

# CENTURYLINK DILLON

166 LAKE DILLON DRIVE  
DILLON, CO

## CIVIL GENERAL NOTES:

- 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.
- 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.
- EXISTING UTILITIES SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE ENGINEER. PRIOR TO EXCAVATING, THE CONTRACTOR SHALL FIELD LOCATE (INCLUDING DEPTHS) BY POTHOLES ALL EXISTING UTILITIES WHICH MAY CONFLICT WITH THE PROPOSED CONSTRUCTION. FIBER OPTIC AND BURIED PHONE LINES SHALL BE EXPOSED BY AIR POTHOLES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE REPAIR OF DAMAGE TO UTILITIES SHOWN HEREON AT HIS OWN EXPENSE.
- 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.
- 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.
- 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.
- 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.
- CONTRACTOR SHALL MINIMIZE CONSTRUCTION RELATED MUD AND DEBRIS ON SURFACES ADJACENT TO THE PROJECT SITE - LANDSCAPE, STREETS, DRIVES AND SIDEWALKS.
- EQUIPMENT AND MATERIALS NOT INCORPORATED IN PROJECT SCOPE SHALL NOT BE STORED OR STOCKED ON SITE.
- THE CONTRACTOR SHALL ADHERE TO THE NOISE ORDINANCE OF THE CONTROLLING MUNICIPAL AUTHORITY.
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE RIM OF ALL EXISTING AND PROPOSED MANHOLES, CLEANOUTS AND INLETS TO FINISHED GRADE.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED CITY, COUNTY AND/OR STATE PERMITS PRIOR TO CONSTRUCTION.
- 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.
- 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.
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL TRASH, DEBRIS AND EXCAVATED MATERIAL GENERATED AS A RESULT OF HIS/HER WORK.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- SITE BENCHMARK: NORTH PROPERTY CORNER, #3 REBAR WITHOUT CAP. ELEVATION = 9116.66' (NAVD 88 DATUM)
- 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.
- ALL EARTHWORK AND GRADING TO BE IN CONFORMANCE WITH THE GEOTECHNICAL STUDY REPORT PREPARED BY \_\_\_\_\_ FOR THE \_\_\_\_\_ SITE DATED \_\_\_\_\_. PROJECT # \_\_\_\_\_.

LEGEND		EXISTING LEGEND	
	AREA TO BE DEMOLISHED		PROPERTY LINE
	FENCE TO BE REMOVED		ASPHALT PAVEMENT
	ASPHALT PAVEMENT		CONCRETE
	CONCRETE		EASEMENT
	TOPO. CONTOUR		TOPO. CONTOUR
	6' CEDAR PRIVACY FENCE		POWER POLE
	SPOT ELEVATION		TEMP. CONST. FENCE
	SPOT ELEV. - MATCH EXISTING		DEGRADED BARBWIRE FENCE
	FLOW ARROW		OVERHEAD ELECTRIC LINE
	FLOW LINE		UNDERGROUND ELEC. LINE
	LIMITS OF CONSTRUCTION		FIBER OPTIC LINE
	SILT FENCE		BOLLARD
	CONCRETE WASHOUT AREA		MANHOLE
	STABILIZED STAGING AREA		SCREEN WALL
	VEHICLE TRACKING CONTROL		CONIFEROUS TREE

## CIVIL DRAWING INDEX:

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## GRADING AND EROSION CONTROL NOTES

- 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.
- THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL DUST ABATEMENT AND EROSION CONTROL MEASURES AS SPECIFIED BY THE SWMP.
- 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.
- 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.
- 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 BMP'S 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.
- 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.
- PAVED SURFACES ADJACENT TO THE SITE SHALL BE SWEEPED 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.
- EROSION/SEDIMENT CONTROL DEVICES PER SWMP PLANS SHALL BE PLACED AS CONSTRUCTION SEQUENCING AND ACCESS DICTATES.

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**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:
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CenturyLink  
DILLON PARKING STRUCTURE  
166 LAKE DILLON DRIVE  
DILLON, COLORADO

C-100



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.

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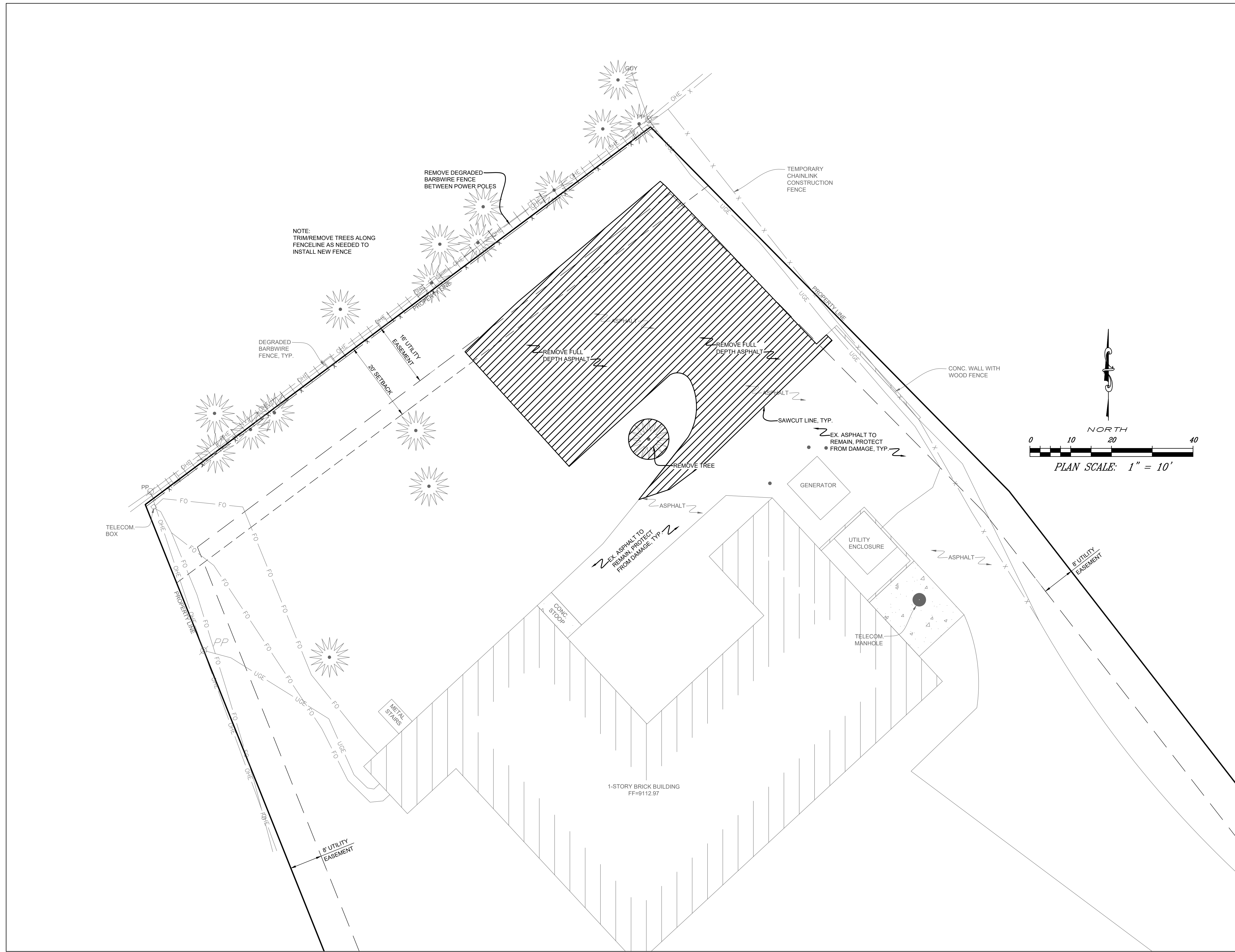
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CIVIL COVER SHEET





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



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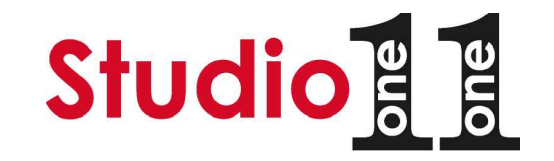
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 DILLON PARKING STRUCTURE  
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 DILLON, COLORADO

**C-200**

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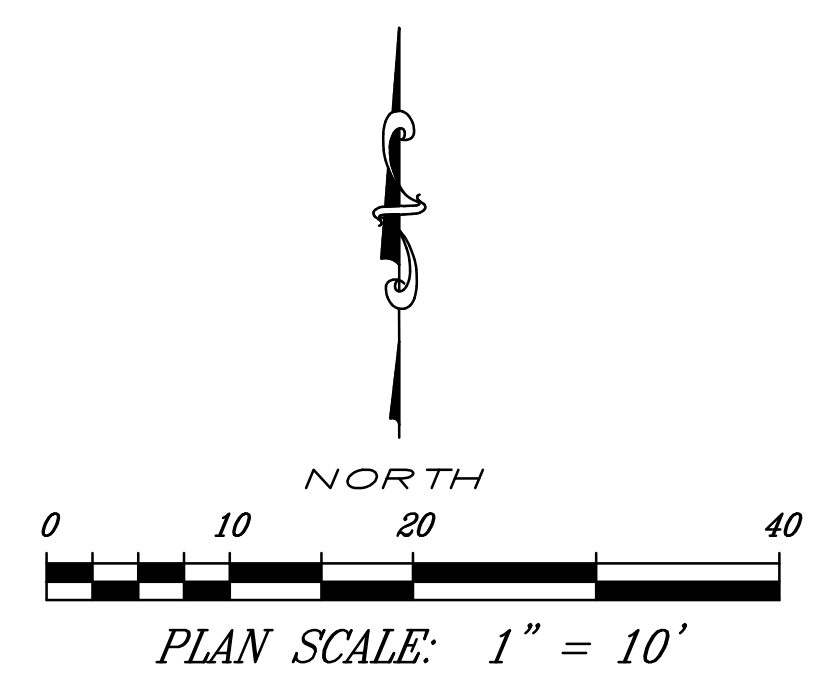
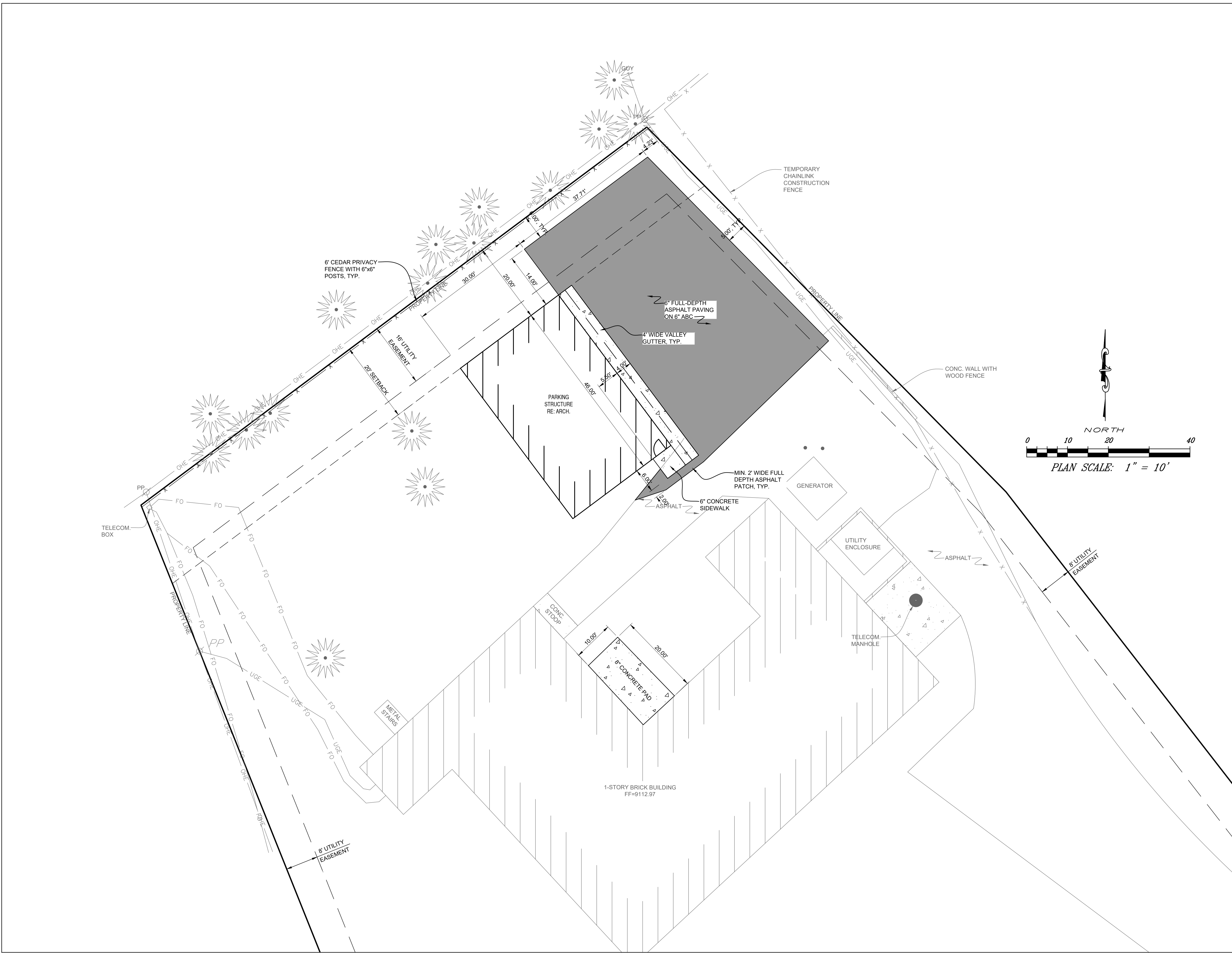
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DEMOLITION PLAN



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



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 DILLON, COLORADO

**C-300**

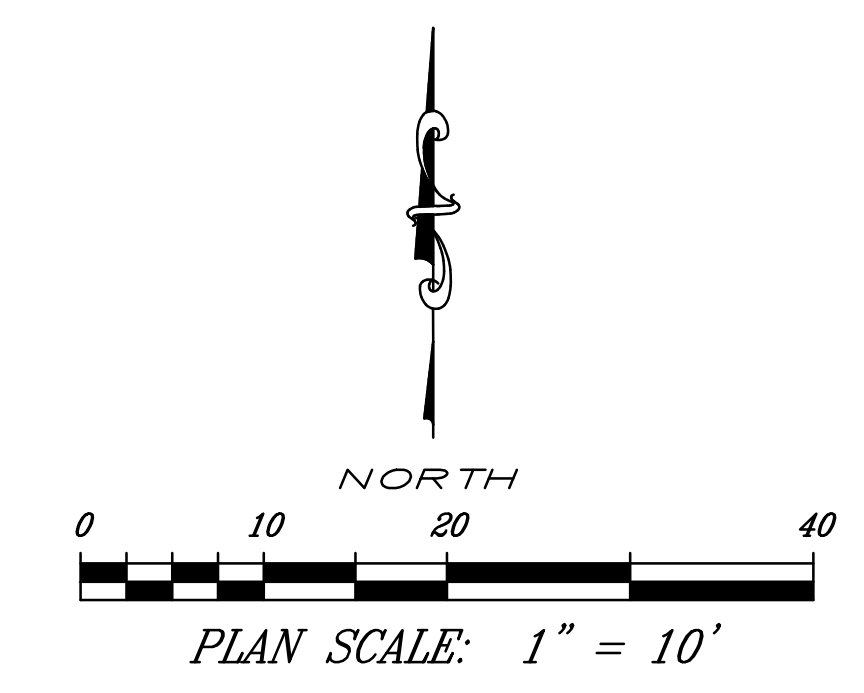
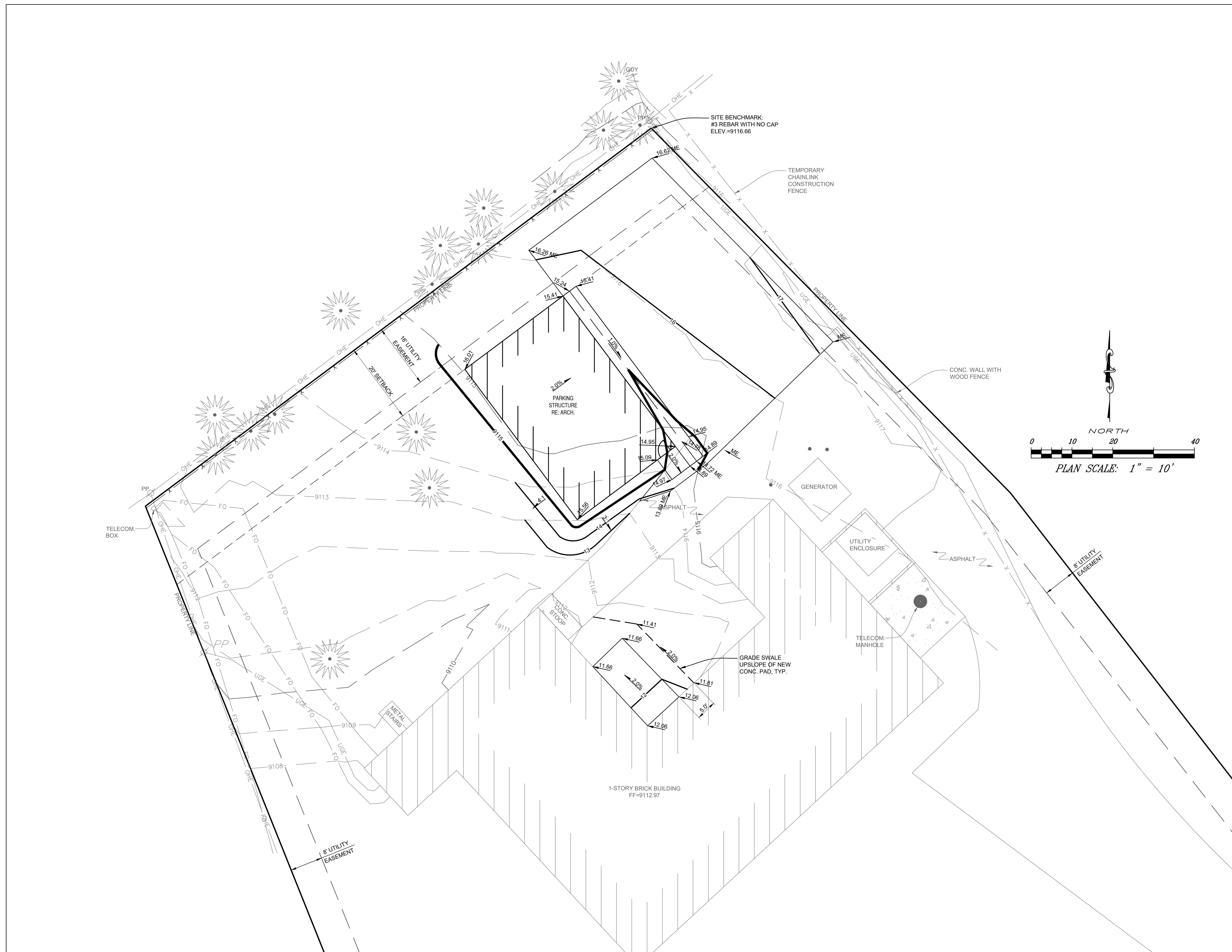
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SITE PLAN



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



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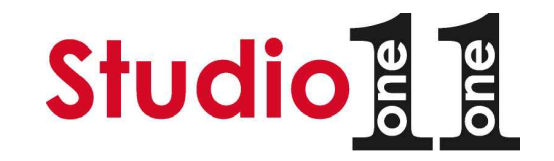

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**DILLON PARKING STRUCTURE**  
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 DILLON, COLORADO

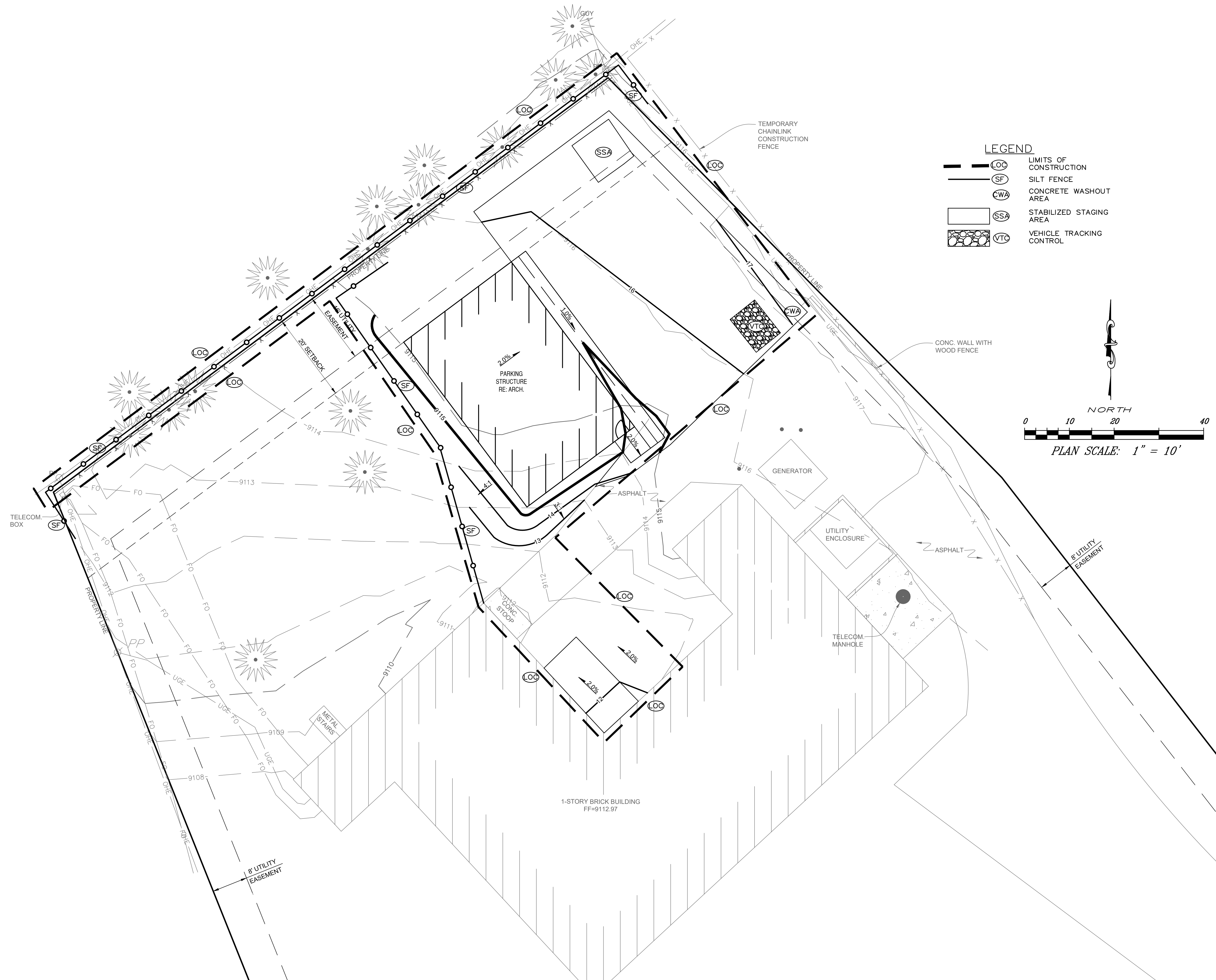
# C-400

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GRADING PLAN



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

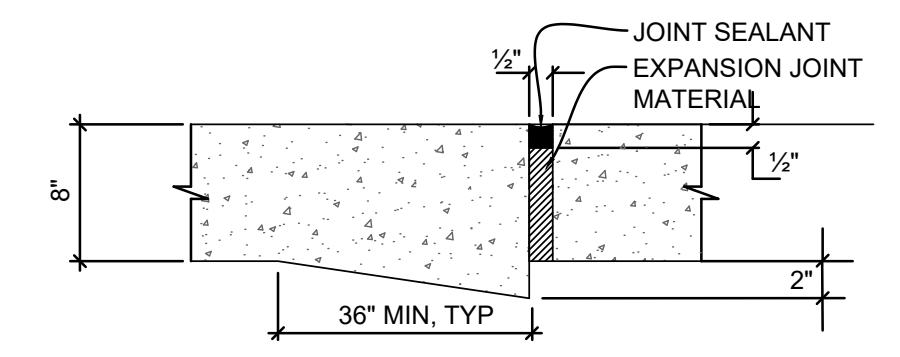


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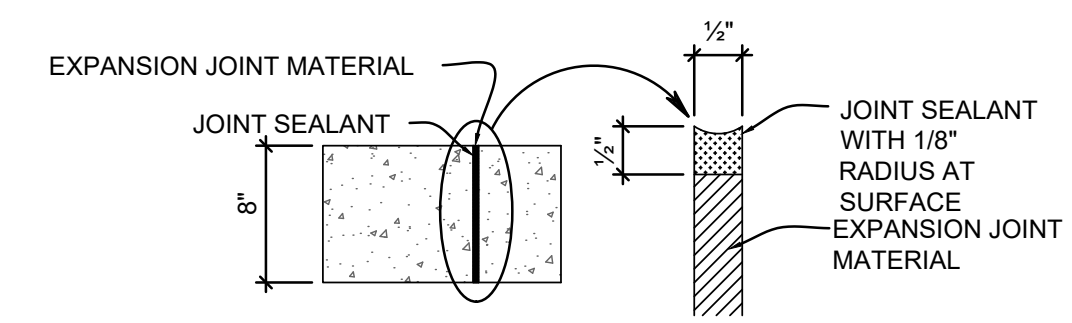
**CenturyLink**  
 DILLON PARKING STRUCTURE  
 166 LAKE DILLON DRIVE  
 DILLON, COLORADO

**C-401**

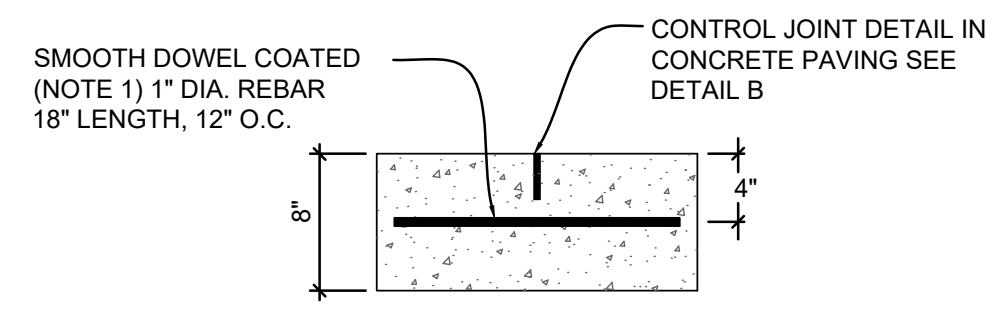
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**EROSION CONTROL PLAN**



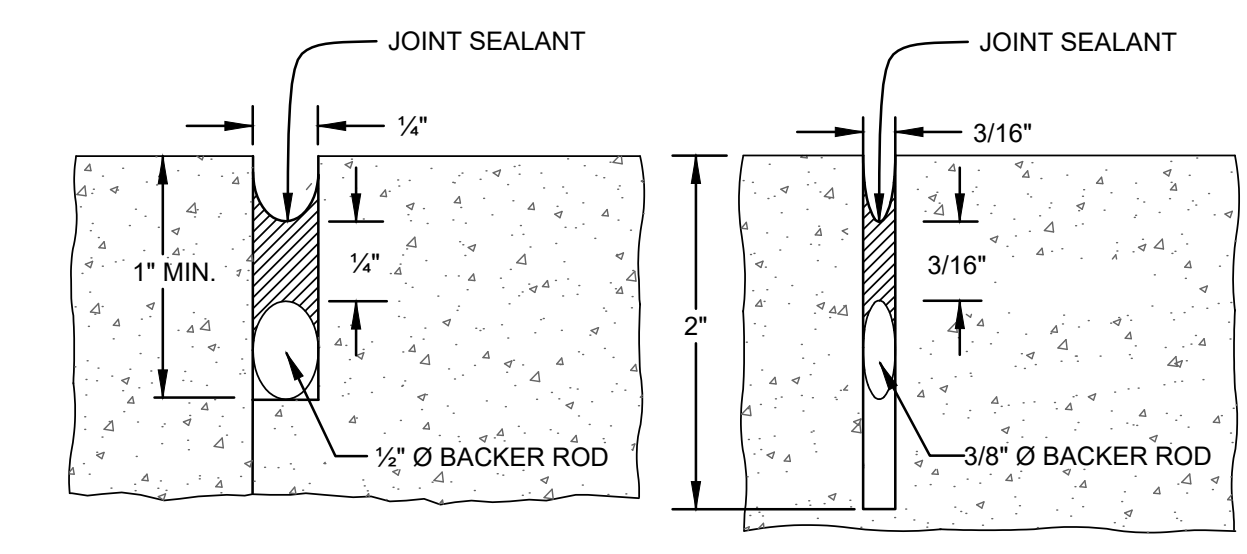
**TYPE A-EXPANSION/ISOLATION JOINT**  
TO BE USED AT JOINT WITH ADJACENT STRUCTURE



**TYPE B-EXPANSION JOINT**  
IN CONCRETE PAVING



**TYPE C-TRANSVERSE CONTROL JOINT**  
IN CONCRETE PAVING

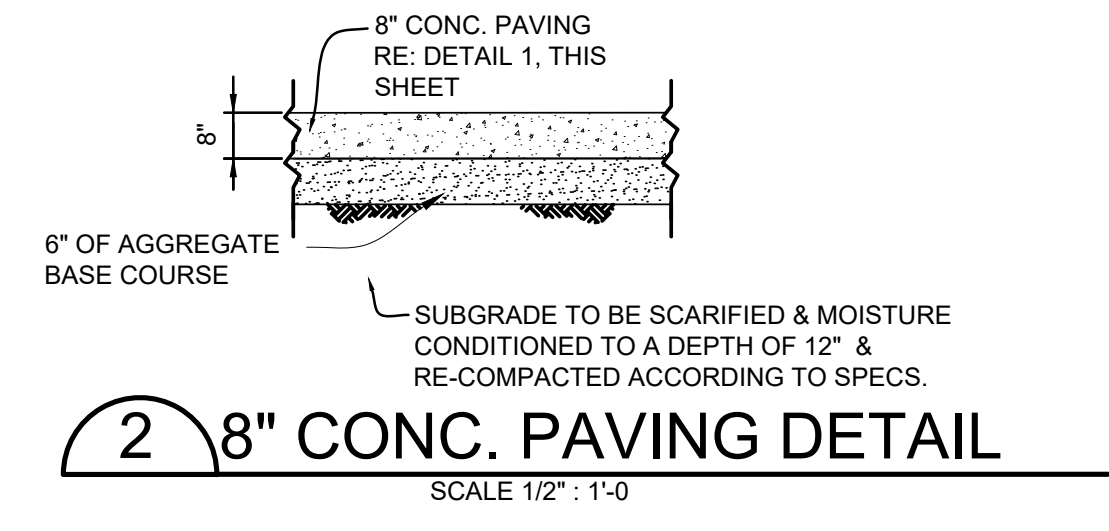


**DETAIL A - CONSTRUCTION JOINT**  
**DETAIL B - SAWED JOINT**

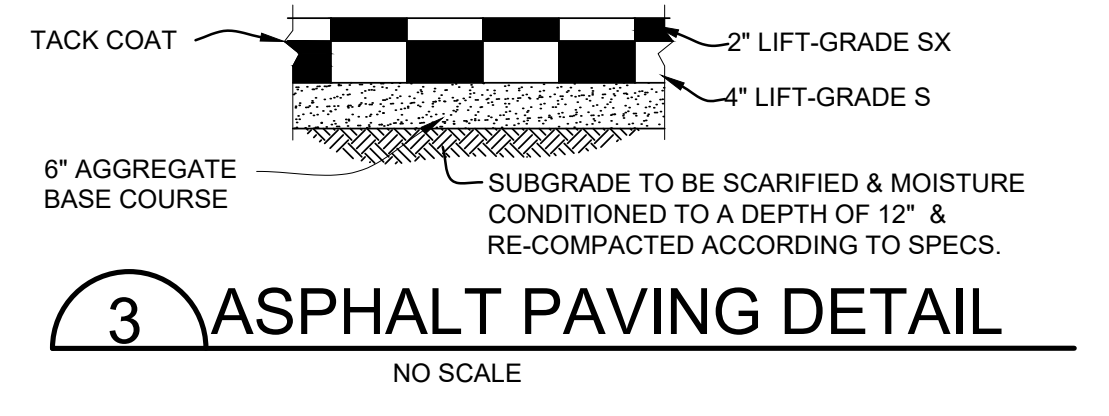
**1 CONC. PAVING NOTES & DETAILS**  
SCALE: 1/2" = 1'-0"

**CONCRETE PAVING NOTES :**

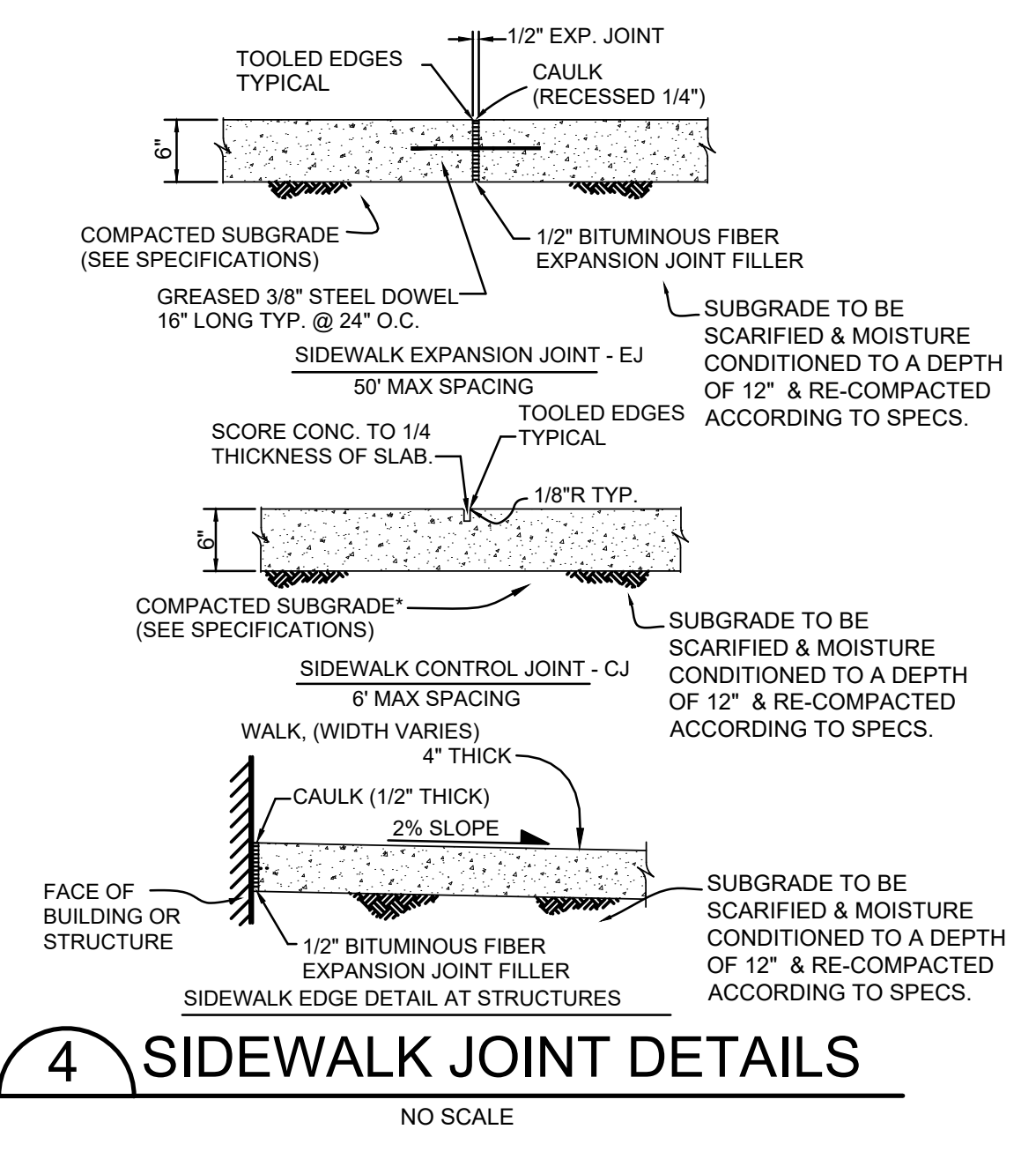
- REINFORCEMENT:** ASTM A 615, GRADE 60, EPOXY COATED DEFORMED STEEL REBAR OR SMOOTH STEEL DOWELS WITH DIAMETER AND LENGTH AS INDICATED.
  - SPACE DOWELS AT 12 ON CENTER.
  - GREASE DOWELS TO PROVIDE MOVEMENT IN EXPANSION JOINTS.
  - SPACE TIE BARS AT 30" ON CENTER
  - KEEP TIE BARS IN THE VERTICAL CENTER OF THE CONCRETE SLAB AND PERPENDICULAR TO THE JOINT DURING CONCRETE PLACEMENT.
- 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.
  - CONTROL JOINT SPACING SHALL BE 15 FEET MAXIMUM ON CENTER IN BOTH DIRECTIONS.
  - EXTEND TRANSVERSE CONTROL JOINTS CONTINUOUSLY ACROSS THE FULL WIDTH OF THE CONCRETE.
  - MAKE ADJUSTMENTS IN JOINT LOCATIONS TO MEET INLET OR MANHOLE LOCATIONS.
  - EXPANSION JOINTS SHALL BE PLACED WHERE CONCRETE ABUTS A BUILDING WALL, SIDEWALK, CURB, GUTTER OR ANY IMMOVABLE STRUCTURE.
- JOINTS:** LAY OUT JOINTS TO AID CONSTRUCTION AND CONTROL RANDOM CRACKING.
  - CONTROL JOINT SPACING SHALL BE 15 FEET MAXIMUM ON CENTER IN BOTH DIRECTIONS.
  - EXTEND TRANSVERSE CONTROL JOINTS CONTINUOUSLY ACROSS THE FULL WIDTH OF THE CONCRETE.
  - MAKE ADJUSTMENTS IN JOINT LOCATIONS TO MEET INLET OR MANHOLE LOCATIONS.
  - EXPANSION JOINTS SHALL BE PLACED WHERE CONCRETE ABUTS A BUILDING WALL, SIDEWALK, CURB, GUTTER OR ANY IMMOVABLE STRUCTURE.
- 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.
- BACKER ROD:** ROUND RODS. RODS MUST BE OVERSIZED APPROXIMATELY 25 PERCENT TO FIT TIGHTLY INTO EACH JOINT AND COMPATIBLE WITH HOT POURED SEALANT.
- JOINT SEALANT:** SILICONE ASTM D5893, ON CDOT LIST OF APPROVED MATERIALS.
- JOINT NOT REQUIRED BETWEEN PAVEMENT AND CURB & GUTTER IF POURED MONOLITHICLY.



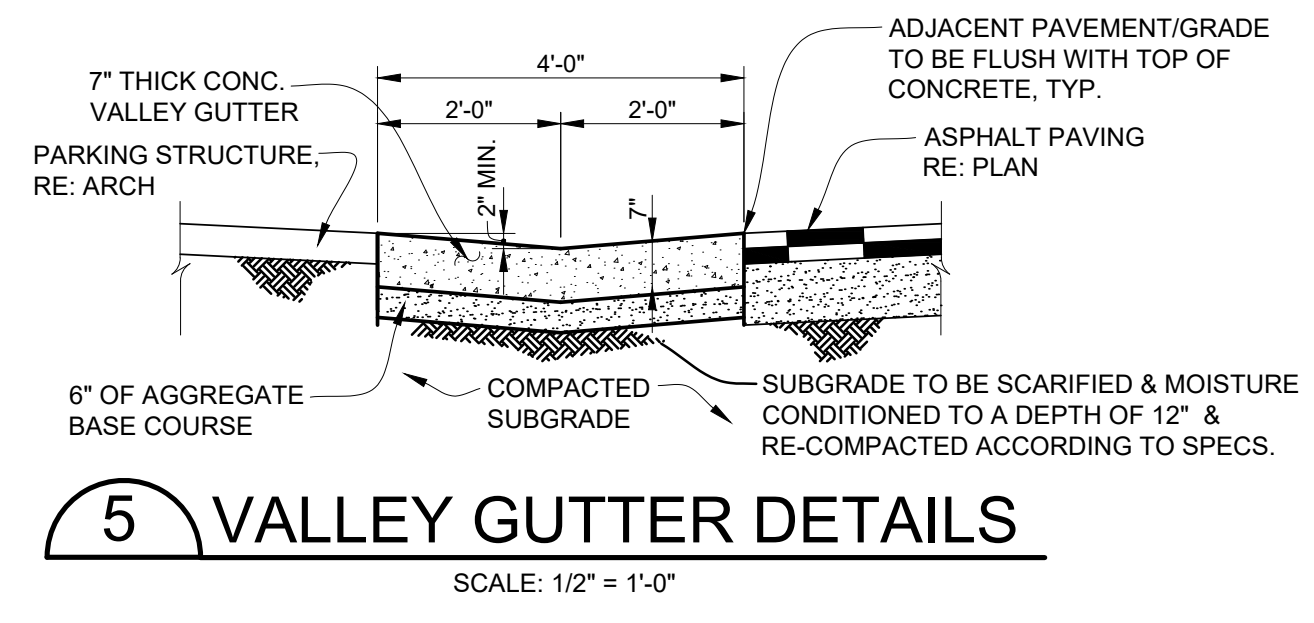
**2 8" CONC. PAVING DETAIL**  
SCALE 1/2" : 1'-0"



**3 ASPHALT PAVING DETAIL**  
NO SCALE



**4 SIDEWALK JOINT DETAILS**  
NO SCALE



**5 VALLEY GUTTER DETAILS**  
SCALE: 1/2" = 1'-0"



Gudmundur Jonsson  
11964 W. Belmont Drive 303 875 6651  
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12596 W Bayaud Ave, Suite 200  
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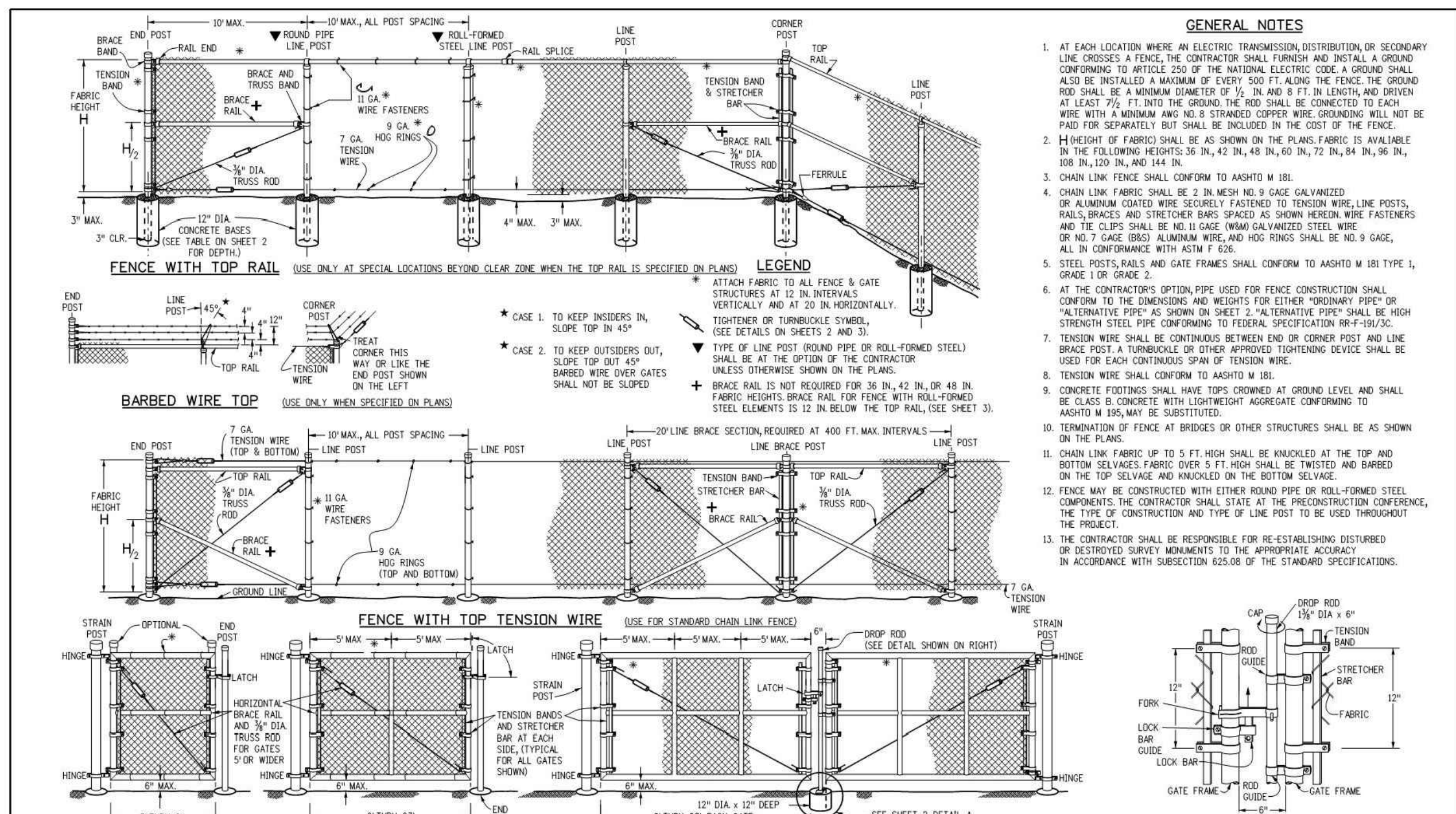
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DILLON PARKING STRUCTURE  
166 LAKE DILLON DRIVE  
DILLON, COLORADO

**C-500**

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Checked by: JVH

SITE DETAILS



**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 ROD SHALL BE INSTALLED A MAXIMUM OF EVERY 500 FT ALONG THE FENCE. THE GROUND ROD SHALL BE A MINIMUM DIAMETER OF 3/4 IN. AND 8 FT IN LENGTH AND BURY AT LEAST 7/8 FT INTO THE GROUND. THE ROD SHALL BE CONNECTED TO EACH WIRE WITH A MINIMUM AMP AND 1/8 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., 48 IN., 48 IN., 48 IN., 48 IN., 48 IN., 48 IN., 48 IN., 48 IN., 48 IN., 48 IN., AND 44 IN.
3. CHAIN LINK FENCE SHALL CONFORM TO AASHTO M 191.
4. CHAIN LINK FABRIC SHALL BE 2 IN. HIGH NO. 9 GA. GALVANIZED OR ALUMINUM COATED WIRE SECURELY FASTENED TO TENSION WIRE, LINE POSTS, RAILS, BRACES AND STRETCHER BARS SPACED AS SHOWN. WIRE FASTENERS AND CLIPS SHALL BE NO. 11 GA. (W/M GALVANIZED STEEL WIRE AND NO. 7 GA. (W/M ALUMINUM WIRE) AND HOOK RINGS SHALL BE NO. 9 GA. ALL IN CONFORMANCE WITH ASTM F 605.
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 CONCISE 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 RF-F-161/3C.
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 CONTRADICTORY SPAN OF TENSION WIRE.
8. TENSION WIRE SHALL CONFORM TO AASHTO M 181.
9. CONCRETE FOOTINGS SHALL HAVE TOPS CHROINED AT GROUND LEVEL AND SHALL BE CLASS C CONCRETE WITH LIGHTWEIGHT AGGREGATE CONFORMING TO AASHTO M 193, 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 83.05 OF THE STANDARD SPECIFICATIONS.

**Computer File Information**

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 Last Modification Date: 07/04/12 Initials: LTA  
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 Drawing File Name: 607020103.dgn  
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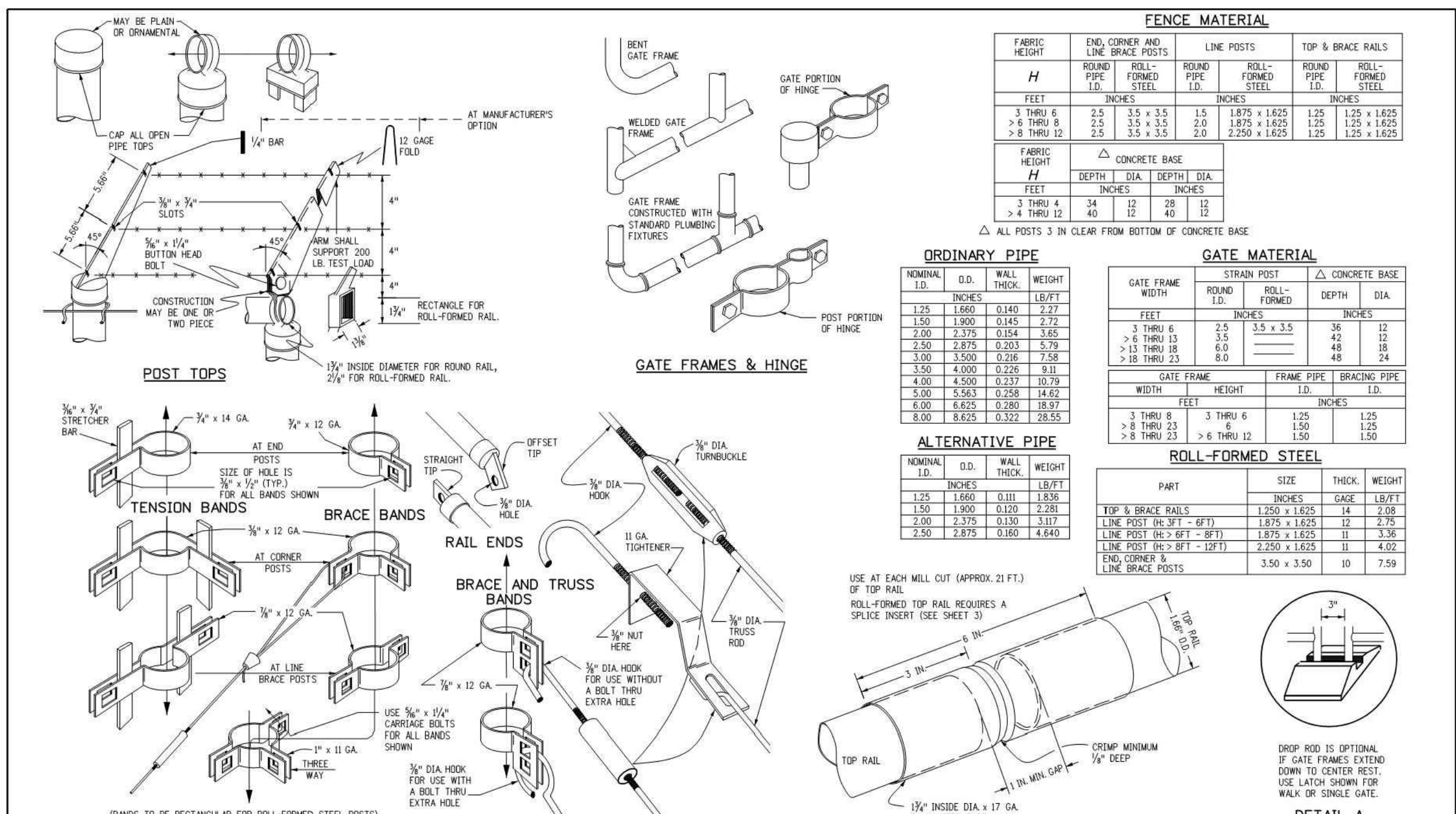
**Sheet Revisions**

Date	Comments

Colorado Department of Transportation  
 4201 East Arkansas Avenue  
 Denver, Colorado 80222  
 Phone: (303) 757-9083  
 Fax: (303) 757-9800  
 Project Development Branch DD/LTA

**CHAIN LINK FENCE**

STANDARD PLAN NO.  
M-607-2  
Sheet No. 1 of 3



**FENCE MATERIAL**

FENCE HEIGHT	END, CORNER AND LINE BRACE POSTS		LINE POSTS		TOP & BRACE RAILS	
	ROUND PIPE	ROLL-FORMED STEEL	ROUND PIPE	ROLL-FORMED STEEL	ROUND PIPE	ROLL-FORMED STEEL
3 THRU 6	2.5	3.5	1.5	1.875	1.25	1.25
> 6 THRU 8	3.5	4.5	2.0	2.25	1.25	1.25
> 8 THRU 12	4.5	5.5	2.5	2.75	1.25	1.25

**GATE MATERIAL**

GATE FRAME WIDTH	ROUND PIPE		ROLL-FORMED STEEL	
	INCHES	INCHES	INCHES	INCHES
3 THRU 6	2.5	3.5	3.6	4.2
> 6 THRU 12	3.5	4.5	4.8	5.4

**ORDINARY PIPE**

NOMINAL I.D.	W.D.	W.T.	W.T.
1.25	1.660	0.140	2.57
1.50	1.900	0.145	2.72
2.00	2.375	0.154	3.60
2.50	2.875	0.203	5.79
3.00	3.500	0.256	7.58
3.50	4.000	0.258	8.11
4.00	4.500	0.287	10.39
5.00	5.563	0.288	18.97
6.00	6.625	0.322	28.55
8.00	8.625	0.322	28.55

**ALTERNATIVE PIPE**

NOMINAL I.D.	W.D.	W.T.	W.T.
1.25	1.660	0.111	1.856
1.50	1.900	0.120	2.281
2.00	2.375	0.150	3.117
2.50	2.875	0.180	4.640

**Computer File Information**

Creation Date: 07/04/12 Initials: DD  
 Last Modification Date: 07/04/12 Initials: LTA  
 Full Path: www.coloradodot.info/business/designsupport  
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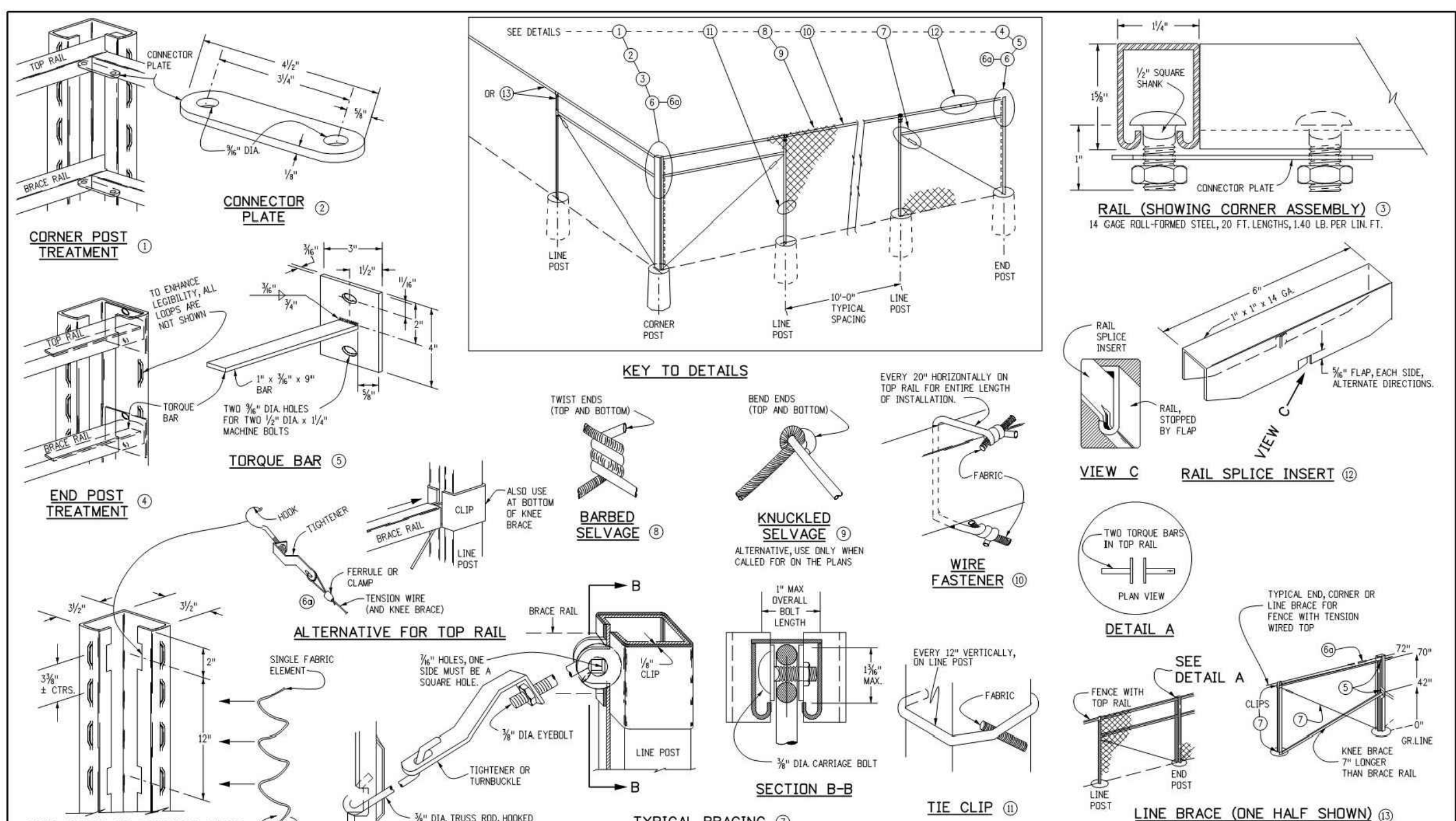
**Sheet Revisions**

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**CHAIN LINK FENCE**

STANDARD PLAN NO.  
M-607-2  
Sheet No. 2 of 3



**KEY TO DETAILS**

TO ENHANCE STABILITY, ALL TOP RAILS SHOULD BE TORQUED. TORQUE BAR AND TORQUE WRENCH TO BE USED. TORQUE BAR SHALL BE 1 1/2" x 3/8" x 9". TWO 3/8" DIA. HOLES FOR TWO 1/2" DIA. x 1/4" MACHINE BOLTS.

EVERY 20' HORIZONTALLY ON TOP RAIL FOR ENTIRE LENGTH OF INSTALLATION.

EVERY 12' VERTICALLY ON LINE POST.

**Computer File Information**

Creation Date: 07/04/12 Initials: DD  
 Last Modification Date: 07/04/12 Initials: LTA  
 Full Path: www.coloradodot.info/business/designsupport  
 Drawing File Name: 607020303.dgn  
 CAD Ver: MicroStation V8 Scale: Not to Scale Units: English

**Sheet Revisions**

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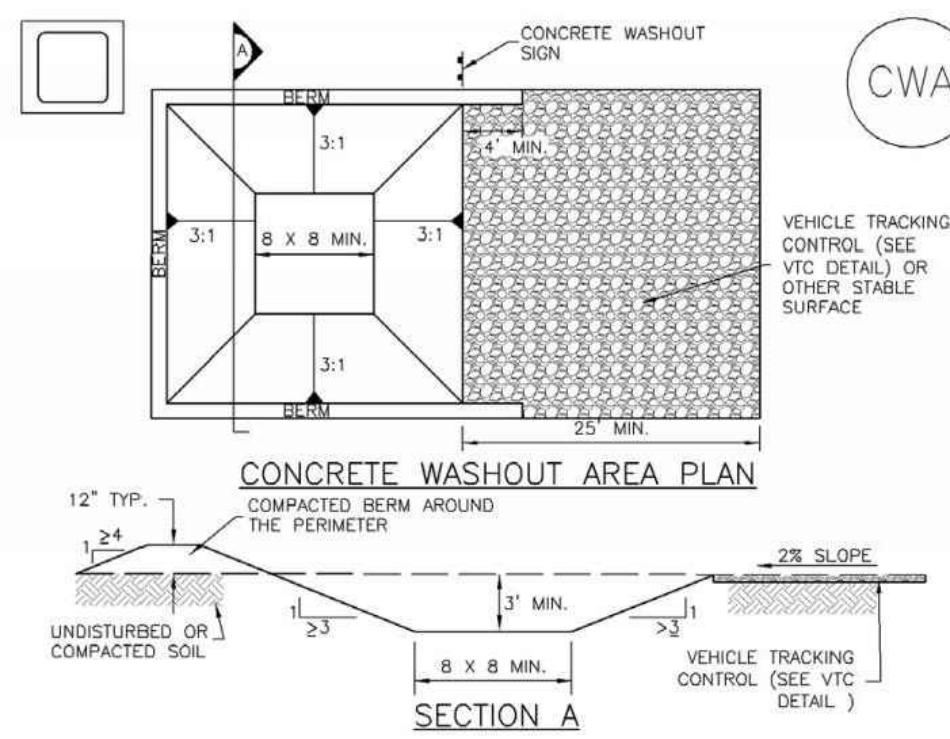
**CHAIN LINK FENCE**

STANDARD PLAN NO.  
M-607-2  
Sheet No. 3 of 3



**Concrete Washout Area (CWA)**

**MM-1**



**CWA-1. CONCRETE WASHOUT AREA**

**CWA INSTALLATION NOTES**

- SEE PLAN VIEW FOR CWA INSTALLATION LOCATION.
- 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 (18 MIL THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.
- THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
- 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.
- BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.
- VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
- 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.
- USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

November 2010 Urban Drainage and Flood Control District CWA-3  
Urban Storm Drainage Criteria Manual Volume 3

**Concrete Washout Area (CWA)**

**MM-1**

**CWA MAINTENANCE NOTES**

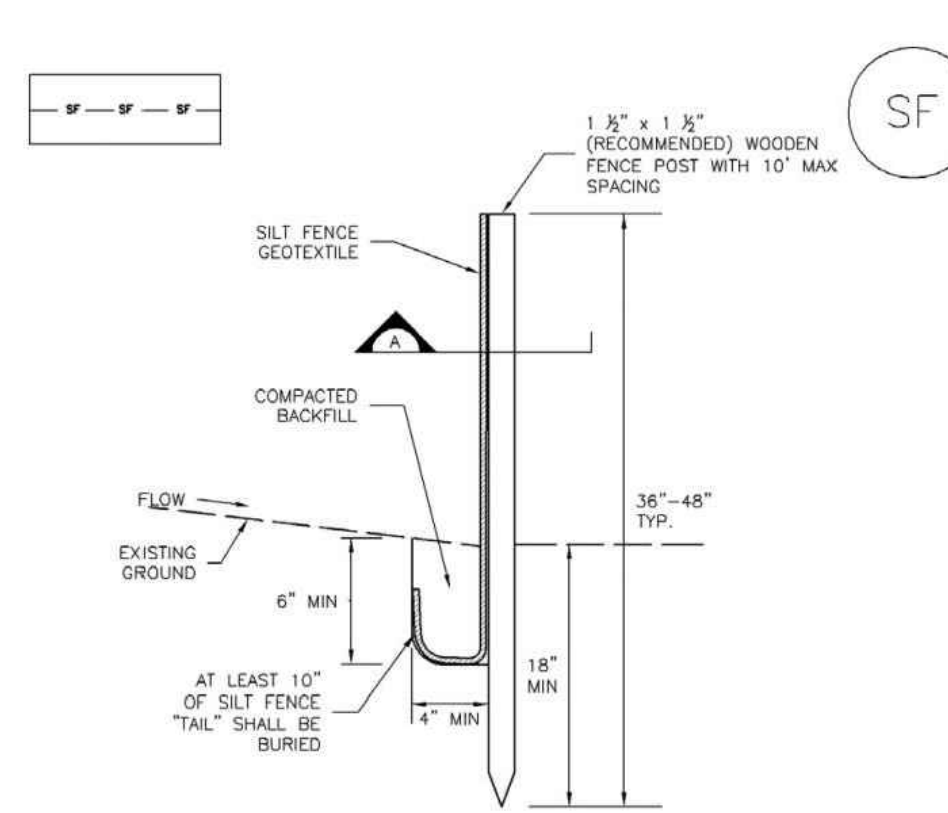
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- 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'.
- 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.
- THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
- 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.

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Urban Storm Drainage Criteria Manual Volume 3

**Silt Fence (SF)**

**SC-1**



**SILT FENCE**



**SECTION A**

**SF-1. SILT FENCE**

November 2010 Urban Drainage and Flood Control District SF-3  
Urban Storm Drainage Criteria Manual Volume 3

**SC-1**

**Silt Fence (SF)**

**SILT FENCE INSTALLATION NOTES**

- 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.
- 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.
- 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.
- 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.
- 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.
- 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').
- SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

**SILT FENCE MAINTENANCE NOTES**

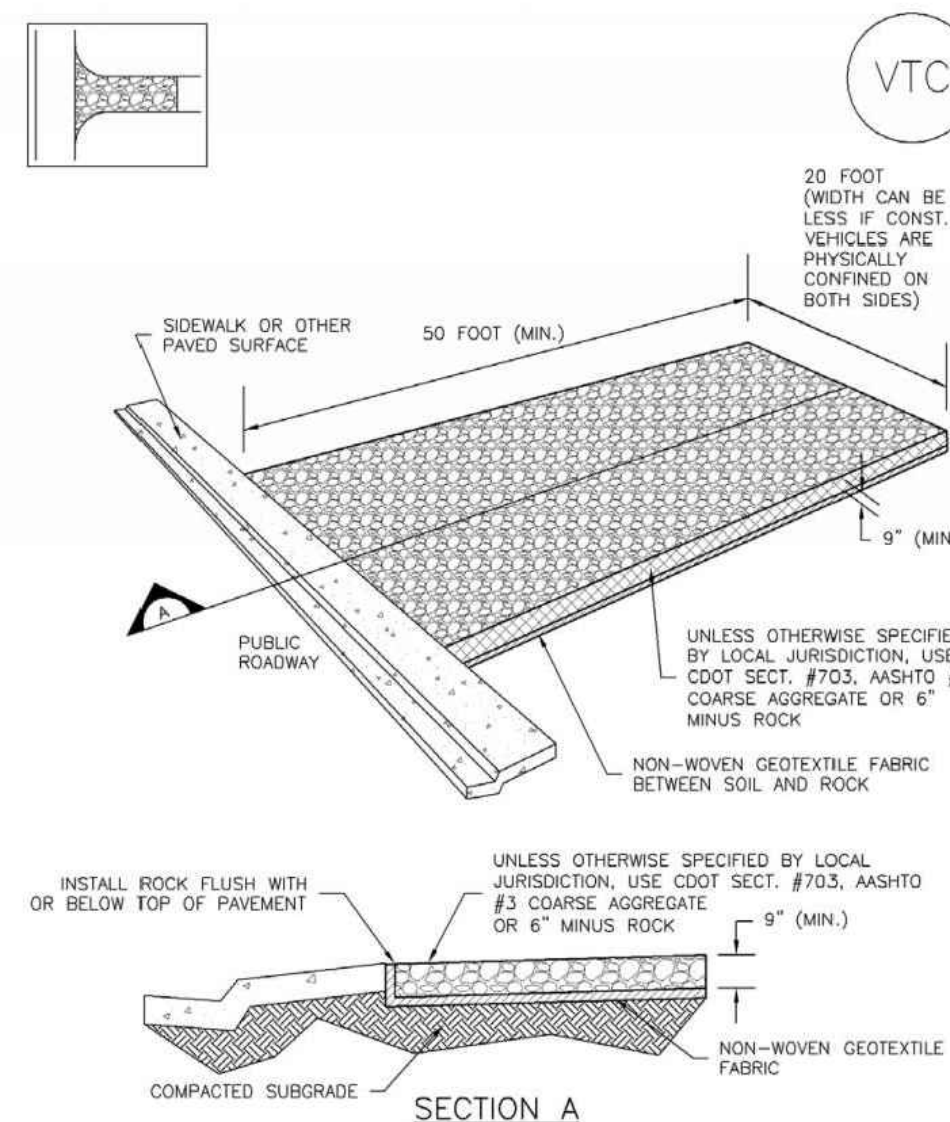
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- 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".
- REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.
- 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.
- WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAIL ADAPTED FROM THE CITY OF PARKER, COLORADO AND CITY OF JARVIS, 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-4 Urban Drainage and Flood Control District November 2010  
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**Vehicle Tracking Control (VTC)**

**SM-4**



**VTC-1. AGGREGATE VEHICLE TRACKING CONTROL**

November 2010 Urban Drainage and Flood Control District VTC-3  
Urban Storm Drainage Criteria Manual Volume 3

**Vehicle Tracking Control (VTC)**

**SM-4**

**STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES**

- SEE PLAN VIEW FOR LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S). TYPE OF CONSTRUCTION ENTRANCE(S)/EXIT(S) (WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM).
- 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.
- A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.
- STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.
- UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, ASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

**STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES**

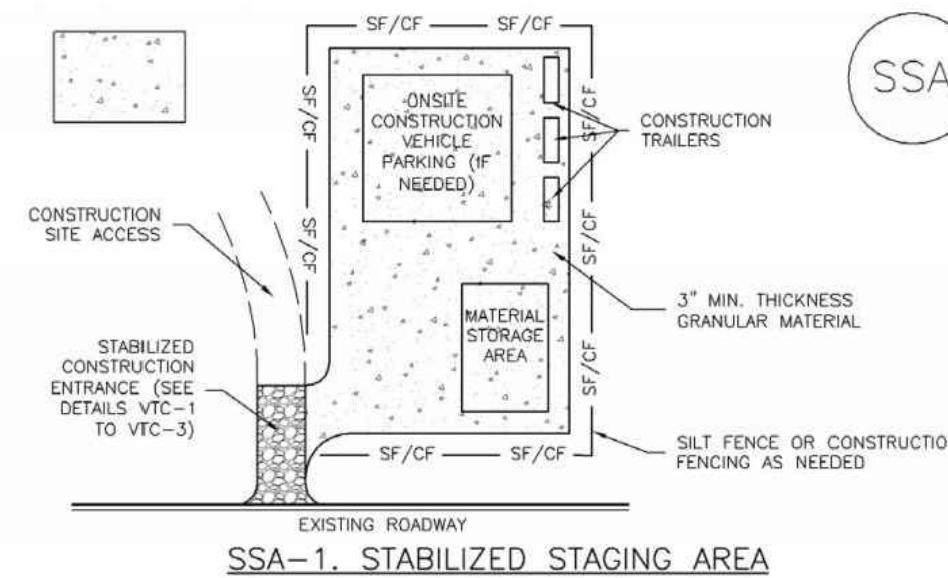
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.
- 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)

VTC-6 Urban Drainage and Flood Control District November 2010  
Urban Storm Drainage Criteria Manual Volume 3

**Stabilized Staging Area (SSA)**

**SM-6**



**SSA-1. STABILIZED STAGING AREA**

**STABILIZED STAGING AREA INSTALLATION NOTES**

- SEE PLAN VIEW FOR LOCATION OF STAGING AREA(S). CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
- STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.
- STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
- THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.
- UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, ASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
- ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.

**STABILIZED STAGING AREA MAINTENANCE NOTES**

- 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.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

November 2010 Urban Drainage and Flood Control District SSA-3  
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**SM-6**

**Stabilized Staging Area (SSA)**

**STABILIZED STAGING AREA MAINTENANCE NOTES**

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

SSA-4 Urban Drainage and Flood Control District November 2010  
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**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:
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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

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 <sub>ASD</sub> )	90 MPH

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

## DESIGN AND EXPLANATORY NOTES

- ALL PLOT PLANS AND RELATED DETAILS SHALL BE PROVIDED BY OWNER UNLESS INCORPORATED AS PART OF THESE DRAWINGS.
- MORTON BUILDINGS GENERAL SPECIFICATIONS APPLY UNLESS INDICATED DIFFERENTLY ON SPECIFIC JOB DRAWINGS OR SUPPLEMENTAL INFORMATION.
- MINIMUM LIVE ROOF LOAD DESIGNS FOR CONSTRUCTION, MAINTENANCE, REPAIR, AND OTHER TEMPORARY LOADS PER SECTION 1607.12.2
  - ROOF PURLINS AND OTHER SECONDARY STRUCTURAL MEMBERS = 20 PSF
  - ROOF TRUSSES, HEADERS, COLUMNS AND OTHER PRIMARY STRUCTURAL MEMBER = 18 PSF
  - FOOTINGS = 12 PSF (DESIGNED FOR ROOF SNOW LOAD AND OTHER NON-TEMPORARY LOADS W/ APPROVAL FROM BUILDING OFFICIAL).
- NO ONE MAY ALTER ANY ENGINEERING ITEM UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED / REGISTERED ENGINEER .
- ◆ 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.

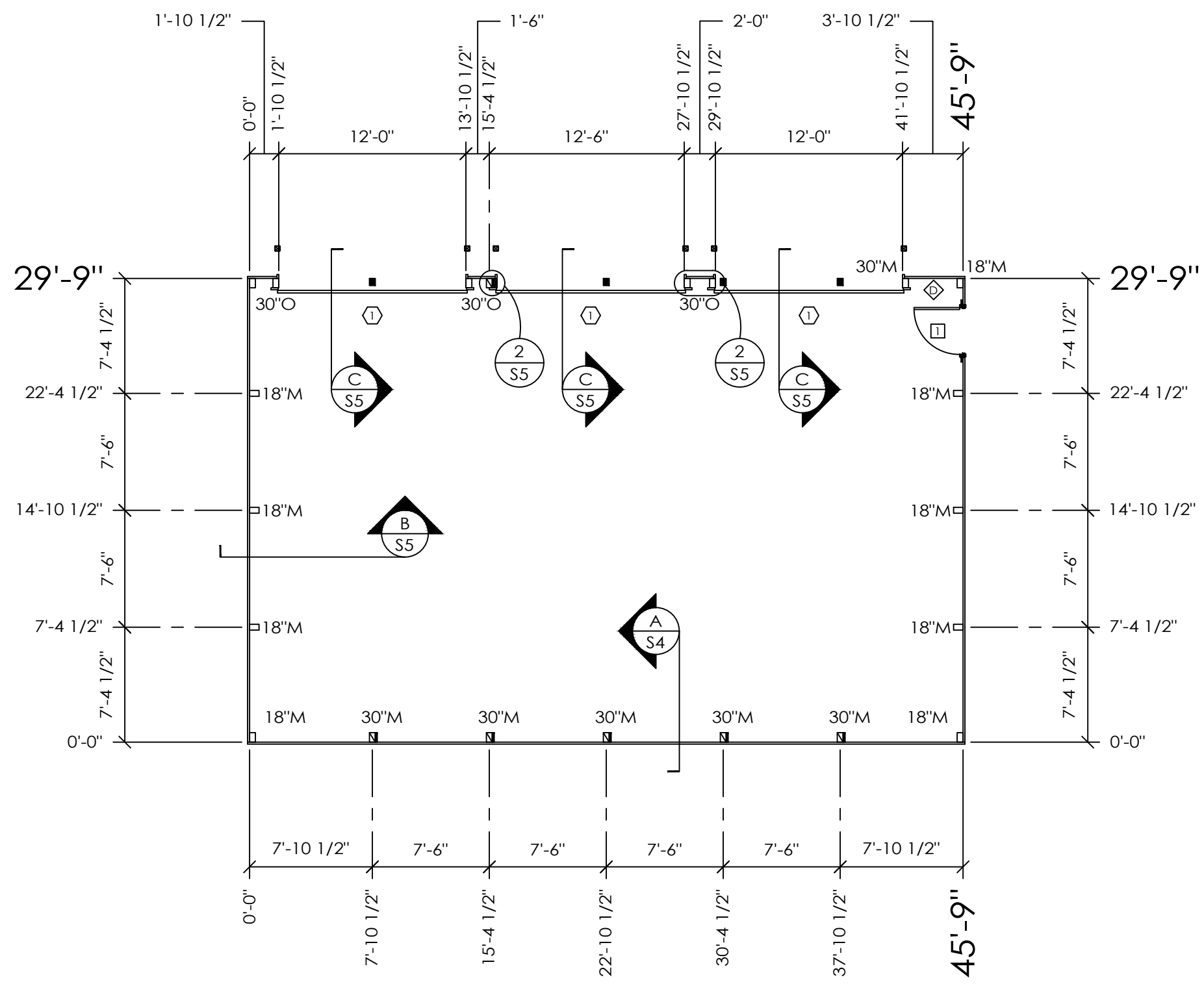
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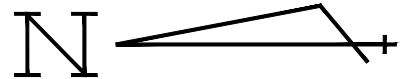
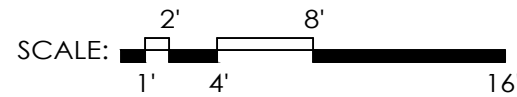
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SCALE: AS NOTED  
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G1 OF G1

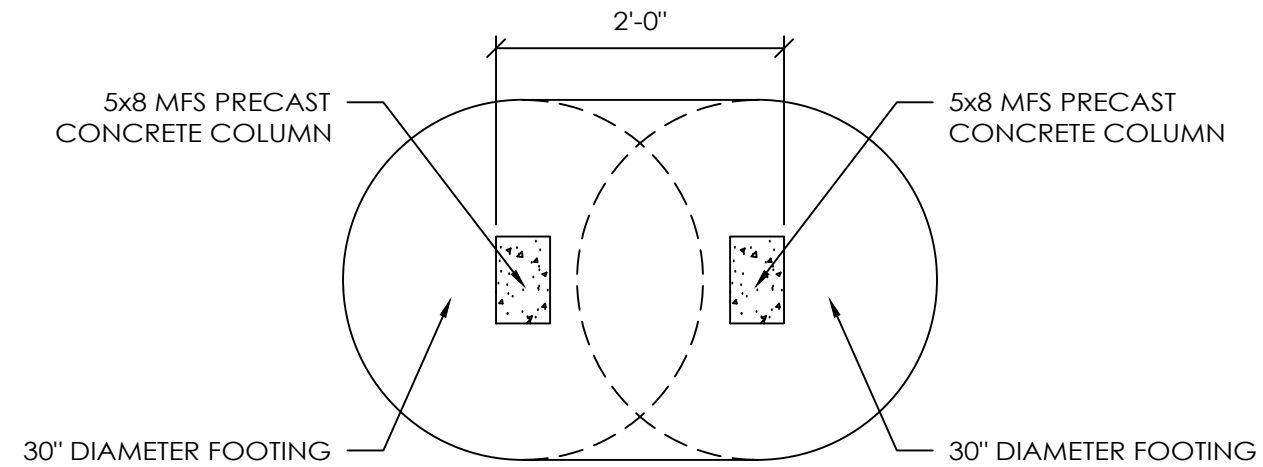


**COLUMN PLAN**



**COLUMN PLAN LEGEND**

- - 3-2x8 LAMINATED COLUMN LOCATION
- - 3-2x8 LAMINATED COLUMN LOCATION W/ ADDITIONAL 2x8 LAMIANTE
- - HEADERED TRUSS LOCATION
- - 3068 MB910 PLAIN FLAT LEAF WALKDOOR, IN SWING, LEFT HINGE WITH KEYPAD ENTRY (RESIDENTIAL) & CLOSER
- △ - (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
- ◇ - 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)

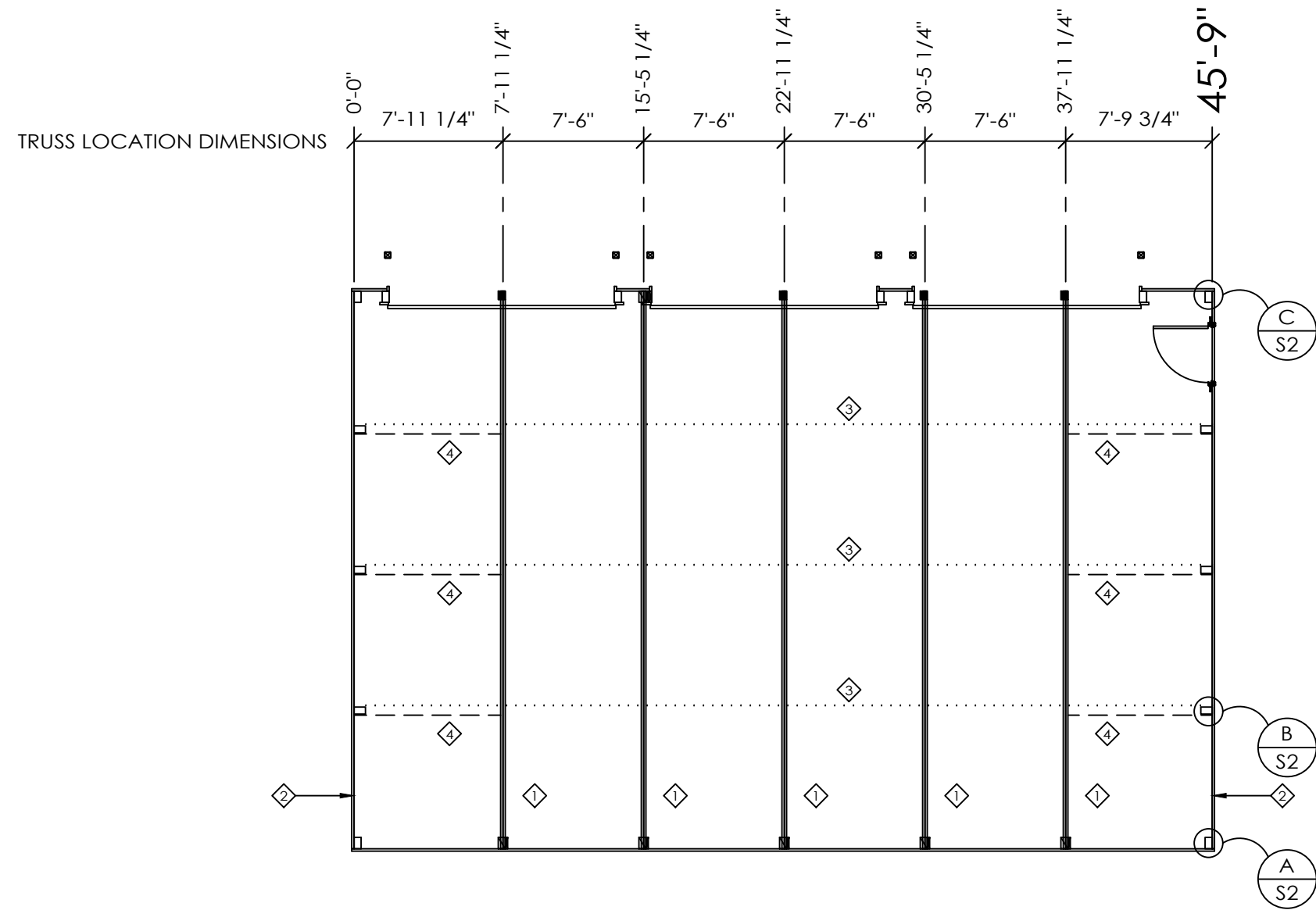
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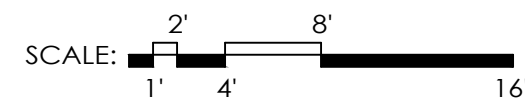
## DESIGN AND EXPLANATORY NOTES

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.

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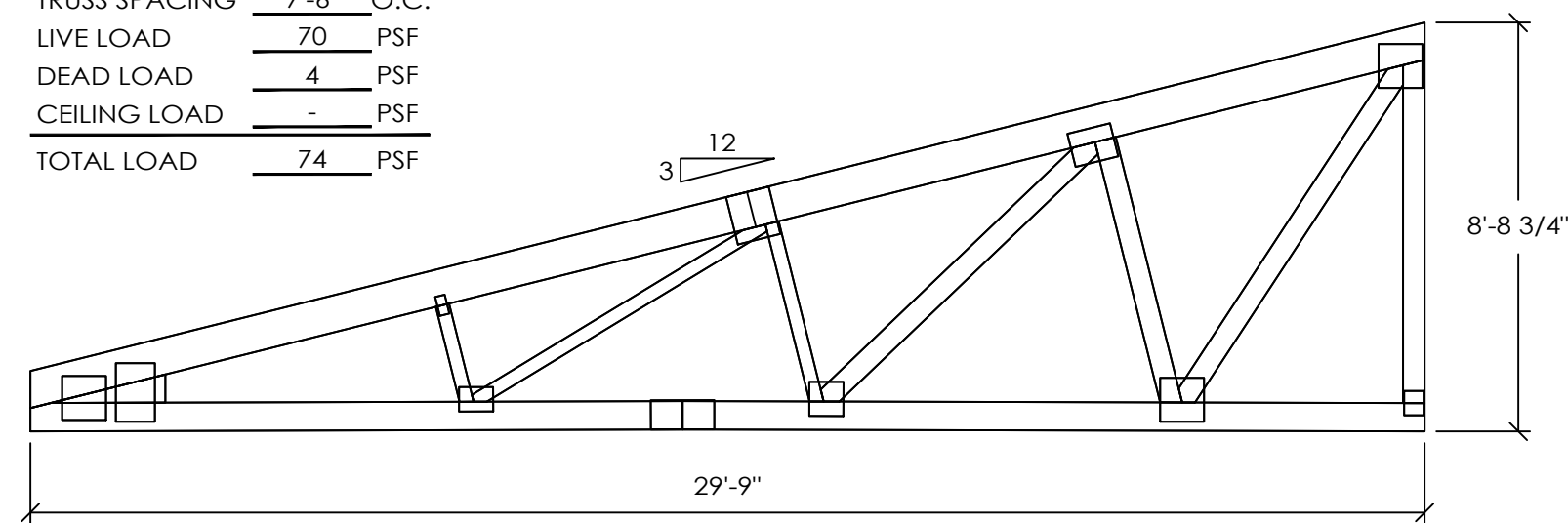
**TRUSS/BRACING PLAN**



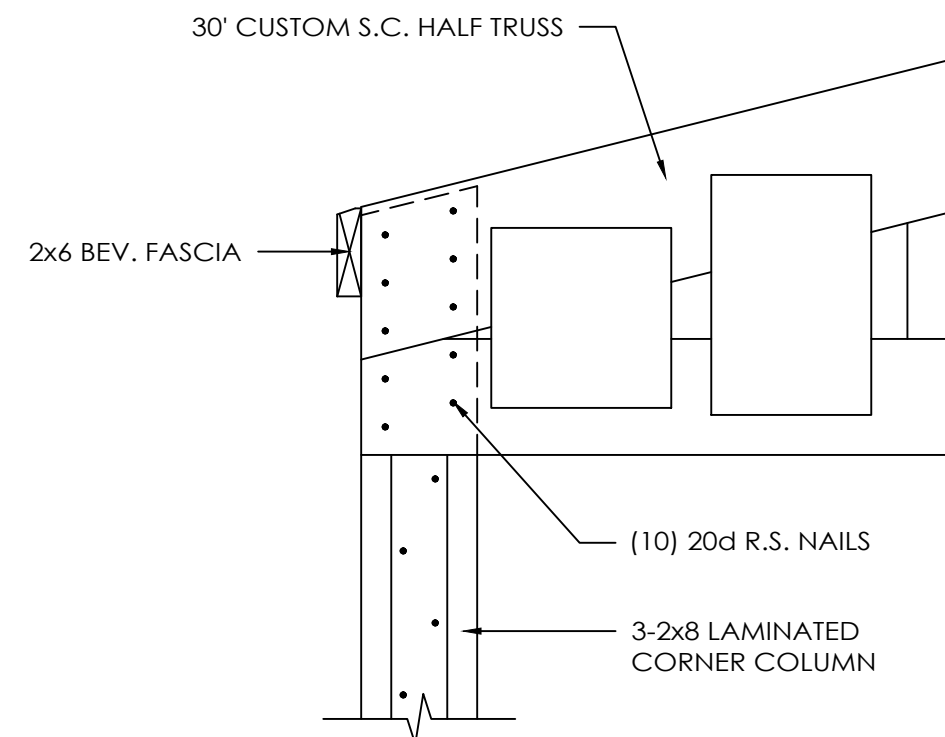
### TRUSS/BRACING PLAN LEGEND

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

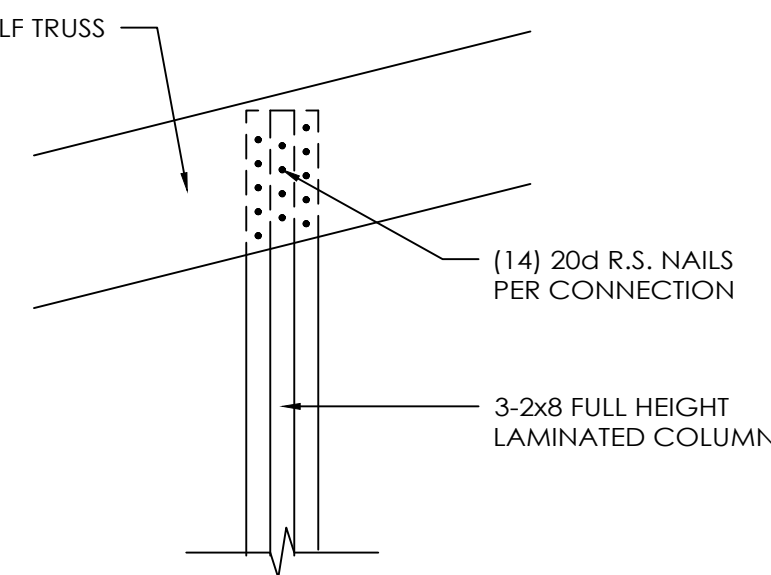
TRUSS SPACING	7'-6" O.C.
LIVE LOAD	70 PSF
DEAD LOAD	4 PSF
CEILING LOAD	- PSF
TOTAL LOAD	74 PSF



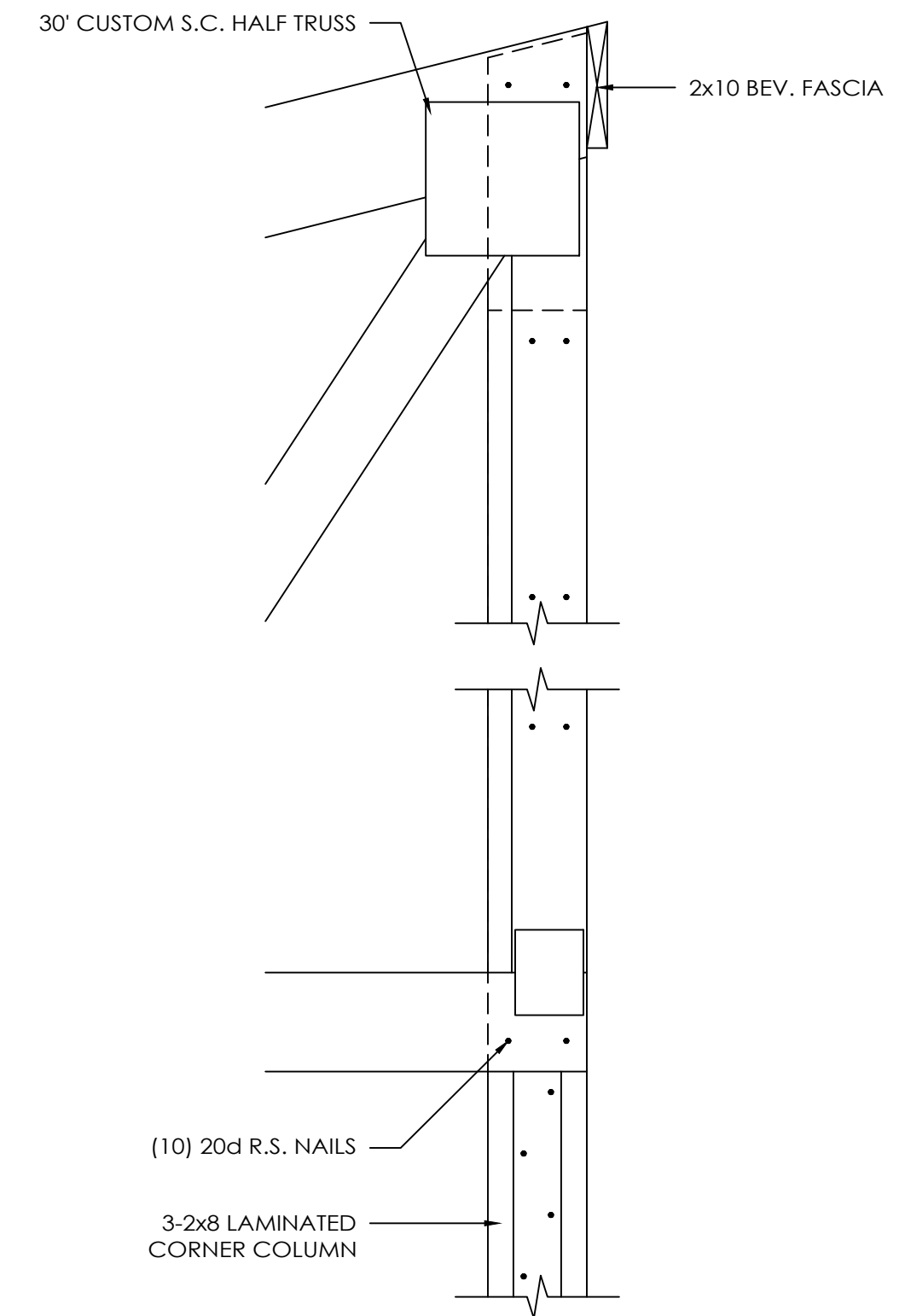
**30' CUSTOM S.C. HALF TRUSS**  
SCALE: 1/4" = 1'-0" SEE NOTE #1



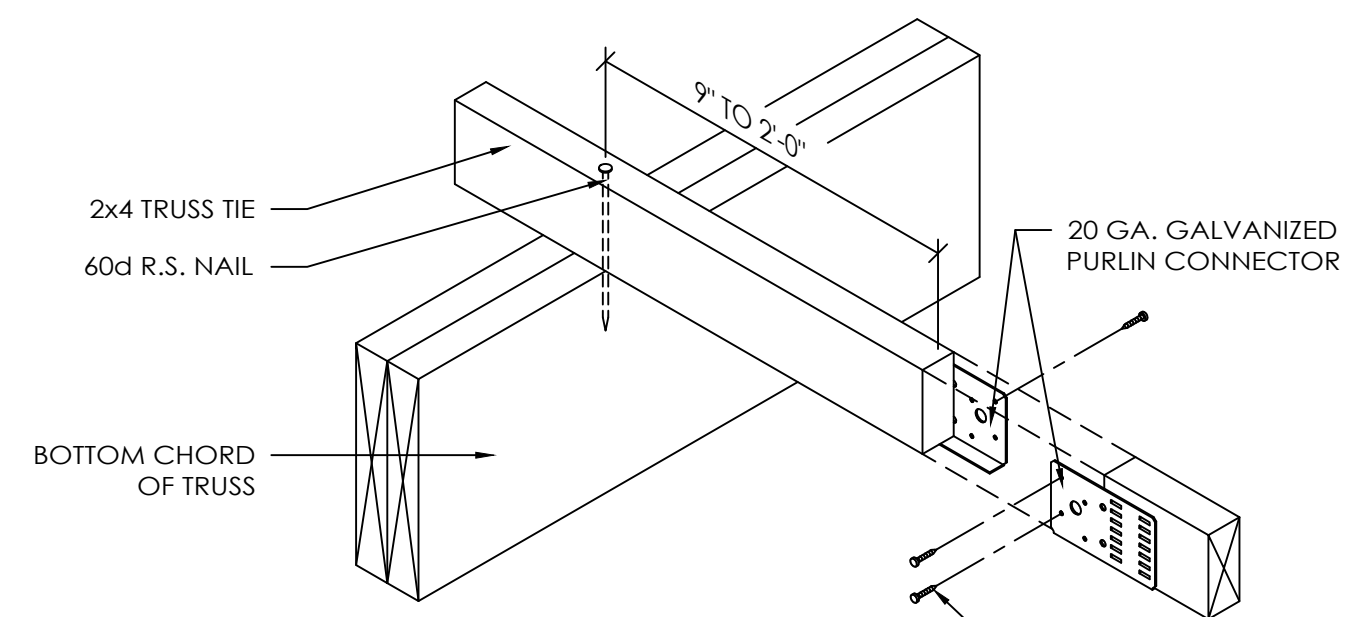
**DETAIL A**  
SCALE: 1" = 1'-0"



**DETAIL B**  
SCALE: 1" = 1'-0"



**DETAIL C**  
SCALE: 1" = 1'-0"



(1) #9x1" HWH SCREW ON PEAK SIDE AND (2) #9x1" HWH SCREWS ON EAVE SIDE OF PURLIN IN HOLES SHOWN (JOINT MUST BE TIGHT BEFORE FASTENING CLIPS)

**2x4 TRUSS TIE DETAIL**  
SCALE: 1 1/2" = 1'-0"

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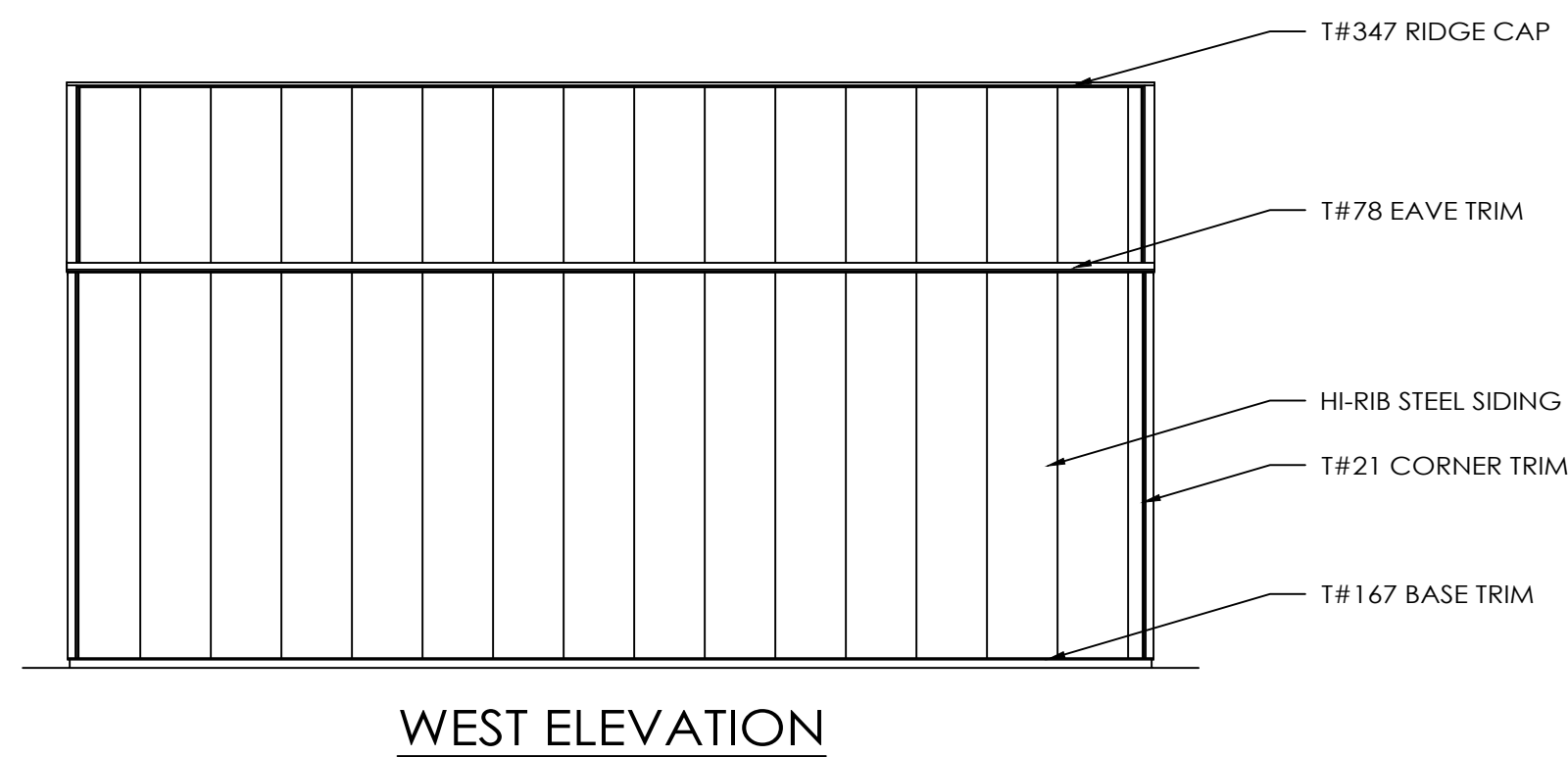
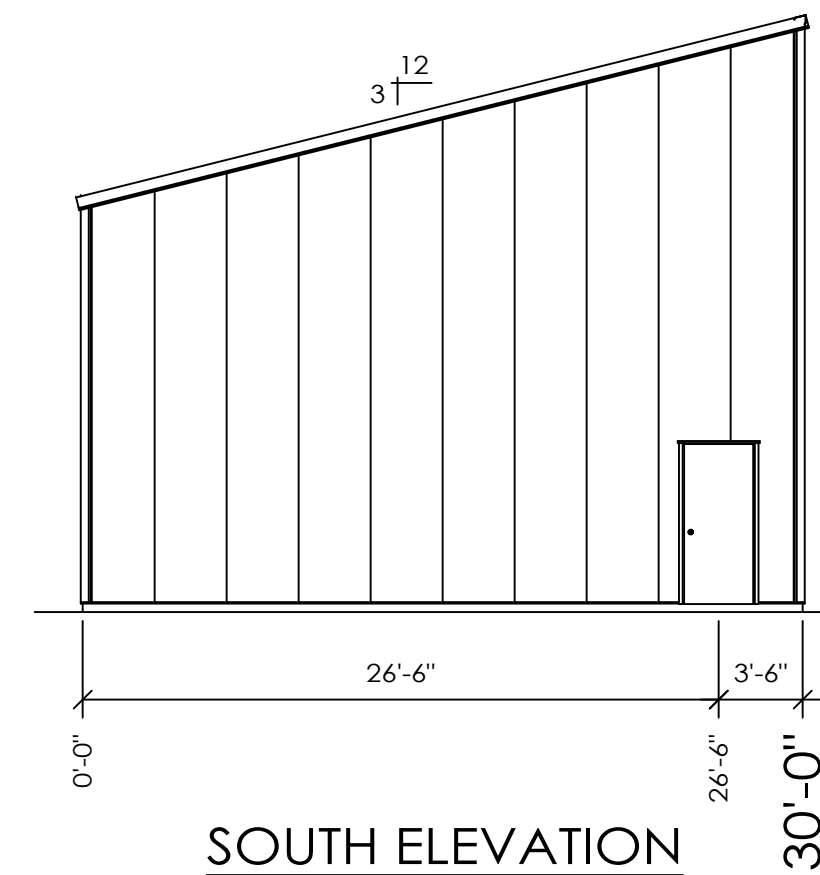
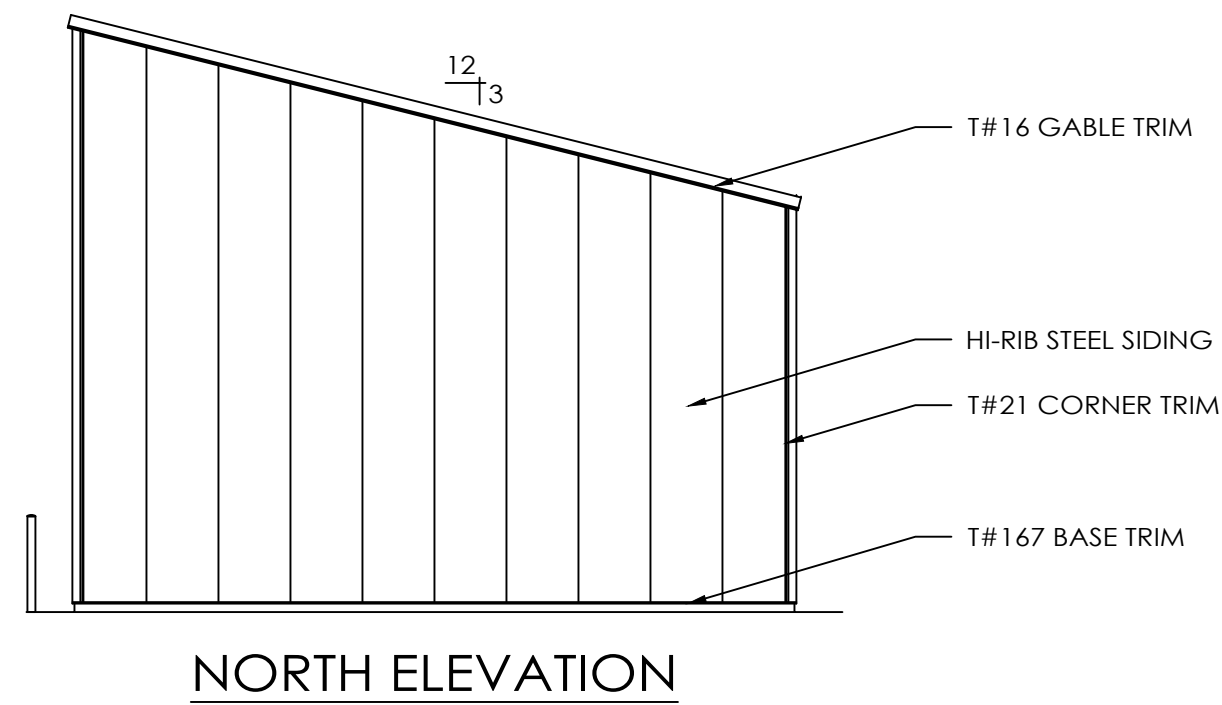
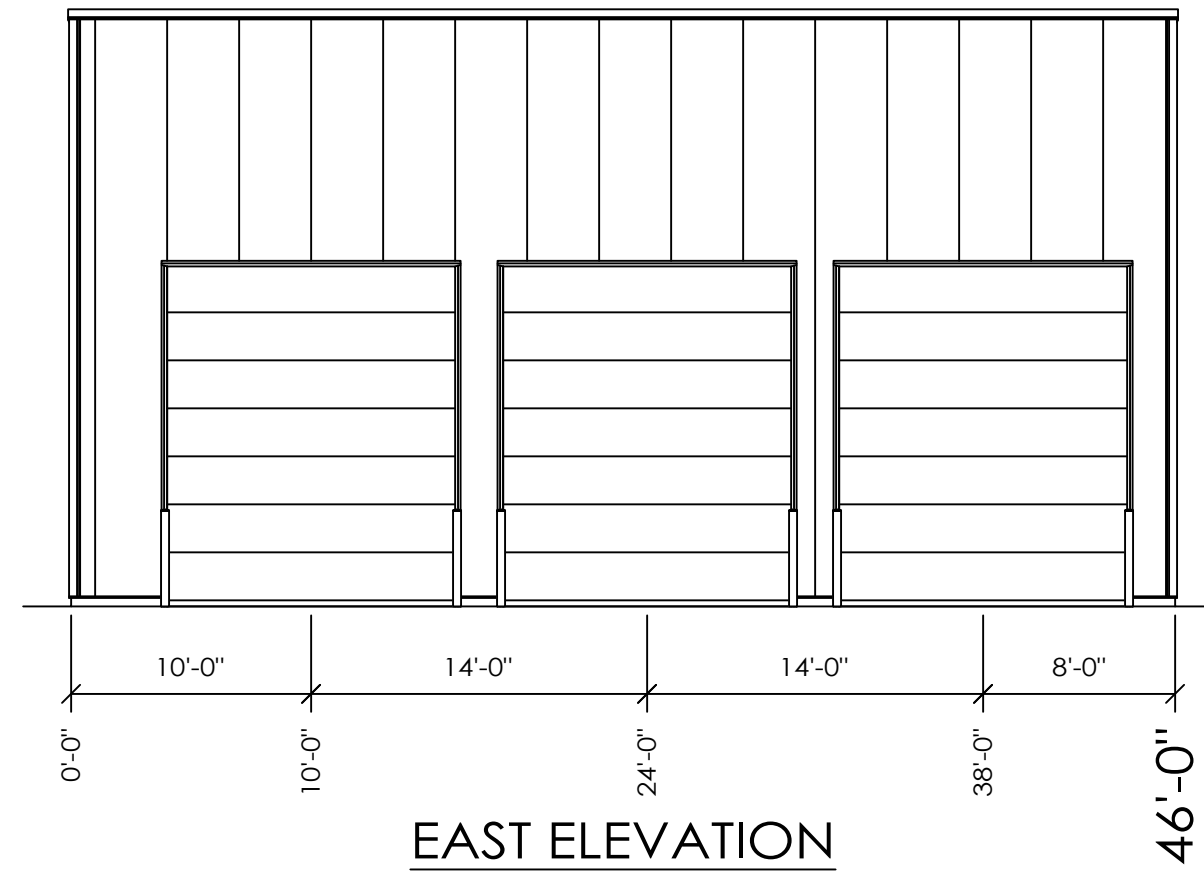


SCALE: AS NOTED  
SHEET NO. S2 OF S6

**DESIGN AND EXPLANATORY NOTES**

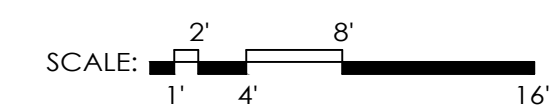
1.) EXTERIOR DOOR LOCATIONS ARE TAKEN FROM THE EXTERIOR FACE OF THE NAILERS AND ARE TO THE CENTER OF THE DOOR UNITS. VERIFY ALL DOOR LOCATIONS WITH THE OWNER.

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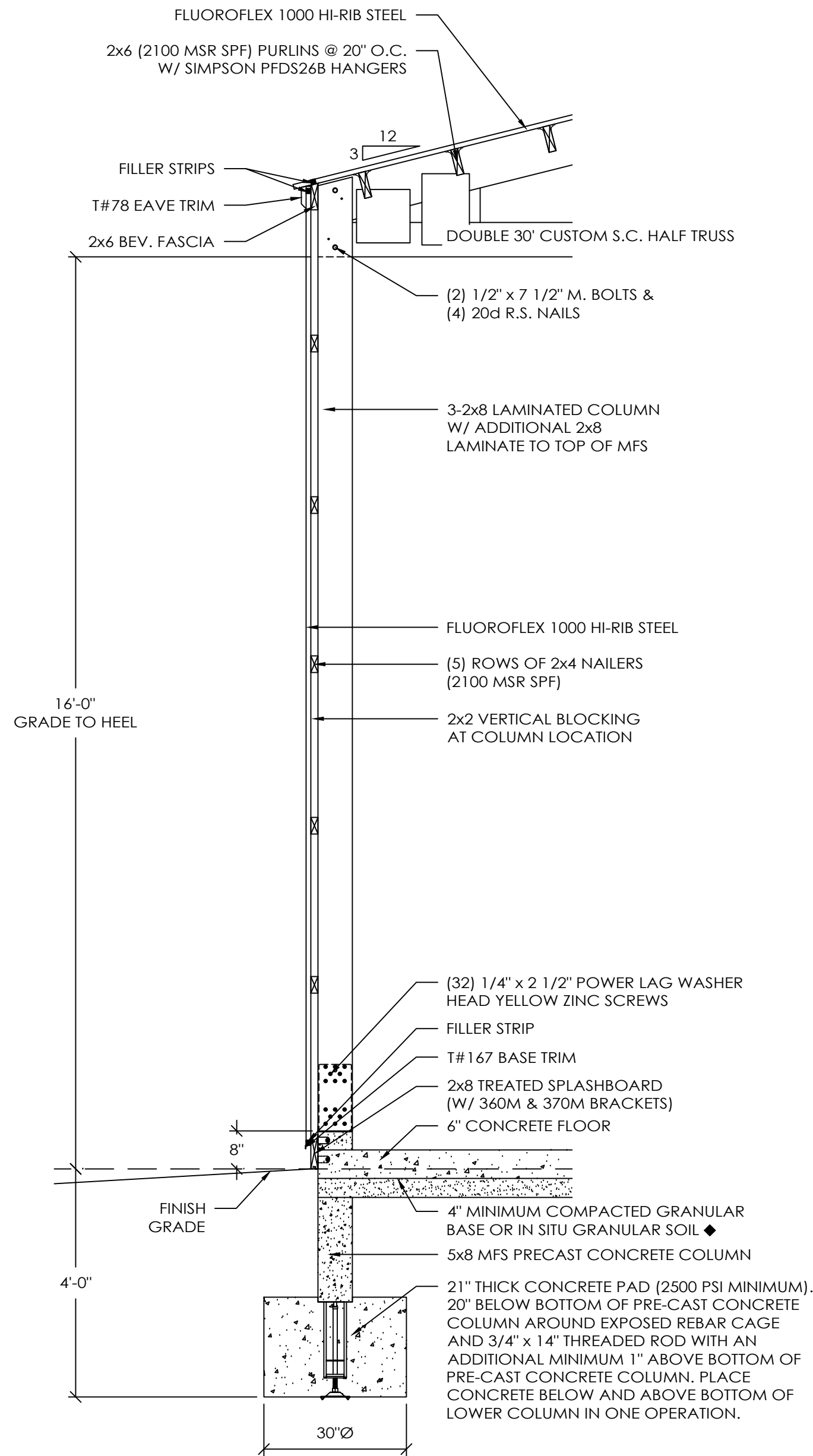
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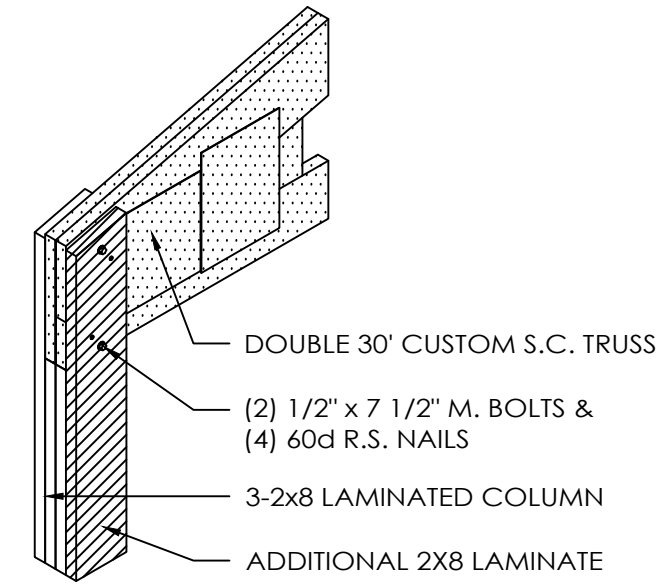
SCALE: AS NOTED  
 SHEET NO. S3 OF S6

## DESIGN AND EXPLANATORY NOTES

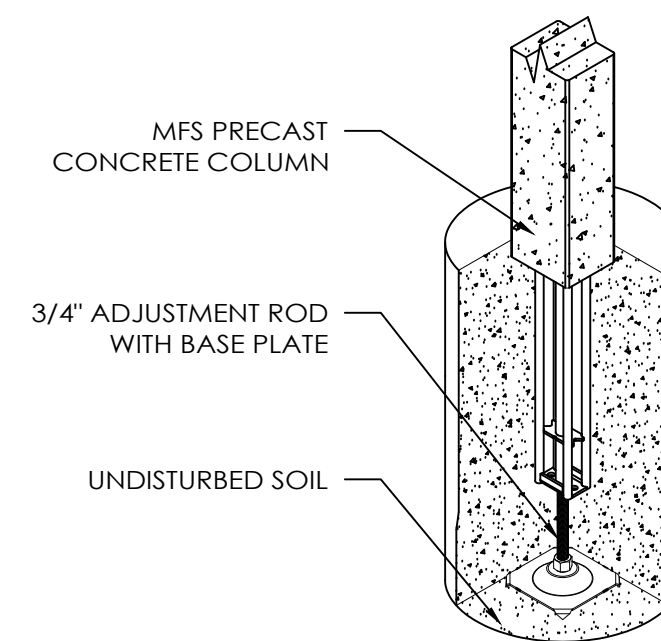
- FOOTINGS ARE DESIGNED FOR A 2000 PSF SOIL BEARING CAPACITY. LOCAL CONDITIONS MAY REQUIRE MODIFICATIONS.
- CONCRETE FLOOR NOTES:
  - 3500 PSI, 5 1/2 BAG MIX CONCRETE.
  - SLOPE GRADE AWAY FROM BUILDING @ 1" PER FOOT FOR A MINIMUM DISTANCE OF 10' PLUS OVERHANG WIDTH.
  - A VAPOR RETARDER IS NOT MANDATED 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.
  - CONTRACTION JOINTS UNIFORMLY SPACED 18' O.C. OR LESS.
- 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.
- 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 ISOMETRIC DETAIL**  
SCALE: 3/4" = 1'-0"

## LOWER COLUMN INSTALLATION

- INSTALL PRECAST CONCRETE COLUMN W/ADJUSTMENT ROD & BASE PLATE IN THE AUGERED HOLE.
- PLUMB PRECAST CONCRETE COLUMN IN BOTH DIRECTIONS
- ADJUST HEIGHT UP OR DOWN WITH ADJUSTMENT HEX ROD
- POUR READI-MIX CONCRETE INTO THE HOLE AS SPECIFIED.
- BACKFILL AND COMPACT THE ANNULAR SPACE AROUND THE COLUMN TO GRADE WITH SOIL AUGERED FROM THE SITE.

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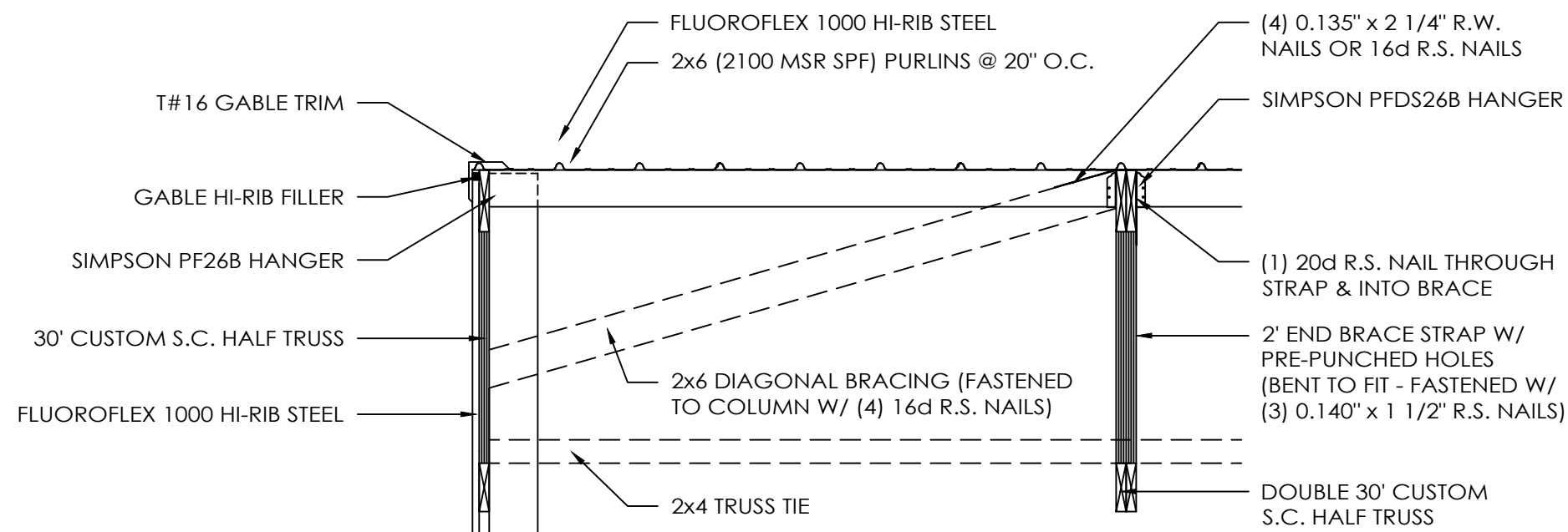
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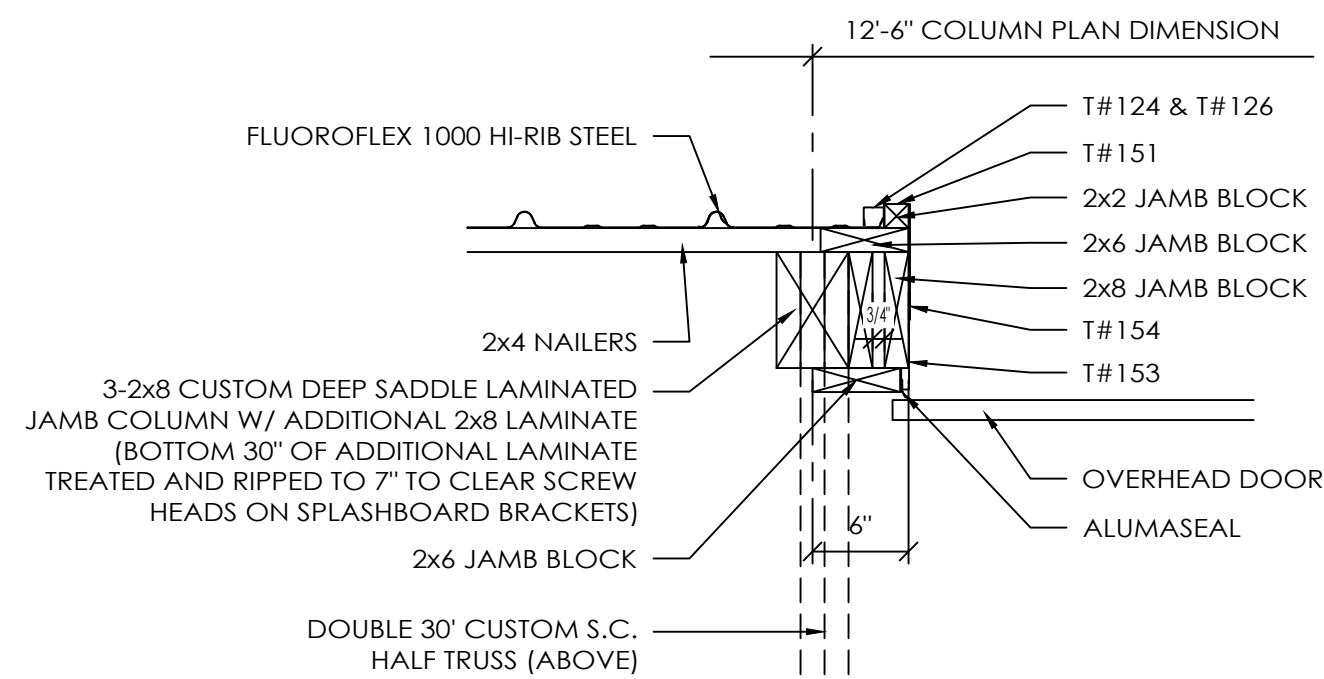
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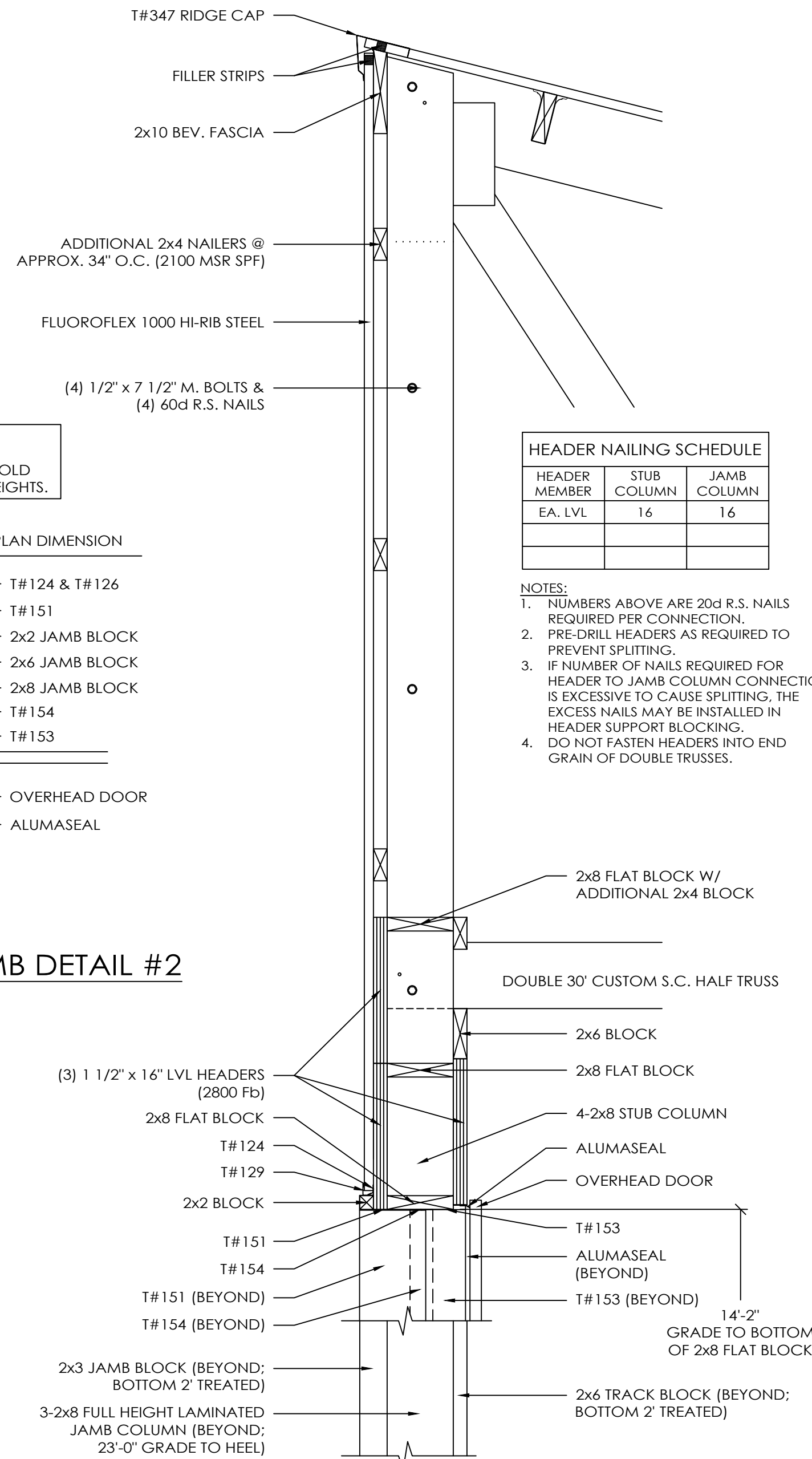
S4 OF S6



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"



HEADER NAILING SCHEDULE		
HEADER MEMBER	STUB COLUMN	JAMB COLUMN
EA. LVL	16	16

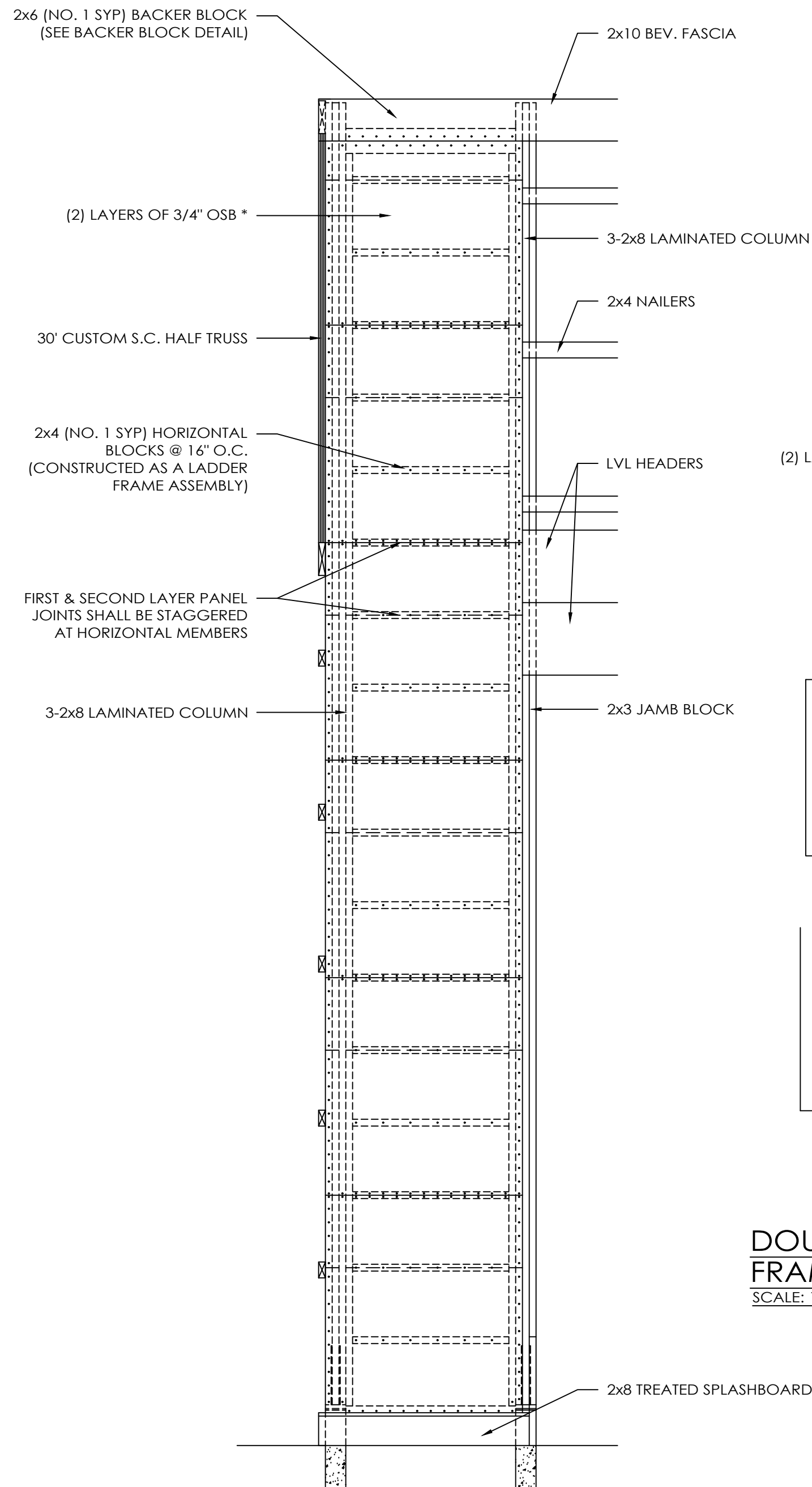
- NOTES:
- NUMBERS ABOVE ARE 20d R.S. NAILS REQUIRED PER CONNECTION.
  - PRE-DRILL HEADERS AS REQUIRED TO PREVENT SPLITTING.
  - IF NUMBER OF NAILS REQUIRED FOR HEADER TO JAMB COLUMN CONNECTION IS EXCESSIVE TO CAUSE SPLITTING, THE EXCESS NAILS MAY BE INSTALLED IN HEADER SUPPORT BLOCKING.
  - DO NOT FASTEN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

**ENDWALL SECTION B**  
SCALE: 1/2" = 1'-0"

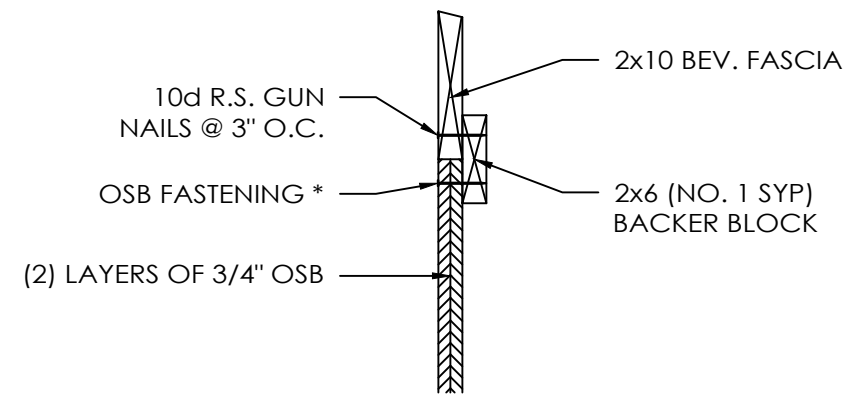
**OVERHEAD DOOR HEADER SECTION C**  
SCALE: 1" = 1'-0"

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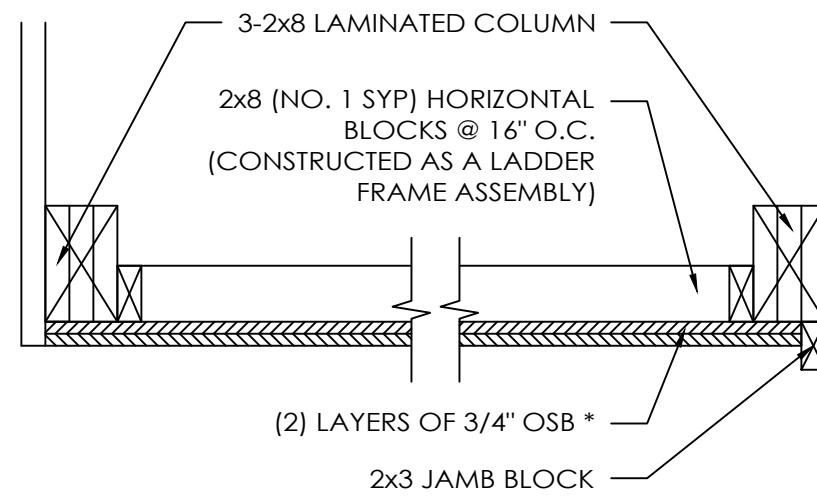


**DOUBLE LAYER 3/4" OSB SHEARWALL FRAMING ELEVATION**  
SCALE: 1/2" = 1'-0"

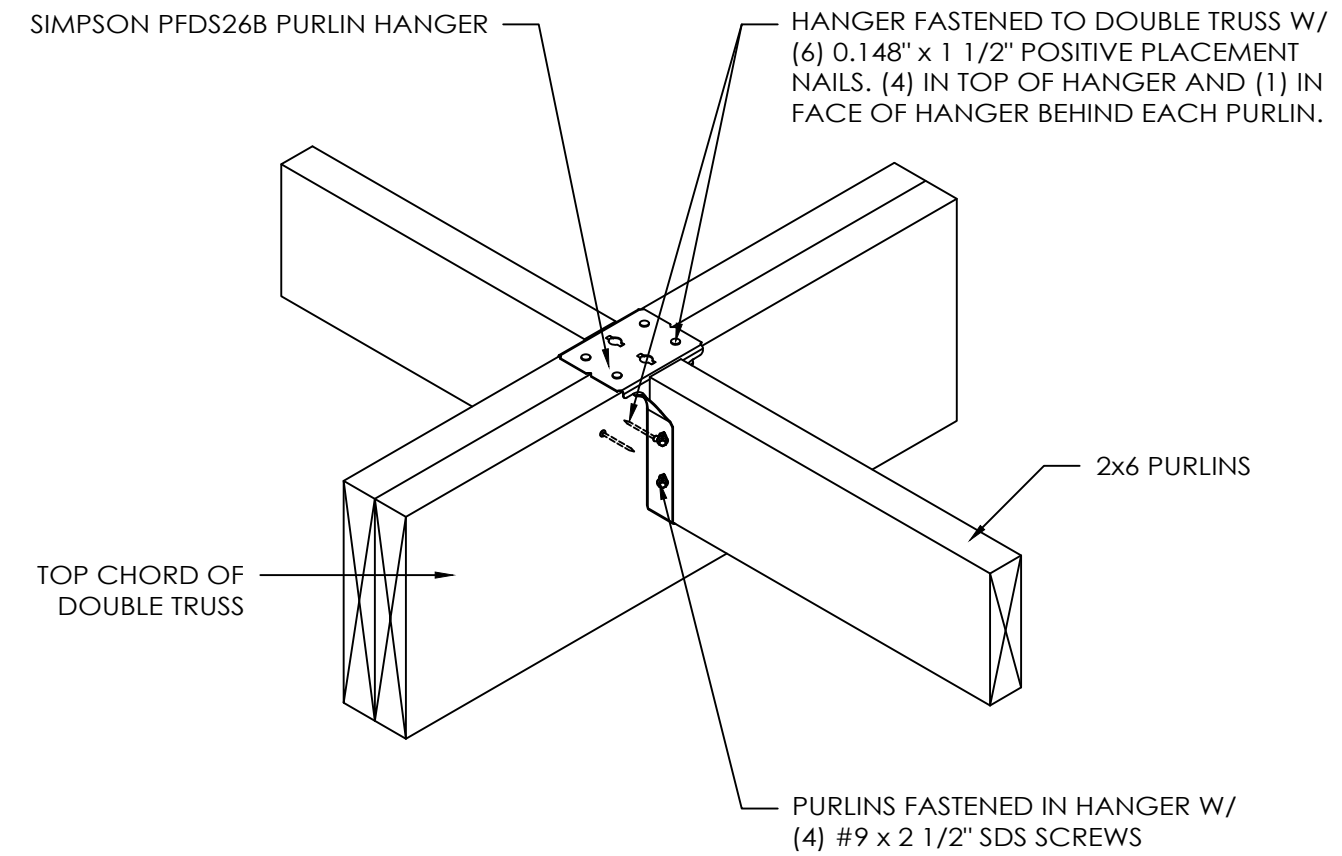


**2x6 BACKER BLOCK DETAIL**  
SCALE: 1" = 1'-0"

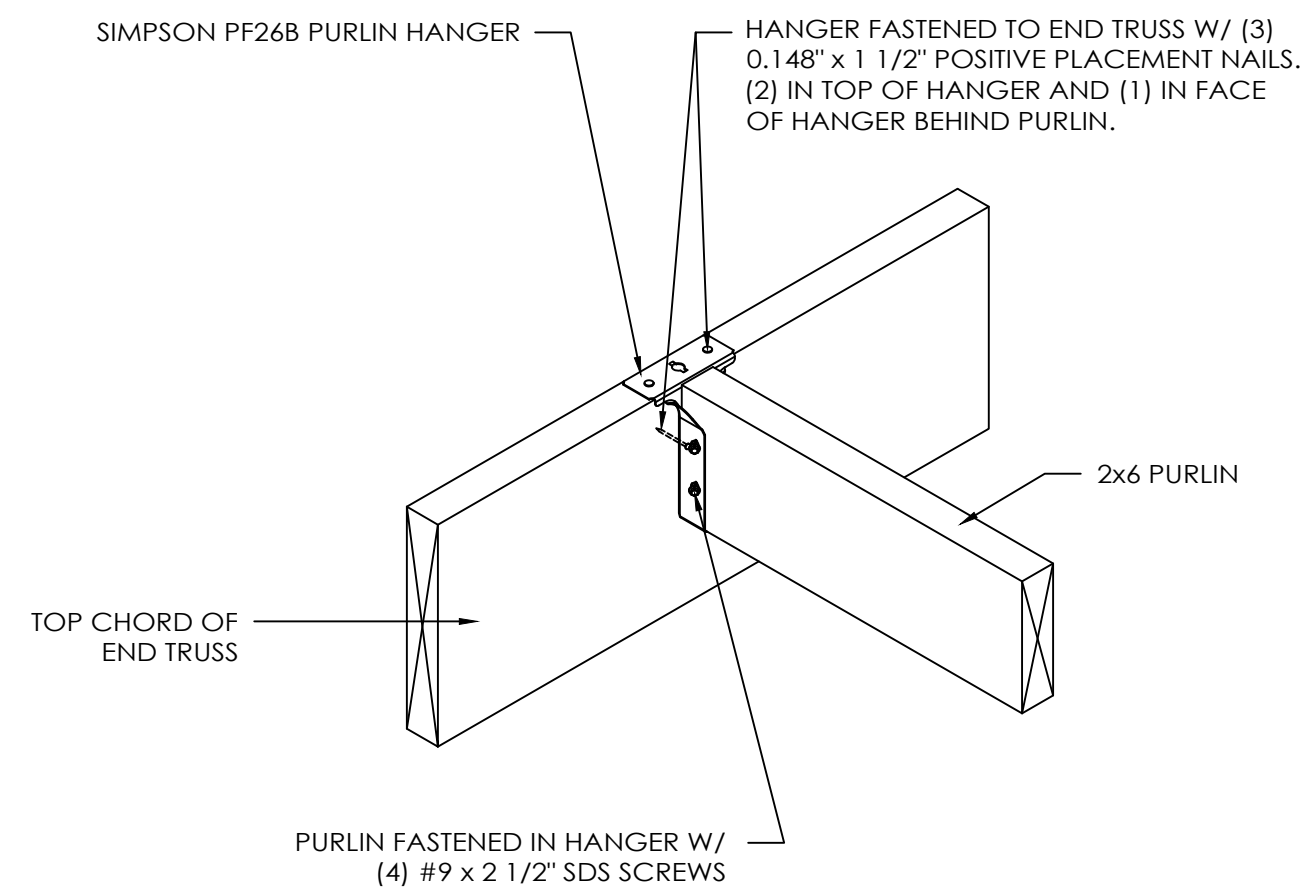
- \* - OSB FASTENING INSTRUCTIONS:**
- 1.) FIRST LAYER OF 3/4" OSB FASTENED W/ 8d NAILS @ 3" O.C. ALONG PANEL EDGES & @ 6" O.C. ALONG INTERMEDIATE FRAMING.
  - 2.) SECOND LAYER OF 3/4" OSB FASTENED W/ 10d NAILS @ 3" O.C. ALONG PANEL EDGES & @ 6" O.C. ALONG INTERMEDIATE FRAMING.



**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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