continuous key-way in all horizontal and vertical construction joints.
20. Contractor shall verify with test cylinders that foundation concrete has attained compressive strength of 2,500 psi prior to setting precast shelter, and that 28 day compressive strength reaches values specified above.
21. Top of foundation elevation shall be within ± 1/2" of the design elevation at all locations. The foundation surface shall not vary by more than 1/4" when measured with a 10-foot straight edge.

BAR SIZE	TENSION SPLICES (IN)				COMPRESSION SPLICES (IN)
	TOP BARS		OTHER BARS		
	CLASS A	CLASS B	CLASS A	CLASS B	
#3	16	21	12	16	12
#4	21	23	16	21	15
#5	27	35	21	27	19
#6	35	46	27	35	23

3701 COMMUNICATIONS WAY
EVANSVILLE, IN 47715
812-213-1065

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**COMMUNICATIONS
SHELTER
AURORA, CO**

DESIGN ENG: LWW

DRAWN BY: SLF

REVIEWED BY: LWW

SUBMITTALS		
DATE	DESCRIPTION	REV
3/19/25	PERMITTING	A



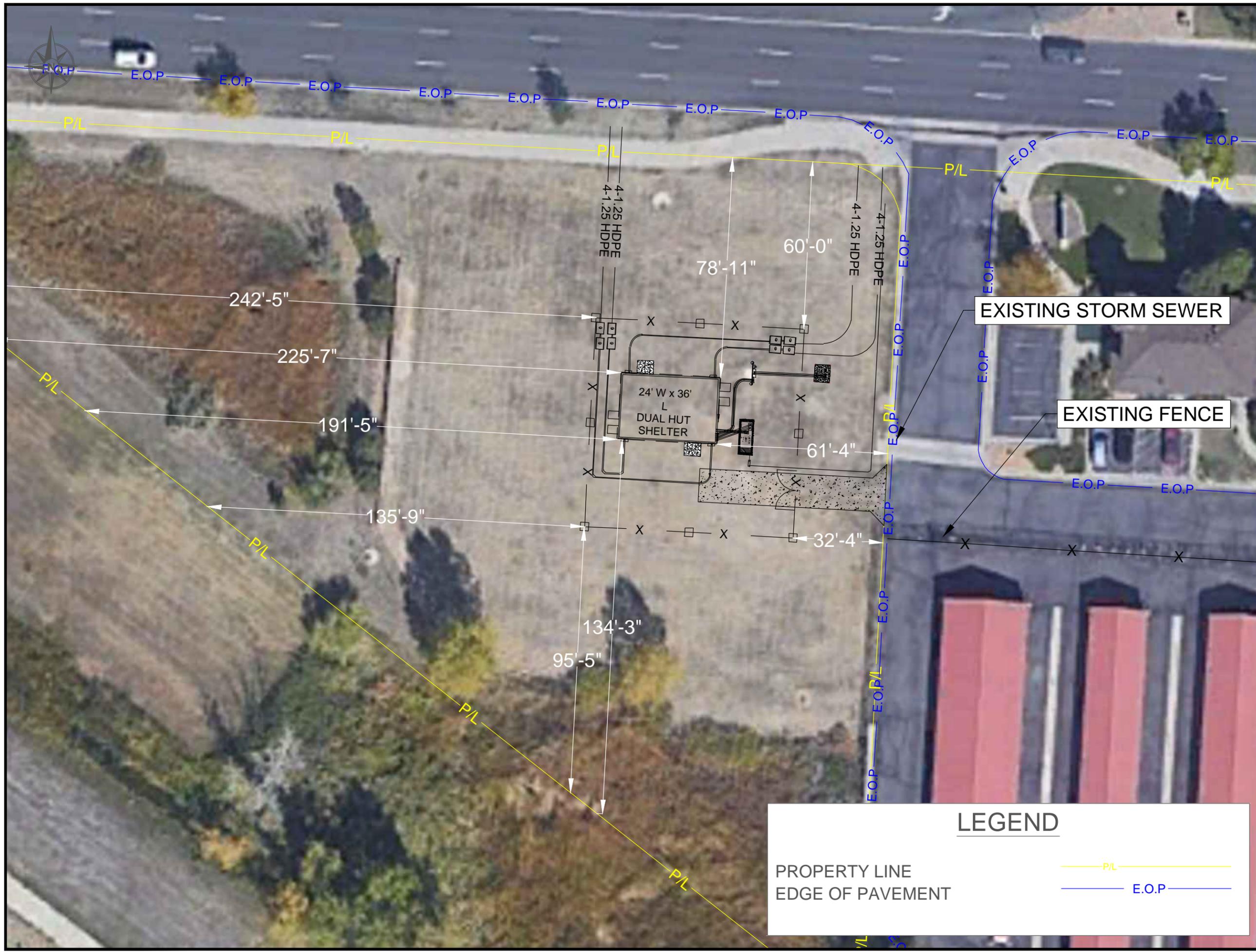
SCALE: NTS

SITE ADDRESS:
16620 E ALAMEDA PKWY

SITE NAME:
AURORA SHELTER

SHEET NAME:
GENERAL NOTES

SHEET NUMBER:
3



3701 COMMUNICATIONS WAY
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**COMMUNICATIONS SHELTER
 AURORA, CO**

DESIGN ENG: LWW
 DRAWN BY: SLF
 REVIEWED BY: LWW

SUBMITTALS		
DATE	DESCRIPTION	REV
3/19/25	PERMITTING	A



SCALE: 1"=32'
 SITE ADDRESS: 16620 E ALAMEDA PKWY
 SITE NAME: AURORA SHELTER
 SHEET NAME: OVERALL SITE PLAN
 SHEET NUMBER: 5

LEGEND

PROPERTY LINE ——— P/L ———

EDGE OF PAVEMENT ——— E.O.P. ———



3701 COMMUNICATIONS WAY
EVANSVILLE, IN 47715
812-213-1095

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COMMUNICATIONS SHELTER AURORA, CO

DESIGN ENG: LWW

DRAWN BY: SLF

REVIEWED BY: LWW

SUBMITTALS

DATE	DESCRIPTION	REV
3/19/25	PERMITTING	A



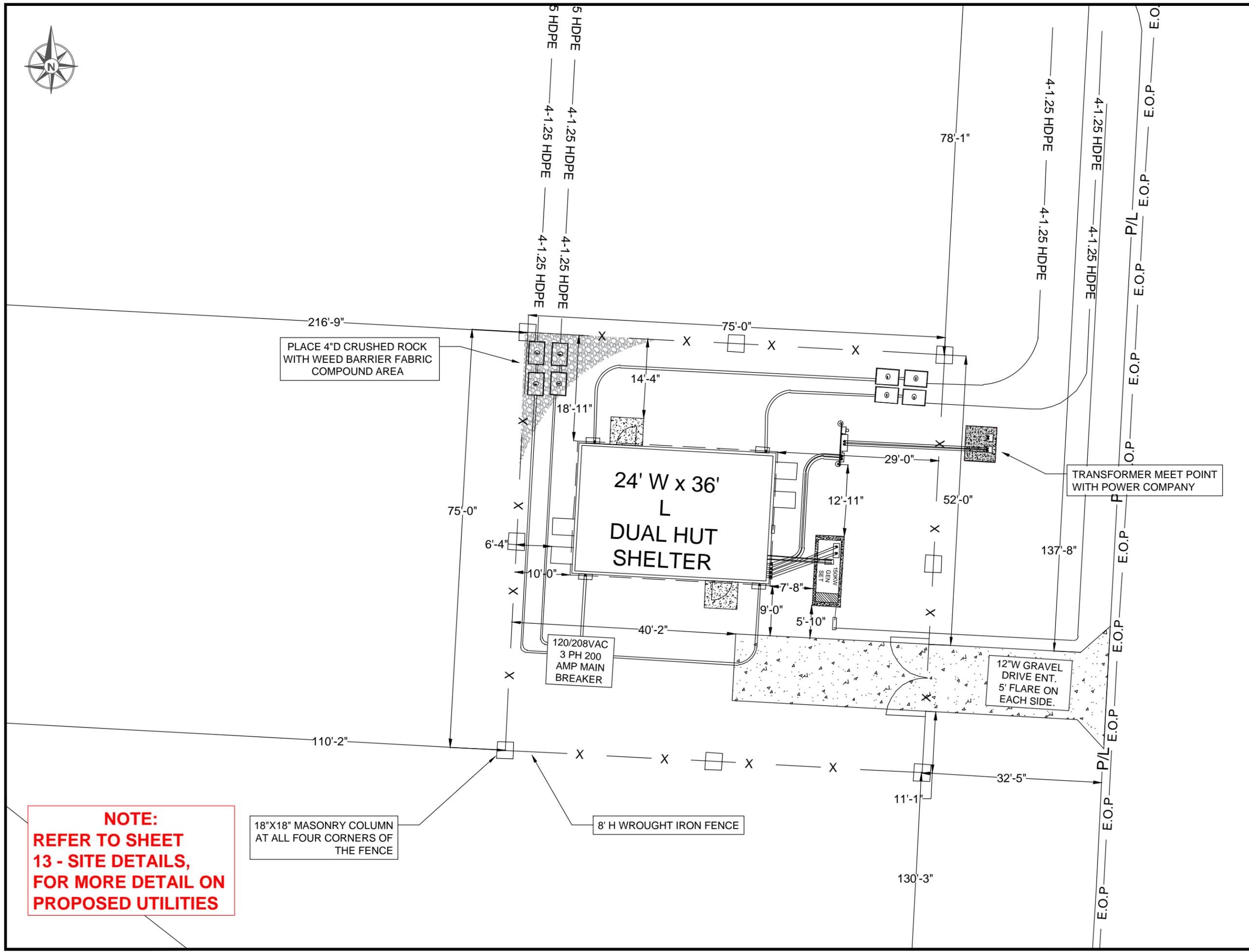
SCALE: 1"=16'

SITE ADDRESS:
16620 E ALAMEDA PKWY

SITE NAME:
AURORA SHELTER

SHEET NAME:
SITE PLAN

SHEET NUMBER:
6



PLACE 4" D CRUSHED ROCK WITH WEED BARRIER FABRIC COMPOUND AREA

TRANSFORMER MEET POINT WITH POWER COMPANY

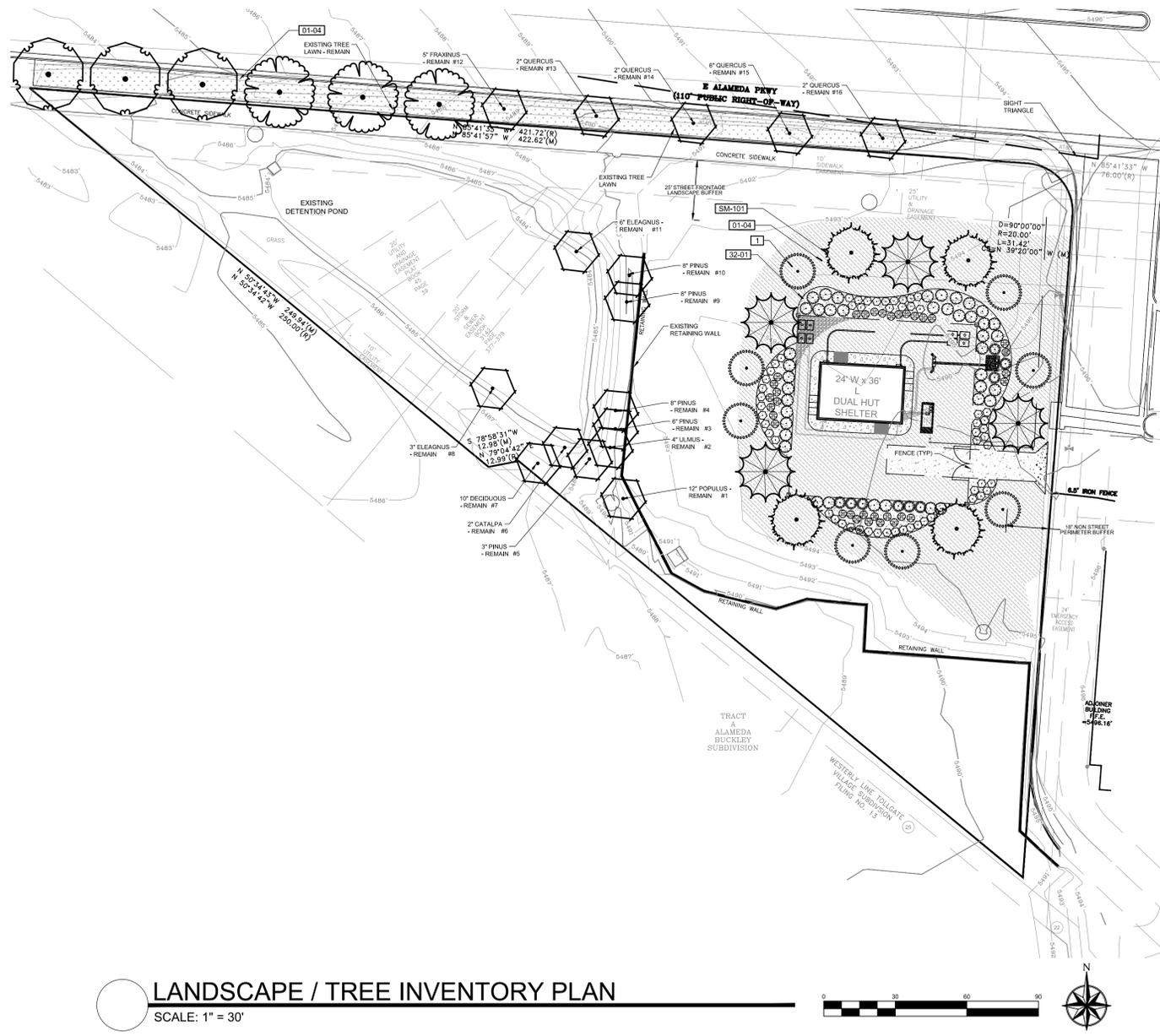
120/208VAC
3 PH 200
AMP MAIN
BREAKER

12" W GRAVEL
DRIVE ENT.
5' FLARE ON
EACH SIDE.

8' H WROUGHT IRON FENCE

18" X 18" MASONRY COLUMN AT ALL FOUR CORNERS OF THE FENCE

NOTE:
REFER TO SHEET 13 - SITE DETAILS, FOR MORE DETAIL ON PROPOSED UTILITIES



LANDSCAPE / TREE INVENTORY PLAN

SCALE: 1" = 30'



PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT
TREES				
	CO	3	CELTIS OCCIDENTALIS / COMMON HACKBERRY	2.5" B&B
	GTS	3	GLEDTISIA TRIACANTHOS INERMIS 'SHADEMASTER' TM / SHADEMASTER LOCUST	2.5" B&B
	PNA	4	PINUS NIGRA / AUSTRIAN PINE	6" B&B
	PP	4	PINUS PONDEROSA / PONDEROSA PINE	6" B&B
EVERGREEN TREES				
	PE	8	PINUS EDULIS / PINON PINE	6" B&B
EXISTING TREES				
	EX-RET	16	TO REMAIN- PROTECT DURING CONSTRUCTION / EXISTING TREE TO REMAIN	EX
SHRUBS				
	AL	33	AMORPHA CANESCENS / LEADPLANT	5 GAL
	ES	55	ERICAMERIA NAUSEOSA SPECIOSA / DWARF BLUE RABBITBRUSH	5 GAL
	FA	41	FALLUGIA PARADOXA / APACHE PLUME 12356D	5 GAL
	JSWB	9	JUNIPERUS SCOPULORUM 'WITCHITA BLUE' / UPRIGHT JUNIPER TYPE TBD BASED ON AVAILABILITY	10 GAL
GROUND COVERS				
	ETR	4,086 SF	EX TURF TO REMAIN / OFF-SITE, EXISTING TURF PROTECT IN PLACE, REPAIR/REPLACE ANY DAMAGED MATERIALS. TURF ON SEPARATE, EXISTING IRRIGATION SYSTEM FOR OVERALL DEVELOPMENT. ADJUST FOR NEW LAYOUT.	EX
MULCHES				
	RM	3,331 SF	ROCK MULCH / RIVER ROCK 1"-2" PER OWNER APPROVAL. PLACE TO A UNIFORM DEPTH OF 3" OVER PERMEABLE WEED BARRIER	MULCH
SOD/SEED				
	LGNS	13,974 SF	LOW GROW NATIVE SEED MIX / PBSI SEED 40 LBS/ACRE. TEMPORARY IRRIGATION	SEED

ALL PLANTS SPECIFIED ARE LOW WATER, NON-TURF. ALL LANDSCAPE AREAS ARE WATER CONSERVING.

REFERENCE NOTES SCHEDULE

CODE	DESCRIPTION
1	PLACE SHREDDED CEDAR MULCH AROUND BASE OF ALL PERENNIALS AND GRASSES IN LARGE COBBLE AREAS OR TREES IN NATIVE AREAS. MASSED PERENNIALS TO RECEIVE LARGE RING AROUND ENTIRE GROUP (TYP).
01-04	SEED ALL DISTURBED AREAS WITH LOW GROW NATIVE MIX UNLESS OTHERWISE NOTED.
32 LANDSCAPE IMPROVEMENTS	
32-01	14 G ROLL TOP STEEL EDGING, STAKED 30" OC MAX.
SM-101	ALL SEEDED AREAS TO BE AMENDED AND HYDROSEEDING. PLACE EROSION CONTROL MAT ON ALL SLOPES EXCEEDING 4:1.

- 1) WATER SERVICE LINES ARE PUBLIC UP THROUGH THE METER AND ARE PRIVATE DOWNSTREAM OF THE METER.
- 2) ALL SANITARY SERVICE CONNECTIONS ARE PRIVATE.
- 3) ALL STORM IS PRIVATE UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED BY THE PROPERTY OWNER.

Low Grow Native Seed Mix
 PBSI Low Grow Native Mix:
 Sandberg Bluegrass
 Rocky Mountain Fescue
 Canby Bluegrass
 Rate: 5 lbs/1000 sf (PLS)

ALL PROPOSED LANDSCAPING WITHIN THE SIGHT TRIANGLE SHALL BE IN COMPLIANCE WITH COA ROADWAY SPECIFICATIONS, SECTION 4.04.2.10

ALL TREES PLANTED ADJACENT TO PUBLIC AND/OR PEDESTRIAN WALKWAYS SHALL BE PRUNED CLEAR OF ALL BRANCHES BETWEEN GROUND AND A HEIGHT OF EIGHT (8) FEET FOR THAT PORTION OF THE PLANT LOCATED OVER THE SIDEWALK AND/OR ROAD OR WITHIN SIGHT TRIANGLES. NO PERSON SHALL PLACE OR MAINTAIN ANY STRUCTURES, FENCES, LANDSCAPING, OR ANY OTHER OBJECTS WITHIN ANY SIGHT TRIANGLE ARE DESCRIBED IN SECTION 4.04.2.10.2 THAT OBSCURE OR OBSCURE SIGHT VISIBILITY THROUGH STRUCTURES, FENCING, LANDSCAPING OR OTHER OBJECTS IN THE VERTICAL PLANE ABOVE THE SIGHT TRIANGLE AREA BETWEEN THE HEIGHT OF 42 INCHES AND 96 INCHES ABOVE THE ROADWAY SURFACE. TYPICAL OF ALL SIGHT TRIANGLES

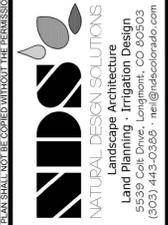
ALL TREES SHALL BE PLACED A MINIMUM 10 FEET AWAY FROM WATER, SANITARY AND STORM SEWERS AND ALL SHRUBS SHALL BE PLACED A MINIMUM OF 5 FEET AWAY FROM WATER, SANITARY, AND STORM SEWERS. NO MATERIAL WITHIN 3' OF A FIRE HYDRANT

LANDSCAPE REQUIREMENTS

CURBSIDE LANDSCAPING					
Street Name or Zone Boundary (elev.)	Classification	Linear Footage	No. of Trees Req./Prov. (1/40 ft)	Shrubs Required Req./Prov.	Curbside Area
E Alameda Ave	Arterial	423	11 / 11 (5) existing	N/A - existing native	1140 sf
STREET FRONTAGE BUFFERS *					
Street Name or Zone Boundary (elev.)	Depth Req/Prov	Linear Footage	No. of Trees Req./Prov.	Evergreen Trees Req./Prov.	No. of Shrubs Req./Prov.
E Alameda Ave	25' / 25'	158	4 / 5	2 / 5	40 / 40
NON STREET PERIMETER BUFFERS *					
Street Name or Zone Boundary (elev.)	Depth Req/Prov	Linear Footage	No. of Trees Req./Prov.	Evergreen Trees Req./Prov.	No. of Shrubs Req./Prov.
Eastern PL	18' / 18' +	110	3 / 3	1 / 3	30 / 30
SPECIAL LANDSCAPE BUFFERS *					
Street Name or Zone Boundary (elev.)	Depth Req/Prov	Linear Footage	No. of Trees Req./Prov.	Evergreen Trees Req./Prov.	No. of Shrubs Req./Prov.
Western PL	25' / 25' +	85	3 / 4	1 / 4	28 / 28
Southern PL	25' / 25' +	110	4 / 4	2 / 4	37 / 37

* Buffer plant material relocated around the perimeter of the fence to screen the proposed communication hut and backup natural gas generator.

REVISIONS:



METRONET SHELTER
16620 E ALAMEDA PKWY, AURORA, CO
LANDSCAPE PLAN

PROJ. NO.:
 DATE: 02.27.25
 SCALE: See Sheet
 DRAWN: JRO
 CHKD BY: NAM
 SHEET L10

IRRIGATION NOTES

ALL TURF AREAS TO BE IRRIGATED WITH AN AUTOMATIC POP-UP SPRINKLER SYSTEM. ALL TREES TO BE IRRIGATED WITH AUTOMATIC DRIP IRRIGATION SYSTEM. THE IRRIGATION SYSTEM IS TO BE ADJUSTED TO MEET THE NEEDS OF INDIVIDUAL PLANT MATERIAL.

IRRIGATION SYSTEM TO BE ADJUSTED AS NEEDED FOR PLANT ESTABLISHMENT FOR A PERIOD OF AT LEAST ONE (1) YEAR.

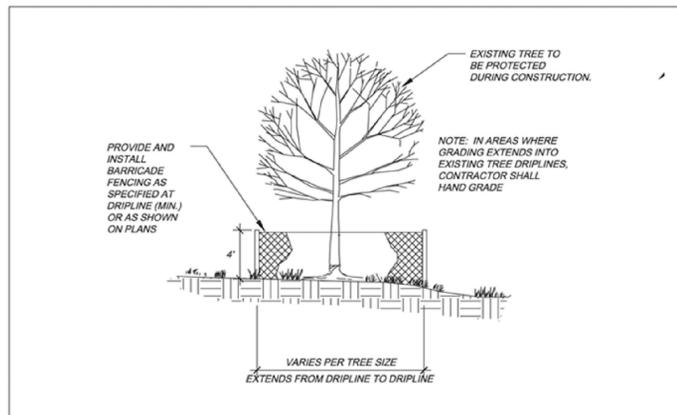
DESIGN OF IRRIGATION SYSTEMS TO MEET OR EXCEED LOCAL REQUIREMENTS AND INDUSTRY STANDARDS. CONSTRUCTION DOCUMENTS SUITABLE FOR DEVELOPMENT COORDINATION TO BE PROVIDED.

IRRIGATION SYSTEM TO BE DESIGNED USING APPROPRIATE COMPONENTS FOR PLANT MATERIAL, AND WILL INCLUDE A SMART ET CONTROLLER AND RAIN SENSOR.

ALL NATIVE SEED AREAS TO BE TEMPORARILY IRRIGATED UNTIL ESTABLISHED.

NOTES

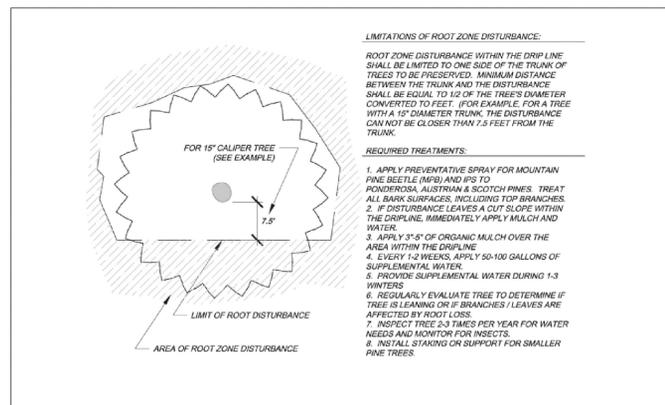
1. THE LANDSCAPE PLAN WILL BE UTILIZED FOR CODE ENFORCEMENT AND LANDSCAPE INSPECTION PURPOSES.
2. SOIL IN LANDSCAPE AREAS CONTAINING PLANT MATERIALS SHALL BE AMENDED WITH A MINIMUM OF 4 CUBIC YARDS PER 1,000 SQ. FT. OF ORGANIC MATTER. SOIL AMENDMENT SHALL BE DISCED OR TILLED INTO THE SOIL TO A DEPTH OF 8 INCHES.
3. THE SURFACE MATERIAL OF WALKS WILL BE CONCRETE, AND VEHICULAR DRIVES, AND PARKING LOTS, WILL BE ASPHALT.
4. ALL UTILITY EASEMENTS SHALL REMAIN UNOBTURATED AND FULLY ACCESSIBLE ALONG THEIR ENTIRE LENGTH FOR MAINTENANCE EQUIPMENT ENTRY.
5. THE DEVELOPER, HIS SUCCESSORS AND ASSIGNS, SHALL BE RESPONSIBLE FOR INSTALLATION, MAINTENANCE AND REPLACEMENT OF ALL LANDSCAPING MATERIALS SHOWN OR INDICATED ON THE APPROVED SITE PLAN OR LANDSCAPE PLAN ON FILE IN THE PLANNING DEPARTMENT. ALL LANDSCAPING WILL BE INSTALLED AS DELINEATED ON THE PLAN, PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY.
6. ALL LANDSCAPE AREAS AND PLANT MATERIAL, EXCEPT FOR NON-IRRIGATED NATIVE, RESTORATIVE, AND DRYLAND GRASS AREAS MUST BE WATERED BY AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM. IRRIGATION SYSTEM DESIGN, INSTALLATION, OPERATION, AND MAINTENANCE SHALL CONFORM TO REQUIREMENTS FOUND IN THE CITY OF AURORA IRRIGATION ORDINANCE.
7. LANDSCAPE MATERIAL PLACEMENT SHALL NOT BE PLACED OR KEPT NEAR FIRE HYDRANTS, FIRE DEPARTMENT INLET CONNECTIONS OR FIRE PROTECTION CONTROL VALVES IN A MANNER THAT WOULD PREVENT SUCH EQUIPMENT OR FIRE HYDRANTS FROM BEING IMMEDIATELY DISCERNIBLE. THE FIRE DEPARTMENT SHALL NOT BE DETERRED OR HINDERED FROM GAINING IMMEDIATE ACCESS TO FIRE PROTECTION EQUIPMENT OR HYDRANTS.
8. LANDSCAPING MATERIAL SHOWN WITHIN THE SITE PLAN CANNOT ENCRUCH INTO ROADWAYS THAT ARE DEDICATED (OR DESIGNATED) AS FIRE LANE EASEMENTS (OR CORRIDORS).
9. ALL SITE PARKING LIGHTS (EXCLUDING BUILDING WALL PACS) TO BE POLE MOUNTED FULL CUT OFF PER CODE
10. ALL PROPOSED LANDSCAPING WITHIN THE SIGHT TRIANGLE SHALL BE IN COMPLIANCE WITH COA ROADWAY SPECIFICATIONS, SECTION 4.04.2.10



City of Aurora
PARKS & OPEN SPACE DEPARTMENT
Date: August 1, 2006

TREE PROTECTION FENCING

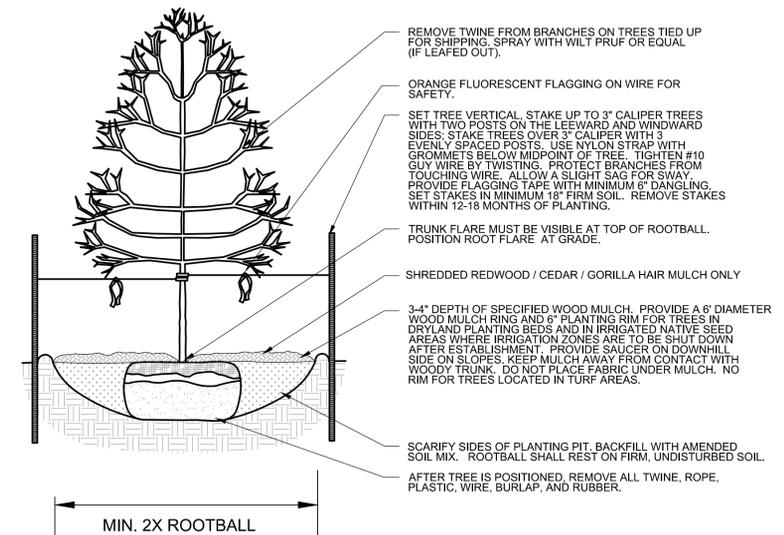
P&OS
TP-3.0



City of Aurora
PARKS & OPEN SPACE DEPARTMENT
Date: August 1, 2006

TREE PROTECTION MEASURES -- 2+ SIDES

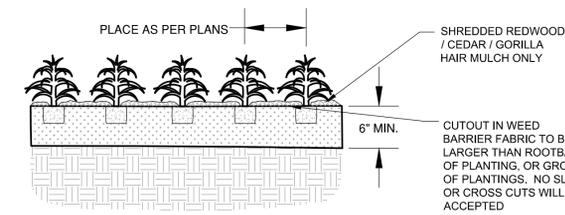
P&OS
TP-2.1



DECIDUOUS TREE PLANTING DETAIL

L2.0

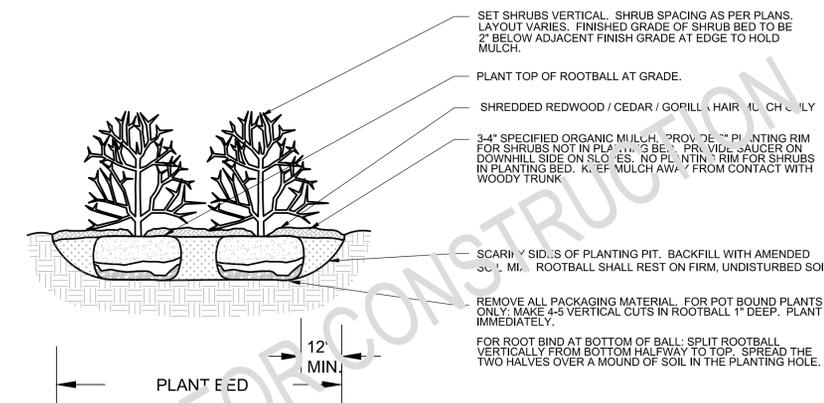
SECTION



PERENNIAL/GROUNDCOVER PLANTING DETAIL

L2.0

NOT TO SCALE



SHRUB PLANTING DETAIL

L2.0

NOT TO SCALE

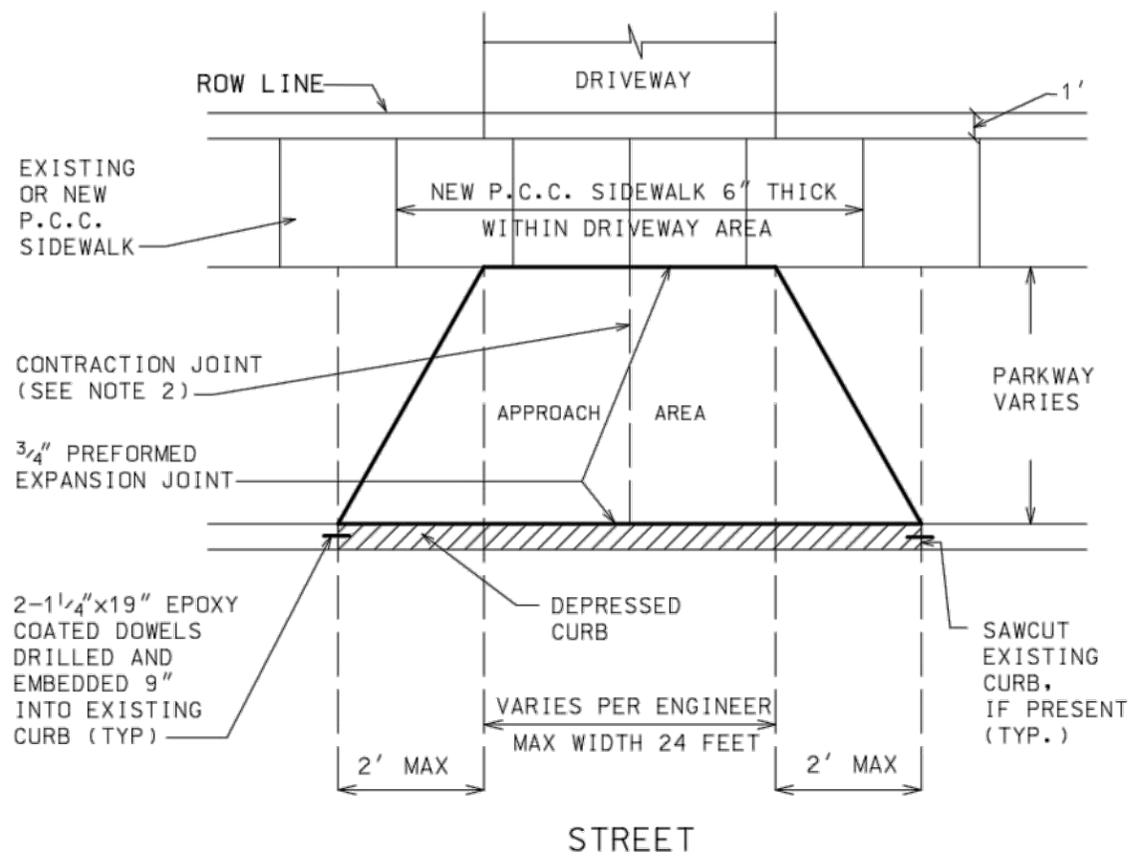
SECTION

REVISIONS:

NDS
NATURAL DESIGN SOLUTIONS
Landscape Architecture
Land Planning • Irrigation Design
5515 S. W. 11th St., Suite 100
Aurora, CO 80014
(303) 443-0243 • info@ndsco.com

METRONET SHELTER
16620 E ALAMEDA PKWY, AURORA, CO
LANDSCAPE PLAN NOTES & DETAILS

PROJ. NO.:	
DATE:	02.27.25
SCALE:	See Sheet
DRAWN:	JRO
CHKD BY:	NAM
SHEET	L2.0



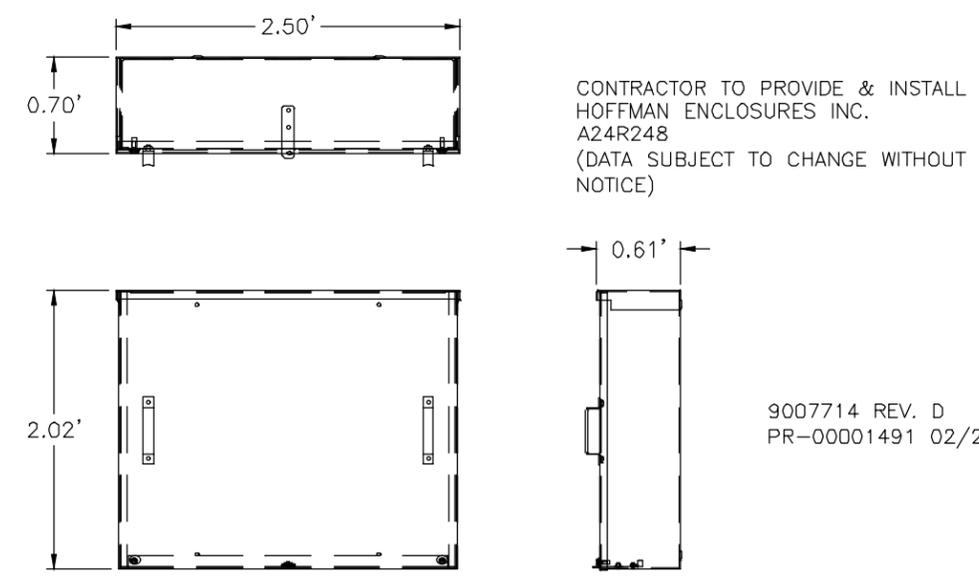
NOTES:

- FOR P.C.C. DRIVEWAY OVER AN UNDERGROUND UTILITY TRENCH, PLACE 6X6 - W2.9XW2.9 WELD AND WIRE FABRIC AT MID-DEPTH OF THE CONCRETE.
- FOR CONCRETE APPROACH WIDER THAN 16', A CONTRACTION JOINT SHALL BE LOCATED ALONG THE CENTERLINE.
- P.C.C. CONCRETE DRIVEWAYS:
 APPROACH- 6" (MIN) PORTLAND CEMENT CONCRETE AND 4" (MIN) IDOT CA-6 CRUSHED STONE
 DRIVEWAY- 5" (MIN) PORTLAND CEMENT CONCRETE AND 4" (MIN) IDOT CA-6 CRUSHED STONE
- BITUMINOUS DRIVEWAYS:
 APPROACH- 6" (MIN) IDOT CA-6 CRUSHED STONE AND 3" (MIN) BITUMINOUS CONCRETE
 DRIVEWAY- 4" (MIN) IDOT CA-6 CRUSHED STONE AND 3" (MIN) BITUMINOUS CONCRETE
- BRICK PAVERS OR OTHER ARCHITECTURAL PAVING MATERIALS ARE NOT ALLOWED IN A DRIVEWAY APPROACH AREA WITHOUT A BUILDING PERMIT AND WRITTEN PERMISSION -INCLUDING A HOLD HARMLESS AGREEMENT- FROM THE ENGINEERING DIVISION
- MAINTAIN FULL SIDEWALK WIDTH THROUGH DRIVEWAYS UNLESS DIRECTED OTHERWISE BY CITY ENGINEER. CURBING SHALL NOT RUN THROUGH SIDEWALK AREAS IN DRIVEWAYS.

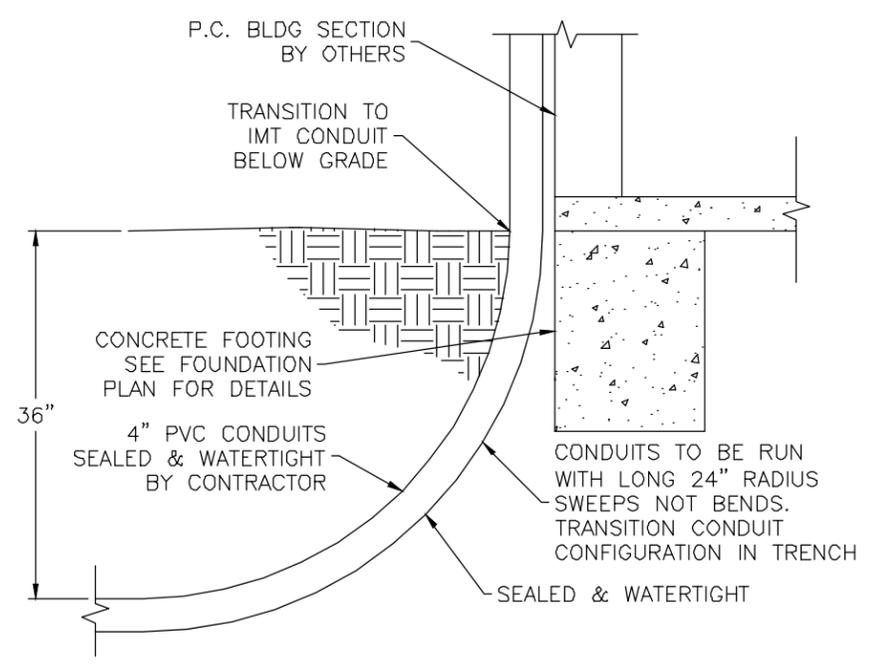
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NOT TO SCALE

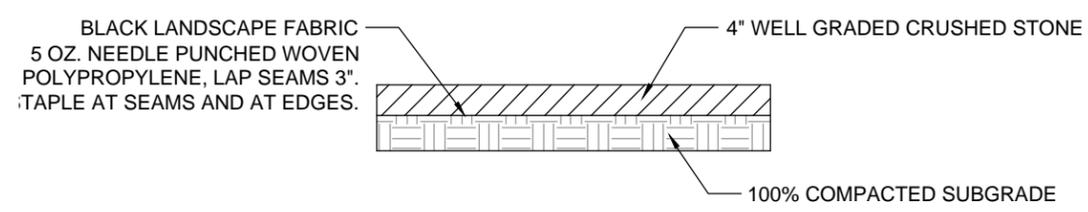
DRIVEWAY DETAIL



S-3 FIBER ENTRANCE BOX DETAIL
SCALE: N.T.S.



S-4 FIBER SWEEP DETAIL
SCALE: N.T.S.



S-5 CRUSHED ROCK SURFACING
SCALE: N.T.S.

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EVANSVILLE, IN 47715
812-213-1065

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COMMUNICATIONS SHELTER
AURORA, CO

DESIGN ENG: LWW
DRAWN BY: SLF
REVIEWED BY: LWW

SUBMITTALS		
DATE	DESCRIPTION	REV
3/19/25	PERMITTING	A



SCALE: NTS

SITE ADDRESS:
16620 E ALAMEDA PKWY

SITE NAME:
AURORA SHELTER

SHEET NAME:
SITE CIVIL DETAILS

SHEET NUMBER:
9

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SHELTER
AURORA, CO

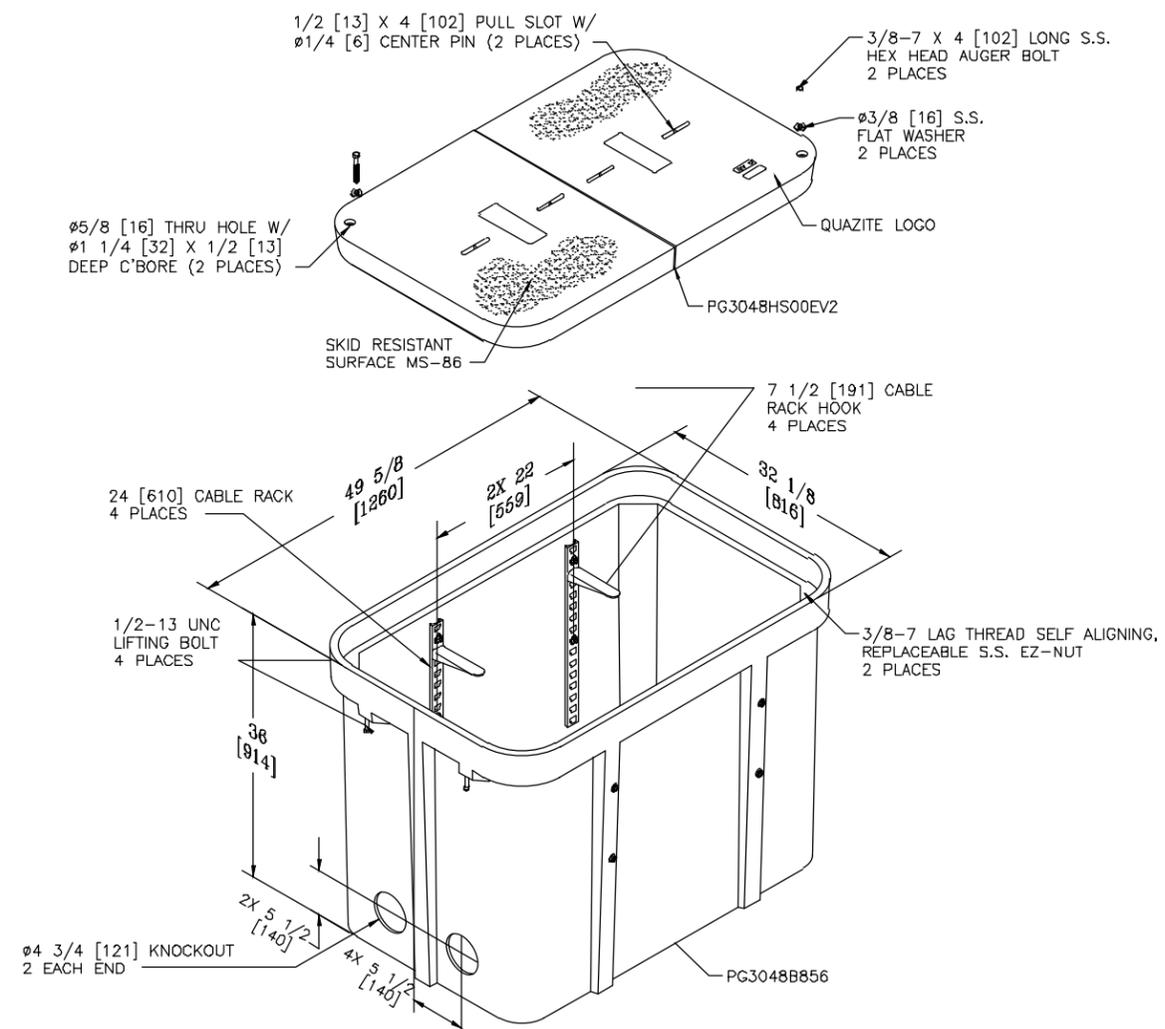
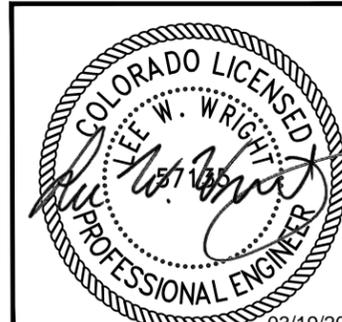
DESIGN ENG: LWW

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SUBMITTALS

DATE	DESCRIPTION	REV
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S-9 HANDHOLE DETAIL
SCALE: N.T.S

SCALE: NTS

SITE ADDRESS:
16620 E ALAMEDA PKWY

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AURORA SHELTER

SHEET NAME:
SITE CIVIL DETAILS

SHEET NUMBER:
10

Classic Premier™ - Industrial



6' and 8' Length Panels Available • 1" SQ 14 ga Pickets • 1-3/4" 14 ga SQ ForeRunner™ Rails

Security - 2 Rail Picket Bottom

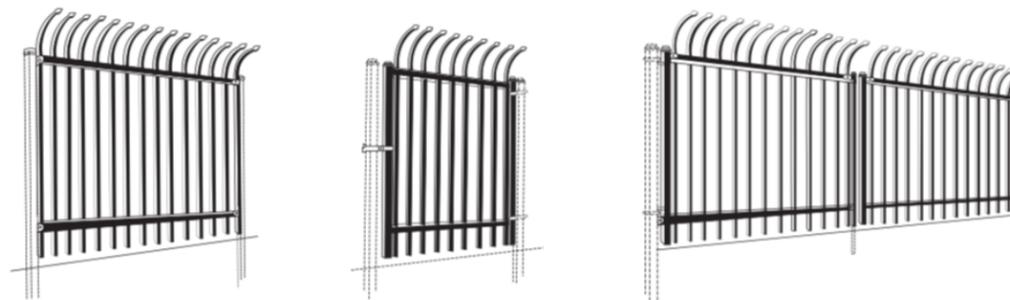
6' Panel Length:

Biasable to 18"
Contains 15 pickets, 2 rails, 2 retaining rods, 30 rubber grommets
Post spacing for 2-1/2" SQ posts = 71-1/2" O.C. ± 1/2"

8' Panel Length:

Biasable to 24"
Contains 19 pickets, 2 rails, 2 retaining rods, 38 rubber grommets
Post spacing for 2-1/2" SQ posts = 96" O.C. ± 1/2"

DESCRIPTION	PART NO. BLACK	WEIGHT EA.	NOTES
7' High x 6' Panel Length	444362	162.00	
7' High x 8' Panel Length	480572	154.00	
42" Wide Single Swing Gate	446472	77.00	
4' Wide Single Swing Gate	446502	85.00	
12' Wide Double Swing Gate	446532	252.00	
14' Wide Double Swing Gate	446562	308.00	
16' Wide Double Swing Gate	446592	352.00	
20' Wide Double Swing Gate	446622	440.00	
8' High x 6' Panel Length	444382	135.00	
8' High x 8' Panel Length	480582	172.00	
42" Wide Single Swing Gate	446482	86.00	
4' Wide Single Swing Gate	446512	95.00	
12' Wide Double Swing Gate	446542	281.00	
14' Wide Double Swing Gate	446572	344.00	
16' Wide Double Swing Gate	446602	393.00	
20' Wide Double Swing Gate	446632	491.00	
10' High x 6' Panel Length	444402	162.00	
10' High x 8' Panel Length	480592	207.00	
42" Wide Single Swing Gate	446492	103.00	
4' Wide Single Swing Gate	446522	116.00	
12' Wide Double Swing Gate	446552	338.00	
14' Wide Double Swing Gate	446582	412.00	



Panels supplied unassembled/components packaged • 1/8" diameter galvanized steel retaining rods • Grommets included

OS-18

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COMMUNICATIONS
SHELTER
AURORA, CO

DESIGN ENG: LWW

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REVIEWED BY: LWW

SUBMITTALS

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SCALE: NTS

SITE ADDRESS:
16620 E ALAMEDA PKWY

SITE NAME:
AURORA SHELTER

SHEET NAME:
SITE CIVIL DETAILS

SHEET NUMBER:
10B

3701 COMMUNICATIONS WAY
 EVANSVILLE, IN 47715
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COMMUNICATIONS
 SHELTER
 AURORA, CO

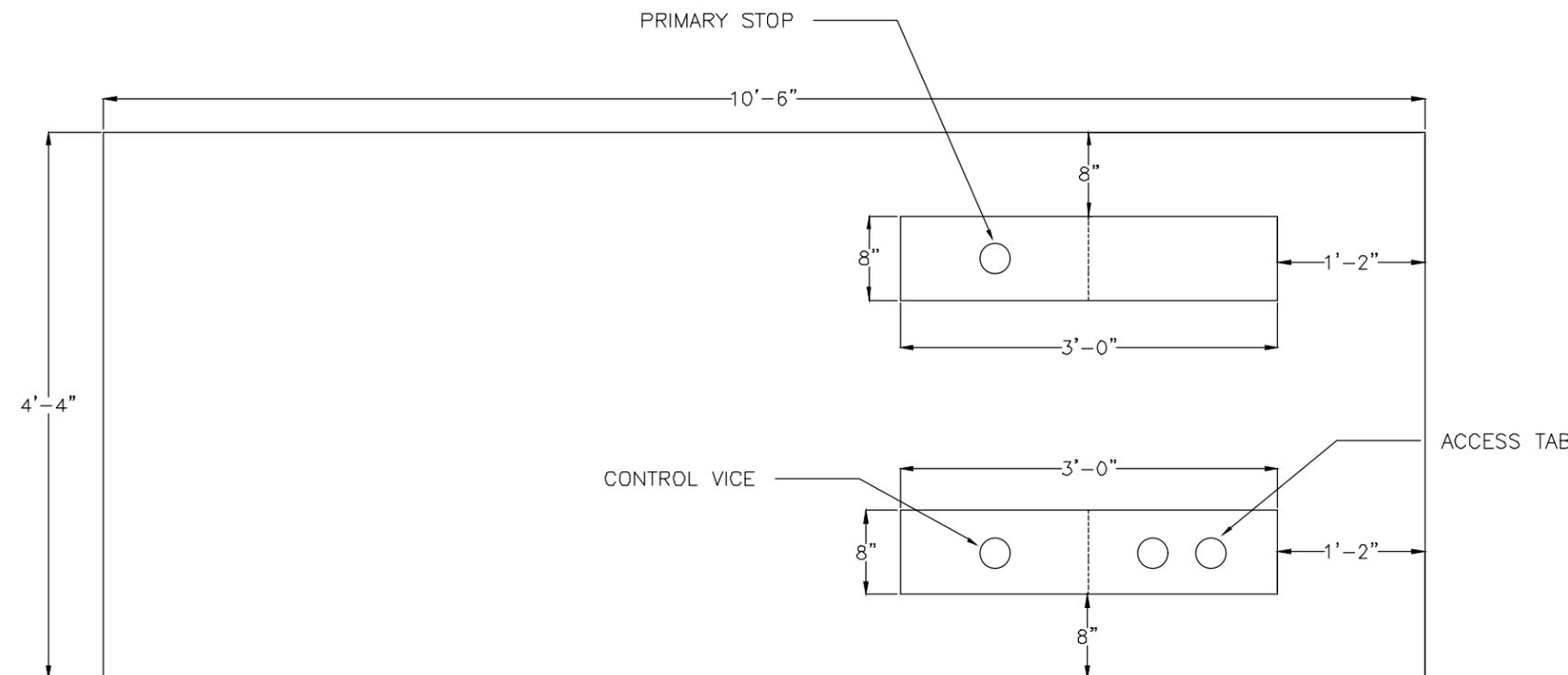
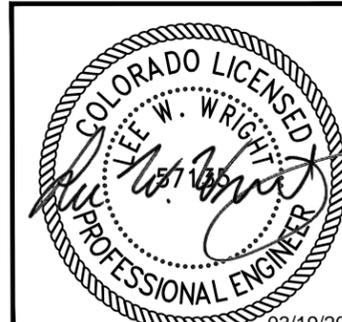
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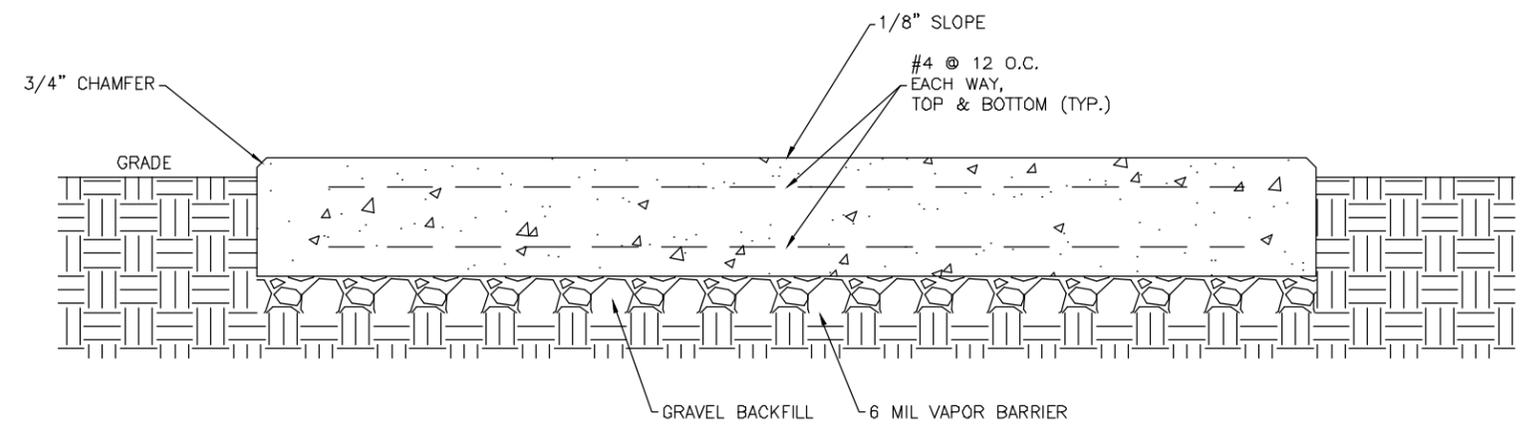
REVIEWED BY: LWW

SUBMITTALS

DATE	DESCRIPTION	REV
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SH-8 150KW CUMMINGS GENERATOR PAD
 SCALE: N.T.S.



SH-8 CONCRETE GENERATOR PAD SECTION
 SCALE: N.T.S.

SEE GENERAC INSTALLATION DRAWING, THIS SET, TO VERIFY LOCATIONS OF BOLT MOUNT OPENINGS IN GENERATOR FRAME

SCALE: NTS

SITE ADDRESS:
 16620 E ALAMEDA PKWY

SITE NAME:
 AURORA SHELTER

SHEET NAME:
 CONCRETE PAD INSTALL DETAILS

SHEET NUMBER:
 11

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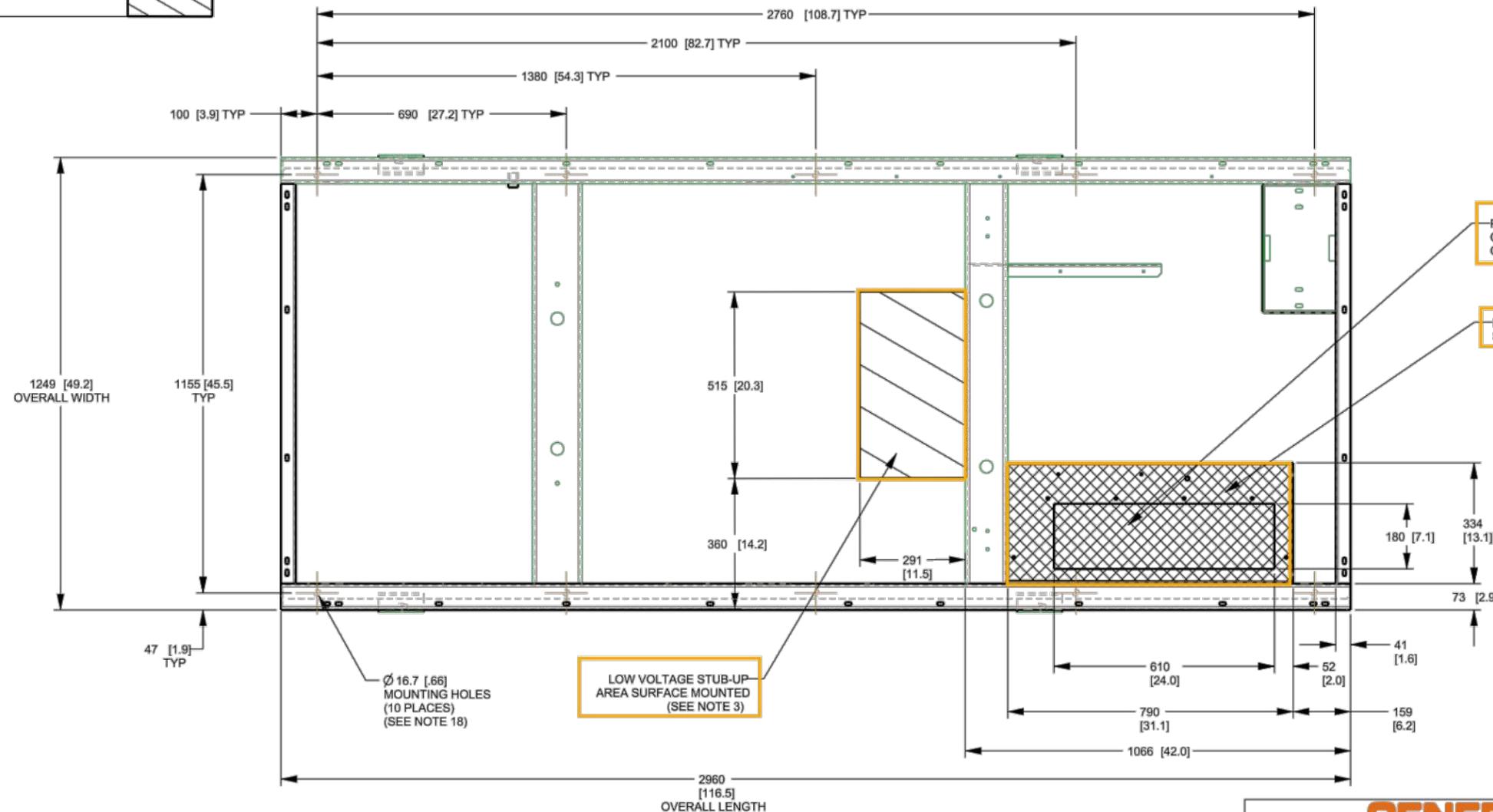
SITE NAME:
AURORA SHELTER

SHEET NAME:
CONCRETE PAD INSTALL DETAILS

SHEET NUMBER:
11B

SH	2/3	REV	1	WINDCHILL VERSION	1.1
----	-----	-----	---	-------------------	-----

RECOMENDED ELECTRICAL STUB-UP	
HIGH VOLTAGE STUB-UP AC LOAD LEAD CONDUIT FOR CONNECTION BOX	
LOW VOLTAGE (STUB-UP)	



DRAWING CREATED FROM PRO/ENGINEER 3D FILE. ECO MODIFICATION TO BE APPLIED TO SOLID MODEL ONLY.

DIMENSIONS ARE IN MILLIMETERS [INCHES]



TITLE			
STUB-UP VIEW			
G9.0L 60HZ: MG150			
50HZ: MG120			
MG 130/150, MG 104/120-UPSIZE ALT			
ISSUE DATE:			
SIZE	CAGE NO	DWG NO	REV
		0K0505	

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COMMUNICATIONS SHELTER
AURORA, CO

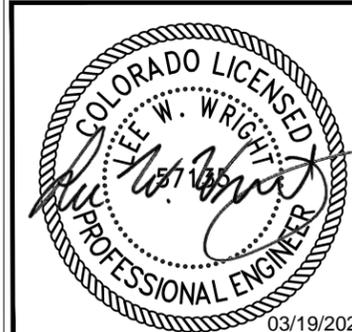
DESIGN ENG: LWW

DRAWN BY: SLF

REVIEWED BY: LWW

SUBMITTALS

DATE	DESCRIPTION	REV
3/19/25	PERMITTING	A



SCALE: NTS

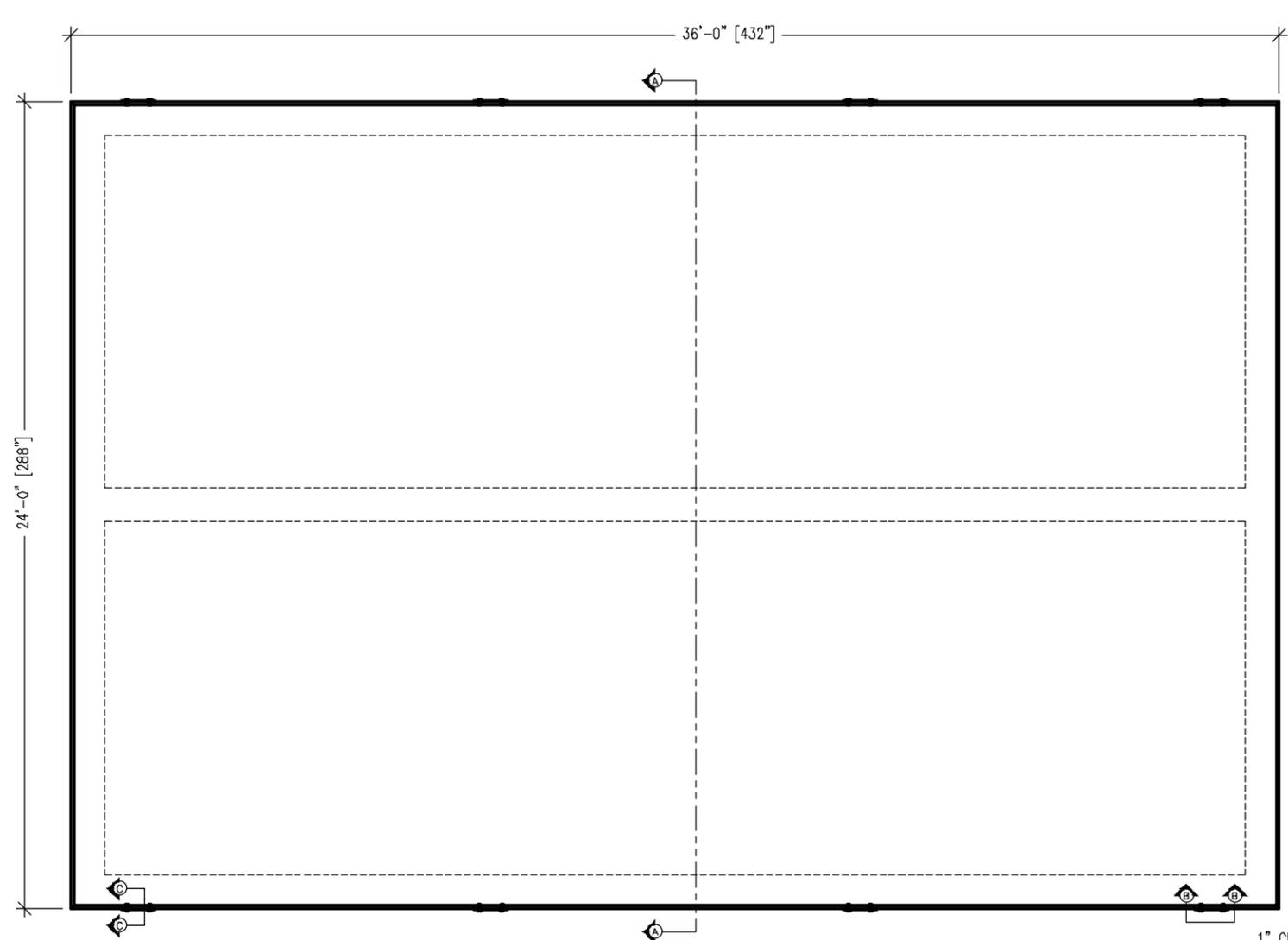
SITE ADDRESS:
16620 E ALAMEDA PKWY

SITE NAME:
AURORA SHELTER

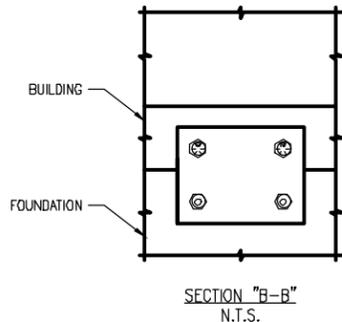
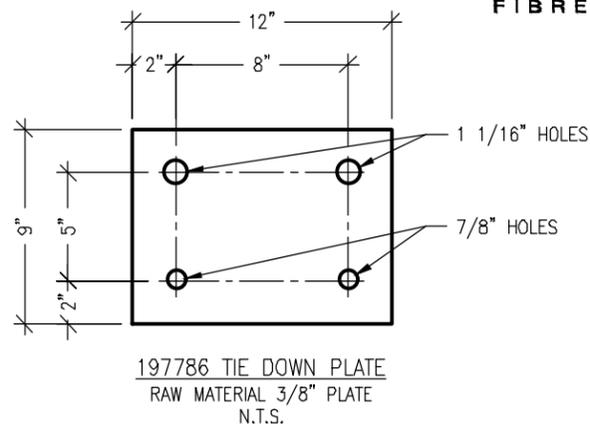
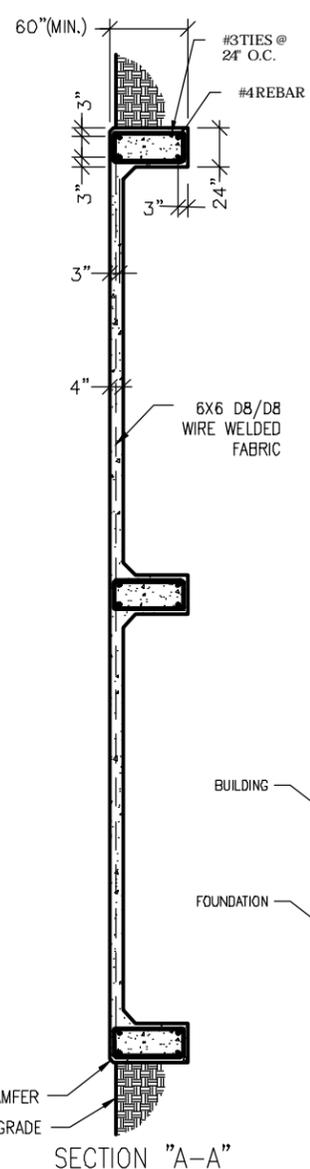
SHEET NAME:
SHELTER FOUNDATION PLAN

SHEET NUMBER:
12

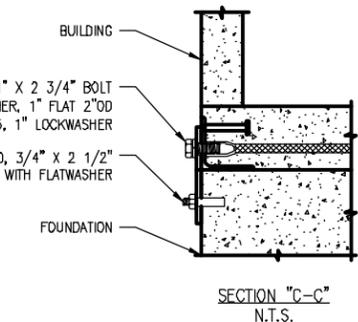
24'-0" X 36'-0" DOUBLE WIDE EQUIPMENT SHELTER
FOUNDATION PLAN



SLAB FOUNDATION
SCALE: 1/4"=1'-0"



- 853-00073, 1" X 2 3/4" BOLT
- 855-11504, WASHER, 1" FLAT 2" O.D
- 855-11505, 1" LOCKWASHER
- 854-12970, 3/4" X 2 1/2" SLEEVE ANCHOR WITH FLATWASHER



CONTRACTOR SHOULD VERIFY ALL SHELTER DIMENSIONS & CLEARANCES/OVERHANGS PRIOR TO FORMING/POURING THE CONCRETE FOUNDATION & STOOPS

- NOTES:
1. SLAB TO BE LEVEL ±1/4".
 2. FOOTING TO EXTEND A MINIMUM OF 24" BELOW UNDISTURBED SOIL AND FROST LINE.
 3. FINAL SITE DESIGN IS THE RESPONSIBILITY OF THE SITE CONTRACTOR.
 4. SLAB FOUNDATION DESIGNED ASSUMING ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.
 5. SLAB FOUNDATION DESIGNED ASSUMING MAXIMUM SOIL PLASTICITY INDEX OF 27.
 6. CONCRETE STRENGTH SHALL BE A MINIMUM OF 3000 PSI.

3701 COMMUNICATIONS WAY
EVANSVILLE, IN 47715
812-213-1095

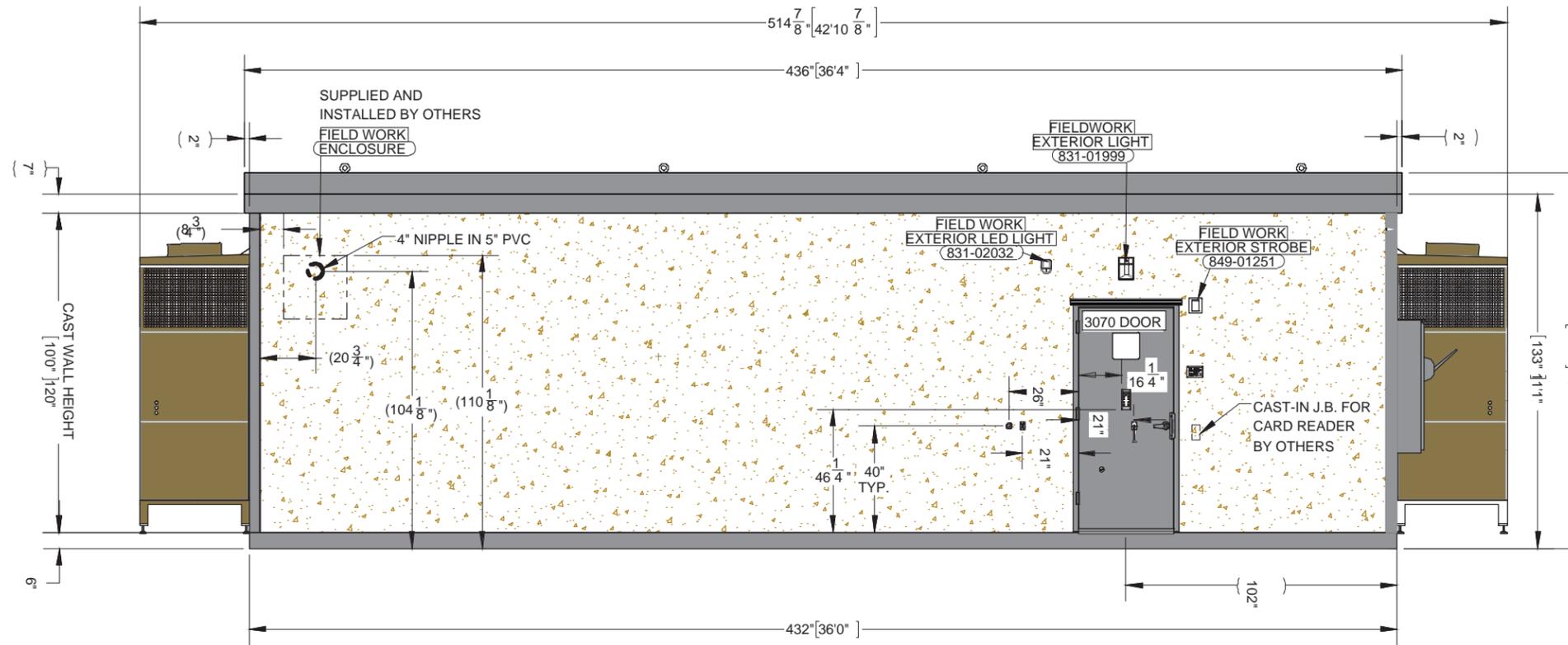
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COMMUNICATIONS
SHELTER
AURORA, CO

DESIGN ENG: LWW
DRAWN BY: SLF
REVIEWED BY: LWW

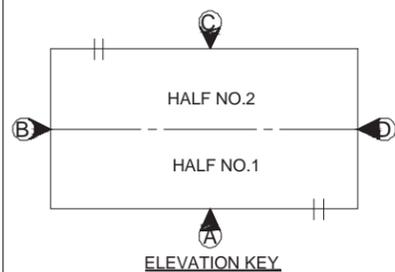
SUBMITTALS

DATE	DESCRIPTION	REV
3/19/25	PERMITTING	A



ELEVATION, EXTERNAL, WALL-A

NOTES:
1. REFER SHEET 1-3 FOR BUILDING NOTES.



REV. BY	DATE	REVISION

REV. BY	DATE	REVISION	APP.

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1300 DAVENPORT DRIVE, MINDEN, LA 71055 ph. (800) 824-2614 www.fibrebond.com		ISSUED FOR: *APPROVAL A.00*	
METRO FIBERNET, LLC		APPROVALS IN PDM DATABASE	
24' - 0" X 36' - 0" BUILDING		THIRD ANGLE PROJECTION	
ELEVATION, EXTERNAL, WALL-A		SCALE 1:48	SHEET NO. 2-2
DRN. BY: GD	DATE: 29-DEC-2021	APP. BY: MG	DATE:
CHK. BY: DL	DATE:	APP. BY:	DATE:
SIZE DWG NO.: B		D11511	

SCALE: NTS
SITE ADDRESS: 16620 E ALAMEDA PKWY
SITE NAME: AURORA SHELTER
SHEET NAME: SHELTER ELEVATIONS
SHEET NUMBER: 13

3701 COMMUNICATIONS WAY
EVANSVILLE, IN 47715
812-213-1095

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AURORA, CO

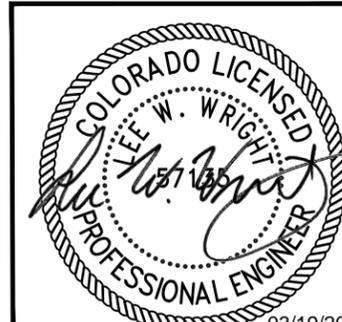
DESIGN ENG: LWW

DRAWN BY: SLF

REVIEWED BY: LWW

SUBMITTALS

DATE	DESCRIPTION	REV
3/19/25	PERMITTING	A



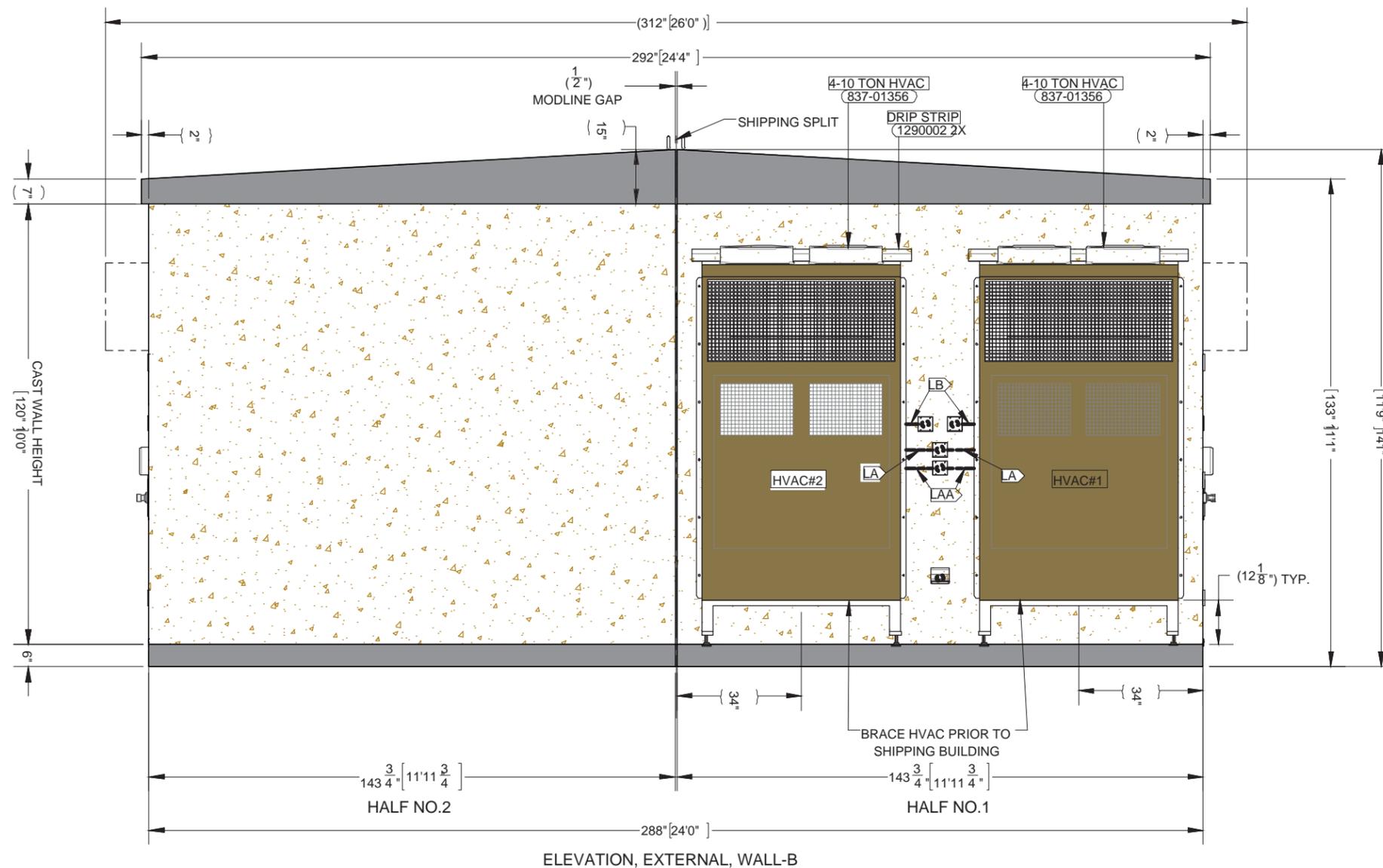
SCALE: NTS

SITE ADDRESS:
16620 E ALAMEDA PKWY

SITE NAME:
AURORA SHELTER

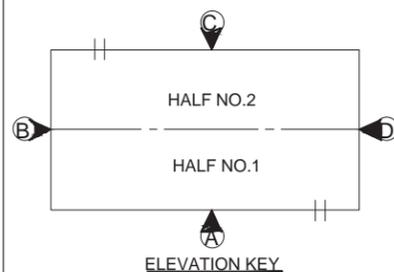
SHEET NAME:
SHELTER ELEVATIONS

SHEET NUMBER:
13



ELEVATION, EXTERNAL, WALL-B

NOTES:
1. REFER SHEET 1-3 FOR BUILDING NOTES.



ELEVATION KEY

REV. BY	DATE	REVISION	APP.

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ph. (800) 824-2614 www.fibrebond.com

METRO FIBERNET, LLC

24' - 0" X 36' - 0" BUILDING

ELEVATION, EXTERNAL, WALL-B

DRN. BY: GD

DATE: 29-DEC-2021

APP. BY: MG

DATE:

CHK. BY: DL

DATE:

APP. BY:

DATE:

ISSUED FOR:

APPROVAL A.00

APPROVALS IN PDM DATABASE

THIRD ANGLE PROJECTION

SCALE

1:32

SHEET NO. 2-3

SIZE (DWG NO.): B D11511

3701 COMMUNICATIONS WAY
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812-213-1095

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COMMUNICATIONS SHELTER
AURORA, CO

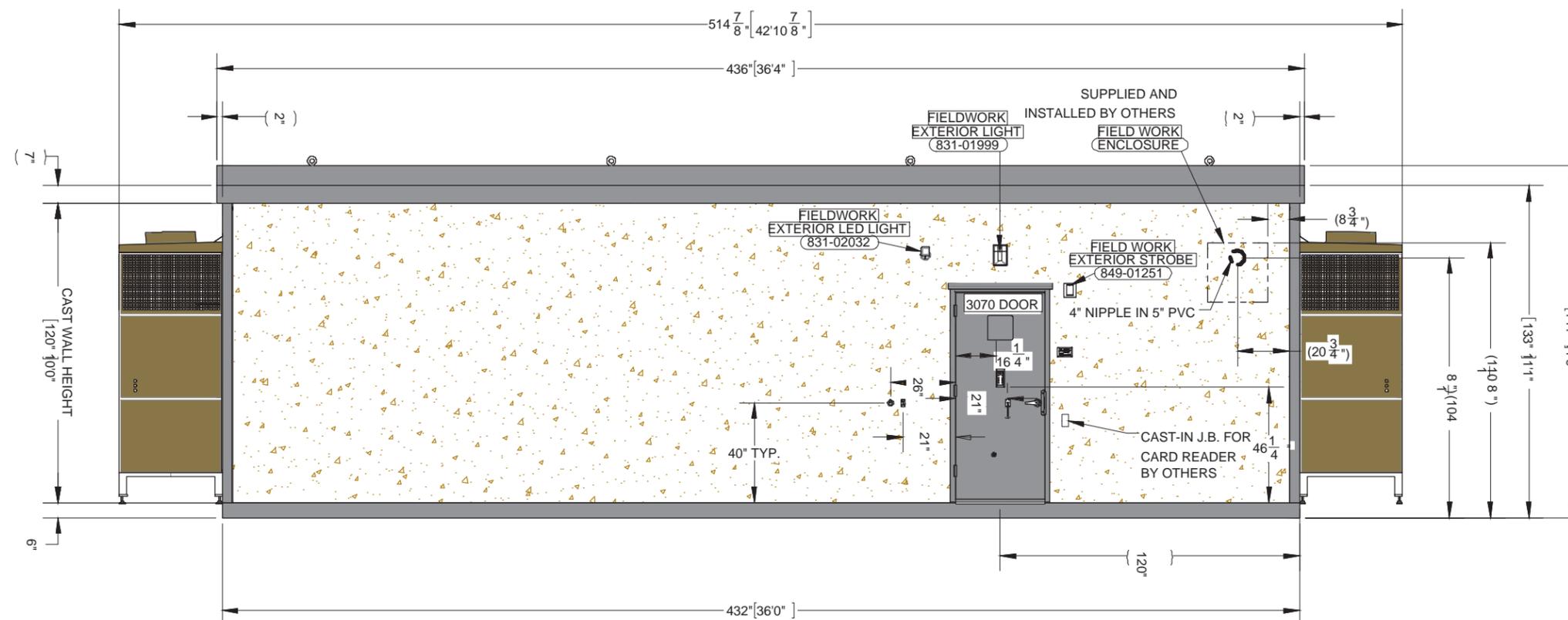
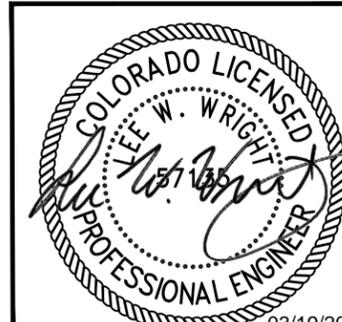
DESIGN ENG: LWW

DRAWN BY: SLF

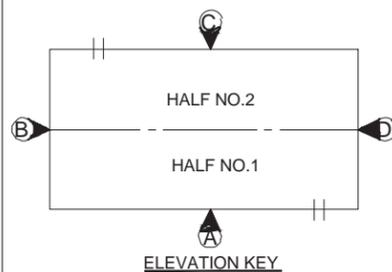
REVIEWED BY: LWW

SUBMITTALS

DATE	DESCRIPTION	REV
3/19/25	PERMITTING	A



NOTES:
1. REFER SHEET 1-3 FOR BUILDING NOTES.



REV. BY	DATE	REVISION	APP.

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ph. (800) 824-2614 www.fibrebond.com

METRO FIBERNET, LLC

24' - 0" X 36' - 0" BUILDING

ELEVATION, EXTERNAL, WALL-C

DRN. BY: GD
CHK. BY: DL

DATE: 29-DEC-2021

APP. BY: MG

DATE:

ISSUED FOR: *APPROVAL A.00*

APPROVALS IN PDM DATABASE

THIRD ANGLE PROJECTION

SCALE 1:48

SHEET NO. 2-4
SIZE B DWG NO. D11511

SCALE: NTS

SITE ADDRESS:
16620 E ALAMEDA PKWY

SITE NAME:
AURORA SHELTER

SHEET NAME:
SHELTER ELEVATIONS

SHEET NUMBER:

13

3701 COMMUNICATIONS WAY
EVANSVILLE, IN 47715
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COMMUNICATIONS SHELTER AURORA, CO

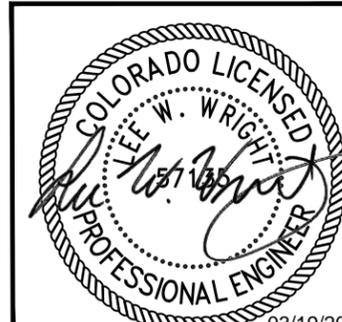
DESIGN ENG: LWW

DRAWN BY: SLF

REVIEWED BY: LWW

SUBMITTALS

DATE	DESCRIPTION	REV
3/19/25	PERMITTING	A



SCALE: NTS

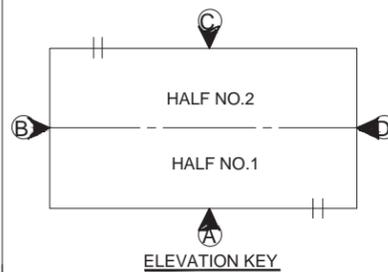
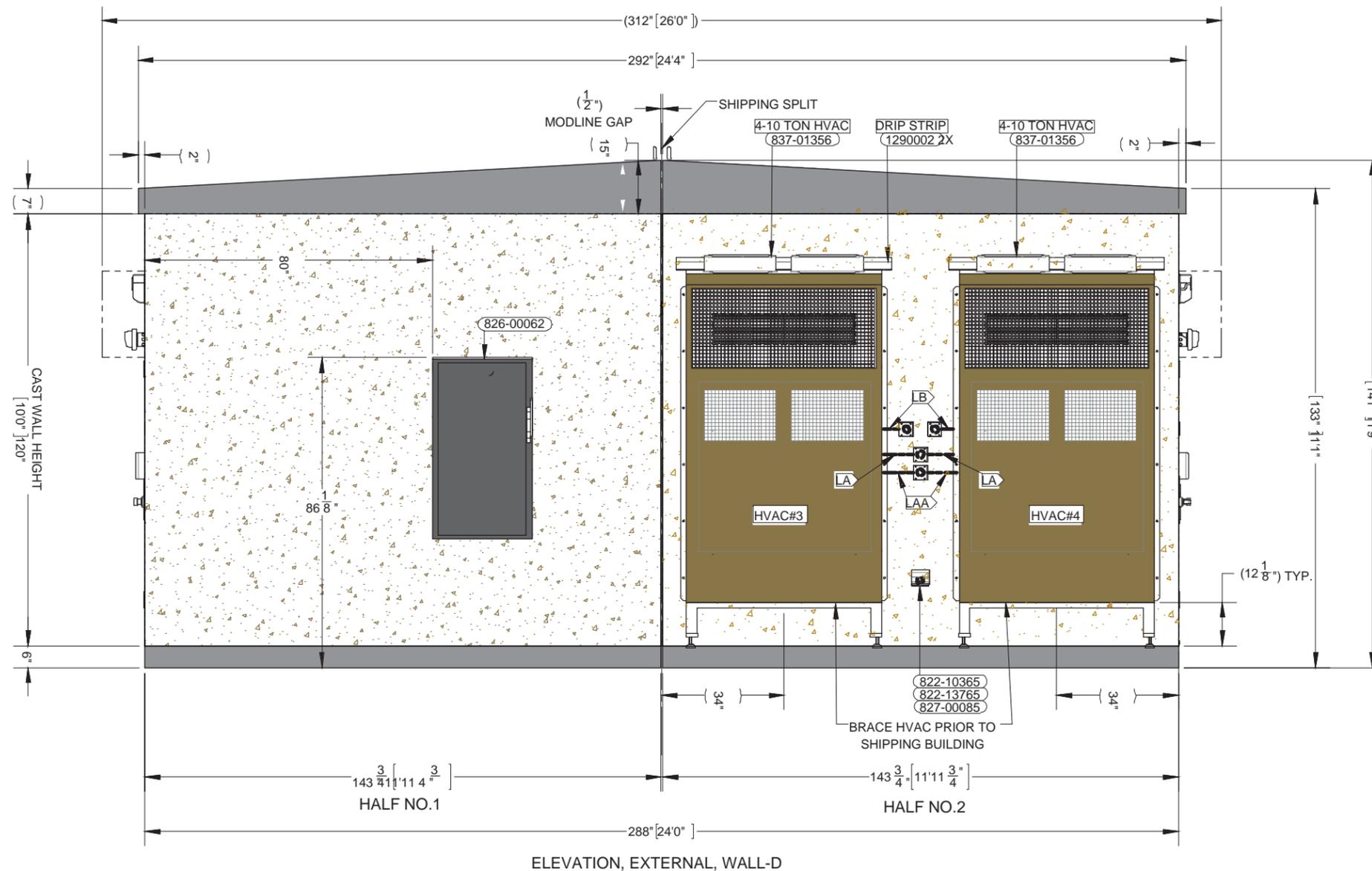
SITE ADDRESS:
16620 E ALAMEDA PKWY

SITE NAME:
AURORA SHELTER

SHEET NAME:
SHELTER ELEVATIONS

SHEET NUMBER:

13



REV. BY	DATE	REVISION	APP.

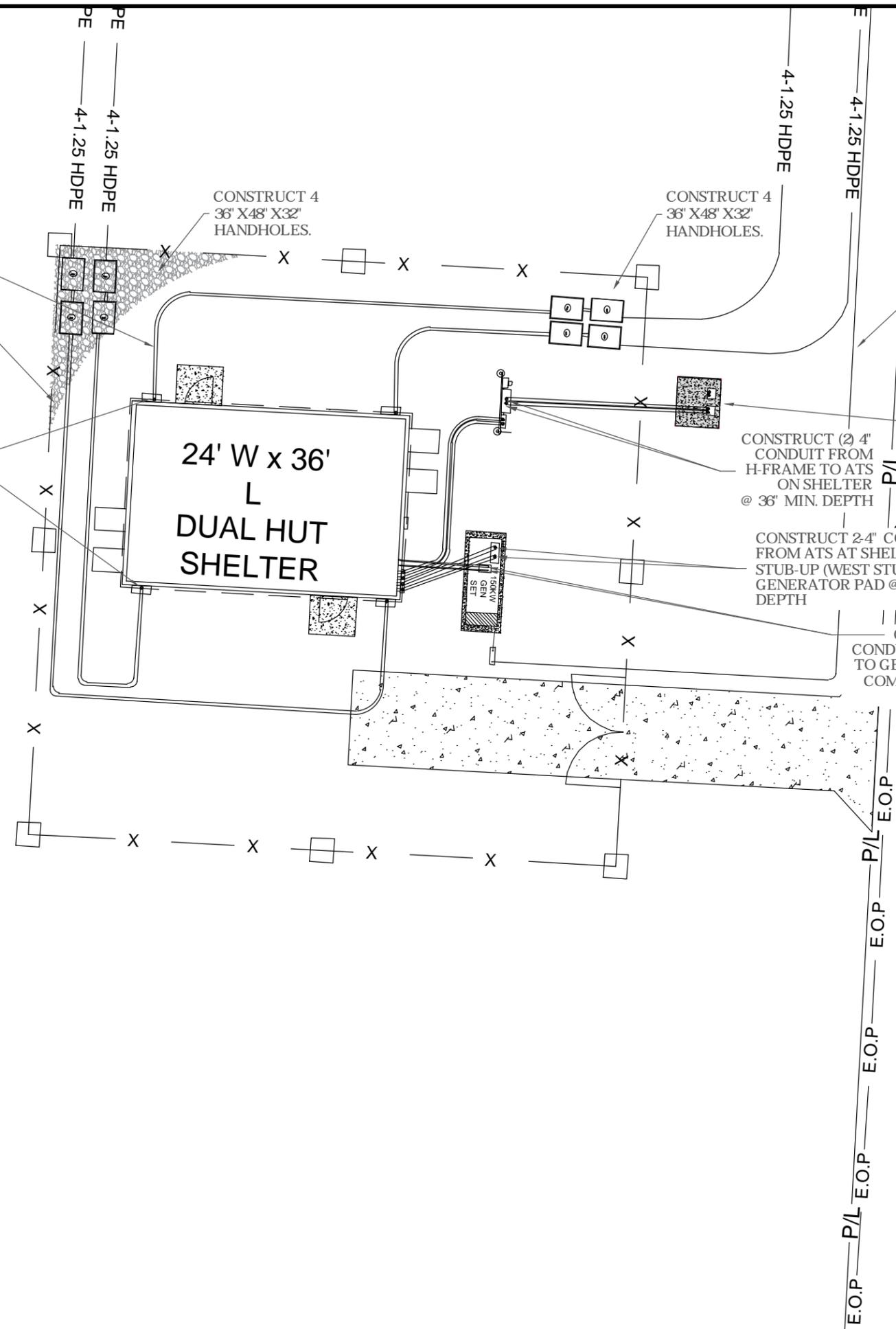
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METRO FIBRENET, LLC		APPROVALS IN PDM DATABASE	
24' - 0" X 36' - 0" BUILDING		THIRD ANGLE PROJECTION	
ELEVATION, EXTERNAL, WALL-D		SCALE 1:32	SHEET NO: 2-5
DRN. BY: GD	DATE: 29-DEC-2021	APP. BY: MG	DATE:
CHK. BY: DL	DATE:	APP. BY:	DATE:
SIZE DWG NO.: B D11511			



CONSTRUCT (4) 4" PVC CONDUIT FROM HANDHOLE TO SWEEPS INTO SHELTER @ 36" MIN. DEPTH.

MOUNT (2EA.) HOFFMAN ENCLOSURES ON SIDE OF SHELTER. SEE DETAIL S-3 SHEET 8
CONSTRUCT SWEEPS PER DETAIL S-4 SHEET 8



CONSTRUCT 4 36" X 48" X 32" HANDHOLES.

CONSTRUCT 4 36" X 48" X 32" HANDHOLES.

COORDINATE GAS WITH THE GAS COMPANY

COORDINATE POWER WITH THE POWER COMPANY

CONSTRUCT (2) 4" CONDUIT FROM H-FRAME TO ATS ON SHELTER @ 36" MIN. DEPTH

CONSTRUCT 2-4" CONDUIT FROM ATS AT SHELTER TO STUB-UP (WEST STUB-UP) AT GENERATOR PAD @ 48" MIN. DEPTH

CONSTRUCT (2) 1.25" CONDUIT FROM SHELTER TO GENERATOR PAD FOR COMMUNICATIONS AND ALARM CIRCUITS.

3701 COMMUNICATIONS WAY
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**COMMUNICATIONS SHELTER
AURORA, CO**

DESIGN ENG: LWW

DRAWN BY: SLF

REVIEWED BY: LWW

SUBMITTALS

DATE	DESCRIPTION	REV
3/19/25	PERMITTING	A



SCALE: 1"=10'

SITE ADDRESS: 16620 E ALAMEDA PKWY

SITE NAME: AURORA SHELTER

SHEET NAME: SITE UTILITIES

SHEET NUMBER: 14

3701 COMMUNICATIONS WAY
EVANSVILLE, IN 47715
812-213-1095

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COMMUNICATIONS
SHELTER
AURORA, CO

DESIGN ENG: LWW

DRAWN BY: SLF

REVIEWED BY: LWW

SUBMITTALS

DATE	DESCRIPTION	REV
3/19/25	PERMITTING	A



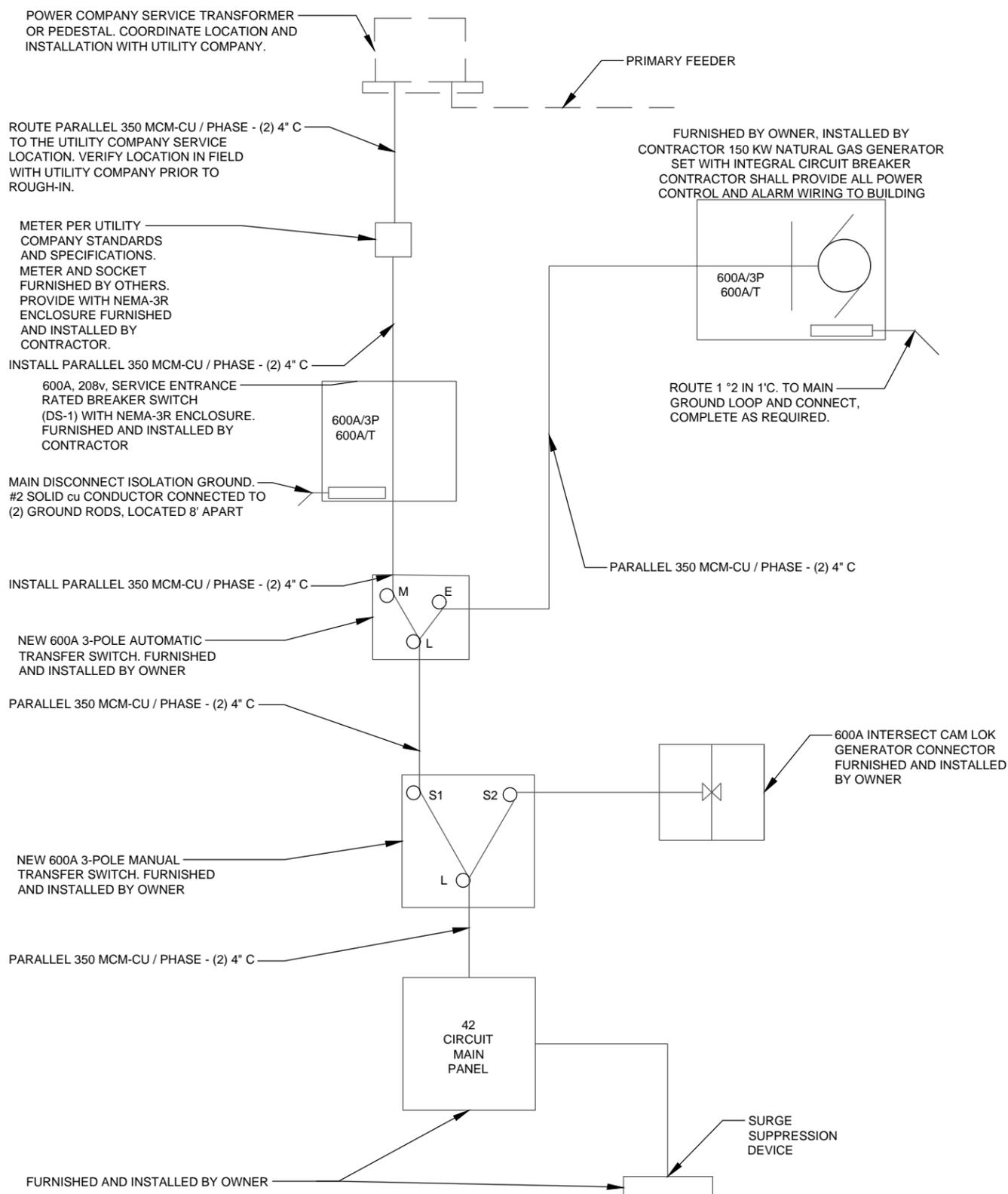
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SITE ADDRESS:
16620 E ALAMEDA PKWY

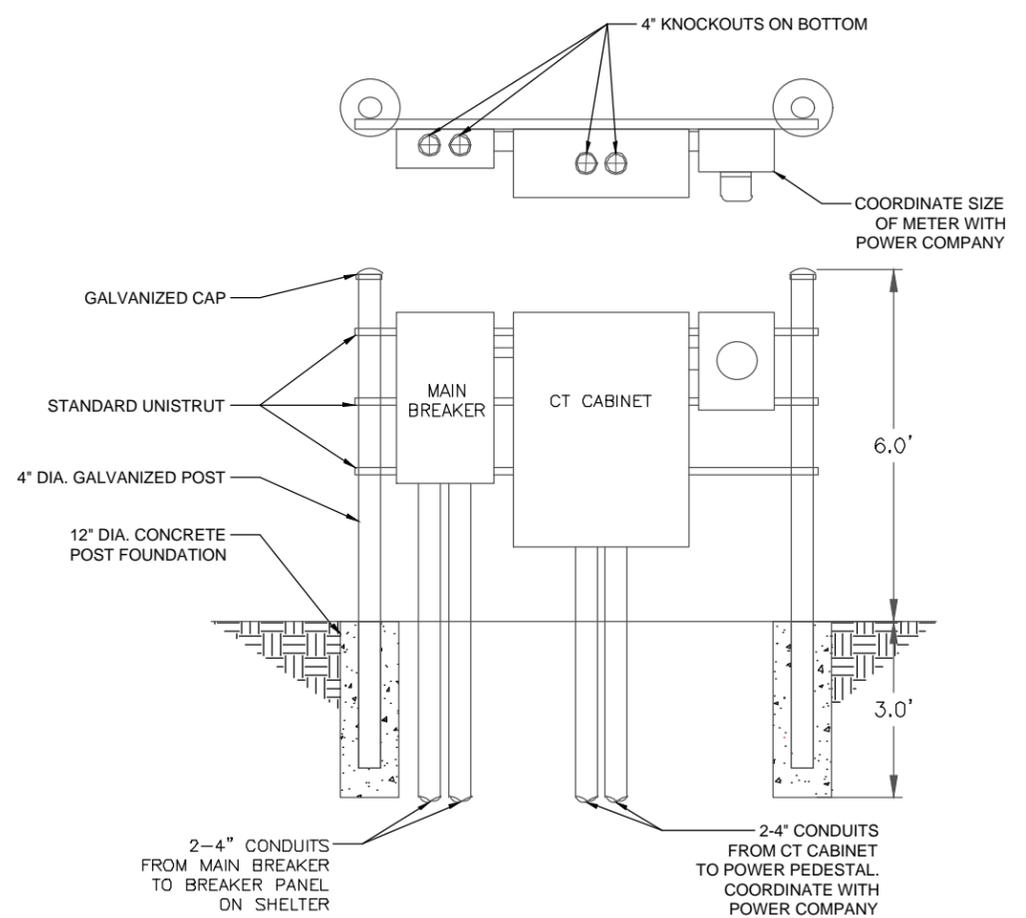
SITE NAME:
AURORA SHELTER

SHEET NAME:
ELECTRICAL PLAN

SHEET NUMBER:
15



E-1 ONE-LINE DIAGRAM
SCALE: N.T.S.



E-2 SERVICE EQUIPMENT RACK
SCALE: N.T.S.

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COMMUNICATIONS
SHELTER
AURORA, CO

DESIGN ENG: LWW

DRAWN BY: SLF

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SUBMITTALS

DATE	DESCRIPTION	REV
3/19/25	PERMITTING	A



LOAD			LOAD PER PHASE (VA)													LOAD										
DESCRIPTION	QTY.	UNIT V.A.	PHASE			WIRE COLOR	LOADS CONTINUOUS	LOADS NON-CONTINUOUS	LOADS SUB-PANEL	WIRE SIZE	GROUNDING WIRE SIZE	TRIP	TRIP	GROUNDING WIRE SIZE	WIRE SIZE	LOADS SUB-PANEL	LOADS NON-CONTINUOUS	LOADS CONTINUOUS	WIRE COLOR	LOAD PER PHASE (VA)			UNIT V.A.	QTY.	DESCRIPTION	
			A	B	C															A	B	C				
HVAC #1 (CONDENSOR/EVAPORATOR)	1	4787	4787			BLK													BLK	4787			4787	1	HVAC #2 (CONDENSOR/EVAPORATOR)	
	1	4787		4787		RED	X		6	10	60	60	10	6					RED		4787		4787	1		
	1	4787			4787		BLU													BLU			4787	1		
HVAC #1 (COMPRESSOR)	1	3168	3168			BLK													BLK	3168			3168	1	HVAC #2 (COMPRESSOR)	
	1	3168		3168		RED	X		10	10	30	30	10	10					RED		3168		3168	1		
	1	3168			3168		BLU													BLU			3168	1		
SPARE						BLK					20	20							BLK				1	SPARE		
INVERTER 1 (TOP)	1	1500		1500		RED	X		12	12	20	20	12	12				X	RED		540		180	3	INTERIOR RECEPTACLE	
INVERTER 2 (BOTTOM)	1	1500			1500	BLU	X		12	12	20	20	12	12				X	BLU			360		180	2	INTERIOR RECEPTACLE
FIRE ALARM PANEL	1	60	60			BLK	X		12	12	20	20	12	12				X	BLK	180			180	1	EXTERIOR RECEPTACLE	
SPARE						RED					20	20							RED					1	SPARE	
SPARE						BLU					20	20							BLU					1	SPARE	
SPARE						BLK					20	20							BLK					1	SPARE	
SPARE						RED					20	20							RED					1	SPARE	
SPARE						BLU					20	20							BLU					1	SPARE	
SPARE						BLK					20	20							BLK					1	SPARE	
SPARE						RED					20	20							RED					1	SPARE	
SPARE						BLU					20	20							BLU					1	SPARE	
SPARE						BLK					20	20							BLK					1	SPARE	
SPARE						RED					20	20							RED					1	SPARE	
SPARE						BLU					20	20							BLU					1	SPARE	
SPARE						BLK					20	20							BLK					1	SPARE	
SPARE						RED					20	20							RED					1	SPARE	
SPARE						BLU					20	20							BLU					1	SPARE	
SUBTOTAL CONTINUOUS			60	1500	1500														180	540	360	SUBTOTAL CONTINUOUS			TOTAL KVA CONTINUOUS x 1.25	5.18
SUBTOTAL NON-CONTINUOUS			7955	7955	7955														7955	7955	7955	SUBTOTAL NON-CONTINUOUS			TOTAL KVA NON-CONTINUOUS	47.73
SUBTOTAL SUB-PANEL			-	-	-														0	0	0	SUBTOTAL SUB-PANEL			TOTAL KVA SUB-PANEL	0.0
PANEL DESIGNATION: 823-02018 (AC PANEL "C" - BOTTOM FEED)																							TOTAL KVA		52.91	
MAIN LUGS: N/A		MAIN BREAKER: 200 AMP (BOTTOM)		MAIN BREAKER A.I.C RATING: 10,000 A.I.C		BRANCH BREAKER A.I.C RATING: 10,000 A.I.C		BOX RATING: NEMA 1															TOTAL KVA		146.97	
VOLTAGE: 120/208V			CYCLE: 60		PHASE: 3		WIRES: 4		MAIN COPPER BUS: 200 AMPS		NEUTRAL: 200 AMPS		SOURCE: -									TOTAL AMPS		146.97		

SCALE: NTS

SITE ADDRESS: 16620 E ALAMEDA PKWY

SITE NAME: AURORA SHELTER

SHEET NAME: PANELBOARD SCHEDULE

SHEET NUMBER: 16D

**ALL ABOVE GROUND
PIPING SHALL BE
BLACK IRON PIPE**

**DO NOT USE
GALVANIZED PIPE**

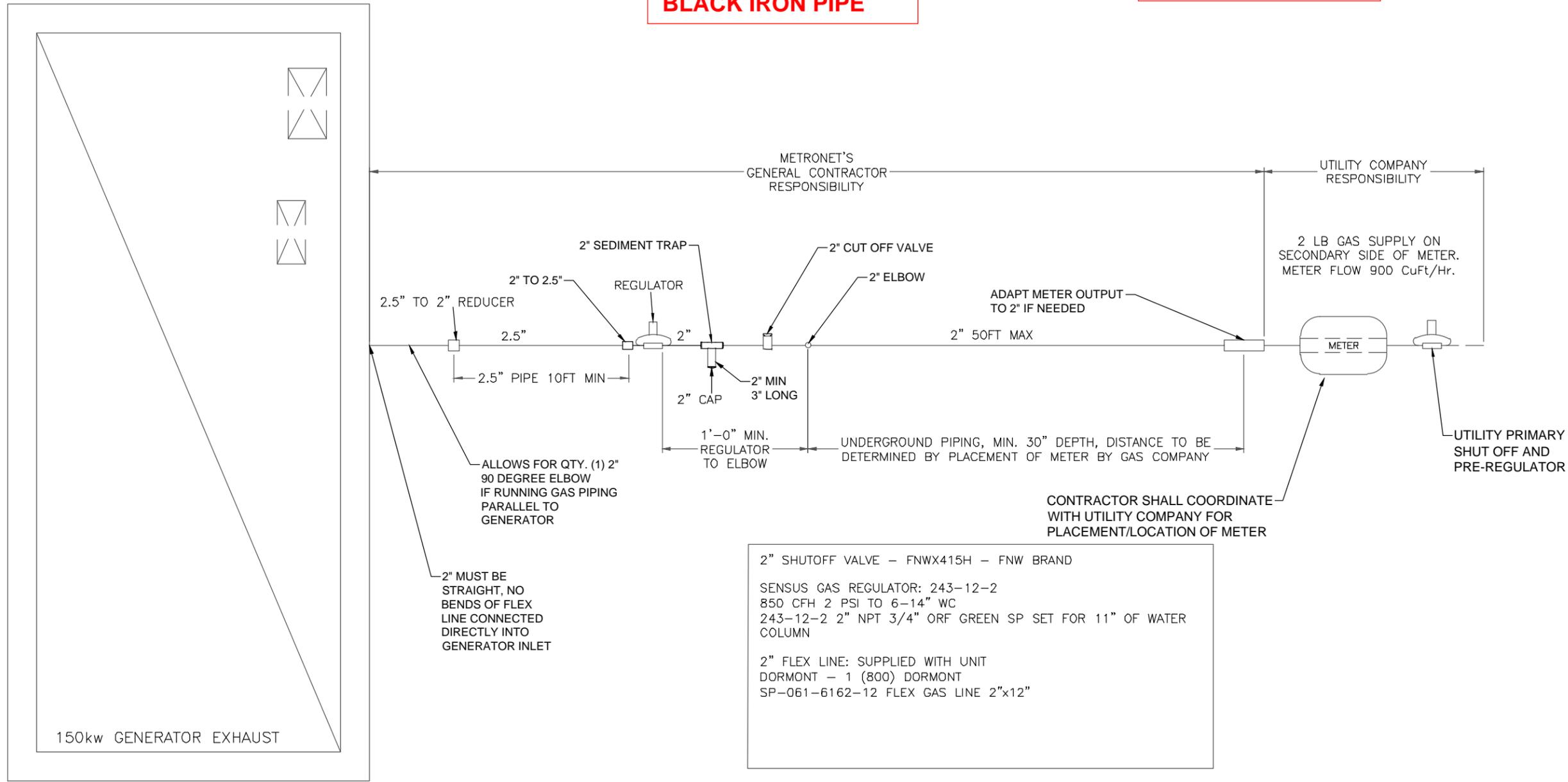
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EVANSVILLE, IN 47715
812-213-1065

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**COMMUNICATIONS
SHELTER
AURORA, CO**

DESIGN ENG: LWW
DRAWN BY: SLF
REVIEWED BY: LWW

SUBMITTALS		
DATE	DESCRIPTION	REV
3/19/25	PERMITTING	A



2" SHUTOFF VALVE - FNWX415H - FNW BRAND
 SENSUS GAS REGULATOR: 243-12-2
 850 CFH 2 PSI TO 6-14" WC
 243-12-2 2" NPT 3/4" ORF GREEN SP SET FOR 11" OF WATER COLUMN
 2" FLEX LINE: SUPPLIED WITH UNIT
 DORMONT - 1 (800) DORMONT
 SP-061-6162-12 FLEX GAS LINE 2"x12"

G-2 GENERATOR GAS CONNECTION
SCALE: N.T.S.

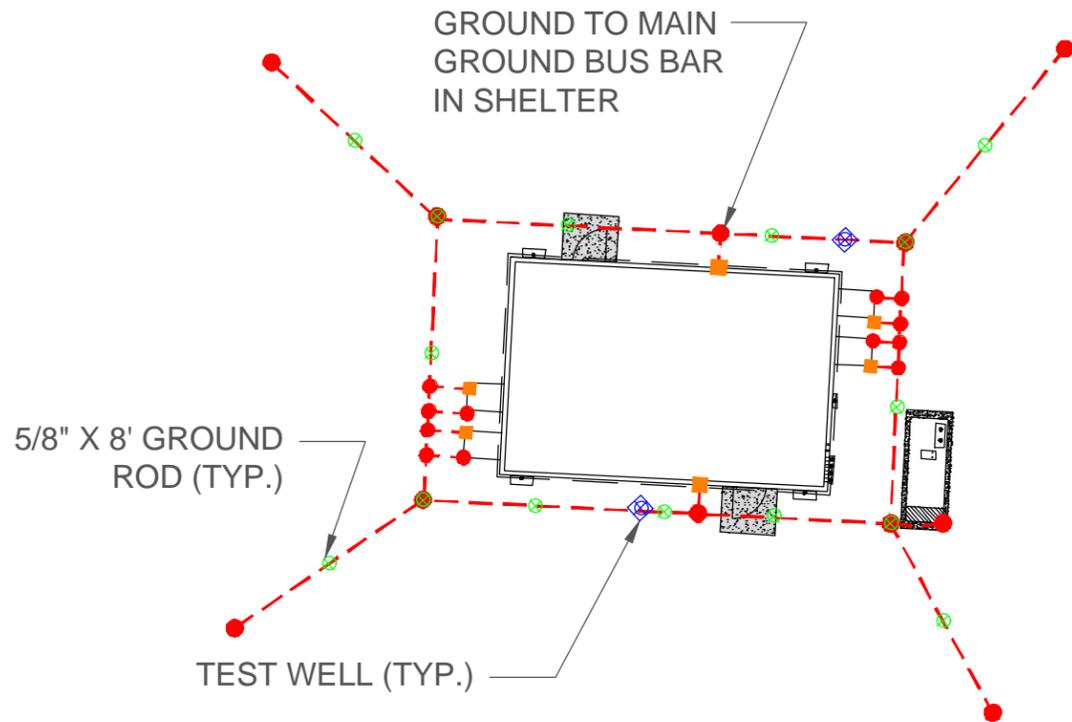
- NOTES:**
- ALL PIPING MUST BE THOROUGHLY CLEANED W/ "PIG" BEFORE INSTALL
 - UTILITY SUPPLY OF PRIMARY MUST MEET SYSTEM REQUIREMENTS
 - ANY DEVIATION FROM APPROVED LAYOUT IS THE RESPONSIBILITY OF INSTALLING CONTRACTOR FOR ACCEPTANCE

SCALE: NTS
 SITE ADDRESS: 16620 E ALAMEDA PKWY
 SITE NAME: AURORA SHELTER
 SHEET NAME: GAS SERVICE PLAN
 SHEET NUMBER: 17

NOTE: ANY SITE WITH PROPOSED CHAIN LINK FENCE, IS REQUIRED TO BE GROUNDED TO THE GROUND RING IN A MINIMUM OF FOUR LOCATIONS (CORNERS OF THE COMPOUND)

GROUNDING LEGEND

- 5/8"x10'-0" COPPER CLAD GROUND ROD WITH INSPECTION WELL (FIELD VERIFY LOCATION WITH MANAGER)
- 5/8"x10'-0" COPPER CLAD GROUND ROD AT 15'-0" MAX. CENTERS
- MECHANICAL CONNECTION
- EXOTHERMIC WELD (CAD WELD)
- #2 SOLID COPPER TINNED WIRE UNLESS NOTED OTHERWISE
- INTERIOR GROUND BAR (OR MASTER GROUND BAR)
- EXTERIOR GROUND BAR
- AIRCRAFT GROUNDING RECEPTACLE (ERICO MODEL LPC681)



GROUNDING PLAN

N.T.S.

LEGEND

- ACG AIR CONDITIONER GROUND: E.C. TO PROVIDE AND INSTALL (1) #2 AWG BARE SOLID TNNND COPPER GROUND WIRE FROM CABINET OF HVAC UNIT TO GROUNDING RING. CONNECTION TO CABINET IS MECHANICAL. CONNECTION TO GROUNDING RING IS CADWELD (TYPICAL OF 2).
- ACCG AIR CONDITIONER CAGE GROUND: E.C. TO FURNISH AND INSTALL (1) #2 BARE SOLID TNNND COPPER GROUND WIRE FROM AIR CONDITIONER CAGE TO GROUND SYSTEM.
- ESG ELECTRICAL SERVICE GROUND: E.C. SHALL FURNISH AND INSTALL #2 AWG BARE SOLID TNNND COPPER GROUND WIRE FROM ELECTRIC SERVICE DISCONNECT TO (1) 5/8" DIA.X10'-0" TNNND COPPER CLAD STEEL GROUND ROD (TOP AT 36" BELOW FINISH GRADE) AND GROUND RING.
- GLG GENERATOR LOUVER GROUND: E.C. TO PROVIDE AND INSTALL (1) #2 AWG SOLID TNNND COPPER GROUND WIRE FROM GENERATOR LOUVER FRAME TO GROUNDING RING. CONNECTION TO LOUVER FRAME IS MECHANICAL. CONNECTION TO GROUNDING RING IS CADWELD.
- GR 5/8" DIA.X8'-0" TNNND COPPER CLAD STEEL GROUND ROD (HARGER 5810) DRIVEN VERTICAL TO 36" BELOW GRADE SPACING OF THE GROUND RODS SHALL BE MAXIMUM 8'. ALL CONNECTIONS TO BE CADWELD.
- HG HALO GROUND: E.C. TO EXTEND SIX (6) SHELTER MFR. SUPPLIED AND INSTALLED #2 AWG BARE SOLID TNNND COPPER GROUND WIRES THROUGH PROVIDED SHELTER PENETRATION TO GROUNDING RING. CONNECTION TO GROUND RING IS CADWELD.
- MGBG MASTER GROUND BAR (MGB) GROUND: E.C. TO EXTEND (2) SHELTER MFR. SUPPLIED AND INSTALLED #2 AWG BARE SOLID TNNND COPPER GROUND WIRES THROUGH PROVIDED SHELTER PENETRATION TO GROUNDING RING. CONNECTION TO GROUND RING IS CADWELD.
- * SHELTER PENETRATION: SEAL BOTH SIDES OF SHELTER PENETRATION WITH SILICONE SEALANT.



TYPE HS
HORIZONTAL CABLE TAP TO HORIZONTAL STEEL SURFACE OR PIPE. CABLE OFF SURFACE.



TYPE GY
THROUGH CABLES TO SIDE OF GROUND ROD.



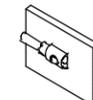
TYPE GR
CABLE TAP TO TOP OF GROUND ROD.



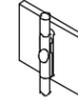
TYPE NC
THROUGH AND TAP CABLES TO GROUND ROD



TYPE VS
CABLE TAP DOWN AT 45° TO VERTICAL STEEL SURFACE OR THE SIDE OF HORIZONTAL OR VERTICAL PIPE.



TYPE VN
HORIZONTAL CABLE TAP TO VERTICAL STEEL SURFACE OR THE SIDE OF HORIZONTAL PIPE.



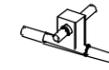
TYPE W
THROUGH VERTICAL CABLE TO VERTICAL STEEL SURFACE OR TO THE SIDE OF EITHER HORIZONTAL OR VERTICAL PIPE.



TYPE TA
TEE OF HORIZONTAL RUN AND TOP CABLES.

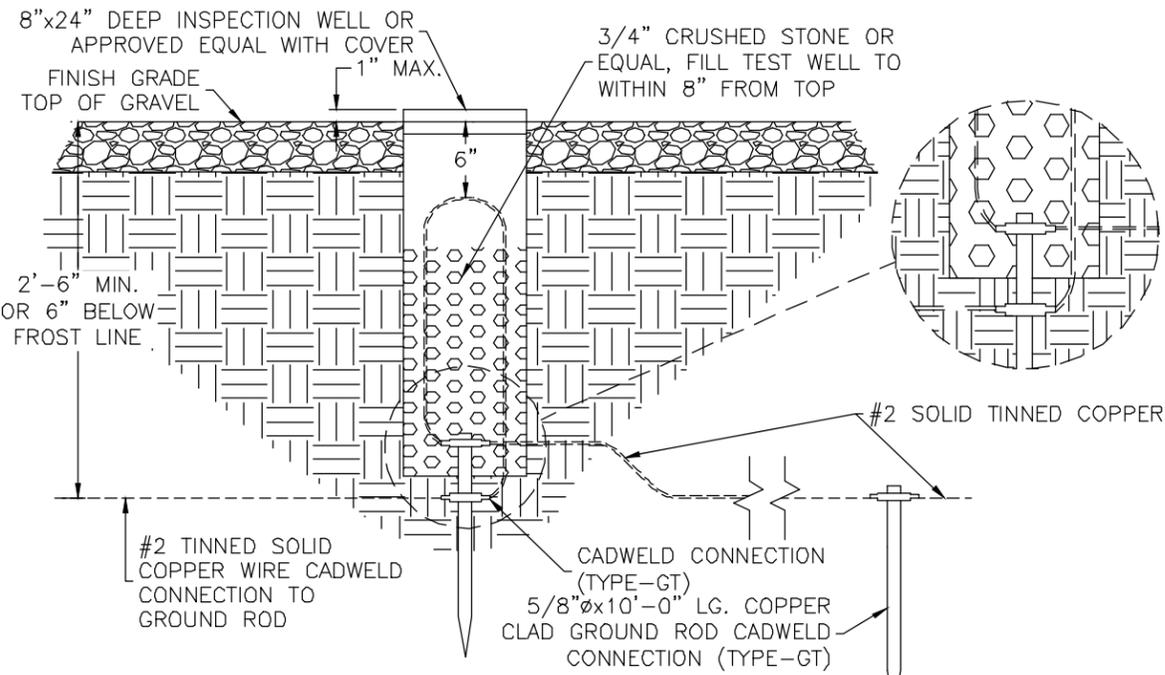


TYPE GT
THROUGH CABLE TO TOP OF GROUND ROD.



TYPE XB
CROSS OF HORIZONTAL CABLES LAPPED AND NOT CUT

GR-1 EXOTHERMIC WELD DETAILS
SCALE: N.T.S.



GR-2 GROUND INSPECTION WELL
SCALE: N.T.S.

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COMMUNICATIONS SHELTER
AURORA, CO

DESIGN ENG: LWW
DRAWN BY: SLF
REVIEWED BY: LWW

SUBMITTALS		
DATE	DESCRIPTION	REV
3/19/25	PERMITTING	A



SCALE: NTS
SITE ADDRESS: 16620 E ALAMEDA PKWY
SITE NAME: AURORA SHELTER
SHEET NAME: GROUNDING PLAN & DETAILS
SHEET NUMBER: 18

Specification sheet

Spark-ignited generator set

125 & 150 kW standby
EPA emissions



Description

Cummins Power Generation generator sets are fully integrated power generation systems providing optimum performance, reliability and versatility for stationary standby applications.

Features

Gas engine - Rugged 6-cylinder Cummins QSJ8.9G spark-ignited engine delivers reliable power. The electronic air/fuel ratio control provides optimum engine performance and fast response to load changes.

Alternator - Several alternator sizes offer selectable motor starting capability with low reactance 2/3 pitch windings, low waveform distortion with non-linear loads and fault clearing short-circuit capability.

Control system - The PowerCommand® 2.3 electronic control is standard equipment and provides total generator set system integration including automatic remote starting/stopping, precise frequency and voltage regulation, alarm and status message display, output metering, auto-shutdown at fault detection and NFPA 110 Level 1 compliance. The PowerCommand® 3.3 control is also available as an option.

Cooling system - Standard cooling package provides reliable running at up to 50° C (122° F) ambient temperature.

Enclosures - The aesthetically appealing enclosure incorporates special designs that deliver one of the quietest generators of its kind. Aluminum material plus durable powder coat paint provides the best anti-corrosion performance. The generator set enclosure has been evaluated to withstand 180 MPH wind loads in accordance with ASCE7-10. The design has hinged doors to provide easy access for service and maintenance.

NFPA - The generator set accepts full rated load in a single step in accordance with NFPA 110 for Level 1 systems.

Warranty and service - Backed by a comprehensive warranty and worldwide distributor and dealer network.

Model	Natural Gas		Propane		Data sheets
	Standby (60 Hz)		Standby (60 Hz)		
	kW	kVA	kW	kVA	60 Hz
C125N6	125	156	125	156	NAD-6303
C150N6	150	188	150	188	NAD-6304

Generator set specifications

Governor regulation class	ISO 8528 Part 1 Class G3*
Voltage regulation, no load to full load	± 1.0%
Random voltage variation	± 1.0%
Frequency regulation	Isochronous
Random frequency variation	± 0.25% @ 60 Hz
Radio frequency emissions compliance	FCC code title 47 part 15 class B

* - with heavy-duty engine air cleaner option installed

Engine specifications

Design	Turbocharged and Aftercooled
Bore	114.1 mm (4.49 in)
Stroke	144.5 mm (5.69 in)
Displacement	8.9 liters (543 in³)
Cylinder block	Cast iron, in-line 6 cylinder
Battery capacity	850 amps at ambient temperature of 0° F to 32° F (-18° C to 0° C)
Battery charging alternator	100 amps
Starting voltage	12-volt, negative ground
Lube oil filter type(s)	Spin-on
Standard cooling system	125 kW - 50° C (122° F) ambient cooling system 150 kW - 45° C (113° F) ambient cooling system
Rated speed	1800 rpm

Alternator specifications

Design	Brushless, 4 pole, drip proof, revolving field
Stator	2/3 pitch
Rotor	Direct coupled, flexible disc
Insulation system	Class H per NEMA MG1-1.65
Standard temperature rise	120° C (248° F) standby
Exciter type	Torque match (shunt) with PMG as option
Alternator cooling	Direct drive centrifugal blower
AC waveform total harmonic distortion	< 5% no load to full linear load, < 3% for any single harmonic
Telephone influence factor (TIF)	< 50 per NEMA MG1-22.43
Telephone harmonic factor (THF)	< 3%

Available voltages

1-phase	3-phase
• 120/240	• 120/208
• 120/240	• 277/480
• 277/480	• 347/600
• 347/600	• 127/220

Generator set options

- Fuel system**
 - Single fuel - natural gas or propane vapor, field selectable
 - Dual fuel - natural gas and propane vapor auto changeover
 - Low fuel gas pressure warning
- Engine**
 - Normal or Heavy-duty engine air cleaner
 - Shut down - low oil pressure
 - Extension - oil drain
 - Engine oil heater
- Alternator**
 - 120° C temperature rise alternator
 - 105° C temperature rise alternator
 - PMG
 - Alternator heater, 120V
 - Reconnectable full 1 phase output alternator
- Control**
 - PC2.3 with AmpSentry
 - PC3.3 with Paralleling
 - AC output analog meters
 - Stop switch - emergency
 - Auxiliary output relays (2)
 - Auxiliary configurable signal inputs (8) and relay outputs (8)
- Electrical**
 - One, two or three circuit breaker configurations
 - 80% rated circuit breakers
 - 100% rated LSI circuit breakers
- Enclosure**
 - Aluminum enclosures with muffler installed - green color
 - Weather
 - Sound Level 1
 - Sound Level 2
- Cooling system**
 - Shutdown - low coolant level
 - Warning - low coolant level
 - Extension - coolant drain
 - Coolant heater options:
 - < 4° C (40° F) - Cold weather
 - < -17° C (0° F) - Extreme cold
- Exhaust system**
 - Exhaust connector NPT
 - Exhaust muffler mounted
- Generator set application**
 - Base barrier - elevated genset
 - Battery rack, single or dual battery
 - Radiator outlet duct adapter
- Warranty**
 - Base warranty - 2 year / 1000 hours, standby
 - 3-year standby warranty options
 - 5-year standby warranty options

Generator set accessories

- Coolant heaters - 1000W / 1500W
- Battery rack, single or dual battery
- Battery heater kit
- Engine oil heater
- Remote control displays
- Auxiliary output relays (2)
- Auxiliary configurable signal inputs (8) and relay outputs (8)
- Annunciator - RS485
- Remote monitoring device - PowerCommand 500/550
- Battery charger - stand-alone, 12V
- Circuit breakers
- Enclosure Sound Level 1 to Sound Level 2 upgrade kit
- Base barrier - elevated generator set
- Mufflers - industrial, residential, or critical
- Alternator PMG
- Alternator heater

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COMMUNICATIONS
SHELTER
AURORA, CO

DESIGN ENG: LWW

DRAWN BY: SLF

REVIEWED BY: LWW

SUBMITTALS

DATE	DESCRIPTION	REV
3/19/25	PERMITTING	A



SCALE: NTS

SITE ADDRESS:
16620 E ALAMEDA PKWY

SITE NAME:
AURORA SHELTER

SHEET NAME:
GENERATOR DETAILS

SHEET NUMBER:

19

Alternator data

Standard alternators	Single phase table	Three phase table					Full single phase output, reconnectable
Maximum temperature rise above 40° C ambient	120° C	120° C	120° C	120° C	120° C	120° C	120° C
Feature code	BB88-2	B986-2	B946-2	B943-2	B952-2	BB86-2	BB88-2
Alternator data sheet number	ADS-212	ADS-210	ADS-210	ADS-209	ADS-209	ADS-209	ADS-212
Voltage ranges	120/240	120/240	120/208	277/480	347/600	127/220	120 - 480
Voltage feature code	R104-2	R106-2	R098-2	R002-2	R114-2	R020-2	Varies by voltage
Surge kW	152	156	156	156	156	156	Varies by voltage
Full load current amps at standby rating	625	452	521	226	181	493	Varies by voltage

Optional alternators for improved starting capability	Single phase table	Three phase table					Full single phase output, reconnectable
Maximum temperature rise above 40° C ambient	105° C	105° C	105° C	105° C	105° C	105° C	105° C
Feature code	BB87-2	BB94-2	BB93-2	BB95-2	BB92-2	BB85-2	BB87-2
Alternator data sheet number	ADS-212	ADS-210	ADS-210	ADS-209	ADS-209	ADS-210	ADS-212
Voltage ranges	120/240	120/240	120/208	277/480	347/600	127/220	120 - 480
Voltage feature code	R104-2	R106-2	R098-2	R002-2	R114-2	R020-2	Varies by voltage
Surge kW	153	157	156	157	157	156	Varies by voltage
Full load current amps at standby rating	625	452	521	226	181	493	Varies by voltage

Formulas for calculating full load currents:

Three phase output

$$\frac{\text{kW} \times 1000}{\text{Voltage} \times 1.73 \times 0.8}$$

Single phase output

$$\frac{\text{kW} \times \text{SinglePhaseFactor} \times 1000}{\text{Voltage}}$$

Warning: Back feed to a utility system can cause electrocution and/or property damage. Do not connect to any buildings electrical system except through an approved device or after building main switch is open.

North America
1400 73rd Avenue N.E.
Minneapolis, MN 55432
USA

Phone 763 574 5000
Fax 763 574 5298

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COMMUNICATIONS
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AURORA, CO

DESIGN ENG: LWW

DRAWN BY: SLF

REVIEWED BY: LWW

SUBMITTALS		
DATE	DESCRIPTION	REV
3/19/25	PERMITTING	A

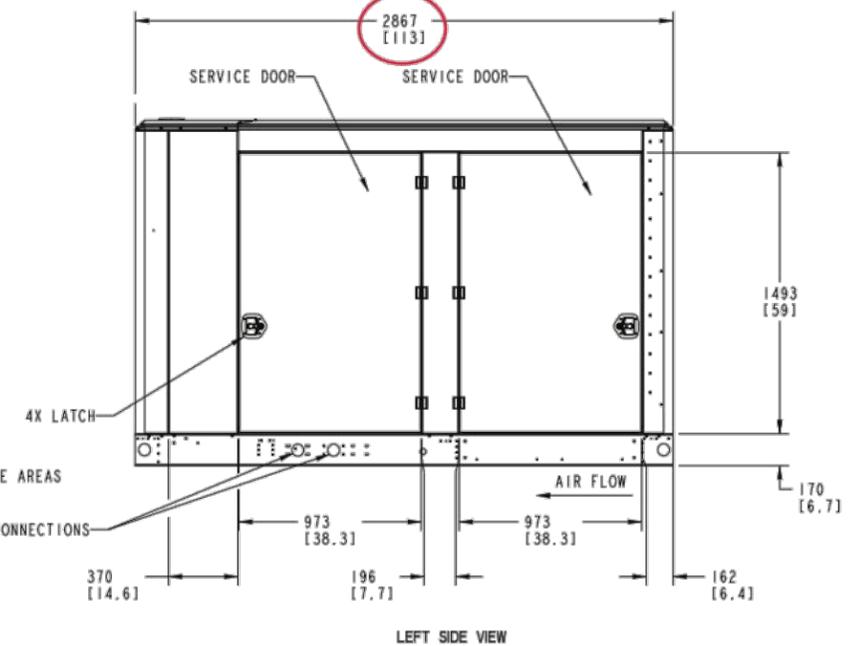
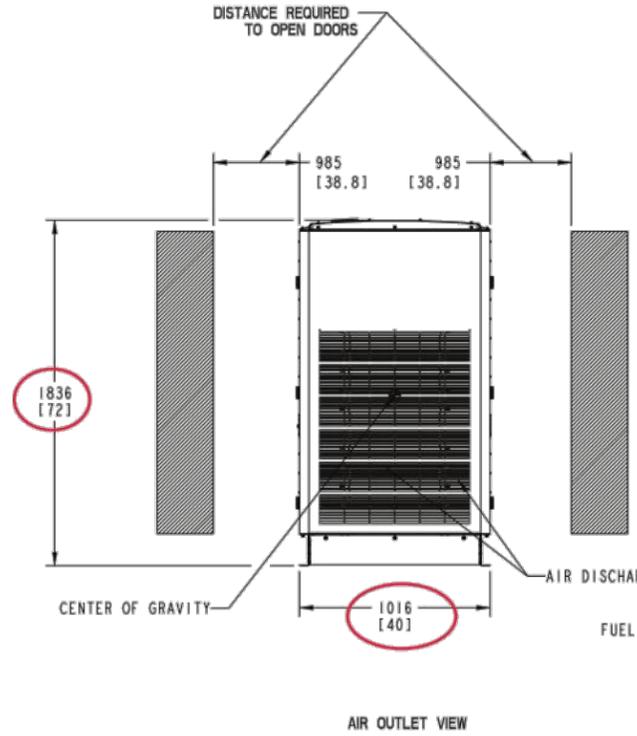
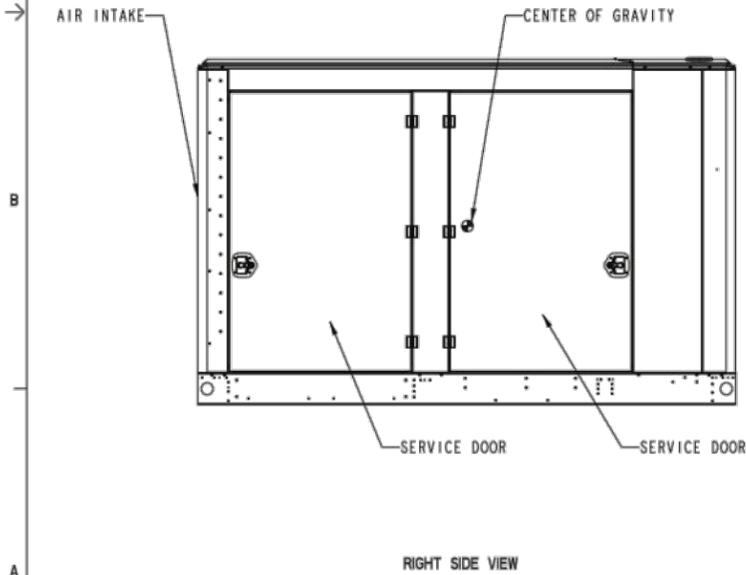
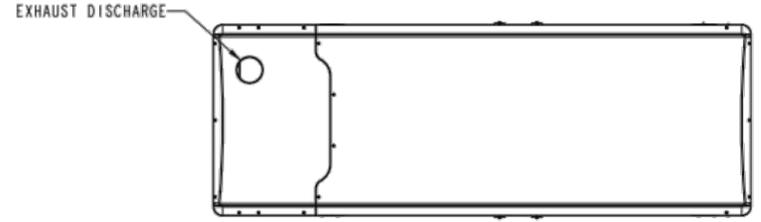
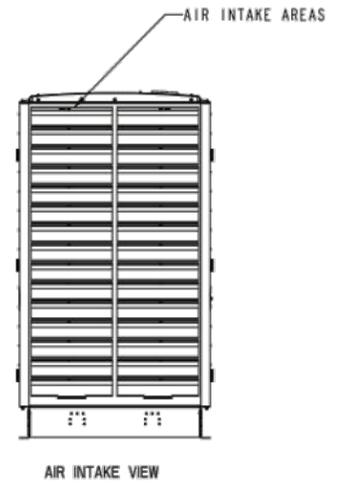


SCALE:	NTS
SITE ADDRESS:	16620 E ALAMEDA PKWY
SITE NAME:	AURORA SHELTER
SHEET NAME:	GENERATOR DETAILS
SHEET NUMBER:	21

REL NO	REV	NO	REVISION	ENR	CHK	APPV	DATE
ECO-164828	A	1	PRODUCTION RELEASE	YN	NK	A.CHINTHURI	30SEP16

add this weight to the open unit weight for overall shipping weight.
Use this drawing for overall shipping dimensions.

- NOTES:
- DIM [] IN INCHES
 - WITH THIS HOUSING INSTALLED ON AN OPEN GENERATOR SET, THE TOTAL WEIGHT WILL INCREASE BY 148 KG (326 LBS). THIS INCLUDES THE MUFFLER.
 - THE CENTER OF GRAVITY OF THE GENERATOR SET WHEN EQUIPPED WITH THIS HOUSING SHIFTS APPROXIMATELY 7MM (0.27 INCH) TOWARDS THE AIR DISCHARGE END OF THE HOUSING AND 43MM (1.69 INCH) HIGHER FROM THE GROUND, COMPARED TO THE EQUIVALENT NON-HOUSED PRODUCT WITH THE F179 SKID. SEE HOUSING READY SKID BASE OUTLINE DRAWING FOR CG LOCATION OF NON HOUSED PRODUCT.



F216-2 ENCLOSURE CONFIGURATION

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS		ENR TO A051P453	ENR Y. NICHIT	CUMMINS POWER GENERATION
DO NOT SCALE PRINT		CHK N. KASIBHOTLA	APPV A. CHINTHURI	
ANG TOL	SCALE	DATE	DATE	SITE CODE
± 1.0°	1/15	20SEP16	20SEP16	PGF

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COMMUNICATIONS
SHELTER
AURORA, CO

DESIGN ENG: LWW
DRAWN BY: SLF
REVIEWED BY: LWW

SUBMITTALS		
DATE	DESCRIPTION	REV
3/19/25	PERMITTING	A



SCALE: NTS

SITE ADDRESS:
16620 E ALAMEDA PKWY

SITE NAME:
AURORA SHELTER

SHEET NAME:
GENERATOR DETAILS

SHEET NUMBER:
21

Drawing Name: A055V239 Revision: A
Part Name: A055V238 Revision: A
ECO-164828 Sheet 1 of 2



Sound Data
C150N6
QSJ8.9G 60Hz

Sound Pressure Level @ 7 meters, dB(A)

See notes 1-6 listed below

Configuration	Exhaust System	Position (Note 1)								8 Position Average
		1	2	3	4	5	6	7	8	
Standard – Unhoused	Infinite Exhaust	79.5	82.2	82.6	83.9	79.3	82.6	82.5	81.7	82.0
F216-2 Weather Protective Aluminium	Mounted	82.0	80.6	76.2	81.0	79.2	85.4	79.4	82.8	81.6
F231-2 Sound Attenuated Level 1, Aluminium	Mounted	81.1	76.3	71.9	72.8	72.2	73.0	71.5	76.1	75.7
F217-2 Sound Attenuated Level 2, Aluminium	Mounted	72.8	72.5	69.3	71.5	70.9	71.3	69.4	71.8	71.3

Sound Power Level, dB(A)

See notes 2-4, 7 and 8 listed below

Configuration	Exhaust System	Octave Band Center Frequency (Hz)										Overall Sound Power Level
		31.5	63	125	250	500	1000	2000	4000	8000	16000	
Standard – Unhoused	Infinite Exhaust	59.0	73.8	86.0	94.7	103.0	103.9	104.3	103.0	100.1	89.5	110.2
F216-2 Weather Protective Aluminium	Mounted	63.2	83.3	92.1	99.5	103.7	103.7	104.0	103.9	96.5	81.9	110.5
F231-2 Sound Attenuated Level 1, Aluminium	Mounted	62.2	77.2	87.2	92.4	96.2	97.0	96.5	94.3	96.7	80.0	103.7
F217-2 Sound Attenuated Level 2, Aluminium	Mounted	62.6	76.4	86.3	90.2	93.1	92.1	90.6	88.8	89.2	75.3	99.0

Exhaust Sound Power Level, dB(A)

See notes 2 & 9 listed below

Open Exhaust (No Muffler) @ Rated Load	Octave Band Center Frequency (Hz)										Overall Sound Power Level
	31.5	63	125	250	500	1000	2000	4000	8000	16000	
	56.0	89.6	97.4	101.2	108.2	110.5	113.0	115.7	114.4	105.8	120.3

Note:

- Position 1 faces the Generator front per ISO 8528-10. The positions proceed around the generator set in a counter-clockwise direction in 45° increments. All positions are at 7m (23 ft) from the surface of the generator set and 1.2 m (48 inches) from floor level.
- Sound levels are subject to instrumentation, measurement, installation and manufacturing variability.
- Data based on full rated load.
- Sound data for generator set with infinite exhaust do not include exhaust noise.
- Sound Pressure Levels are measured per ANSI S1.13 and ANSI S12.18, as applicable.
- Reference sound pressure is 20 µPa.
- Sound Power Levels per ISO 3744 and ISO 8528-10, as applicable.
- Reference power – 1 pW (10⁻¹² W)
- Exhaust Sound Power Levels are per ISO 6798, as applicable.

Cummins Inc.

Data and specification subject to change without notice

MSP-3059b
 (02/19)
 Page 34 of 66

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COMMUNICATIONS
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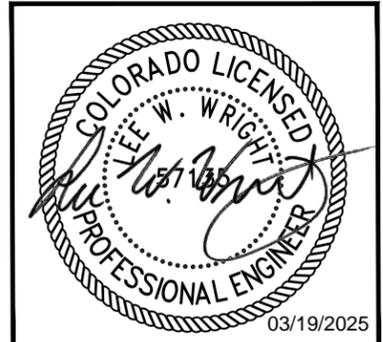
DESIGN ENG: LWW

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SITE ADDRESS:
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 GENERATOR DETAILS

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21