STAFF SUMMARY
JUNE 3rd, 2020 PLANNING AND ZONING COMMISSION
REGULAR MEETING

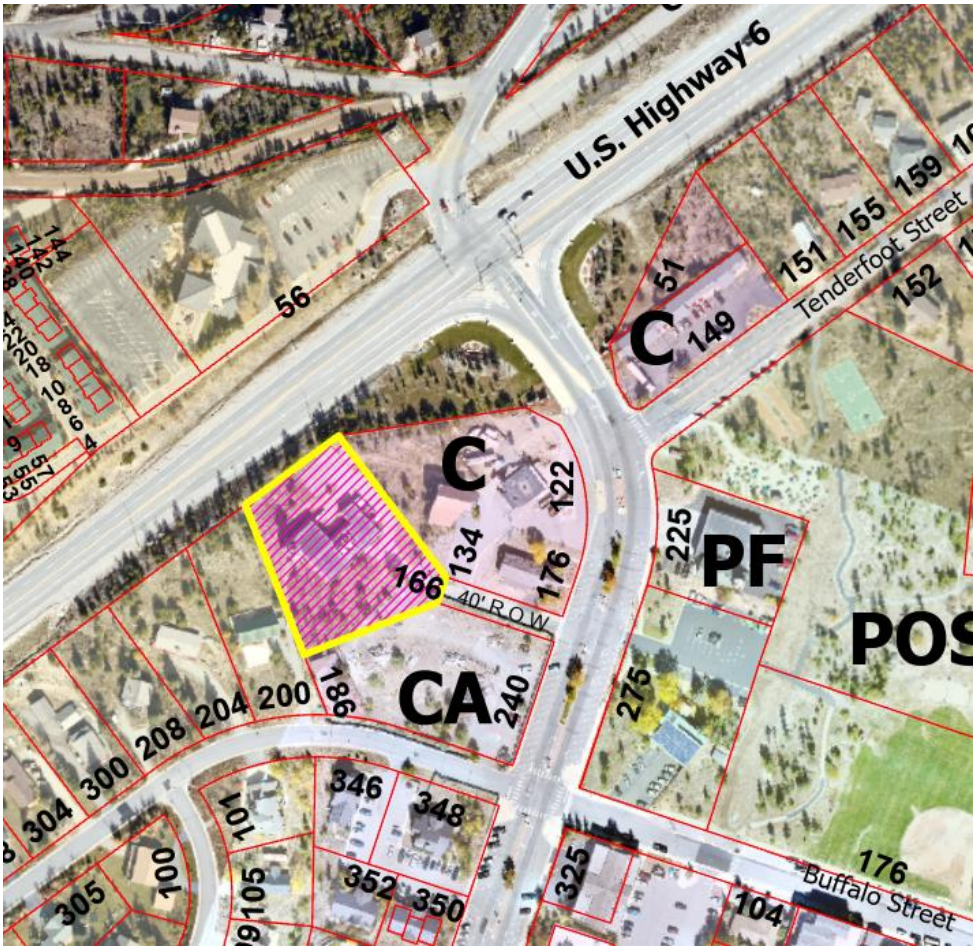
DATE: May 28, 2020

AGENDA ITEM NUMBER: 5

ACTION TO BE CONSIDERED: Consideration of Resolution No. PZ 06-20, Series of 2020:
A RESOLUTION APPROVING A LEVEL III DEVELOPMENT APPLICATION FOR AN ACCESSORY STRUCTURE ON A COMMERCIALY ZONED PROPERTY AT 166 LAKE DILLON DRIVE.

(PUBLIC HEARING)

TOPIC: An Accessory Structure greater than 200 square feet and those sited on a non-residential property require a Level III Development Permit Application and review and approval by the Planning and Zoning Commission in a Public Hearing.



Site Vicinity and Zoning of the CenturyLink building at 166 Lake Dillon Drive

BACKGROUND/TIME FRAME:

- March 27, 2020: Preliminary Submittal
- April 28, 2020: Application for Level III Development Permit and Request for Public Hearing by Electronic Participation
- May 6, 2020: Submittal of Color Palette
- May 28, 2020: Submittal of revised drawings
- June 3, 2020: Public Hearing of Level III Development Permit Application

EXECUTIVE SUMMARY:

The Applicant:
CenturyLink has submitted an application for a Level III Development Permit application for an accessory structure larger than 200 square feet on a commercially zoned property. The accessory structure will provide protected parking for three CenturyLink vehicles: two trucks with man-lifts and a snow cat. A six (6) foot privacy fence is also proposed to contribute to screening the development.

Review process & Public Hearing Notice:
Level III Applications require a public hearing before the Planning and Zoning Commission. Town staff advertised the public hearing in the legal section of newspaper in general circulation in Summit County, posted the site and public notification locations, and sent out a mailing to property owners within three-hundred feet (300') of the property. The Code requires notification of public hearings not more than fourteen (14) days and not less than seven (7) days prior to the hearing date and the notifications met these dates.

Decision:
If the proposed development is in compliance with Town Code and Town goals and policies, the Planning and Zoning Commission may approve the application. In addition, the Planning and Zoning Commission may attach conditions which are reasonable and necessary and relate to impacts created by the proposal.

If the proposed development is not in compliance with Town Code and Town goals and policies, the Planning and Zoning Commission may deny the application.

The Planning and Zoning Commission may also continue the hearing for up to thirty-five (35) calendar days for good cause, or to allow additional information and materials to be submitted that will allow for a comprehensive review. In no event may the Planning and Zoning Commission continue a hearing for more than thirty-five (35) days unless agreed to in writing by the applicant. In the event a hearing is continued, the applicant shall submit any additional materials he or she wishes the Town to consider at least ten (10) days prior to the continued hearing, unless otherwise specified by the Town.

Deferral to Town Council. Depending on the nature of the application, the Planning and Zoning Commission may have the option to defer the application to Town Council for their review and action.

Zoning Provisions:
The Dillon Municipal Code ("Code") requires a Level III Development Permit application for an accessory structure greater than two hundred (200) square feet in a non-residential zoned area. The subject lot (Lot 2, Block B, New Town of Dillon Subdivision) is located in the Commercial zone district.

Required yards in the zone are as follow:

a. Front yards and street side yards shall be a minimum of twenty-five (25) feet.

b. Yards abutting a residential zone shall be twenty-five (25) feet.

c. Side yards shall be ten (10) feet.

d. Rear yards shall be twenty (20) feet.

Building Height: 40' in the Commercial zone district

Architectural Compatibility and Design Guidelines: Accessory structures should be architecturally compatible and "harmonious" with primary structures. Natural Earthtone colors are preferred. The Code states that 'Building materials *should* be predominantly natural, such as wood siding, shingles, native stone and brick." Other materials may be considered, especially when contributing to harmony with the primary structure, the use of the accessory structure, and considering the specifics of a particular application.

Existing Structure:
The existing building on site is an industrial appearing building without windows. The building has vertical features on the siding that provide it with dominant 'texture' when viewed from a distance.

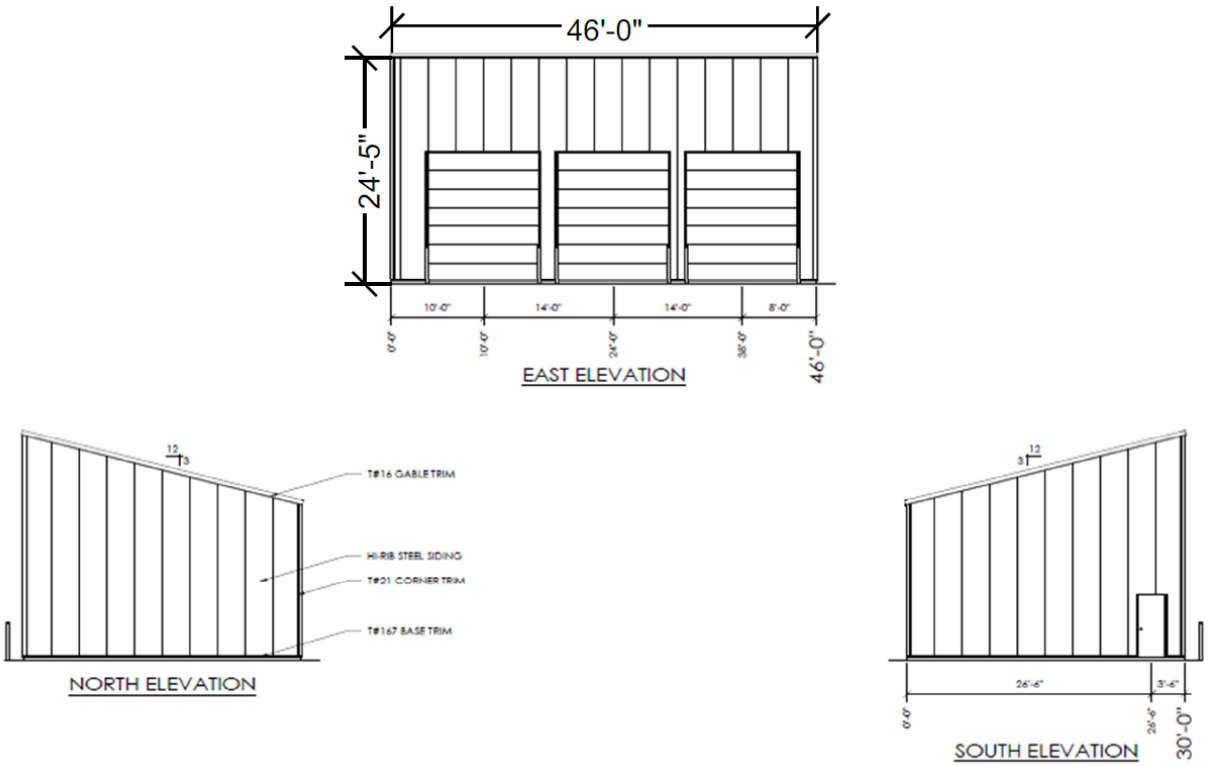
The existing CenturyLink building as seen from the US Highway 6

The existing CenturyLink building as seen from the 40' Right-of-way

The existing CenturyLink building and the proposed accessory structure location

Application Summary:
The proposed accessory structure is a wood frame building with painted steel vertical seem siding panels, painted steel trim and painted steel roof materials. It has three garage doors and a roof that sheds away from the door openings. The equipment to be parked in the structure includes two trucks

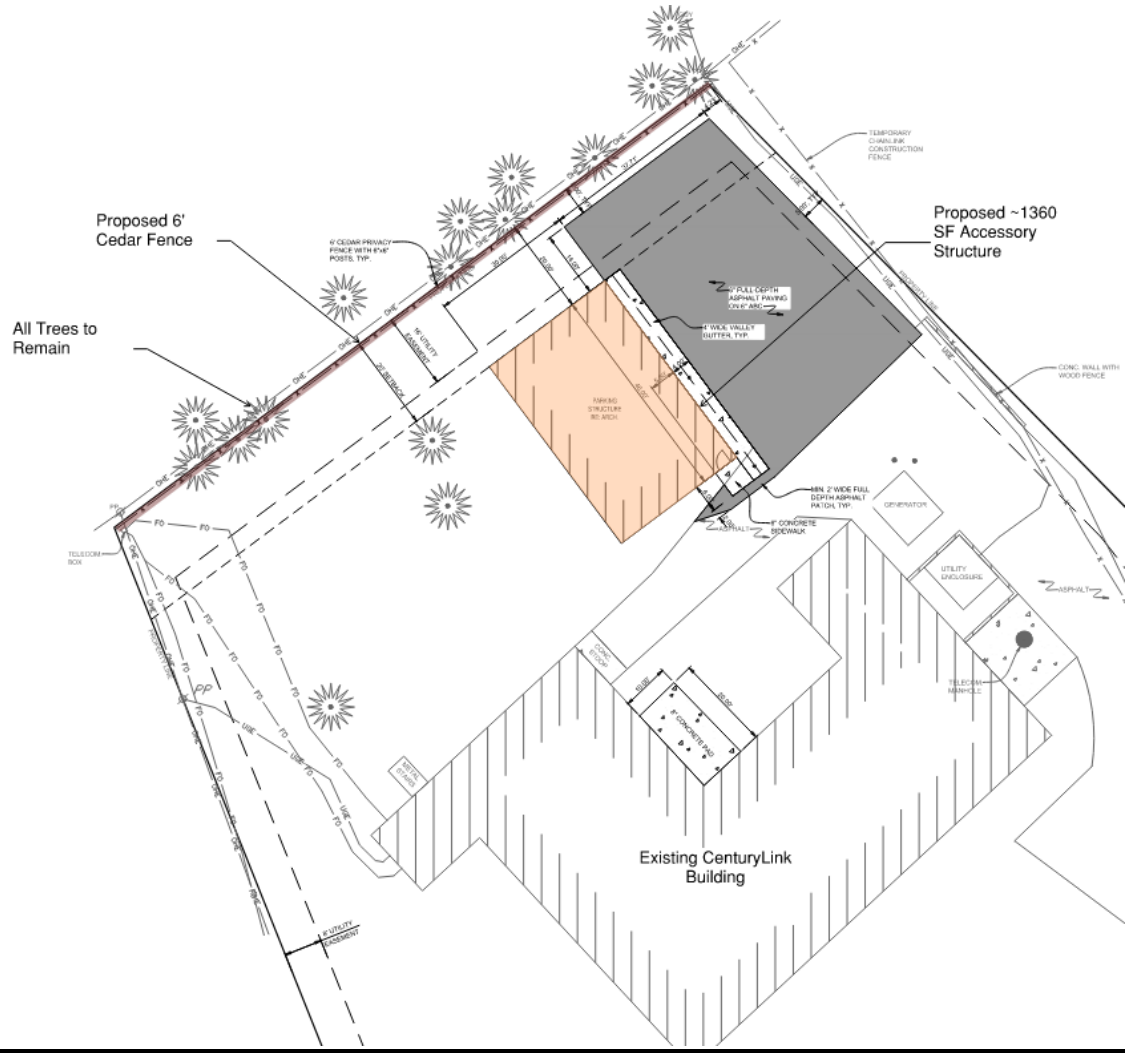
with booms or lifts and a snow cat. CenturyLink needs the equipment to be parked inside a protective structure such that they can immediately respond to customer needs and outages. The trucks have a parked height of 10’-11” and could be higher depending on how configured.



Proposed Accessory Structure

The accessory structure meets the 20’ rear yard setback and maximum building height of the commercial zone district and is architecturally compatible with the existing improvements on the site. The vertical siding has a similar texture as the primary structure and has an Earthtone color similar to the primary structure.

Natural Earthtone Colors: Beige building material and Brown trim and doors.



The existing CenturyLink building and the proposed accessory structure and fence

Applicant prepared perspective view of the proposed improvements on the site overlaid on a photograph taken from westbound US Highway 6. NOTE: the fence will actually be behind the trees, all of which are to remain.

The Applicant believes the following about their application:

- The proposed accessory structure is architecturally compatible with the primary structure on the site. The site is industrial in nature and the proposed accessory structure is fitting with the character of the site as developed.

- The proposed accessory structure is vital to them in providing timely emergency and customer response for the communications services they provide.

- The building height is dictated by the height of the vehicles needing to park inside the accessory structure and the need for the roof to effectively shed snow.

- The proposed privacy fence and existing vegetation provide substantial screening for the project and only a portion of the building will be visible from US Highway 6. The existing trees along the US Highway 6 property line are to be preserved.

BUDGET IMPACT: None

MOTION FOR APPROVAL:

I move we approve Resolution no. PZ 06-20, Series of 2020.

ACTION REQUESTED:
MOTION, SECOND, ROLL-CALL VOTE

Resolutions require affirmative votes from majority of the members present

STAFF MEMBER RESPONSIBLE:
Ned West, Town Planner

CENTURYLINK DILLON

166 LAKE DILLON DRIVE
DILLON, CO

LEGEND

- AREA TO BE DEMOLISHED
- FENCE TO BE REMOVED
- ASPHALT PAVEMENT
- CONCRETE
- 9110 — TOPO. CONTOUR
- X — 6' CEDAR PRIVACY FENCE
- 14.89 — SPOT ELEVATION
- ME — SPOT ELEV. - MATCH EXISTING
- 2.0% — FLOW ARROW
- FLOW LINE
- LOC — LIMITS OF CONSTRUCTION
- SF — SILT FENCE
- CWA — CONCRETE WASHOUT AREA
- SSA — STABILIZED STAGING AREA
- VTC — VEHICLE TRACKING CONTROL

EXISTING LEGEND

- PROPERTY LINE
- ASPHALT PAVEMENT
- CONCRETE
- EASEMENT
- 9110 — TOPO. CONTOUR
- PP — POWER POLE
- X — TEMP. CONST. FENCE
- DEGRADED BARBWIRE FENCE
- OHE — OVERHEAD ELECTRIC LINE
- UGE — UNDERGROUND ELEC. LINE
- FO — FIBER OPTIC LINE
- BOLLARD
- MANHOLE
- SCREEN WALL
- CONIFEROUS TREE

CIVIL DRAWING INDEX:

GRADING AND EROSION CONTROL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND IMPLEMENTING AND MAINTAINING EROSION AND SEDIMENT CONTROL MEASURES AT ALL TIMES DURING CONSTRUCTION TO PREVENT DAMAGING FLOWS ON THE SITE AND IN THE WATERSHED BELOW THE SITE. CONTROL SYSTEMS SHALL BE INSTALLED PRIOR TO START OF CONSTRUCTION. CONTROL SYSTEMS SHALL INCLUDE GRAVEL BAG ROCK SOCKS, SILT FENCES AND INLET PROTECTION DEVICES.

2. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL DUST ABATEMENT AND EROSION CONTROL MEASURES AS SPECIFIED BY THE SWMP.

3. THE CONTRACTOR SHALL PREVENT SEDIMENT, DEBRIS AND ALL OTHER POLLUTANTS FROM LEAVING THE SITE DURING ALL DEMOLITION, EXCAVATION, TRENCHING, GRADING OR OTHER CONSTRUCTION OPERATIONS THAT ARE PART OF THIS PROJECT. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR REMEDIATION OF ANY ADVERSE IMPACTS TO ADJACENT WATERWAYS, WETLANDS, ETC., RESULTING FROM WORK DONE AS PART OF THIS PROJECT.

4. THE CONTRACTOR SHALL INSURE THAT ALL LOADS OF CUT AND FILL MATERIAL IMPORTED TO OR EXPORTED FROM THE SITE SHALL BE PROPERLY COVERED TO PREVENT LOSS OF THE MATERIAL DURING TRANSPORT ON PUBLIC ROADS.

5. APPROVED EROSION AND SEDIMENT CONTROL "BEST MANAGEMENT PRACTICES" (BMP'S) SHALL BE MAINTAINED AND KEPT IN GOOD REPAIR FOR THE DURATION OF THE PROJECT. AT A MINIMUM, THE CONTRACTOR OR HIS SWMP ADMINISTRATOR SHALL INSPECT ALL BMPS WEEKLY AND AFTER SIGNIFICANT PRECIPITATION EVENTS. ALL NECESSARY MAINTENANCE AND REPAIRS SHALL BE COMPLETED WITHIN 48 HOURS OF DISCOVERY. ACCUMULATED SEDIMENT AND DEBRIS SHALL BE REMOVED FROM A BMP WHEN THE SEDIMENT LEVEL REACHES ONE HALF THE HEIGHT OF THE BMP OR, AT ANY TIME THAT SEDIMENT OF DEBRIS ADVERSELY IMPACT THE FUNCTIONING OF THE BMP.

6. THE CONTRACTOR SHALL PROTECT ALL STORM SEWER FACILITIES ADJACENT TO ANY LOCATION WHERE PAVEMENT SAW CUTTING OPERATIONS ARE TO TAKE PLACE. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL WASTE PRODUCTS GENERATED BY THE CUTTING OPERATIONS ON A DAILY BASIS. THE DISCHARGE OF ANY WATER CONTAMINATED BY WASTE PRODUCTS FROM CUTTING OPERATIONS TO THE DRAINAGE SYSTEM IS PROHIBITED.

7. PAVED SURFACES ADJACENT TO THE SITE SHALL BE SWEPT IN A TIMELY MANNER WHEN SEDIMENT AND OTHER MATERIALS ARE TRACKED OR DISCHARGED ONTO THEM. EITHER SWEEPING BY HAND OR USE OF STREET SWEEPERS IS ACCEPTABLE. STREET SWEEPERS USING WATER WHILE SWEEPING IS PREFERRED TO MINIMIZE DUST. FLUSHING OFF PAVED SURFACES WITH WATER IS PROHIBITED.

8. EROSION/SEDIMENT CONTROL DEVICES PER SWMP PLANS SHALL BE PLACED AS CONSTRUCTION SEQUENCING AND ACCESS DICTATES.

CIVIL GENERAL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING LINE AND GRADE, IN CONFORMANCE WITH THE INFORMATION SHOWN ON THE PLANS, FOR ALL FACILITIES TO BE CONSTRUCTED AS PART OF THE SCOPE OF THIS PROJECT. THIS INCLUDES RESTORING TO THEIR ORIGINAL LINE AND GRADE ALL SITE IMPROVEMENTS THAT ARE REMOVED AND REPLACED AS PART OF THIS PROJECT. THE ENGINEER OR OWNER MAY, FROM TIME TO TIME, CHECK THE LINE AND GRADE OF COMPLETED SECTIONS OF THE WORK OR SECTION OF THE WORK IN PROGRESS. THIS, HOWEVER, IN NO WAY RELIEVES THE CONTRACTOR OF HIS RESPONSIBILITY IN ESTABLISHING THE LINE AND GRADE OF THE WORK IN CONFORMANCE WITH THE PLANS.
2. EXISTING INFORMATION SHOWN ON THE DRAWINGS HAS BEEN TAKEN FROM OWNER FURNISHED DRAWINGS AND LIMITED FIELD OBSERVATIONS. ANDERSON & HASTINGS CONSULTANTS, INC. IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY OWNER-PROVIDED INFORMATION OR THE ADEQUACY, SAFETY AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THESE DRAWINGS.
3. EXISTING UTILITIES SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE ENGINEER. PRIOR TO EXCAVATING, THE CONTRACTOR SHALL FIELD LOCATE (INCLUDING DEPTHS) BY POTHOLING ALL EXISTING UTILITIES WHICH MAY CONFLICT WITH THE PROPOSED CONSTRUCTION. FIBER OPTIC AND BURIED PHONE LINES SHALL BE EXPOSED BY AIR POTHOLING. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE REPAIR OF DAMAGE TO UTILITIES SHOWN HEREON AT HIS OWN EXPENSE.
4. WHEN THE CONTRACTOR DISCOVERS ANY CONFLICT BETWEEN THE DESIGN LOCATION OF WORK UNDER THIS CONTRACT AND AN EXISTING UTILITY HE SHALL NOTIFY THE OWNER AND THE ENGINEER IMMEDIATELY.
5. IF THE CONTRACTOR ENCOUNTERS ANY UNDOCUMENTED LINES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND NOTIFY THE ENGINEER SO THAT ANY CONFLICTS CAN BE MITIGATED.
6. ALL EXISTING UTILITIES SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE REPAIR OF DAMAGE TO UTILITIES SHOWN HEREIN AT HIS OWN EXPENSE.
7. EXISTING FENCES, SITE IMPROVEMENTS (INCLUDING LANDSCAPING & IRRIGATION) AND STRUCTURES SHALL BE PROTECTED FROM CONSTRUCTION RELATED DAMAGE. CONTRACTOR SHALL CORRECT OR RESTORE SUCH DAMAGE AT CONTRACTOR'S EXPENSE.
8. CONTRACTOR SHALL MINIMIZE CONSTRUCTION RELATED MUD AND DEBRIS ON SURFACES ADJACENT TO THE PROJECT SITE - LANDSCAPE, STREETS, DRIVES AND SIDEWALKS.
9. EQUIPMENT AND MATERIALS NOT INCORPORATED IN PROJECT SCOPE SHALL NOT BE STORED OR STOCKED ON SITE.
10. THE CONTRACTOR SHALL ADHERE TO THE NOISE ORDINANCE OF THE CONTROLLING MUNICIPAL AUTHORITY.
11. THE CONTRACTOR SHALL ADHERE TO THE OWNER'S REQUIREMENTS FOR CONSTRUCTION PARKING AND SHALL REQUIRE THAT THEIR EMPLOYEES AND ALL SUB-TRADE EMPLOYEES PARK ONLY IN DESIGNATED AREA(S). THE OWNER'S CONTACT WILL ADVISE THE CONTRACTOR ON THE SPECIFICS OF THESE REQUIREMENTS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE RIM OF ALL EXISTING AND PROPOSED MANHOLES, CLEANOUTS AND INLETS TO FINISHED GRADE.
13. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED CITY, COUNTY AND/OR STATE PERMITS PRIOR TO CONSTRUCTION.
14. CONTRACTOR IS RESPONSIBLE FOR CONTROL OF EROSION OF ALL AREAS OF CONSTRUCTION. THE STORM WATER MANAGEMENT PLANS INCLUDED IN THE DRAWING SET ARE CONCEPTUAL ONLY AND DO NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR EROSION AND SEDIMENT CONTROL IN ALL AREAS OF CONSTRUCTION.
15. TRENCHES AND OPEN EXCAVATIONS SHALL BE APPROPRIATELY MARKED AND PROTECTED BY THE CONTRACTOR. NO TRENCHES OR EXCAVATIONS SHALL REMAIN UNPROTECTED OVERNIGHT. CONTRACTOR SHALL PROVIDE PROTECTION SUFFICIENT TO MAINTAIN PUBLIC SAFETY, IN ACCORDANCE WITH THE CONTROLLING MUNICIPAL AUTHORITY AND OSHA REGULATIONS AS WELL AS ANY REQUIREMENTS OF THE OWNER.
16. THE METHODS OF CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTORS. THE CONTRACTORS SHALL TAKE ALL REASONABLE PRECAUTIONS TO PROTECT WORK IN PROGRESS, HIS PERSONNEL AND VISITORS TO THE SITE FROM SOURCES OF INJURY. SUCH PRECAUTIONS SHALL INCLUDE BUT ARE NOT LIMITED TO: ERECTION OF BARRIERS, SHORING AND/OR BRACING OF EXCAVATIONS AND PROTECTION OF WORK IN PLACE FROM INTRUSION BY TRESPASS OR WEATHER.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL TRASH, DEBRIS AND EXCAVATED MATERIAL GENERATED AS A RESULT OF HIS/HER WORK.
18. SHOP DRAWINGS, PRODUCT DATA, AND TECHNICAL INFORMATION FOR ALL PRODUCTS THAT ARE TO BE INSTALLED AS PART OF THIS PROJECT SHALL BE ELECTRONICALLY SUBMITTED BY THE CONTRACTOR TO THE ENGINEER FOR APPROVAL. SUBMITTALS SHALL BE E-MAILED TO THE ENGINEER WITH COPIES E-MAILED TO THE OWNER'S PROJECT MANAGER.
19. GEOTECHNICAL ENGINEERING AND TESTING SHALL BE PERFORMED BY THE OWNER'S GEOTECHNICAL ENGINEER AND PAID FOR BY THE OWNER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE GEOTECHNICAL ENGINEER TO SCHEDULE ALL TESTING AND OBSERVATION REQUIRED BY THE PROJECT DOCUMENTS.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXPORTING AND DISPOSAL OF EXCESS EXCAVATED MATERIAL OR THE IMPORT OF FILL MATERIAL AS REQUIRED BY THE GRADING PLANS.
21. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS AT AND ADJACENT TO THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
22. OWNER/ENGINEER CONSTRUCTION REVIEW OF THE CONTRACTORS PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON OR NEAR THE CONSTRUCTION SITE.
23. ALL CONSTRUCTION ACTIVITIES EXCEEDING 1 ACRE OF DISTURBANCE MUST COMPLY WITH THE STATE OF COLORADO PERMITTING PROCESS FOR "STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. CONTACT THE COLORADO DEPARTMENT OF HEALTH, WATER QUALITY DIVISION FOR INFORMATION.
24. THE CONTRACTORS SHALL FULLY FAMILIARIZE HIM/HER SELF WITH THE REQUIREMENTS AS REPRESENTED IN THE DRAWINGS AND WITH THE CONDITIONS AT THE SITE. NO ADDITIONAL COSTS TO THE OWNER SHALL BE ACCEPTED FOR ADDITIONAL WORK FOR FORESEEABLE OR EXISTING CONDITIONS.
25. SITE BENCHMARK: NORTH PROPERTY CORNER, #3 REBAR WITHOUT CAP. ELEVATION = 9116.66' (NAVD 88 DATUM)
26. EXISTING TOPOGRAPHY SHOWN WAS TAKEN FROM A FIELD SURVEY DATED 3/16/2020 BY ANDERSON & HASTINGS CONSULTANTS, INC. BENCHMARK ELEVATIONS AND DATUM ARE AS NOTED.
27. ALL EARTHWORK AND GRADING TO BE IN CONFORMANCE WITH THE GEOTECHNICAL STUDY REPORT PREPARED BY _____ FOR THE _____ SITE DATED _____. PROJECT #_____.

811 Know what's below. Call before you dig.

CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

Studio 11

Gudmundur Jonsson

11964 W. Belmont Drive 303 875 6651
Littleton, CO 80127

CIVIL ENGINEER
Anderson & Hastings Consultants, Inc.
12596 W Bayaud Ave, Suite 200
Lakewood, CO 80228
p. 303.433.8486

Permit Drawings	3/24/20
REV. Permit Drawings	5/28/20
Issues/Revisions:	Date:

CenturyLink
DILLON PARKING STRUCTURE
166 LAKE DILLON DRIVE
DILLON, COLORADO

C-100

Drawn by: CDB

Checked by: JVH

CIVIL COVER SHEET

CIVIL SPECIFICATIONS:

SECTION 02 41 00 - SELECTIVE DEMOLITION

1.1 FIELD CONDITIONS
A. Owner will occupy building immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted.
B. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
C. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.
1. Hazardous materials will be removed by Owner before start of the Work.
2. If suspected hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Hazardous materials will be removed by Owner under a separate contract.
D. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
1.2 PEFORMANCE REQUIREMENTS
A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
1.3 EXAMINATION
A. Verify that utilities have been disconnected and capped before starting selective demolition operations.
B. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
C. When unanticipated mechanical, electrical, or structural elements that conflict with intended function or design are encountered, investigate and measure the nature and extent of conflict. Promptly submit a written report to Architect.
1.4 PREPARATION
A. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
B. Temporary Facilities: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
1.5 SELECTIVE DEMOLITION, GENERAL
A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and dispose removed materials off of Air Force Property.
1.6 CLEANING
A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

31 00 00 - EARTH MOVING

1.1 DEFINITIONS
A. Backfill: Soil material used to fill an excavation.
1. Initial Backfill: Backfill placed beside and over pipe in a trench, including haunches to support sides of pipe.
2. Final Backfill: Backfill placed over initial backfill to fill a trench.
B. Bedding Course: Aggregate layer placed over the excavated subgrade in a trench before laying pipe.
1.2 SOIL MATERIALS
A. Satisfactory Soils: Soil Classification Groups GW, GP, GM, SW, SP, and SM according to ASTM D 2487, or a combination of these groups; free of rock or gravel larger than 3 inches in any dimension, debris, waste, frozen materials, vegetation, and other deleterious matter.
1. Liquid Limit: 30.
2. Plasticity Index: 15.
B. Unsatisfactory Soils: Soil Classification Groups GC, SC, CL, ML, OL, CH, MH, OH, and PT according to ASTM D 2487, or a combination of these groups.
1. Unsatisfactory soils also include satisfactory soils not maintained within 2 percent of optimum moisture content at time of compaction.
C. Bedding Course: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; except with 100 percent passing a 1-inch sieve and not more than 8 percent passing a No. 200 sieve.
1.3 ACCESSORIES
A. Detectable Warning Tape: Acid- and alkali-resistant, polyethylene film warning tape manufactured for marking and identifying underground utilities, a minimum of 4 inches wide and 4 mils thick, continuously inscribed with a description of the utility, with metallic core encased in a protective jacket for corrosion protection, detectable by metal detector when tape is buried up to 30 inches deep; colored to comply with local practice or requirements of authorities having jurisdiction.
1.4 PREPARATION
A. Protect and maintain erosion and sedimentation controls during earth moving operations.
1.5 EXCAVATION, GENERAL
A. Unclassified Excavation: Excavate to subgrade elevations regardless of the character of surface and subsurface conditions encountered. Unclassified excavated materials may include rock, soil materials, and obstructions. No changes in the Contract Sum or the Contract Time will be authorized for rock excavation or removal of obstructions.
1. If excavated materials intended for fill and backfill include unsatisfactory soil materials and rock, replace with satisfactory soil materials.
1.6 EXCAVATION
A. Excavate to indicated elevations and dimensions. If applicable, extend excavations a sufficient distance from structures for placing and removing concrete formwork, for installing services and other construction, and for inspections.
1. Excavations for Footings and Foundations: Do not disturb bottom of excavation. Excavate by hand to final grade just before placing concrete reinforcement. Trim bottoms to required lines and grades to leave solid base to receive other work.
1.7 SUBGRADE INSPECTION
A. Proof-roll subgrade below the building slabs and pavements with a pneumatic-tired dump truck to identify soft pockets and areas of excess yielding. Do not proof-roll wet or saturated subgrades.
B. Reconstruct subgrades damaged by freezing temperatures, frost, rain, accumulated water, or construction activities, as directed by Architect, without additional compensation.
1.8 UNAUTHORIZED EXCAVATION
A. Fill unauthorized excavation under foundations or wall footings by extending bottom elevation of concrete foundation or footing to excavation bottom, without altering top elevation. Lean concrete fill, with 28-day compressive strength of 2500 psi, may be used when approved by Architect.
1. Fill unauthorized excavations under other construction, pipe, or conduit as directed by Architect.
1.9 STORAGE OF SOIL MATERIALS
A. Stockpile borrow soil materials and excavated satisfactory soil materials without intermixing. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust and install erosion control measures.
1. Stockpile soil materials away from edge of excavations. Do not store within drip line of remaining trees.
1.10 SOIL MOISTURE CONTROL
A. Uniformly moisten or aerate subgrade and each subsequent fill or backfill soil layer before compaction to within 2 percent of optimum moisture content.
1. Do not place backfill or fill soil material on surfaces that are muddy, frozen, or contain frost or ice.
2. Remove and replace, or scarify and air dry, otherwise satisfactory soil material that exceeds optimum moisture content by 2 percent and is too wet to compact to specified dry unit weight.
1.11 COMPACTION OF SOIL BACKFILLS AND FILLS
A. Place backfill and fill satisfactory soil materials in layers not more than 8 inches in loose depth for material compacted by heavy compaction equipment, and not more than 4 inches in loose depth for material compacted by hand-operated tampers.
B. Place backfill and fill satisfactory soil materials evenly on all sides of structures to required elevations, and uniformly along the full length of each structure.
C. Compact soil materials to not less than the following percentages of maximum dry unit weight according to ASTM D 698:
1. Under structures, building slabs, steps, and pavements, scarify and recompact top 12 inches of existing subgrade and each layer of backfill or fill soil material at 95 percent.
2. For utility trenches, compact each layer of initial and final backfill soil material at 95% percent.
1.12 GRADING
A. General: Uniformly grade areas to a smooth surface, free of irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.
B. Site Rough Grading: Slope grades to direct water away from buildings and to prevent ponding. Finish subgrades to required elevations within the following tolerances:
5. Pavements: Plus or minus 1/2 inch.
C. Grading Inside Building Lines: Finish subgrade to a tolerance of 1/2 inch when tested with a 10-foot straightedge.
1.13 FIELD QUALITY CONTROL
A. Testing Agency: Owner will engage a qualified geotechnical engineering testing agency to perform tests and inspections.
B. Allow testing agency to inspect and test subgrades and each fill or backfill layer. Proceed with subsequent earth moving only after test results for previously completed work comply with requirements.
C. Footing Subgrade: At footing subgrades, at least one test of each soil stratum will be performed to verify design bearing capacities. Subsequent verification and approval of other footing subgrades may be based on a visual comparison of subgrade with tested subgrade when approved by Architect.
D. When testing agency reports that subgrades, fills, or backfills have not achieved degree of compaction specified, scarify and moisten or aerate, or remove and replace soil materials to depth required; recompact and retest until specified compaction is obtained.
1.14 DISPOSAL OF SURPLUS AND WASTE MATERIALS
A. Remove surplus satisfactory soil and waste materials, including unsatisfactory soil, trash, and dispose off site.

SECTION 31 12 17 - ASPHALT PAVING

PART 1 - GENERAL
1.1 ACTION SUBMITTALS
A. Product Data: For each type of product indicated. Include technical data and tested physical and performance properties.
1. Job-Mix Designs: For each job mix proposed for the Work.
2. Material certificates for each paving material, from manufacturer.
1.2 QUALITY ASSURANCE
A. Regulatory Requirements: Comply with materials, workmanship, and other applicable requirements of CDOT and the City of Dillon for asphalt paving work.
1.3 AGGREGATES
A. Coarse Aggregate: ASTM D 692, sound; angular crushed stone, crushed gravel, or cured, crushed blast-furnace slag.
B. Fine Aggregate: ASTM D 1073, sharp-edged natural sand or sand prepared from stone, gravel, cured blast-furnace slag, or combinations thereof.
C. Mineral Filler: ASTM D 242, rock or slag dust, hydraulic cement, or other inert material.
1.4 ASPHALT MATERIALS
A. Asphalt Binder: AASHTO M 320 or AASHTO MP 1a, PG 64-22.
B. Tack Coat: AASHTO M 140 emulsified asphalt, or AASHTO M 208 cationic emulsified asphalt, slow setting, diluted in water, of suitable grade and consistency for application.
1.5 MIXES
A. Hot-Mix Asphalt: Dense, hot-laid, hot-mix asphalt plant mixes approved by authorities having jurisdiction; designed according to procedures in AASHTO T-312 or Colorado Procedure CP-L 5115 for th eSuperpave Method of Mixture Design.:
1. Base Course: CDOT Grade S.
2. Surface Course: CDOT Grade SX.
1.6 EXAMINATION
A. Proof-roll subgrade below pavements with heavy pneumatic-tired equipment to identify soft pockets and areas of excess yielding. Do not proof-roll wet or saturated subgrades.
B. Proceed with paving only after unsatisfactory conditions have been corrected.
1.7 PATCHING
A. Hot-Mix Asphalt Pavement: Saw cut perimeter of patch and excavate existing pavement section to sound base. Excavate rectangular or trapezoidal patches, extending 12 inches into adjacent sound pavement, unless otherwise indicated. Cut excavation faces vertically. Remove excavated material. Recompact existing unbound-aggregate base course to form new subgrade.
B. Tack Coat: Apply uniformly to vertical surfaces abutting or projecting into new; hot-mix asphalt paving at a rate of 0.05 to 0.15 gal./sq. yd..
1. Allow tack coat to cure undisturbed before applying hot-mix asphalt paving.
2. Avoid smearing or staining adjoining surfaces, appurtenances, and surroundings. Remove spillages and clean affected surfaces.
C. Patching: Fill excavated pavements with hot-mix asphalt base mix for full thickness of patch and, while still hot, compact flush with adjacent surface.
1.8 SURFACE PREPARATION
A. General: Immediately before placing asphalt materials, remove loose and deleterious material from substrate surfaces. Ensure that prepared subgrade is ready to receive paving.
B. Tack Coat: Apply uniformly to surfaces of existing pavement at a rate of 0.05 to 0.15 gal./sq. yd..
1. Allow tack coat to cure undisturbed before applying hot-mix asphalt paving.
2. Avoid smearing or staining adjoining surfaces, appurtenances, and surroundings. Remove spillages and clean affected surfaces.
1.9 HOT-MIX ASPHALT PLACING
A. Machine place hot-mix asphalt on prepared surface, spread uniformly, and strike off. Place asphalt mix by hand to areas inaccessible to equipment in a manner that prevents segregation of mix. Place each course to required grade, cross section, and thickness when compacted.
3. Spread mix at minimum temperature of 250 deg F.
4. Regulate paver machine speed to obtain smooth, continuous surface free of pulls and tears in asphalt-paving mat.
B. Place paving in consecutive strips not less than 10 feet wide unless infill edge strips of a lesser width are required.
C. Promptly correct surface irregularities in paving course behind paver. Use suitable hand tools to remove excess material forming high spots. Fill depressions with hot-mix asphalt to prevent segregation of mix; use suitable hand tools to smooth surface.
1.10 JOINTS
A. Construct joints to ensure a continuous bond between adjoining paving sections. Construct joints free of depressions, with same texture and smoothness as other sections of hot-mix asphalt course.
1. Clean contact surfaces and apply tack coat to joints.
2. Offset longitudinal joints, in successive courses, a minimum of 6 inches.
3. Offset transverse joints, in successive courses, a minimum of 24 inches.
4. Construct transverse joints at each point where paver ends a day's work and resumes work at a subsequent time. Construct these joints using either "bulkhead" or "papered" method according to AI MS-22, for both "Ending a Lane" and "Resumption of Paving Operations."
1.11 COMPACTION
A. General: Begin compaction as soon as placed hot-mix paving will bear roller weight without excessive displacement. Compact hot-mix paving with hot, hand tampers or with vibratory-plate compactors in areas inaccessible to rollers.
1. Complete compaction before mix temperature cools to 185 deg F.
B. Breakdown Rolling: Complete breakdown or initial rolling immediately after rolling joints and outside edge. Examine surface immediately after breakdown rolling for indicated crown, grade, and smoothness. Correct laydown and rolling operations to comply with requirements.
C. Intermediate Rolling: Begin intermediate rolling immediately after breakdown rolling while hot-mix asphalt is still hot enough to achieve specified density. Continue rolling until hot-mix asphalt course has been uniformly compacted to the following density:
1. Average Density: 92 percent of reference maximum theoretical density according to ASTM D 2041, but not less than 90 percent nor greater than 96 percent.
D. Finish Rolling: Finish roll paved surfaces to remove roller marks while hot-mix asphalt is still warm.
E. Edge Shaping: While surface is being compacted and finished, trim edges of pavement to proper alignment. Bevel edges while asphalt is still hot; compact thoroughly.
F. Protection: After final rolling, do not permit vehicular traffic on pavement until it has cooled and hardened.
G. Erect barricades to protect paving from traffic until mixture has cooled enough not to become marked.
1.12 INSTALLATION TOLERANCES
A. Pavement Thickness: Compact each course to produce the thickness indicated within the following tolerances:
1. Base Course: Plus or minus 1/2 inch.
2. Surface Course: Plus 1/4 inch, no minus.
B. Pavement Surface Smoothness: Compact each course to produce a surface smoothness within the following tolerances as determined by using a 10-foot straightedge applied transversely or longitudinally to paved areas:
1. Base Course: 1/4 inch.
2. Surface Course: 1/8 inch.
1.13 FIELD QUALITY CONTROL
A. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections.
B. Replace and compact hot-mix asphalt where core tests were taken.
C. Remove and replace or install additional hot-mix asphalt where test results or measurements indicate that it does not comply with specified requirements.
1.14 DISPOSAL
A. Except for material indicated to be recycled, remove excavated materials from Project site and legally dispose of them in off-site.

SECTION 32 13 13 - CONCRETE PAVING

PART 1 - GENERAL
1.1 ACTION SUBMITTALS
A. Submittals:
1. Design Mixtures: For each concrete paving mixture. Include alternate design mixtures when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments.
1.2 STEEL REINFORCEMENT
A. Reinforcing Bars: ASTM A 615/A 615M, Grade 60; deformed.
B. Dowel Bars: ASTM A 615/A 615M, Grade 60 plain-steel bars. Cut bars true to length with ends square and free of burrs.
1.3 CONCRETE MATERIALS
A. Conforming to CDOT Class B.
1.4 FIBER REINFORCEMENT
A. Synthetic Fiber: Monofilament or fibrillated polypropylene fibers engineered and designed for use in concrete paving, complying with ASTM C 1116/C 1116M, Type III, 1/2 to 1-1/2 inches long.
1.5 RELATED MATERIALS
A. Joint Fillers: ASTM D 1751, asphalt-saturated cellulosic fiber or ASTM D 1752, cork or self-expanding cork in preformed strips.
1.6 CONCRETE MIXTURES
A. Prepare design mixtures, proportioned according to ACI 301, with the following properties:
1. Compressive Strength (28 Days): 4500 psi.
2. Maximum Water-Cementitious Materials Ratio at Point of Placement: 0.45.
3. Slump Limit: 4 inches, plus or minus 1 inch.
4. Air Content: 6 percent plus or minus 1.5 percent.
5. Cement: CDOT Class P
B. Chemical Admixtures: Use admixtures according to manufacturer's written instructions.
C. Synthetic Fiber: Uniformly disperse in concrete mixture at manufacturer's recommended rate, but not less than 1.5 lb/cu. yd..
1.7 EDGE FORMS AND SCREED CONSTRUCTION
A. Set, brace, and secure edge forms, bulkheads, and intermediate screed guides to required lines, grades, and elevations. Install forms to allow continuous progress of work and so forms can remain in place at least 24 hours after concrete placement.
1.8 STEEL REINFORCEMENT
A. General: Comply with CRSI's "Manual of Standard Practice" for fabricating, placing, and supporting reinforcement.
1.9 JOINTS
A. General: Form construction, isolation, and contraction joints and tool edges true to line, with faces perpendicular to surface plane of concrete. Construct transverse joints at right angles to centerline unless otherwise indicated.
B. Construction Joints: Set construction joints at side and end terminations of paving and at locations where paving operations are stopped for more than one-half hour unless paving terminates at isolation joints.
C. Isolation Joints: Form isolation joints of preformed joint-filler strips abutting concrete curbs, catch basins, manholes, inlets, structures, other fixed objects, and where indicated.
D. Contraction Joints: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of the concrete thickness at 6 foot maximum spacing.
E. Edging: After initial floating, tool edges of paving, gutters, curbs, and joints in concrete with an edging tool to a 1/4-inch radius. Repeat tooling of edges after applying surface finishes. Eliminate edging-tool marks on concrete surfaces.
F. Seal joints in a accordance with CDOT specifications.
1.10 CONCRETE PLACEMENT
A. Comply with ACI 301 requirements for measuring, mixing, transporting, placing, and consolidating concrete.
1.11 FLOAT FINISHING
A. General: Do not add water to concrete surfaces during finishing operations.
B. Float Finish: Begin the second floating operation when bleed-water sheen has disappeared and concrete surface has stiffened sufficiently to permit operations. Float surface with power-driven floats or by hand floating if area is small or inaccessible to power units. Finish surfaces to true planes. Cut down high spots and fill low spots. Refloat surface immediately to uniform granular texture.
1. Medium-to-Fine-Textured Broom Finish: Draw a soft-bristle broom across float-finished concrete surface perpendicular to line of traffic to provide a uniform, fine-line texture.
1.12 CONCRETE PROTECTION AND CURING
A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures.
B. Comply with ACI 306.1 for cold-weather protection.
1.13 PAVING TOLERANCES
A. Comply with tolerances in ACI 117 and as follows:
1. Elevation: 3/4 inch.
2. Thickness: Plus 3/8 inch, minus 1/4 inch.
3. Surface: Gap below 10-foot- long, unleveled straightedge not to exceed 1/2 inch.
4. Joint Spacing: 3 inches.
5. Contraction Joint Depth: Plus 1/4 inch, no minus.
6. Joint Width: Plus 1/8 inch, no minus.

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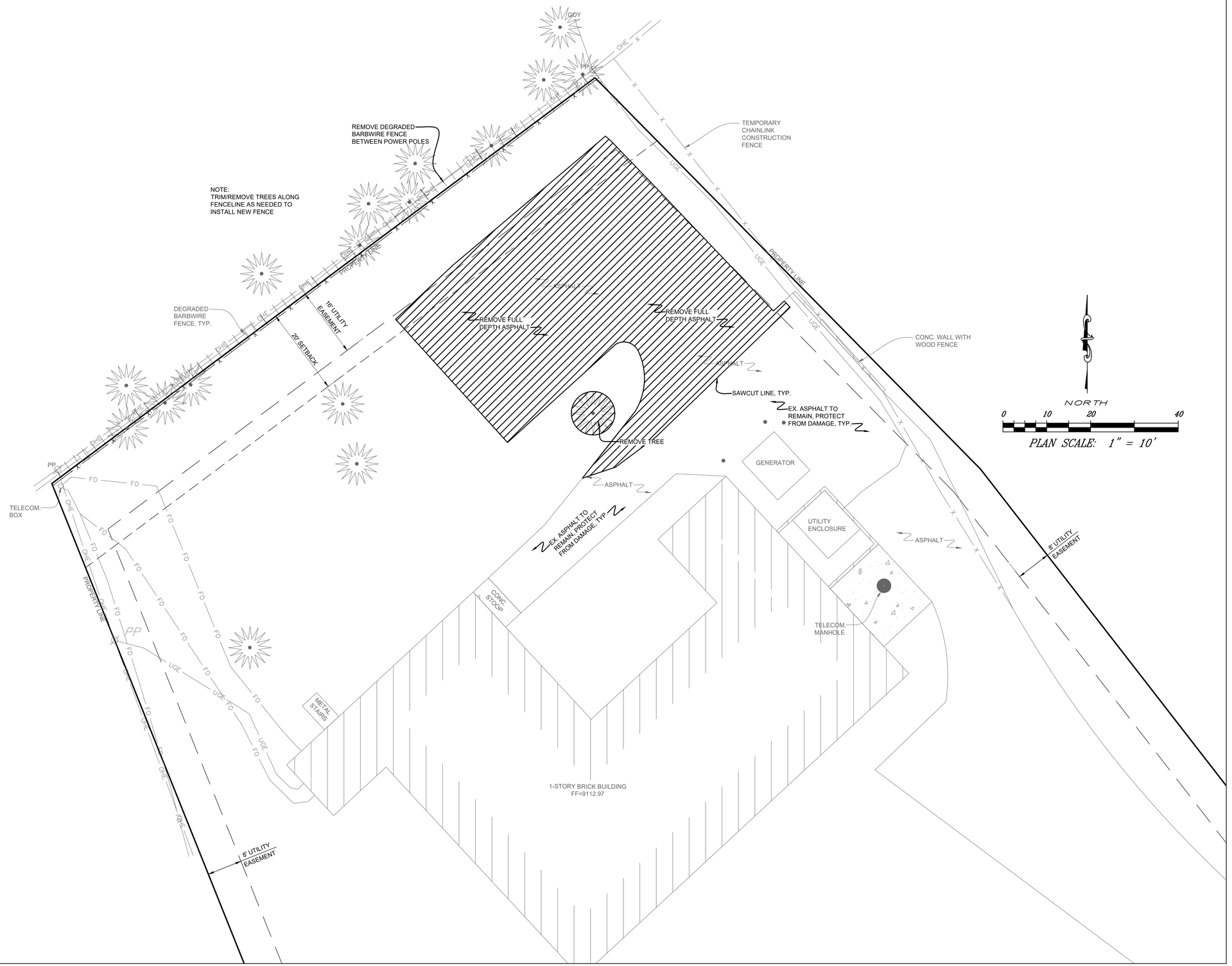
CenturyLink
DILLON PARKING STRUCTURE
166 LAKE DILLON DRIVE
DILLON, COLORADO

C-101

Drawn by: CDB
Checked by: JVH

CIVIL SPECIFICATIONS



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166 LAKE DILLON DRIVE
DILLON, COLORADO

C-200

Drawn by: CDB

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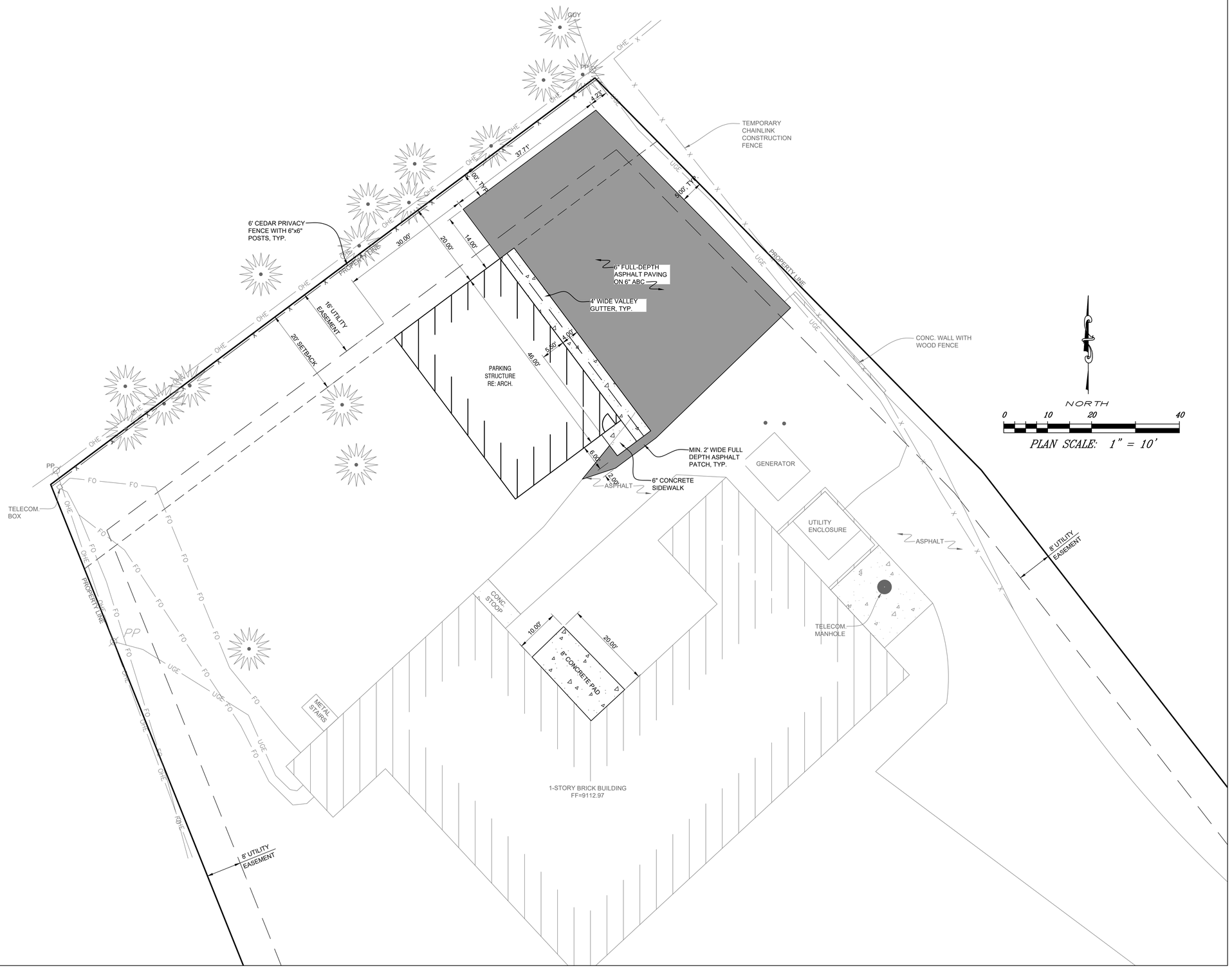
DEMOLITION PLAN



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C-300

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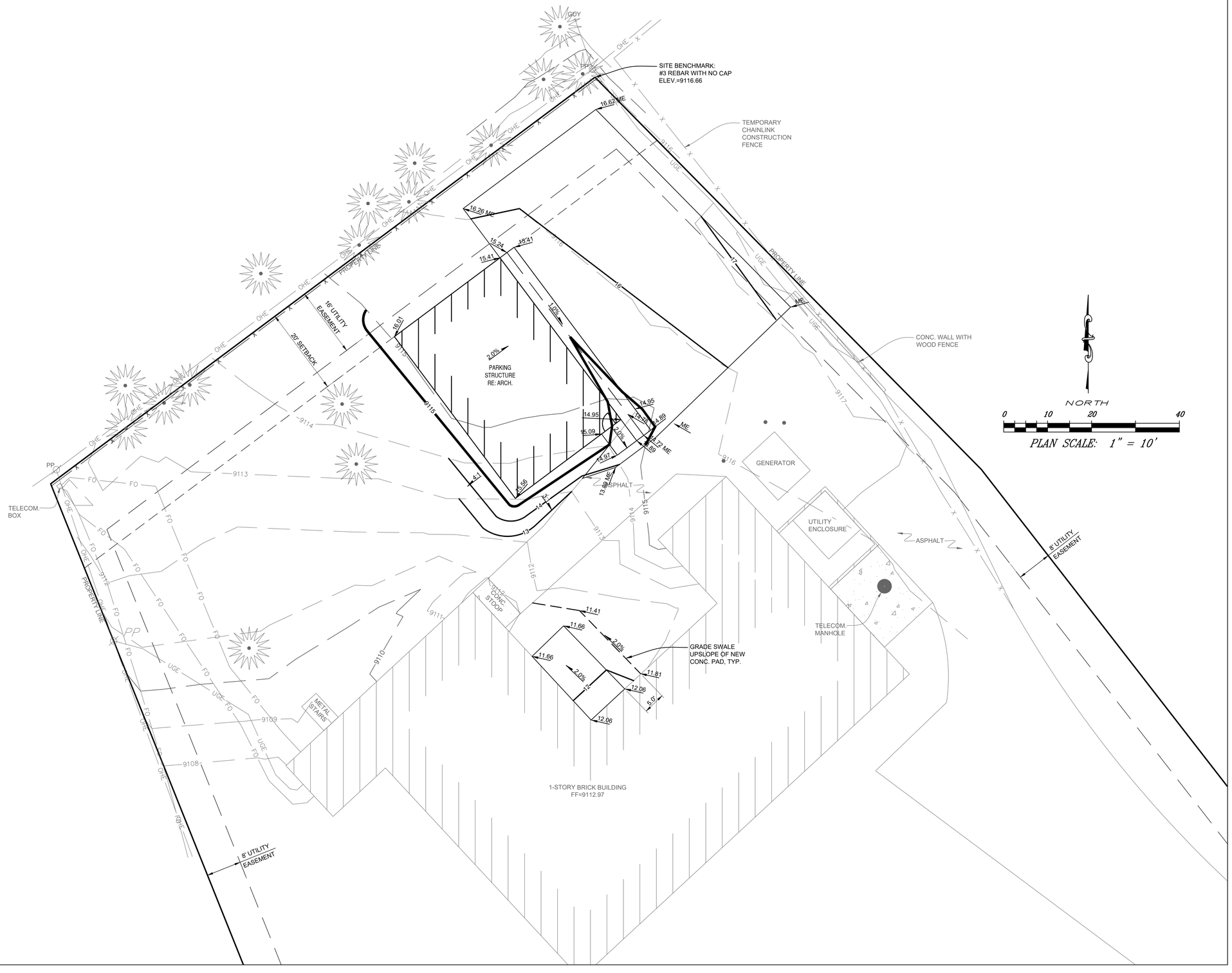
SITE PLAN



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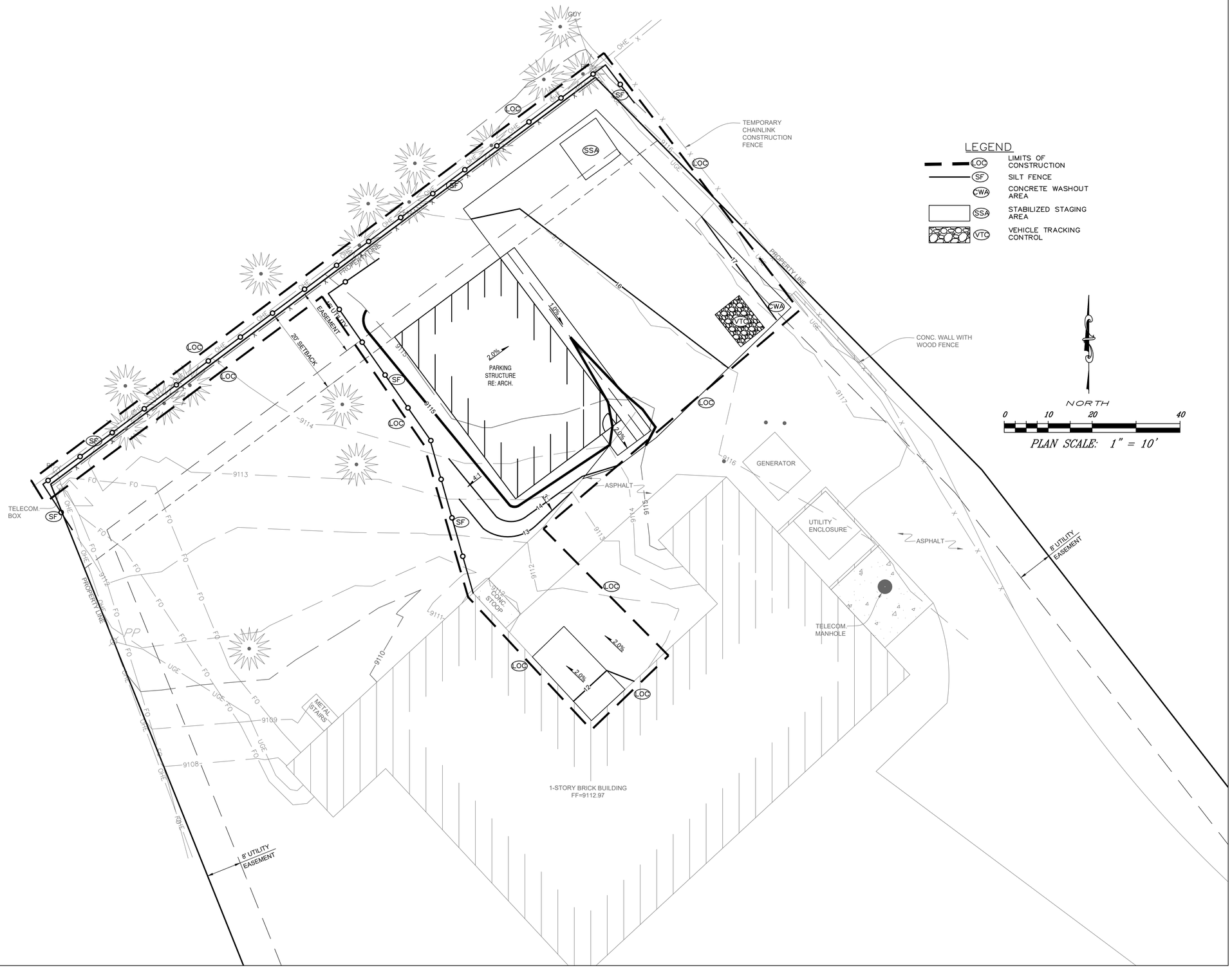
GRADING PLAN



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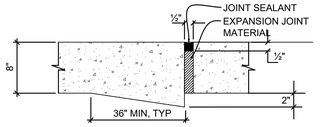
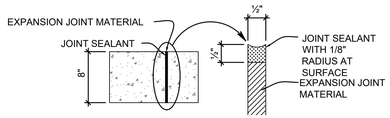
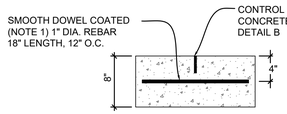
EROSION CONTROL PLAN



TYPE A-EXPANSION/ISOLATION JOINT
TO BE USED AT JOINT WITH ADJACENT STRUCTURE



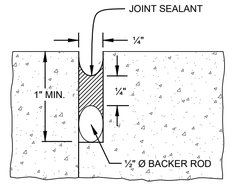
TYPE B-EXPANSION JOINT
IN CONCRETE PAVING



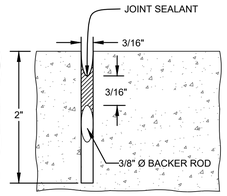
TYPE C-TRANSVERSE CONTROL JOINT
IN CONCRETE PAVING

CONCRETE PAVING NOTES :

1. REINFORCEMENT: ASTM A 615, GRADE 60, EPOXY COATED DEFORMED STEEL REBAR OR SMOOTH STEEL DOWELS WITH DIAMETER AND LENGTH AS INDICATED.
   A. SPACE DOWELS AT 12 ON CENTER.
   B. GREASE DOWELS TO PROVIDE MOVEMENT IN EXPANSION JOINTS.
   C. SPACE TIE BARS AT 30" ON CENTER
   D. KEEP TIE BARS IN THE VERTICAL CENTER OF THE CONCRETE SLAB AND PERPENDICULAR TO THE JOINT DURING CONCRETE PLACEMENT.
2. SAW CONTROL JOINTS (CONTRACTION JOINTS) BEFORE SHRINKAGE CRACKING TAKES PLACE. DO NOT TEAR OR RAVEL CONCRETE DURING SAWING. IN COOL WEATHER, THE JOINT SAWING MAY BE DELAYED ONLY FOR THE TIME REQUIRED TO PREVENT TEARING AND RAVELING THE CONCRETE. CUT CONTROL JOINTS TO DIMENSIONS RECOMMENDED BY SEALANT MANUFACTURER AND APPROVED BY CONTRACTING OFFICER.
3. JOINTS: LAY OUT JOINTS TO AID CONSTRUCTION AND CONTROL RANDOM CRACKING.
   A. CONTROL JOINT SPACING SHALL BE 15 FEET MAXIMUM ON CENTER IN BOTH DIRECTIONS.
   B. EXTEND TRANSVERSE CONTROL JOINTS CONTINUOUSLY ACROSS THE FULL WIDTH OF THE CONCRETE.
   C. MAKE ADJUSTMENTS IN JOINT LOCATIONS TO MEET INLET OR MANHOLE LOCATIONS.
   D. EXPANSION JOINTS SHALL BE PLACED WHERE CONCRETE ABUTS A BUILDING WALL, SIDEWALK, CURB, GUTTER OR ANY IMMOVABLE STRUCTURE.
4. EXPANSION JOINT MATERIAL:
   BITUMINOUS (ASPHALT OR TAR) MASTIC, ASTM D994. FORMED AND ENCASED BETWEEN 2 LAYERS OF BITUMINOUS SATURATED FELT OR 2 LAYERS OF GLASS-FIBER FELT EXTENDING TO THE BOTTOM OF THE CONCRETE SLAB.
5. BACKER ROD:
   ROUND RODS. RODS MUST BE OVERSIZED APPROXIMATELY 25 PERCENT TO FIT TIGHTLY INTO EACH JOINT AND COMPATIBLE WITH HOT POURED SEALANT.
6. JOINT SEALANT:
   SILICONE ASTM D5893, ON CDOT LIST OF APPROVED MATERIALS.
7. JOINT NOT REQUIRED BETWEEN PAVEMENT AND CURB & GUTTER IF POURED MONOLITHICLY.



DETAIL A - CONSTRUCTION JOINT

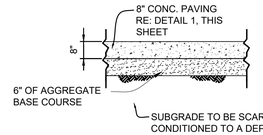


▲ SHALL BE 0.4T FOR LONGITUDINAL JOINTS ALONG SLABS 14 FEET OR GREATER IN WIDTH.

DETAIL B - SAWED JOINT

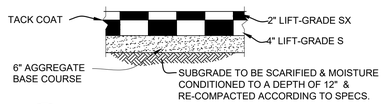
1 CONC. PAVING NOTES & DETAILS

SCALE: 1/2" = 1'-0"



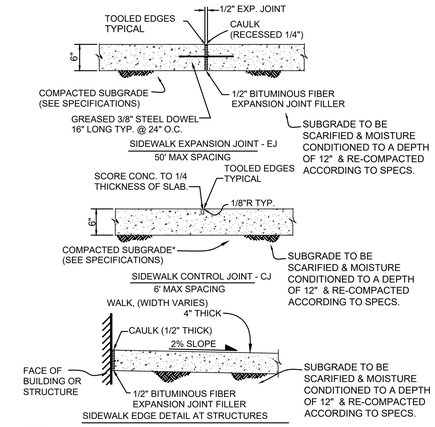
2 8" CONC. PAVING DETAIL

SCALE 1/2" : 1'-0



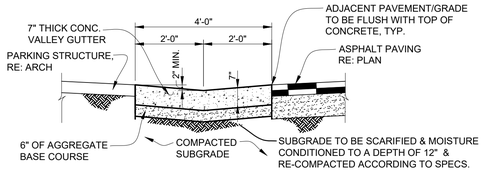
3 ASPHALT PAVING DETAIL

NO SCALE



4 SIDEWALK JOINT DETAILS

NO SCALE



5 VALLEY GUTTER DETAILS

SCALE: 1/2" = 1'-0"

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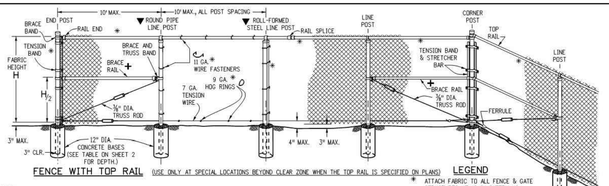
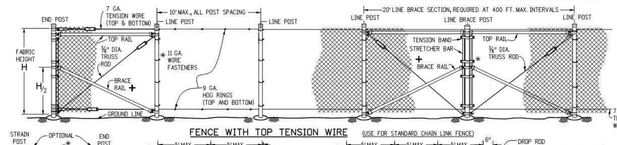
SITE DETAILS

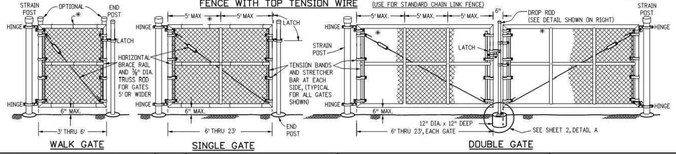


FENCE WITH TOP RAIL (USE ONLY AT SPECIAL LOCATIONS BEYOND CLEAR ZONE WHEN THE TOP RAIL IS SPECIFIED ON PLANS)

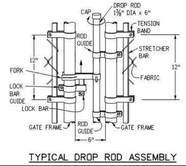
BARBED WIRE TOP (USE ONLY WHEN SPECIFIED ON PLANS)



FENCE WITH TOP TENSION WIRE (USE FOR STANDARD CHAIN LINK FENCE)



WALK GATE | SINGLE GATE | DOUBLE GATE



TYPICAL DROP ROD ASSEMBLY

GENERAL NOTES

1. AT EACH LOCATION WHERE AN ELECTRIC TRANSMISSION, DISTRIBUTION, OR SECONDARY LINE CROSSES A FENCE, THE CONTRACTOR SHALL FURNISH AND INSTALL A GROUND CONFORMING TO ARTICLE 250 OF THE NATIONAL ELECTRIC CODE. A GROUND SHALL ALSO BE INSTALLED A MAXIMUM OF EVERY 500 FT. ALONG THE FENCE. THE GROUND ROD SHALL BE A MINIMUM DIAMETER OF ½ IN. AND 8 FT. IN LENGTH, AND DRIVEN AT LEAST 7½ FT. INTO THE GROUND. THE ROD SHALL BE CONNECTED TO EACH WIRE WITH A MINIMUM AWG NO. 8 STRANDED COPPER WIRE. GROUNDING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE FENCE.
2. HEIGHT OF FABRIC) SHALL BE AS SHOWN ON THE PLANS. FABRIC IS AVAILABLE IN THE FOLLOWING HEIGHTS: 36 IN., 42 IN., 48 IN., 60 IN., 72 IN., 84 IN., 96 IN., 108 IN., 120 IN., AND 144 IN.
3. CHAIN LINK FENCE SHALL CONFORM TO AASHTO M 181.
4. CHAIN LINK FABRIC SHALL BE 2 IN. MESH NO. 9 GAGE GALVANIZED OR ALUMINUM COATED WIRE SECURELY FASTENED TO TENSION WIRE, LINE POSTS, RAILS, BRACES AND STRETCHER BARS SPACED AS SHOWN HEREON. WIRE FASTENERS AND TIE CLIPS SHALL BE NO. 11 GAGE (WIRE GALVANIZED STEEL WIRE OR NO. 7 GAGE (BSG) ALUMINUM WIRE, AND HOG RINGS SHALL BE NO. 9 GAGE, ALL IN CONFORMANCE WITH ASTM F 626.
5. STEEL POSTS, RAILS AND GATE FRAMES SHALL CONFORM TO AASHTO M 181 TYPE 1, GRADE 1 OR GRADE 2.
6. AT THE CONTRACTOR'S OPTION, PIPE USED FOR FENCE CONSTRUCTION SHALL CONFORM TO THE DIMENSIONS AND WEIGHTS FOR EITHER "ORDINARY PIPE" OR "ALTERNATIVE PIPE" AS SHOWN ON SHEET 2. "ALTERNATIVE PIPE" SHALL BE HIGH STRENGTH STEEL PIPE CONFORMING TO FEDERAL SPECIFICATION RR-P-191/3C.
7. TENSION WIRE SHALL BE CONTINUOUS BETWEEN END OR CORNER POST AND LINE BRACE POST. A TURNBUCKLE OR OTHER APPROVED TIGHTENING DEVICE SHALL BE USED FOR EACH CONTINUOUS SPAN OF TENSION WIRE.
8. TENSION WIRE SHALL CONFORM TO AASHTO M 181.
9. CONCRETE FOOTINGS SHALL HAVE TOPS CROWNED AT GROUND LEVEL AND SHALL BE CLASS B CONCRETE WITH LIGHTWEIGHT AGGREGATE CONFORMING TO AASHTO M 195, MAY BE SUBSTITUTED.
10. TERMINATION OF FENCE AT BRIDGES OR OTHER STRUCTURES SHALL BE AS SHOWN ON THE PLANS.
11. CHAIN LINK FABRIC UP TO 5 FT. HIGH SHALL BE KNUCKLED AT THE TOP AND BOTTOM SELVAGES. FABRIC OVER 5 FT. HIGH SHALL BE TWISTED AND BARBED ON THE TOP SELVAGE AND KNUCKLED ON THE BOTTOM SELVAGE.
12. FENCE MAY BE CONSTRUCTED WITH EITHER ROUND PIPE OR ROLL-FORMED STEEL COMPONENTS. THE CONTRACTOR SHALL STATE AT THE PRECONSTRUCTION CONFERENCE, THE TYPE OF CONSTRUCTION AND TYPE OF LINE POST TO BE USED THROUGHOUT THE PROJECT.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ESTABLISHING DISTURBED OR DESTROYED SURVEY MONUMENTS TO THE APPROPRIATE ACCURACY IN ACCORDANCE WITH SUBSECTION 625.08 OF THE STANDARD SPECIFICATIONS.

LEGEND

- ★ CASE 1: TO KEEP INSIDERS IN, SLOPE TOP IN 45°
- ★ CASE 2: TO KEEP OUTSIDERS OUT, SLOPE TOP OUT 45° BARBED WIRE OVER GATES SHALL NOT BE SLOPED
- ATTACH FABRIC TO ALL FENCE & GATE STRUCTURES AT 12 IN. INTERVALS VERTICALLY AND AT 20 IN. HORIZONTALLY. TIGHTENER OR TURNBUCKLE SYMBOL, (SEE DETAILS ON SHEETS 2 AND 3).
- ▼ TYPE OF LINE POST (ROUND PIPE OR ROLL-FORMED STEEL) SHALL BE AT THE OPTION OF THE CONTRACTOR UNLESS OTHERWISE SHOWN ON THE PLANS.
- + BRACE RAIL IS NOT REQUIRED FOR 36 IN., 42 IN., OR 48 IN. FABRIC HEIGHTS. BRACE RAIL FOR FENCE WITH ROLL-FORMED STEEL ELEMENTS IS 12 IN. BELOW THE TOP RAIL. (SEE SHEET 3).

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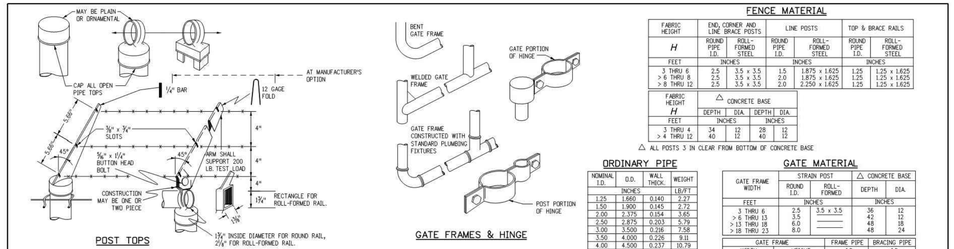
CHAIN LINK FENCE

STANDARD PLAN NO. M-607-2

Issued By: Project Development Branch July 4, 2012

Sheet No. 1 of 3



POST TOPS

GATE FRAMES & HINGE

FENCE MATERIAL

FABRIC HEIGHT	END, CORNER AND LINE BRACE POSTS		LINE POSTS		TOP & BRACE RAILS	
H	ROUND PIPE I.D.	ROLL-FORMED STEEL	ROUND PIPE I.D.	ROLL-FORMED STEEL	ROUND PIPE I.D.	ROLL-FORMED STEEL
FEET	INCHES		INCHES		INCHES	
3 THRU 6	2.5	3.5 x 3.5	1.5	1.875 x 1.625	1.25	1.25 x 1.625
> 6 THRU 8	2.5	3.5 x 3.5	2.0	1.875 x 1.625	1.25	1.25 x 1.625
> 8 THRU 12	2.5	3.5 x 3.5	2.0	2.250 x 1.625	1.25	1.25 x 1.625

FABRIC HEIGHT	△ CONCRETE BASE			
H	DEPTH	DIA	DEPTH	DIA
FEET	INCHES		INCHES	
3 THRU 4	34	12	28	12
> 4 THRU 12	40	12	40	12

△ ALL POSTS 3 IN CLEAR FROM BOTTOM OF CONCRETE BASE

ORDINARY PIPE

NOMINAL I.D.	O.D.	WALL THICK.	WEIGHT
	INCHES		LB/FT
1.25	1.660	0.140	2.27
1.50	1.900	0.145	2.72
2.00	2.375	0.154	3.65
2.50	2.875	0.203	5.79
3.00	3.500	0.216	7.58
3.50	4.000	0.226	9.11
4.00	4.500	0.237	10.79
5.00	5.563	0.258	14.62
6.00	6.625	0.280	18.97
8.00	8.625	0.322	28.55

ALTERNATIVE PIPE

NOMINAL I.D.	O.D.	WALL THICK.	WEIGHT
	INCHES		LB/FT
1.25	1.660	0.111	1.836
1.50	1.900	0.120	2.281
2.00	2.375	0.130	3.117
2.50	2.875	0.160	4.640

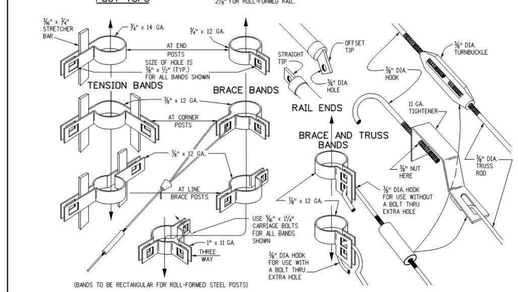
GATE MATERIAL

GATE FRAME WIDTH	STRAIN POST		△ CONCRETE BASE	
	ROUND I.D.	ROLL-FORMED	DEPTH	DIA.
FEET	INCHES		INCHES	
3 THRU 6	2.5	3.5 x 3.5	36	12
> 6 THRU 13	3.5	———	42	12
> 13 THRU 18	6.0	———	48	16
> 18 THRU 23	8.0	———	48	24

GATE FRAME		FRAME PIPE	BRACING PIPE
WIDTH	HEIGHT	I.D.	I.D.
FEET		INCHES	
3 THRU 8	3 THRU 6	1.25	1.25
> 8 THRU 23	> 6	1.50	1.25
> 8 THRU 23	> 6 THRU 12	1.50	1.50

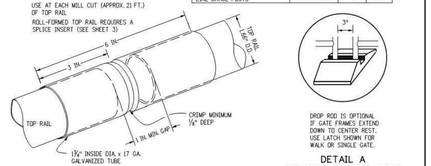
ROLL-FORMED STEEL

PART	SIZE	THICK.	WEIGHT
	INCHES	GAGE	LB/FT
TOP & BRACE RAILS	1.250 x 1.625	14	2.08
LINE POST (H≤ 3FT – 6FT)	1.875 x 1.625	12	2.72
LINE POST (H> 6FT – 8FT)	1.875 x 1.625	11	3.36
LINE POST (H> 8FT – 12FT)	2.250 x 1.625	11	4.02
END, CORNER & LINE BRACE POSTS	3.50 x 3.50	10	7.59



BANDS, RAIL ENDS & TIGHTENERS (DIMENSIONS SHOWN ARE MINIMUMS)

(BANDS TO BE RECTANGULAR FOR ROLL-FORMED STEEL POSTS)



RAIL SPLICE

DETAIL A TYPICAL CENTER REST

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Sheet No. 2 of 3

CORNER POST TREATMENT ①

CONNECTOR PLATE ②

KEY TO DETAILS

RAIL (SHOWING CORNER ASSEMBLY) ③
14 GAGE ROLL-FORMED STEEL, 20 FT. LENGTHS, 1.40 LB. PER LIN. FT.

TORQUE BAR ⑤

VIEW C RAIL SPLICE INSERT ⑫

END POST TREATMENT ④

ALTERNATIVE FOR TOP RAIL

LINE BRACE (ONE HALF SHOWN) ⑬
400 FT. INTERVALS

TYPICAL BRACING ⑦

END POST OR CORNER POST
10 GAGE ROLL-FORMED STEEL, 5.10 LB. PER LINEAR FT. ⑥

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Sheet No. 3 of 3

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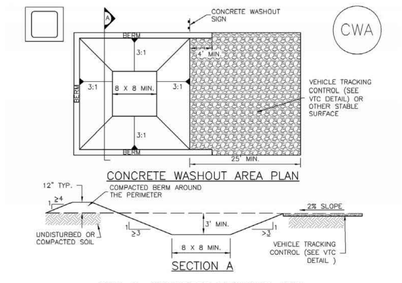
CenturyLink
DILLON PARKING STRUCTURE
166 LAKE DILLON DRIVE
DILLON, COLORADO

C-501

Drawn by: CDB

Checked by: JVH

FENCE DETAILS



CWA-1. CONCRETE WASHOUT AREA

CWA INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   -CWA INSTALLATION LOCATION.

2. DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.

3. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.

4. CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.

5. BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.

6. VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.

7. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.

8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

CWA MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'.

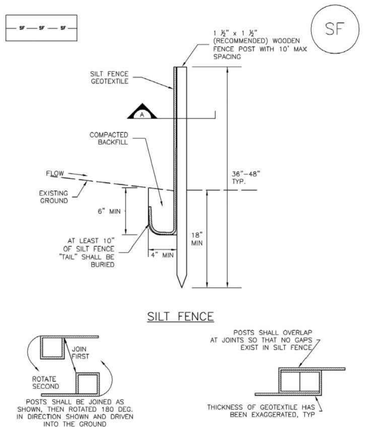
5. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.

6. THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.

7. WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAIL ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD).

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.



SF-1. SILT FENCE

SILT FENCE INSTALLATION NOTES

1. SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2–5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION.

2. A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.

3. COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.

4. SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.

5. SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC DOWN THE STAKE.

6. AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PERPENDICULAR TO THE CONTOUR TO CREATE A "J-HOOK." THE "J-HOOK" EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP RUNOFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' – 20').

7. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

SILT FENCE MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 6".

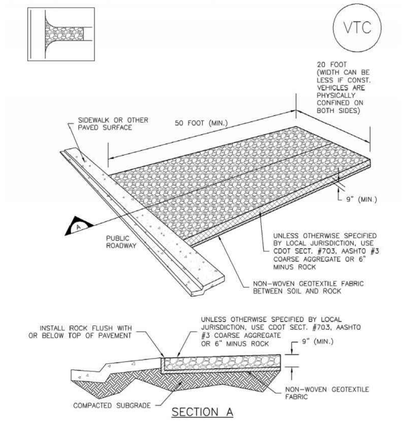
5. REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.

6. SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER SEDIMENT CONTROL BMP.

7. WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.



VTC-1. AGGREGATE VEHICLE TRACKING CONTROL

STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES

1. SEE PLAN VIEW FOR
   -LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S).
   -TYPE OF CONSTRUCTION ENTRANCE(S)/EXITS(S) (WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM).

2. CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH) WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.

3. A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.

4. STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

5. A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.

6. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

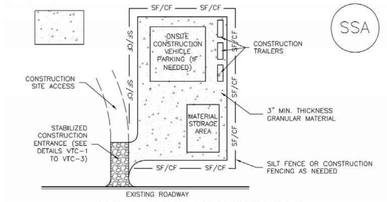
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.

5. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM CITY OF BROOMFIELD, COLORADO, NOT AVAILABLE IN AUTOCAD)



SSA-1. STABILIZED STAGING AREA

STABILIZED STAGING AREA INSTALLATION NOTES

1. SEE PLAN VIEW FOR
   -LOCATION OF STAGING AREA(S).
   -CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.

2. STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.

3. STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.

4. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.

5. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

6. ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.

STABILIZED STAGING AREA MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

STABILIZED STAGING AREA MAINTENANCE NOTES

5. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.

6. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

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Issues/Revisions:	Date:

CenturyLink
DILLON PARKING STRUCTURE
166 LAKE DILLON DRIVE
DILLON, COLORADO

C-502

Drawn by: CDB

Checked by: JVH

EROSION CONTROL DETAILS

MORTON BUILDINGS GENERAL SPECIFICATIONS

LAMINATED COLUMNS - NO. 1 OR BETTER SOUTHERN YELLOW PINE NAIL LAMINATED 3 MEMBER S4S COLUMNS NAILED 8" O.C. STAGGERED ON EACH SIDE WITH 4" NAILS.

MFS PRE-CAST CONCRETE COLUMN - MORTON BUILDINGS FOUNDATION SYSTEM IS A PRE-ENGINEERED, 10,000 PSI, STEEL REINFORCED COLUMN FOR BELOW GROUND INSTALLATION. DESIGNED TO BE MECHANICALLY FASTENED TO ABOVE GROUND NAIL LAMINATED COLUMNS. THE SYSTEM IS DESIGNED TO RESIST BOTH AXIAL AND BENDING FORCES.

FOOTINGS AND ANCHORAGE - COLUMN HOLES ARE DUG A MINIMUM DEPTH OF 4'-0" BELOW GRADE (SEE PLANS FOR DIAMETER AND DEPTH). MFS PRE-CAST CONCRETE COLUMNS ARE PLACED IN THE HOLE. CONCRETE (MINIMUM COMPRESSIVE STRENGTH 2500 PSI) IS POURED IN PLACE TO THE SPECIFIED THICKNESS (SEE PLANS FOR REQUIRED THICKNESS ABOVE AND BELOW THE COLUMN). THE COLUMN IS THEN BACKFILLED WITH SOIL AND COMPACTED AT 8" INTERVALS OR BACKFILLED WITH CONCRETE (SEE PLANS).

TREATED LUMBER -- PRESSURE PRESERVATIVE TREATED LUMBER OTHER THAN LAMINATED COLUMNS ARE NO. 1 OR BETTER SOUTHERN YELLOW PINE AND CENTER MATCHED OR NOTCHED AND GROOVED OR S4S. PRESSURE TREATMENT TO GROUND CONTACT RETENTION WITH PRESERVATIVE TREATMENT COMPLYING WITH USE CATEGORY UC4B (AWPA OR ICC-ES) AND IN COMPLIANCE WITH USEPA GUIDELINES AND STANDARDS.

FRAMING LUMBER - SIDING NAILERS ARE 2x4 S4S OR 2x6 SPF NO. 2 OR BETTER SPACED APPROXIMATELY 36" O.C. WITH ALL JOINTS STAGGERED AT ATTACHMENT TO COLUMNS. ROOF PURLINS ARE 2x4 S4S NO. 2 OR BETTER ON EDGE SPACED APPROXIMATELY 24" O.C. ALL OTHER FRAMING LUMBER IS NO. 2 OR BETTER.

ROOF TRUSSES - FACTORY ASSEMBLED WITH 18 OR 20 GAUGE GALVANIZED STEEL TRUSS PLATES AS REQUIRED AND KILN DRIED LUMBER AS SPECIFIED, IN-PLANT QUALITY CONTROL INSPECTION IS CONDUCTED UNDER THE AUSPICES OF THE TPI INSPECTION BUREAU. TRUSSES ARE DESIGNED IN ACCORDANCE WITH CURRENT STANDARDS AND SPECIFICATIONS FOR THE STATED LOADING.

SIDING & ROOFING PANELS (FLUOROFLEX 1000 ™) - 0.019" MIN., G90 GALVANIZED OR AZ55 GALVALUME STEEL WITH AN ADDITIONAL BAKED-ON 70% PVDF FINISH WITH A NOMINAL 1 MIL. PAINT THICKNESS ON EXTERIOR.

TRIM - DIE-FORMED TRIM OF 0.017" MIN., G90 GALVANIZED OR AZ55 GALVALUME STEEL ON GABLES, RIDGES, CORNERS, BASE WINDOWS, AND DOORS WITH SAME FINISH AS ROOFING OR SIDING PANELS.

GUTTERS - 5" K-STYLE, .030 HIGH TENSILE ALUMINUM GUTTER, 70% PVDF FINISH TO MATCH TRIM, ON BOTH SIDES OF THE BUILDING.

2x4F1F1 02/12

DESIGN AND EXPLANATORY NOTES

1.) ALL PLOT PLANS AND RELATED DETAILS SHALL BE PROVIDED BY OWNER UNLESS INCORPORATED AS PART OF THESE DRAWINGS.

2.) MORTON BUILDINGS GENERAL SPECIFICATIONS APPLY UNLESS INDICATED DIFFERENTLY ON SPECIFIC JOB DRAWINGS OR SUPPLEMENTAL INFORMATION.

3.) MINIMUM LIVE ROOF LOAD DESIGNS FOR CONSTRUCTION, MAINTENANCE, REPAIR, AND OTHER TEMPORARY LOADS PER SECTION 1607.12.2
   a.) ROOF PURLINS AND OTHER SECONDARY STRUCTURAL MEMBERS = 20 PSF
   b.) ROOF TRUSSES, HEADERS, COLUMNS AND OTHER PRIMARY STRUCTURAL MEMBER = 18 PSF
   c.) FOOTINGS = 12 PSF (DESIGNED FOR ROOF SNOW LOAD AND OTHER NON-TEMPORARY LOADS W/ APPROVAL FROM BUILDING OFFICIAL).

4.) NO ONE MAY ALTER ANY ENGINEERING ITEM UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED / REGISTERED ENGINEER .

5.)◆ THE PRECEDING SYMBOL IDENTIFIES ITEMS THROUGHOUT THE PLANS THAT ARE NOT PROVIDED BY MORTON BUILDINGS, INC. OR MORTON BUILDINGS' SUBCONTRACTORS AND ARE THE OWNER'S RESPONSIBILITY.

SHEET INDEX	
SHEET#	DESCRIPTION
G1 OF G1	SPECIFICATIONS & SHEET INDEX
S1 OF S6	COLUMN PLAN
S2 OF S6	TRUSS PLAN, TRUSS DRAWING, & DETAILS
S3 OF S6	ELEVATIONS
S4 OF S6	SECTIONS & DETAILS
S5 OF S6	SECTIONS & DETAILS
S6 OF S6	SECTIONS & DETAILS

CURRENT LUMBER SPECIFICATIONS (06-01-2013)		
SIZE	DESCRIPTION	BENDING VALUE Fb
2x4	NO. 2 SPF	1313 PSI
2x4	NO. 1 SYP	1500 PSI
2x4	2100f MSR SPF	2100 PSI
2x6	NO. 2 SPF	1138 PSI
2x6	NO. 1 SYP	1350 PSI
2x6	2100f MSR SPF	2100 PSI
2X6	2400 MSR SYP	2400 PSI
2x8	NO. 1 SYP	1250 PSI
2x8	2400 MSR SYP	2400 PSI
2x10	NO. 1 SYP	1050 PSI
2x10	2400 MSR SYP	2400 PSI
2x12	NO. 1 SYP	1000 PSI
2x12	2250f MSR SYP	2250 PSI
1 1/2"x16"	LAMINATED VENEER LUMBER	2800 PSI
3 1/2"x15"	GLU-LAM	1650 PSI
5 1/4"x16 1/2"	GLU-LAM	2400 PSI
5 1/4"x19 1/2"	GLU-LAM	2400 PSI

GOVERNING CODE:
2012 IBC AND SUMMIT COUNTY BUILDING CODE AMENDMENTS

BUILDING DESIGN CRITERIA	
USE GROUP	S-1
CONSTRUCTION TYPE	VB
RISK CATEGORY	II
BUILDING AREA	1380 SQ. FT.
ROOF SNOW LOAD *	70 PSF
GROUND SNOW LOAD	70 PSF
WIND SPEED (V_{ASD})	90 MPH

ROOF SNOW LOAD = GROUND SNOW LOAD
PER SUMMIT COUNTY BUILDING CODE

OFFICE:
MONTROSE, CO

JOB NO.
145-097202

CENTURYTEL SERVICE GROUP, LLC
DILLON, CO

DRAWN BY:	BISHOP
DATE:	4/13/2020
CHECKED BY:	CES
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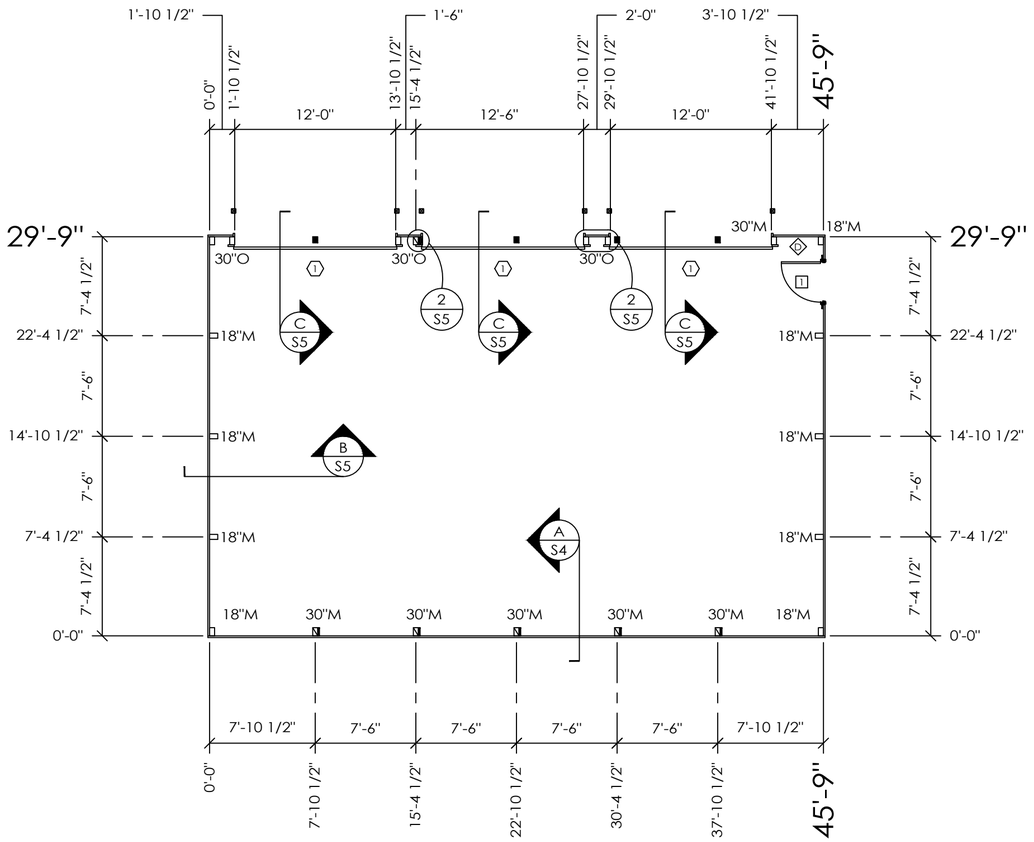
REVISED DATE:	----
REVISED DATE:	----
REVISED DATE:	----
REVISED DATE:	----

SCALE: AS NOTED

SHEET NO.
G1 OF G1



COLUMN PLAN

SCALE: 2' 1' 4' 8' 16'

N

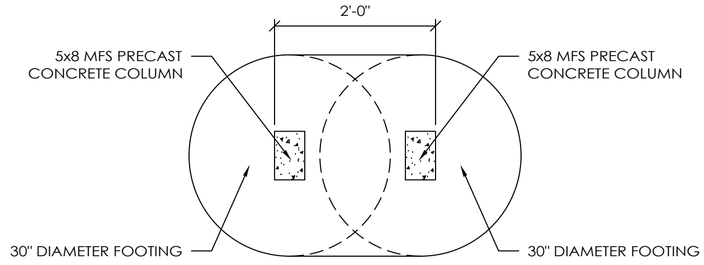
COLUMN PLAN LEGEND

- ▯ - 3-2x8 LAMINATED COLUMN LOCATION
- ▨ - 3-2x8 LAMINATED COLUMN LOCATION W/ ADDITIONAL 2x8 LAMIANTE
- ■ - HEADERED TRUSS LOCATION
- 1 - 3068 MB910 PLAIN FLAT LEAF WALKDOOR, IN SWING, LEFT HINGE WITH KEYPAD ENTRY (RESIDENTIAL) & CLOSER
- 1 - (3) 12'-2" x 14'-0" OVERHEAD DOORS W/ 4" x 4" JAMB PROTECTORS
- - BUILDING SEAL PACKAGE
- - ALL EXTERIOR STEEL FASTENED W/ STAINLESS STEEL SCREWS
- D - DOUBLE LAYER 3/4" OSB SHEARWALL LOCATION (SEE DETAILS ON SHEET S6)

18"M - 18" DIAMETER FOOTING WITH 4' EMBEDMENT TO BOTTOM OF 21" THICK CONCRETE PAD (2500 PSI MINIMUM). 20" BELOW BOTTOM OF PRECAST CONCRETE COLUMN AROUND EXPOSED REBAR CAGE AND 3/4"x14" THREADED ROD WITH AN ADDITIONAL MINIMUM 1" ABOVE BOTTOM OF PRECAST CONCRETE COLUMN. PLACE CONCRETE BELOW AND ABOVE BOTTOM OF LOWER COLUMN IN ONE OPERATION.

30"M - 30" DIAMETER FOOTING WITH 4' EMBEDMENT TO BOTTOM OF 21" THICK CONCRETE PAD (2500 PSI MINIMUM). 20" BELOW BOTTOM OF PRECAST CONCRETE COLUMN AROUND EXPOSED REBAR CAGE AND 3/4"x14" THREADED ROD WITH AN ADDITIONAL MINIMUM 1" ABOVE BOTTOM OF PRECAST CONCRETE COLUMN. PLACE CONCRETE BELOW AND ABOVE BOTTOM OF LOWER COLUMN IN ONE OPERATION.

30"O - COMBINED 30" DIAMETER OVAL FOOTING WITH 4' EMBEDMENT (SEE DETAIL #1 BELOW).



COMBINED FOOTING DETAIL #1

SCALE: 3/4" = 1'-0"

(TYPICAL DETAIL - APPLIES TO VARIOUS COLUMN SPACINGS - SEE COLUMN PLAN ABOVE)

OFFICE: MONTROSE, CO

JOB NO. 145-097202

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DILLON, CO

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COLORADO LICENSED CHRISTOPHER E. SOLLIN 24802 PROFESSIONAL ENGINEER

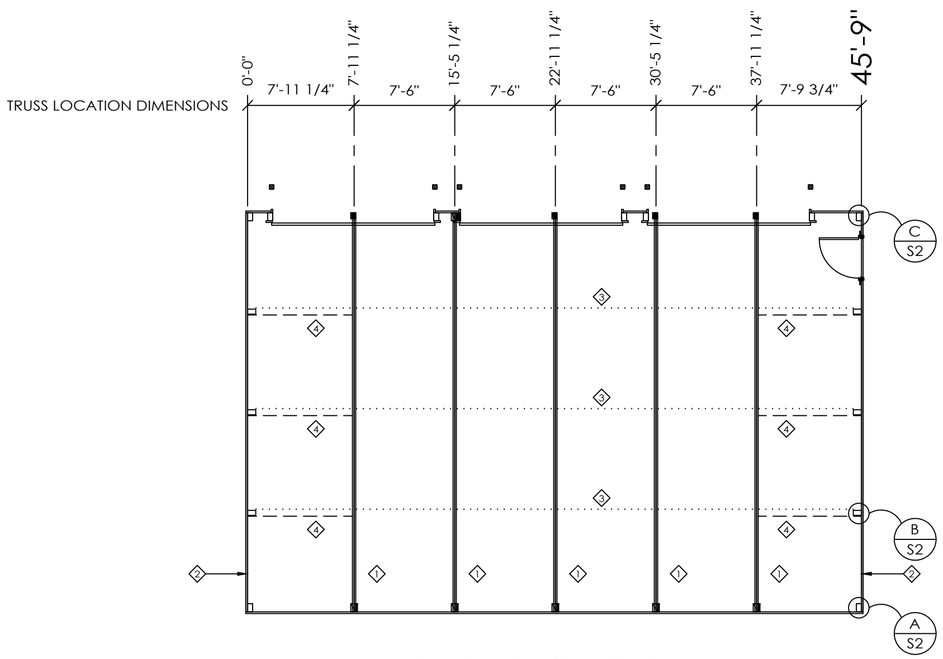
4/21/2020

SCALE: AS NOTED

SHEET NO. S1 OF S6

DESIGN AND EXPLANATORY NOTES

1.) TRUSSES ARE USED AS A DOUBLE MEMBER TRUSS ASSEMBLY WHERE NOTED ON THE TRUSS/BRACING PLAN ON SHEET S2. TRUSSES FASTENED TOGETHER FROM EACH SIDE W/ 0.131" x 2 3/4" R.S. GUN NAILS STAGGERED @ 8" O.C. ALONG TOP CHORD AND WEB MEMBERS, AND @ 24" O.C. ALONG LOWER CHORD.



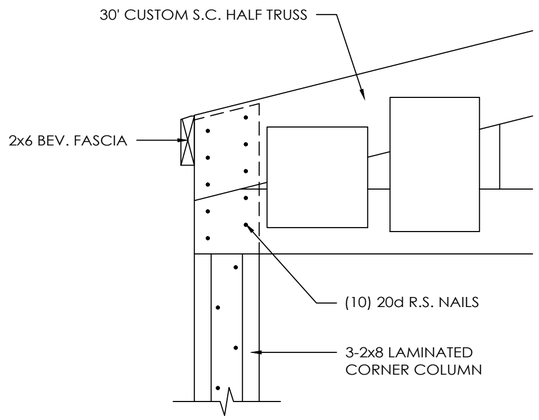
TRUSS/BRACING PLAN

SCALE: 1' 4' 2' 8' 16'

N

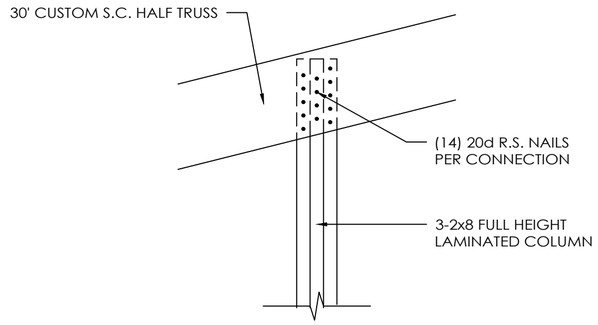
TRUSS/BRACING PLAN LEGEND

- 1 - DOUBLE 30' CUSTOM S.C. HALF TRUSS
- 2 - 30' CUSTOM S.C. HALF TRUSS
- 3 - 2x4 TRUSS TIE
- 4 - 2x6 DIAGONAL END BRACING



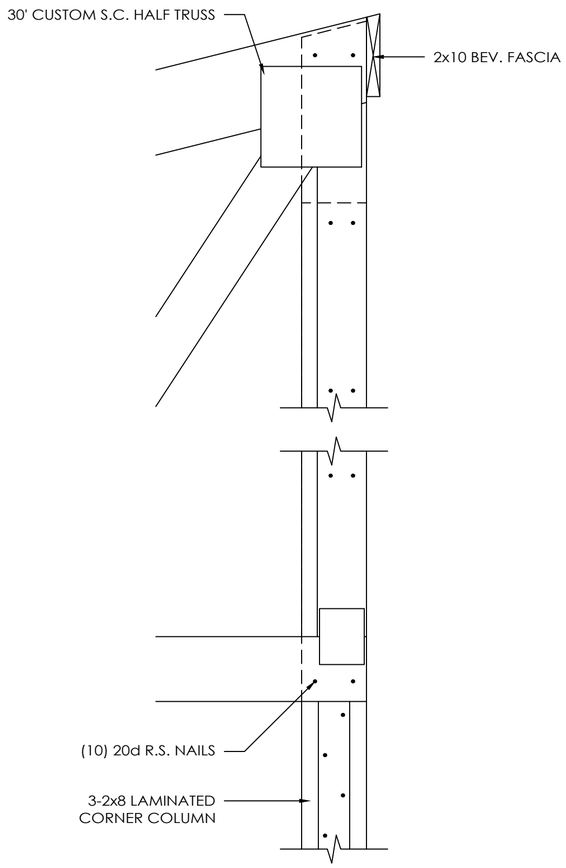
DETAIL A

SCALE: 1" = 1'-0"



DETAIL B

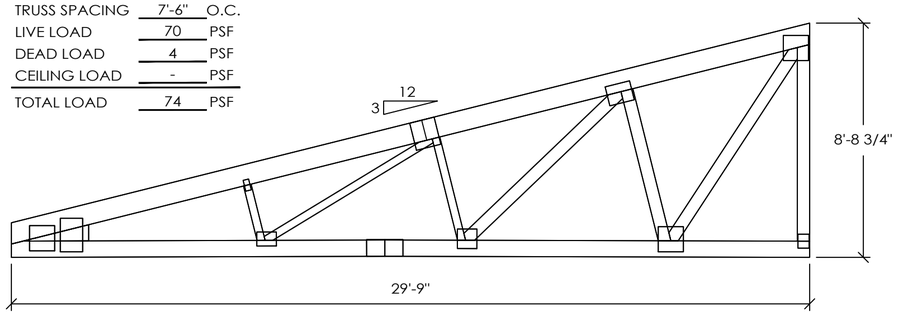
SCALE: 1" = 1'-0"



DETAIL C

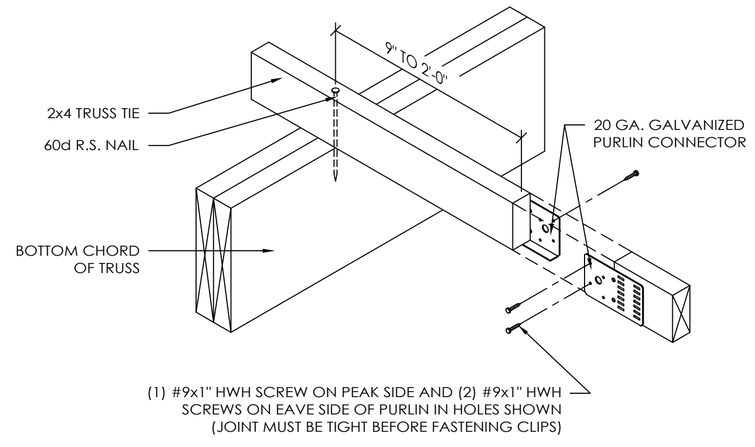
SCALE: 1" = 1'-0"

TRUSS SPACING	7'-6"	O.C.
LIVE LOAD	70	PSF
DEAD LOAD	4	PSF
CEILING LOAD	-	PSF
TOTAL LOAD	74	PSF



30' CUSTOM S.C. HALF TRUSS

SCALE: 1/4" = 1'-0" SEE NOTE #1



2x4 TRUSS TIE DETAIL

SCALE: 1 1/2" = 1'-0"

OFFICE: MONTROSE, CO

JOB NO. 145-097202

CENTURYTEL SERVICE GROUP, LLC

DILLON, CO

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REVISED DATE:	----
REVISED DATE:	----

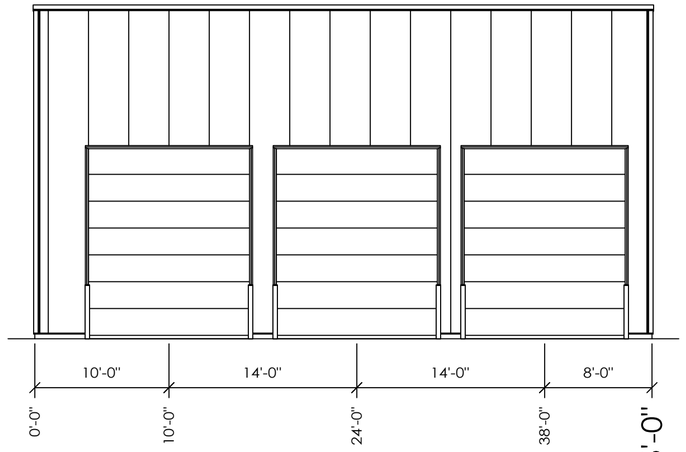
COLORADO LICENSED
CHRISTOPHER E. SOLLIN
24802
PROFESSIONAL ENGINEER
4/21/2020

SCALE: AS NOTED

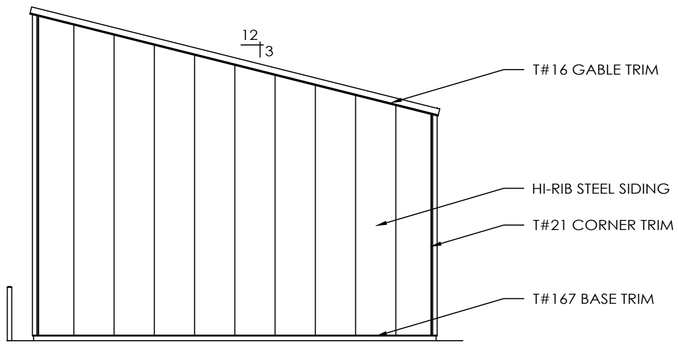
SHEET NO. S2 OF S6

DESIGN AND EXPLANATORY NOTES

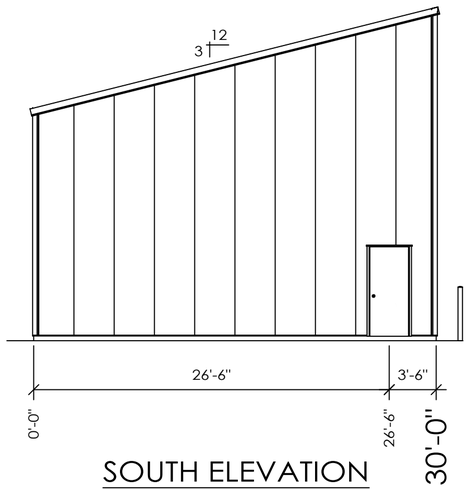
1.) EXTERIOR DOOR LOCATIONS ARE TAKEN FROM THE EXTERIOR FACE OF THE NAILERS AND ARE TO THE CENTER OF THE DOOR UNITS. VERIFY ALL DOOR LOCATIONS WITH THE OWNER.



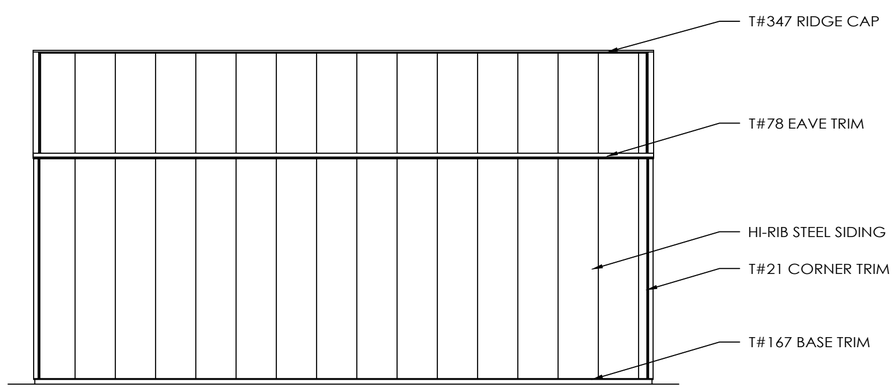
EAST ELEVATION



NORTH ELEVATION



SOUTH ELEVATION



WEST ELEVATION

SCALE: 1' 2' 4' 8' 16'

OFFICE: MONTROSE, CO

JOB NO. 145-097202

CENTURYTEL SERVICE GROUP, LLC

DILLON, CO

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REVISED DATE:	----
REVISED DATE:	----

COLORADO LICENSED CHARLES E. ROLLIN 24802 PROFESSIONAL ENGINEER

SCALE: AS NOTED

SHEET NO. S3 OF S6

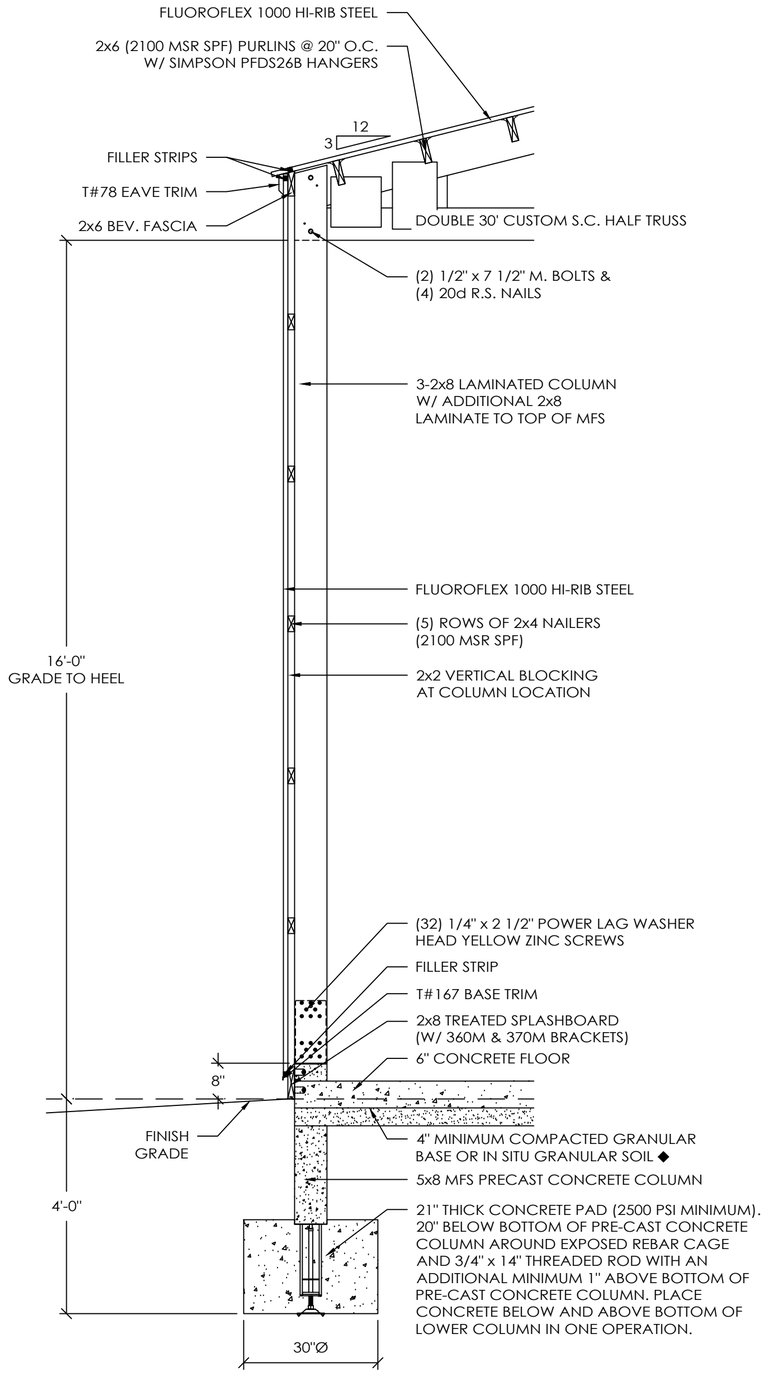
DESIGN AND EXPLANATORY NOTES

1. FOOTINGS ARE DESIGNED FOR A 2000 PSF SOIL BEARING CAPACITY. LOCAL CONDITIONS MAY REQUIRE MODIFICATIONS.

2. CONCRETE FLOOR NOTES:
   a. 3500 PSI, 5 1/2 BAG MIX CONCRETE.
   b. SLOPE GRADE AWAY FROM BUILDING @ 1" PER FOOT FOR A MINIMUM DISTANCE OF 10' PLUS OVERHANG WIDTH.
   c. A VAPOR RETARDER IS NOT MANDATED PER IBC SECTION 1907 EXCEPTION 3. UNLESS THE FLOOR WILL BE COVERED BY MOISTURE SENSITIVE FLOORING MATERIALS OR IMPERMEABLE FLOOR COATINGS OR WHERE THE FLOOR WILL BE IN CONTACT WITH ANY MOISTURE SENSITIVE EQUIPMENT OR PRODUCT.
   d. CONTRACTION JOINTS UNIFORMLY SPACED 18' O.C. OR LESS.

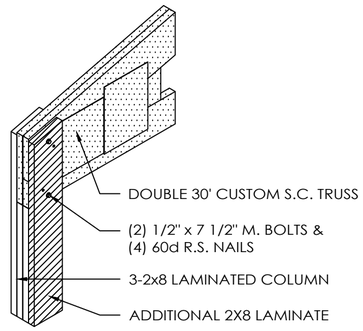
3. PRIOR TO PLACING THE CONCRETE FOOTINGS, HAND TAMP THE BOTTOM 2"-3" OF LOOSE SOIL TO CONSOLIDATE. IF THE DRILLED HOLE CONTAINS MORE THAN 3" OF LOOSE SOIL, REMOVE EXCESS SOIL TO A UNIFORM THICKNESS OF 2"-3", HAND TAMP AND PROCEED WITH CONCRETE FOOTING PLACEMENT.

4. DO NOT PLACE CONCRETE FOOTING THROUGH MORE THAN 3" OF STANDING WATER. IF MORE THAN 3" OF STANDING WATER IS PRESENT IN THE FOOTING HOLE CONTACT THE STRUCTURAL ENGINEER OF RECORD FOR INSTALLATION INSTRUCTIONS.



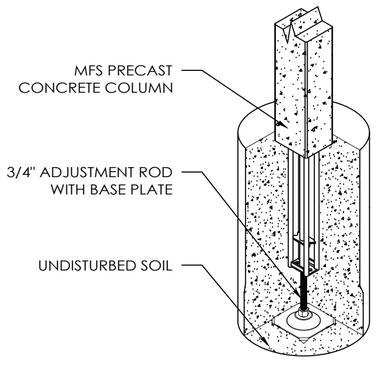
SIDEWALL SECTION A

SCALE: 1/2" = 1'-0"



TRUSS/COLUMN CONNECTION DETAIL

SCALE: 1/2" = 1'-0"



LOWER COLUMN INSTALLATION

1. INSTALL PRECAST CONCRETE COLUMN W/ADJUSTMENT ROD & BASE PLATE IN THE AUGERED HOLE.

2. PLUMB PRECAST CONCRETE COLUMN IN BOTH DIRECTIONS

3. ADJUST HEIGHT UP OR DOWN WITH ADJUSTMENT HEX ROD

4. POUR READI-MIX CONCRETE INTO THE HOLE AS SPECIFIED.

5. BACKFILL AND COMPACT THE ANNULAR SPACE AROUND THE COLUMN TO GRADE WITH SOIL AUGERED FROM THE SITE.

LOWER COLUMN ISOMETRIC DETAIL

SCALE: 3/4" = 1'-0"

OFFICE: MONTROSE, CO

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DILLON, CO

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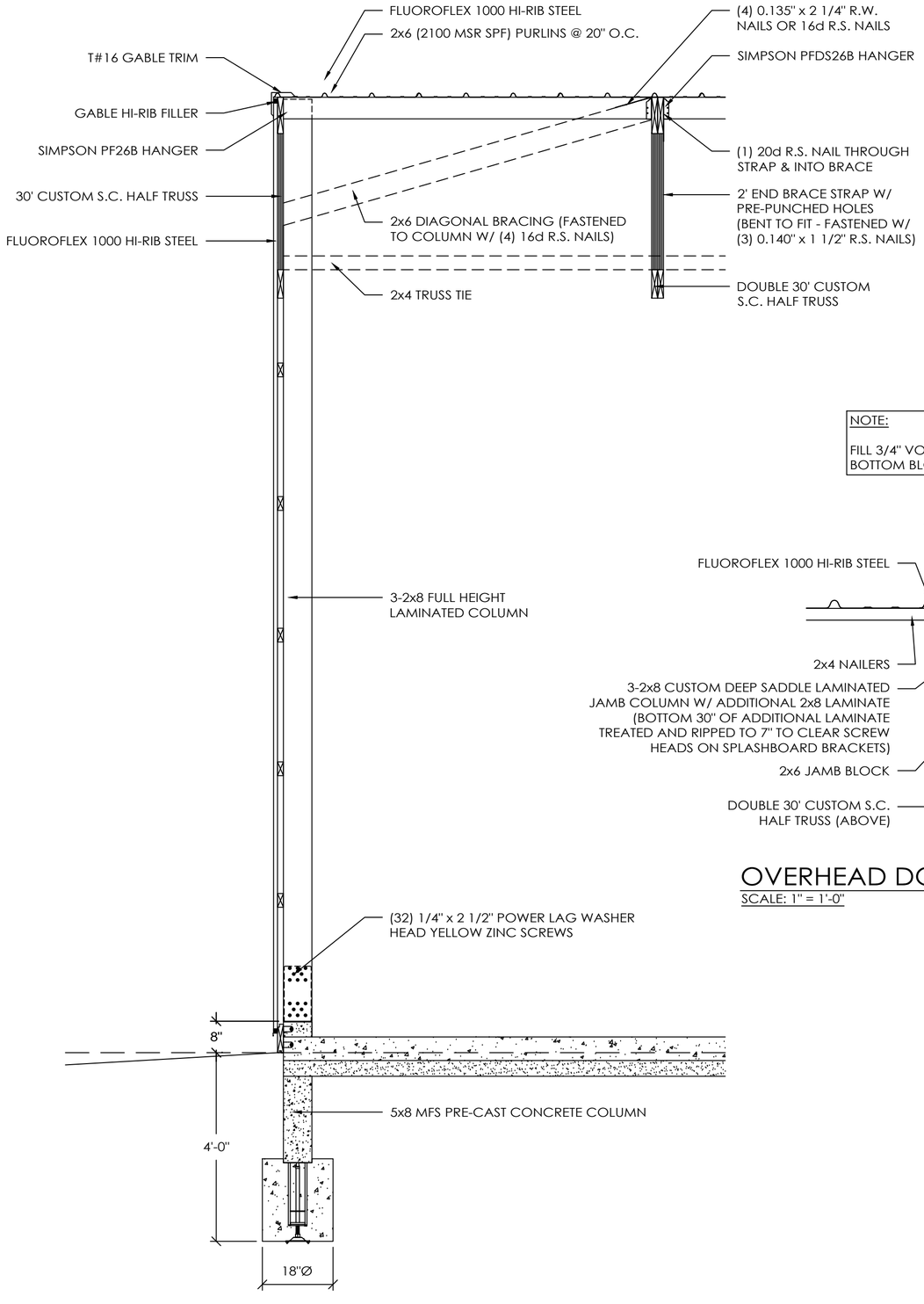
COLORADO LICENSED
CHRISTOPHER S. ROLLIN
24802
PROFESSIONAL ENGINEER

SCALE: AS NOTED

SHEET NO.
S4 OF S6

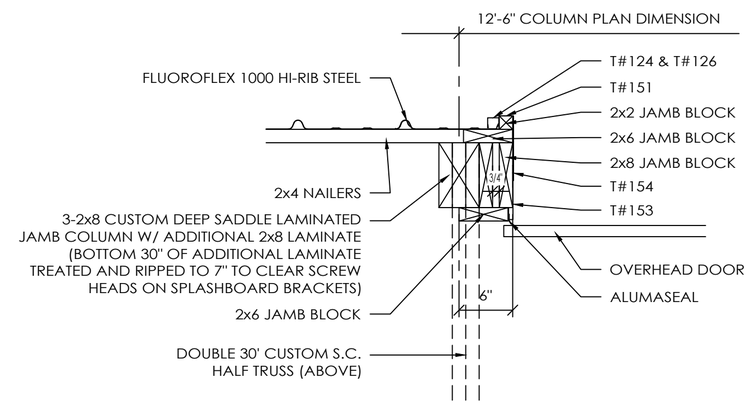


ENDWALL SECTION B

SCALE: 1/2" = 1'-0"

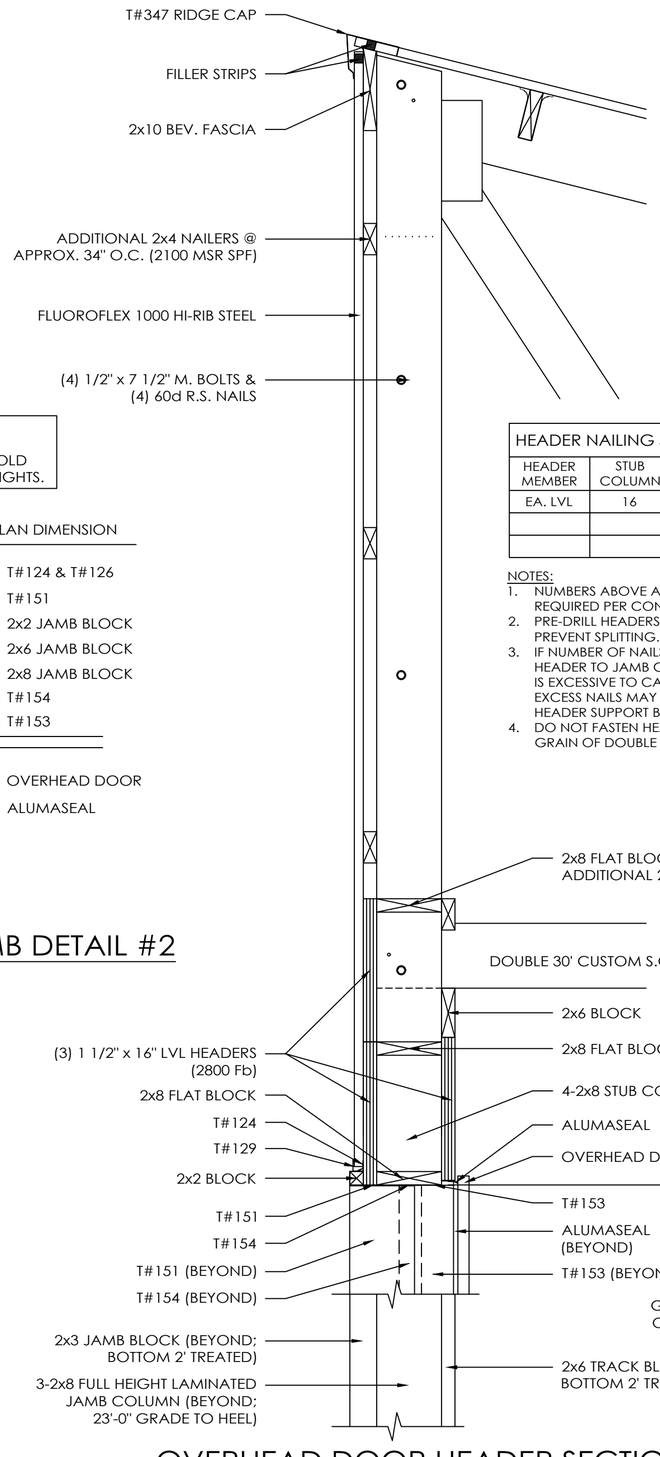
NOTE:

FILL 3/4" VOID WITH 1x6x12" BLOCKS (HOLD BOTTOM BLOCK 1/2" ABOVE FLOOR HEIGHTS.



OVERHEAD DOOR BOX JAMB DETAIL #2

SCALE: 1" = 1'-0"



OVERHEAD DOOR HEADER SECTION C

SCALE: 1" = 1'-0"

HEADER NAILING SCHEDULE

HEADER MEMBER	STUB COLUMN	JAMB COLUMN
EA. LVL	16	16

NOTES:
1. NUMBERS ABOVE ARE 20d R.S. NAILS REQUIRED PER CONNECTION.
2. PRE-DRILL HEADERS AS REQUIRED TO PREVENT SPLITTING.
3. IF NUMBER OF NAILS REQUIRED FOR HEADER TO JAMB COLUMN CONNECTION IS EXCESSIVE TO CAUSE SPLITTING, THE EXCESS NAILS MAY BE INSTALLED IN HEADER SUPPORT BLOCKING.
4. DO NOT FASTEN HEADERS INTO END GRAIN OF DOUBLE TRUSSES.

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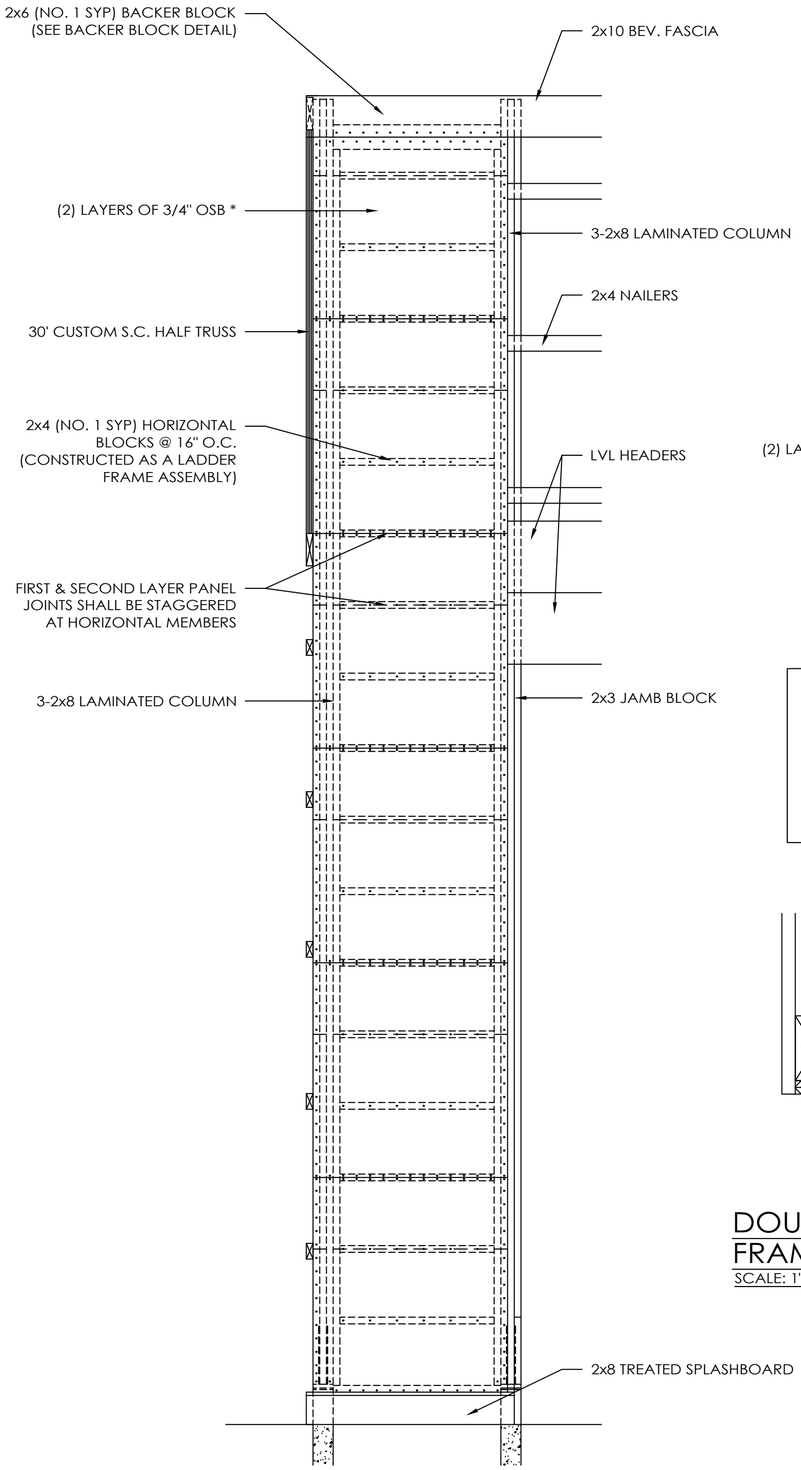
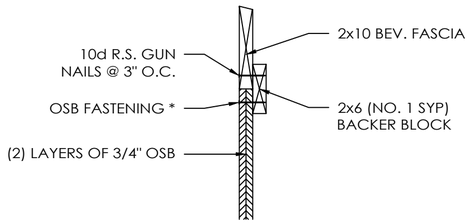
SCALE: AS NOTED

SHEET NO. S5 OF S6



DOUBLE LAYER 3/4" OSB SHEARWALL FRAMING ELEVATION

SCALE: 1/2" = 1'-0"

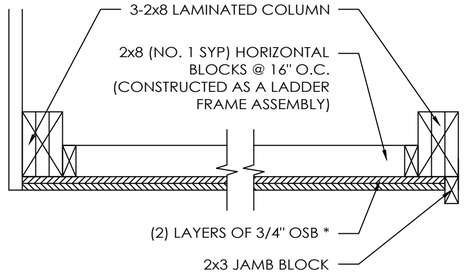


2x6 BACKER BLOCK DETAIL

SCALE: 1" = 1'-0"

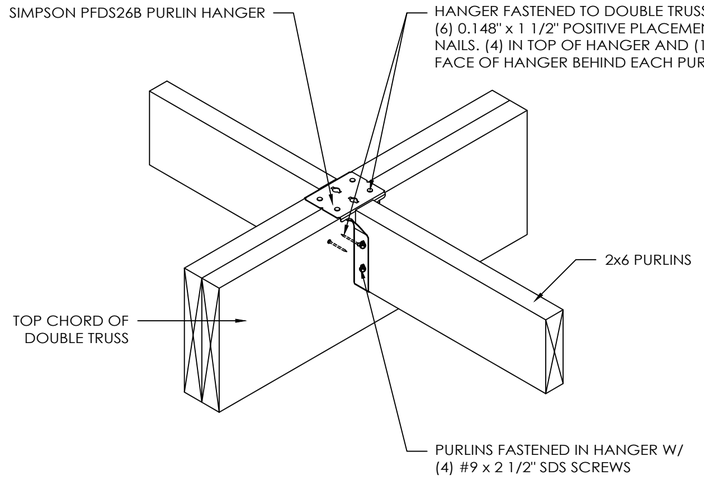
* - OSB FASTENING INSTRUCTIONS:

1.) FIRST LAYER OF 3/4" OSB FASTENED W/ 8d NAILS@ 3" O.C. ALONG PANEL EDGES & @ 6" O.C. ALONG INTERMEDIATE FRAMING.
2.) SECOND LAYER OF 3/4" OSB FASTENED W/ 10d NAILS @ 3" O.C. ALONG PANEL EDGES & @ 6" O.C. ALONG INTERMEDIATE FRAMING.



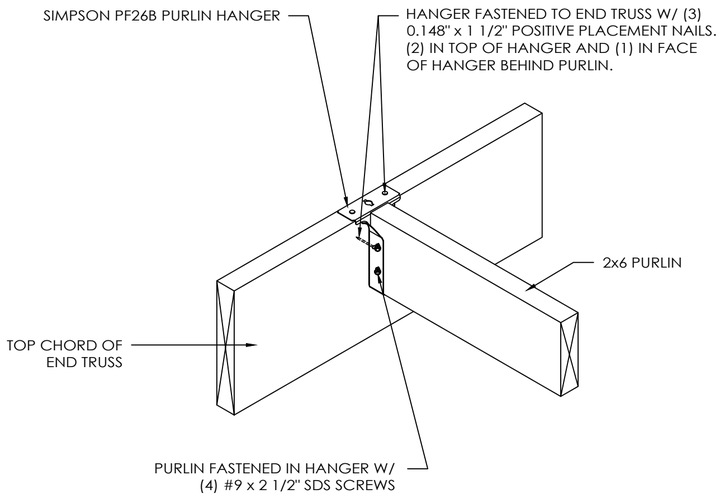
DOUBLE LAYER 3/4" OSB SHEARWALL FRAMING PLAN DETAIL

SCALE: 1" = 1'-0"



2x6 PURLIN SADDLE HANGER DETAIL

SCALE: 1 1/2" = 1'-0"



2x6 PURLIN HANGER DETAIL

SCALE: 1 1/2" = 1'-0"

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DILLON, CO

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SCALE: AS NOTED

SHEET NO. S6 OF S6

Resolution PZ 06-20, Series of 2020

Color Palette

CenturyLink Accessory Structure Colors: Beige building with Brown trim and doors

CenturyLink Accessory Structure Color Samples

RESOLUTION NO. PZ 06-20
Series of 2020

A RESOLUTION APPROVING A LEVEL III DEVELOPMENT PERMIT FOR AN ACCESSORY STRUCTURE ON COMMERCIALLY ZONED PROPERTY LOCATED AT 166 LAKE DILLON DRIVE.

WHEREAS, the Planning and Zoning Commission for the Town of Dillon ("**Planning Commission**") has received a Level III Development Application from CenturyLink for the construction of an Accessory Structure greater than two hundred (200) square feet on the property located at 166 Lake Dillon Drive, a commercially-zoned area; and

WHEREAS, the Planning Commission has determined that the Application is complete; and

WHEREAS, following the required notice, a public hearing on the Application was held on June 3, 2020, before the Planning Commission; and

WHEREAS, following the public hearing the Planning Commission has made certain findings of fact regarding the Application and has determined that certain conditions which are reasonable and necessary to and relate to impacts created by the development should attach to the approval of the Application.

NOW, THEREFORE, BE IT RESOLVED BY THE PLANNING COMMISSION OF THE TOWN OF DILLON, COLORADO, AS FOLLOWS:

Section 1. That the Planning and Zoning Commission of the Town of Dillon ("**Planning Commission**"), following the required notice, held a public hearing on the Application on June 3, 2020, and following said public hearing makes the following findings of fact:

A. That the Application is complete.

B. All other required approvals for the development application were issued and remain valid and effective.

C. The proposed development substantially complies with all applicable requirements of this Code, and applicable Town regulations, standards, and ordinances.

Section 2. The Planning Commission hereby approves the Level III Development Application for the construction of an Accessory Structure greater than two hundred (200) square feet on the property located at 166 Lake Dillon Drive, a non-residential zoned area, with the following conditions:

A. That the Town Manager may approve additional minor changes to the Application that do not change the character or intent of the Application as approved by this resolution.

B. That the Applicant shall provide the Town with a drainage plan that provides stormwater detention for the improvement area including the new accessory structure and the hardscape areas associated with the application.

C. No trees shall be cut down for the installation of the proposed cedar fence.

D. The Applicant shall obtain a Grading and Excavation Permit for the project.

APPROVED AND ADOPTED THIS 3rd DAY OF JUNE, 2020, BY THE PLANNING AND ZONING COMMISSION OF THE TOWN OF DILLON, COLORADO.

TOWN OF DILLON
a Colorado municipal corporation

By: _____
Teresa England, Chair

ATTEST:

_____
Michelle Haynes, Secretary

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