CENTERPLACE TURN LANE IMPROVEMENTS

A PORTION OF CENTERPLACE DRIVE WITH 46TH AND 44TH AVENUE, LOCATED IN SW1/4 OF SECTION 14, TOWNSHIP 5 NORTH, RANGE 66 WEST OF THE 6TH P.M., CITY OF GREELEY, COUNTY OF WELD, STATE OF COLORADO

CONSTRUCTION PLANS

KEY CONTACTS

GOVERNING AUTHORITIES:

OWNER
CITY OF GREELEY – PUBLIC WORKS
1001 9TH AVENUE
GREELEY, CO 80631
ATTN: BRIAN WARD 970–350–9357

CIVIL ENGINEER
JR ENGINEERING
7200 SOUTH ALTON WAY, SUITE C400
CENTENNIAL, CO 80112
ATTN: DAREN STERLING 303–267–6193

GEOTECHNICAL ENGINEER
TERRACON CONSULTANTS, INC.
1289 1ST AVENUE
GREELEY, CO 80631
ATTN: ERIC D. BERNHARDT 970–351–0460

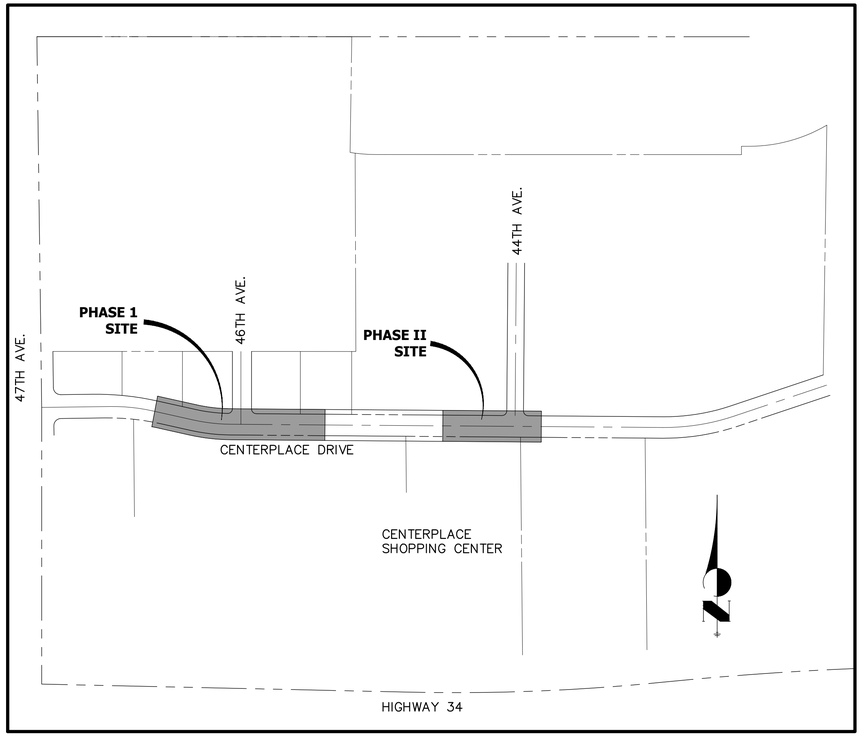
UTILITIES

ATMOS ENERGY
ATTN: JERRY ADAMS 970–304–2075

CENTURY LINK
ATTN: CARSON ORTEGA 970–392–4837

COMCAST
ATTN: KEVIN YOUNG 720–281–8666

XCEL ENERGY
ATTN: TOM MALONE 970–395–1207



VICINITY MAP
SCALE: 1"=300'

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TOTAL – 37

BENCHMARK

CITY OF GREELEY CONTROL POINT 81 MONUMENTED BY A 3–1/4" ALUMINUM CAP LOCATED SOUTH OF U.S. 34 BYPASS APPROXIMATELY 320' EAST OF 47TH AVENUE. SAID MONUMENT HAVING A PUBLISHED ELEVATION OF 4886.70' NAVD(88).

BASIS OF BEARING

THE NORTH LINE OF THE SOUTHWEST ¼ OF SECTION 14, TOWNSHIP 5 SOUTH, RANGE 66 WEST OF THE 6TH P.M. MONUMENTED BY A 3–1/4" ALUMINUM CAP STAMPED "LS 19617" AT THE WEST ¼ CORNER AND A 3–1/4" ALUMINUM CAP STAMPED "LS 7242" AT THE CENTER ¼ CORNER. SAID LINE BEARING S89°59'17"E AS REFERENCED TO THE COLORADO STATE PLANE NORTH ZONE.

CONSTRUCTION MUST BE IN ACCORDANCE WITH APPLICABLE CITY OF GREELEY CONSTRUCTION STANDARDS. THE CITY'S ACCEPTANCE ALLOWS FOR PLAN DISTRIBUTION AND PERMIT APPLICATION. THE CITY'S ACCEPTANCE SHALL NOT RELIEVE THE DESIGN ENGINEER'S RESPONSIBILITY FOR ERRORS, OMISSIONS, OR DESIGN DEFICIENCIES FOR WHICH THE CITY IS HELD HARMLESS.

ACCEPTED BY: _____ CITY ENGINEER _____ DATE

ACCEPTED BY: _____ WATER/SEWER CHIEF ENGINEER _____ DATE

ACCEPTED BY: _____ GREELEY FIRE CHIEF _____ DATE

ACCEPTED BY: _____ STORM WATER ENGINEER _____ DATE

ACCEPTED BY: _____ COMMUNITY DEVELOPMENT DIRECTOR _____ DATE

ABBREVIATIONS

AC	ACRE
AD	ALGEBRAIC DIFFERENCE
AH	AHEAD
ARCH	ARCHITECT
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASS'Y	ASSEMBLY
AVE	AVENUE
BB	BOX BASE
BK	BACK
BNDY	BOUNDARY
BOP	BOTTOM OF PIPE
BOV	BLOW OFF VALVE
BFV	BUTTERFLY VALVE
BLVD	BOULEVARD
BW	BOTTOM OF WALL
C&G	CURB & GUTTER
CATV	CABLE TELEVISION
CB	CATCH BASIN
CBC	CONCRETE BOX CULVERT
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION
CDS	CUL–DE–SAC
CF	CUBIC FOOT
CFS	CUBIC FEET PER SECOND
CIP	COMPLETE IN PLACE
CL	CENTER LINE
CLOMR	CONDITIONAL LETTER OF MAP REVISION
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
COCS	CITY OF COLORADO SPRINGS
CONC	CONCRETE
CR	CIRCLE
CSP	CORRUGATED STEEL PIPE
CSU	COLORADO SPRINGS UTILITIES
CT	COURT
CTRB	CONCRETE THRUST REDUCER BLOCK
CY	CUBIC YARD
DBPS	DRAINAGE BASIN PLANNING STUDY
DE	DRAINAGE EASEMENT
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DR	DRIVE
DRC	DESIGN REVIEW COMMITTEE
DU	DWELLING UNITS
DY	DAY
E	EAST
EA	EACH
EGL	ENERGY GRADE LINE
EL	ELEVATION
ELEC	ELECTRIC
EOA	EDGE OF ASPHALT
EPC	EL PASO COUNTY
ERCP	ELLIPTICAL RCP
ESMT	EASEMENT
EST	ESTIMATE
EX	EXISTING
FDP	FINAL DEVELOPMENT PLAN
FDR	FINAL DRAINAGE REPORT
FES	FLARED END SECTION
FF	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOWLINE
FIL	FILING
FO	FIBER OPTIC CABLE
GB	GRADE BREAK
GE	GAS EASEMENT
GIS	GEOGRAPHIC INFORMATION SYSTEM
GL	GAS LINE
GPS	GLOBAL POSITIONING SYSTEM
GV	GATE VALVE
HBP	HOT BITUMINOUS PAVEMENT
HC	HANDICAP
HDC	HIGH DEFLECTION COUPLING
HDPE	HIGH DENSITY POLYETHYLENE
HGL	HYDRAULIC GRADE LINE
HMA	HOT MIX ASPHALT
HOA	HOME OWNERS ASSOCIATION
HP	HIGH POINT
HR	HOUR
I	INLET
IE	IRRIGATION EASEMENT
INT	INTERSECTION
INV	INVERT
IRR	IRRIGATION
KB	KICK (THRUST) BLOCK
LB	POUND
LE	LANDSCAPE EASEMENT
LF	LINEAR FOOT
LN	LANE
LOMR	LETTER OF MAP REVISION
LP	LOW POINT
LS	LUMP SUM
LT	LEFT
MAX	MAXIMUM
M/D	MOISTURE DENSITY
MDDP	MASTER DEVELOPMENT DRAINAGE PLAN
MH	MANHOLE
MIN	MINIMUM
MS	MOUNTABLE SIDEWALK
N	NORTH
NRCP	NON–REINFORCED CONCRETE PIPE
ODP	OFFICIAL DEVELOPMENT PLAN
OHE	OVERHEAD ELECTRIC
OHU	OVERHEAD UTILITY
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PCR	POINT OF CURB RETURN
PDP	PRELIMINARY DEVELOPMENT PLAN
PE	PROFESSIONAL ENGINEER
PI	POINT OF INTERSECTION
PKWY	PARKWAY
PL	PROPERTY LINE
PR	PROPOSED
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCBC	REINFORCED CONCRETE BOX CULVERT
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
ROW	RIGHT OF WAY
RT	RIGHT
S	SOUTH
STE	STEEL
SAN	SANITARY SEWER
SF	SQUARE FOOT
ST	STREET
STA	STATION
STM	STORM SEWER
SY	SQUARE YARD
SY–IN	SQUARE YARD INCH
TB	THRUST BLOCK
TBC	TOP BACK OF CURB
TBW	TOP BACK OF WALK
TEL	TELEPHONE
TN	TON
TOA	TOP OF ASPHALT
TOB	TOP OF BOX
TOC	TOP OF CURB OR CONCRETE
TOF	TOP OF FOUNDATION
TOP	TOP OF PIPE
TW	TOP OF WALL
TYP	TYPICAL
UDFCD	URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
UE	UTILITY EASEMENT
U&DE	UTILITY & DRAINAGE EASEMENT
UGE	UNDERGROUND ELECTRIC
VCP	VITRIFIED CLAY PIPE
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
VTC	VEHICLE TRACKING CONTROL
W	WEST
WL	WATER LINE
WM	WATER MAIN
WRD	WATER RESOURCES DEPARTMENT
WS	WATER SURFACE
WSE	WATER SURFACE ELEVATION
WTR	WATER
YR	YEAR

ENGINEER'S STATEMENT

PREPARED UNDER MY SUPERVISION

ELIJAH C. FARNEY, P.E. DATE
COLORADO P.E. 41677
FOR AND ON BEHALF OF JR ENGINEERING, LLC

COVER SHEET
CENTERPLACE TURN LANE IMPROVEMENTS
JOB NO. 39722.02
01/31/20
SHEET 1 OF 37

J·R ENGINEERING
A Westrian Company

Centennial 303–740–9393 • Colorado Springs 719–593–2593
Fort Collins 970–491–9888 • www.jrengineering.com

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GENERAL NOTES

1. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY, OR EASEMENT SHALL CONFORM TO THE CITY OF GREELEY CONSTRUCTION SPECIFICATIONS AND DESIGN STANDARDS. ALL CONSTRUCTION WORK TO BE ACCEPTED BY THE CITY SHALL CONFORM TO THE CITY OF GREELEY CONSTRUCTION SPECIFICATIONS AND DESIGN STANDARDS.
2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS PRIOR TO COMMENCEMENT OF ANY WORK ON THE PROJECT. A PERMIT FROM PUBLIC WORKS DEPARTMENT (970-350-9881) IS REQUIRED FOR ALL CONSTRUCTION IN PUBLIC RIGHT-OF-WAY OR EASEMENTS. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD WITH CITY REPRESENTATIVES BEFORE A PERMIT WILL BE ISSUED. CALL UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 FOR UTILITY LOCATES AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
3. THE CONTRACTOR SHALL NOTIFY CONSTRUCTION SERVICES (970-350-9358) AT LEAST 24 HOUR PRIOR TO REQUIRED INSPECTION.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CITY OF ANY PROBLEMS IN CONFORMING TO THE ACCEPTED PLANS FOR ANY ELEMENT OF THE PROPOSED IMPROVEMENTS PRIOR TO ITS CONSTRUCTION.
5. IT IS THE RESPONSIBILITY OF THE ENGINEER DURING CONSTRUCTION ACTIVITIES TO RESOLVE CONSTRUCTION PROBLEMS DUE TO CHANGED CONDITIONS, OR DESIGN ERRORS ENCOUNTERED BY THE CONTRACTOR DURING THE PROGRESS OF ANY PORTION OF THE PROJECT. IF, IN THE OPINION OF THE CITY, THE MODIFICATIONS PROPOSED TO THE ACCEPTED PLANS, INVOLVE SIGNIFICANT CHANGES TO THE CHARACTER OF THE WORK, OR TO THE FUTURE CONTIGUOUS PUBLIC OR PRIVATE IMPROVEMENTS, THE ENGINEER SHALL BE RESPONSIBLE FOR RE-SUBMITTING THE REVISED PLANS TO THE CITY OF GREELEY FOR ACCEPTANCE PRIOR TO ANY FURTHER CONSTRUCTION RELATED TO THAT PORTION OF THE PROJECT. ANY IMPROVEMENTS NOT CONSTRUCTED IN ACCORDANCE WITH THE ACCEPTED PLANS, OR THE ACCEPTED REVISED PLANS, SHALL BE REMOVED AND RECONSTRUCTED ACCORDING TO THE APPROVED PLAN.
6. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS AT AND ADJACENT TO THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE CITY TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.
7. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG PERSONS, OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND THE GREELEY SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
8. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL SURVEY MONUMENTS. ANY MONUMENT THAT MUST BE DESTROYED FOR CONSTRUCTION SHALL BE REPLACED. THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A PROFESSIONAL LICENSED SURVEYOR (PLS) PRIOR TO DISTURBING ANY MONUMENTS.
9. PRIOR TO FINAL PLACEMENT OF SURFACE PAVEMENT, ALL UNDERGROUND UTILITY MAINS SHALL BE INSTALLED AND SERVICE CONNECTIONS STUBBED OUT BEYOND CURB LINE, WHEN ALLOWED BY THE UTILITY. SERVICE FROM PUBLIC UTILITIES AND FROM SANITARY SEWERS SHALL BE MADE AVAILABLE FOR EACH LOT IN SUCH A MANNER THAT WILL NOT BE NECESSARY TO DISTURB THE STREET PAVEMENT, CURB, GUTTER, AND SIDEWALK WHEN CONNECTIONS ARE MADE.
10. A GEOTECHNICAL REPORT HAS BEEN PREPARED BY TERRACON (PROJECT #21185030, DATED JULY 24, 2018) FOR RIGHT-OF-WAY GRADING AND PAVING. REFER TO GEOTECHNICAL REPORT FOR ANY REQUIREMENTS EXCEEDING CITY STANDARDS. A FINAL PAVEMENT DESIGN REPORT IS ALSO REQUIRED. THE SOIL INVESTIGATION FOR THIS REPORT SHALL OCCUR AFTER UTILITY CONSTRUCTION AND GRADING FOR STREETS IS COMPLETED TO WITHIN 6" OF ANTICIPATED SUBGRADE. THE FINAL PAVEMENT DESIGN REPORT SHALL BE ACCEPTED BY THE CITY OF GREELEY PRIOR TO ANY CONCRETE PAVEMENT, ASPHALT PAVEMENT OR SUBGRADE INSTALLATION.
11. ALL OVER LOT GRADING IN THE RIGHT-OF-WAY OR EASEMENT SHALL BE COMPLETED PRIOR TO INSTALLING POTABLE WATER, SANITARY SEWER, OR NON-POTABLE IRRIGATION LINES.
12. MAINTAIN A MINIMUM OF TEN (10) FEET HORIZONTAL CLEAR DISTANCE SEPARATION BETWEEN POTABLE WATER MAINS/SERVICES AND SANITARY SEWER OR NON-POTABLE IRRIGATION MAINS/SERVICES. POTABLE WATER MAINS/SERVICES ARE TO BE LOCATED 18-INCHES MINIMUM ABOVE THE SANITARY SEWER OR NON-POTABLE IRRIGATION MAINS/SERVICES. IF FIELD CONDITIONS VARY FROM THOSE SHOWN ON THESE PLANS AND THE SANITARY SEWER OR NON-POTABLE MAINS/SERVICES CANNOT BE LOCATED BELOW THE WATER MAIN OR SERVICE, A CLEAR VERTICAL DISTANCE OF EIGHTEEN (18) INCHES BELOW CANNOT BE MAINTAINED, OR A MINIMUM TEN (10) FOOT HORIZONTAL SEPARATION CANNOT BE ACHIEVED, THE CITY SHALL BE CONTACTED IMMEDIATELY TO REVIEW THE SITUATION.
13. IN ALL INSTANCES WHERE A WATER LINE LOWERING, POTABLE OR NON-POTABLE, IS REQUIRED DUE TO UNFORSEEN FIELD CONDITIONS, A DETAILED DRAWING SHALL BE PROVIDED TO THE CITY FOR ACCEPTANCE PRIOR TO PERFORMING THE WORK.
14. WHERE POTABLE WATER, SANITARY SEWER, AND NON-POTABLE IRRIGATION LINES ARE LOCATED IN COMMON UTILITY EASEMENT AREAS, THERE SHALL BE NO OTHER UTILITIES LOCATED HORIZONTALLY WITHIN TEN (10) FEET OF EITHER LINE EXCEPT AT APPROVED CROSSINGS.
15. CONTRACTOR SHALL NOTIFY THE CITY ONE (1) WEEK PRIOR TO COMMENCING WORK AFTER CITY ACCEPTED CONSTRUCTION DRAWINGS HAVE BEEN DISTRIBUTED AND A PRECONSTRUCTION MEETING HAS BEEN HELD WITH THE CITY.
16. CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES TO BE CROSSED BY POTABLE WATER, SANITARY SEWER, OR NON-POTABLE IRRIGATION LINES AT LEAST 24 HOURS PRIOR TO CROSSING TO ENSURE 18"MINIMUM CLEARANCE FOR OPEN CUT CROSSINGS AND 36"MINIMUM CLEARANCE FOR BORED CROSSINGS. HORIZONTAL AND VERTICAL LOCATION OF CROSSED EXISTING UTILITIES SHALL BE RECORDED ON THE AS-CONSTRUCTED RECORD DRAWINGS.
17. SHOULD ANY VARIATIONS BEFORE OR DURING CONSTRUCTION TO THE POTABLE WATER DISTRIBUTION, SANITARY SEWER COLLECTION, OR NON-POTABLE IRRIGATION SYSTEM DESIGNS BE CONSIDERED, NOTICE MUST FIRST BE GIVEN TO THE CITY TO DETERMINE IF IT NEEDS ACCEPTANCE BY THE CITY. IF SO, A NEW PLAN SHALL BE DRAWN AND SUBMITTED TO THE CITY FOR ACCEPTANCE BY THE DESIGN ENGINEER 72 HOURS PRIOR TO CONSTRUCTION.
18. FINAL CONSTRUCTION PLANS ARE VALID FOR CONSTRUCTION TWO (2) YEARS FROM THE DATE OF CITY SIGNATURE ACCEPTANCE.
19. ALL POTABLE WATER MAINS, SERVICES, AND HYDRANT LINES SHALL HAVE A MINIMUM COVER OF FIVE (5) FEET AND A MAXIMUM COVER OF SIX (6) FEET UNLESS OTHERWISE INDICATED ON THE ACCEPTED CONSTRUCTION DRAWINGS.
20. ALL NON-POTABLE WATER MAINS AND SERVICES SHALL HAVE A MINIMUM COVER OF THREE AND A HALF (3.5) FEET AND A MAXIMUM COVER OF SIX (6) FEET UNLESS OTHERWISE INDICATED ON THE ACCEPTED CONSTRUCTION DRAWINGS.
21. ALL NEW WATER MAINS SHALL BE BULKHEADED AND TESTED AND APPROVED PRIOR TO CONNECTION TO THE EXISTING WATER SYSTEM. VALVES WHICH PASS TESTING FOR PRESSURE AND LEAKAGE AT THE TIME OF INSTALLATION AND THE TESTING WAS PERFORMED IN THE PRESENCE OF THE CITY MAY BE CONSIDERED AS A BULKHEAD.
22. VERIFICATION SURVEY – TOP OF PIPE ELEVATIONS AT ALL POTABLE AND NON-POTABLE WATER LINE VALVES, AND SANITARY SEWER MANHOLE INVERTS SHALL BE SURVEYED AND PROVIDED TO THE CITY BY THE DESIGN ENGINEER FOR ACCEPTANCE PRIOR TO PAVING CONSTRUCTION. THE VERIFICATION SURVEY SHALL ALSO PROVIDE SEWER PIPE SLOPES AND LENGTH AND PROPOSED FINISHED GROUND ELEVATIONS AT ALL VALVE BOXES AND MANHOLE RIM ELEVATIONS.
23. ALL UTILITY CONDUIT CROSSINGS OF POTABLE WATER, SANITARY SEWER AND NON-POTABLE IRRIGATION LINES SHALL BE ENCASED IN HIGH DENSITY POLYETHYLENE (HDPE) PIPE, WITH A MINIMUM STANDARD DIMENSION RATIO (SDR) 11 ACROSS THE ENTIRE EASEMENT OR RIGHT-OF-WAY WIDTH. THE ENCASEMENT JOINT SHALL BE BUTT FUSED. FLEXIBLE JOINTS ARE NOT ALLOWED.
24. WET TAPS SHALL BE DRILLED BY THE CITY FOR A FEE. CALL 970-350-9810 AT LEAST 48 HOURS IN ADVANCE TO PAY FEES AND SCHEDULE TAP.

LANDSCAPE NOTES

1. SHOWN AND LABELED IRRIGATION TAPS AND METERS, INCLUDING SIZE.
2. NO PLANT MATERIAL WITH MATURE GROWTH GREATER THAN THREE (3) FEET IN HEIGHT SHALL BE PLANTED WITHIN POTABLE WATER, SANITARY SEWER, OR NON-POTABLE IRRIGATION EASEMENTS.
3. NO SHRUBS SHALL BE PLANTED WITHIN FIVE (5) FEET OR TREES WITHIN TEN (10) FEET OF POTABLE AND NON-POTABLE WATER METERS, FIRE HYDRANTS, SANITARY SEWER MANHOLES, OR POTABLE WATER, SANITARY SEWER, OR NON-POTABLE IRRIGATION MAINS AND SERVICES.

EROSION CONTROL NOTES

1. CONTRACTOR SHALL INSTALL ALL PERIMETER SEDIMENT AND EROSION CONTROL DEVICES INCLUDING, BUT NOT LIMITED TO, SILT FENCE, INLET PROTECTION, VTC PAD, WHEEL WASHOUT, AND SEDIMENT BASINS BEFORE COMMENCING ANY LAND CLEARING OR GRADING ACTIVITIES. THE CONTRACTOR SHALL LIMIT TOPSOIL STRIPPING OPERATIONS TO WITHIN THE AREAS IN WHICH THEY WILL BE IMMEDIATELY WORKING. THE CONSTRUCTION OF UNDERGROUND UTILITIES SHALL BE INCLUDED AS A LAND DISTURBING ACTIVITY. ALL EXCAVATED MATERIAL SHALL BE PLACED WHERE SEDIMENT WILL ERODE BACK INTO THE TRENCH. ALL TRENCHES SHALL BE BACKFILLED BY THE END OF THE DAYS WORK; BACKFILL SHALL BE PERMANENTLY STABILIZED BEFORE CONSTRUCTION IS CONSIDERED COMPLETE.
2. ALL DISTURBED AREAS AND SOIL STOCKPILES SHALL BE ADEQUATELY STABILIZED AS DEFINED IN THE URBAN DRAINAGE FLOOD CONTROL DISTRICT (UDFCD), VOLUME 3, CONSTRUCTION BEST MANAGEMENT PRACTICES, SECTION 3.0 "EROSION CONTROL". ALL DISTURBED SOILS AND SOIL STOCKPILES SHALL BE WATERED AND MAINTAINED IN A ROUGHENED CONDITION AT ALL TIMES DURING CONSTRUCTION ACTIVITIES TO PREVENT WIND-CAUSED EROSION. ALL LAND DISTURBING ACTIVITIES WILL BE IMMEDIATELY DISCONTINUED WHEN FUGITIVE DUST IMPACTS ADJACENT PROPERTIES, AS DETERMINED BY CITY INSPECTOR. PERMANENT OR TEMPORARY NATIVE SEED (SEE EROSION CONTROL STRUCTURES – DETAIL 12-2 FOR SEEDING SPECIFICATIONS) SOIL STABILIZATION SHALL BE REQUIRED WITHIN 7 DAYS AFTER FINAL GRADE IS REACHED. IF DISTURBED AREAS OR STOCKPILES ARE NOT BROUGHT TO FINAL GRADE WITHIN 30 DAYS FOLLOWING THE INITIAL DISTURBANCE, OR RE-DISTURBANCE, TEMPORARY STABILIZATION MEASURES SHALL BE REQUIRED. NO SOIL STOCKPILE SHALL EXCEED TEN (10) FEET IN HEIGHT. ALL SOIL STOCKPILE SIDE SLOPES SHALL NOT EXCEED A SLOPE OF 4V:1H.
3. ALL STORM SEWER INLETS SHALL BE PROTECTED FROM THE ENTRY OF SEDIMENT-LADEN WATER. HAY BALES ARE NOT RECOGNIZED BY THE CITY OF GREELEY AS AN ACCEPTABLE FORM OF EROSION CONTROL.
4. INSPECTION OF ALL EROSION AND SEDIMENT CONTROL BMP'S SHALL BE REQUIRED AT THE END OF EACH DAY'S WORK, WITH NECESSARY MAINTENANCE AND REPAIRS PROVIDED IMMEDIATELY. THE CITY OF GREELEY INSPECTOR SHALL, AT THEIR DISCRETION, REQUIRE ANY EROSION CONTROL DEVICES BE REPAIRED, REPLACED, RELOCATED, MODIFIED, OR REMOVED. SUCH REQUESTS SHALL BE COMPLETED WITHIN 5 WORKING DAYS FOLLOWING RECEIPT OF THE WRITTEN REQUEST FROM THE INSPECTOR. ALL PUBLIC RIGHT OF WAY POLLUTED WITH DIRT, MUD, OR DEBRIS SHALL BE SWEPT CLEAN AT THE END OF EACH DAYS WORK OR AFTER STORM EVENTS, AS NECESSARY. ALL TEMPORARY AND PERIMETER EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AS SOON AS THEIR FUNCTION HAS BEEN FULFILLED. SEDIMENT TRAPS/BASINS SHALL BE CLEANED AND REMOVED, OR STABILIZED, WHEN ALL UPSTREAM AREAS ARE PERMANENTLY STABILIZED. THE SITE CONTRACTOR IS RESPONSIBLE FOR PROPERLY DISPOSING OFF ALL SILT FROM THE SITE, IF IT IS NOT REUSABLE ON SITE.
5. THE LANDOWNER SHALL BE HELD RESPONSIBLE FOR THE LONG-TERM STABILITY OF CUT AND FILL SLOPES AND THE SUCCESSFUL ESTABLISHMENT OF PERMANENT VEGETATIVE COVER ON EXPOSED SOILS AS DEFINED IN THE UDFCD, VOLUME 3, CONSTRUCTION BEST MANAGEMENT PRACTICES, SECTION 3.2 "MULCHING".
6. ALL CONSTRUCTION SUPPLIES OR MATERIALS USED OR STORED ON SITE MUST BE DISPOSED OF PROPERLY AND MUST MEET ALL APPLICABLE MATERIAL SAFETY DATA SHEET CRITERIA.
7. THE STATE STORMWATER DISCHARGE PERMIT HOLDER MAY BE LIABLE FOR ANY VIOLATIONS RESULTING FROM THE ACTIONS TAKEN BY SITE CONTRACTORS, SUBCONTRACTORS, MAINTENANCE CREW, ETC.
8. A STORMWATER MANAGEMENT PLAN (SWMP) PERMIT WILL BE REQUIRED.

STORMWATER NOTES

1. BEDDING FOR ALL STORM DRAIN SHALL BE PER THE STANDARD STORM DRAIN BEDDING DETAILS – DETAILS 6-6 AND 6-7 FOR REINFORCED CONCRETE PIPE AND POLYWRAPPED DUCTILE IRON PIPE.
2. ALL STORM DRAINAGE CONSTRUCTION SHALL CONFORM TO THE CITY OF GREELEY'S MOST RECENT STORM DRAINAGE SPECIFICATIONS. A COPY OF THE SPECIFICATIONS MAY BE OBTAINED FROM THE CITY OR FOUND ON THE CITY'S WEB PAGE – GREELEYGOV.COM.
3. RCP SHALL HAVE FLEXIBLE GASKET MATERIAL (WATER TIGHT RUBBER GASKETS) MEETING ASTM C443 AND TYPE 4-G BELL AND SPIGOT JOINTS. DUCTILE IRON PIPE SHALL BE POLYWRAPPED IN ACCORDANCE WITH AWWA STANDARDS C-105.
4. PRIOR TO PLACING ANY FILL, STRIP AND REMOVE EXISTING VEGETATION, TOPSOIL, AND ANY OTHER DELETERIOUS MATERIALS FROM THE PROPOSED CONSTRUCTION AREAS. THE TOP TWELVE (12) INCHES OF EXISTING FILL SHALL BE OVER-EXCAVATED, MOISTURE CONDITIONED AND RECOMPACTED BELOW THE PROPOSED PAVEMENTS.
5. THE ON-SITE SOILS OR APPROVED GRANULAR AND LOW PLASTICITY COHESIVE IMPORTED MATERIALS MAY BE USED AS FILL MATERIAL. DEMOLITION MATERIALS EXCAVATED DURING SITE DEVELOPMENT AND CONSTRUCTION CAN BE REUSED AS FILL PROVIDED THE MATERIAL IS PROCESSED TO A MAXIMUM SIZE OF 2 INCHES AND BLENDED AT A RATIO OF 30 PERCENT ASPHALT/CONCRETE TO 70 PERCENT OF ON-SITE SOILS.
6. ALL AREAS IMPACTED BY THE CONSTRUCTION SHALL BE CLEARED OF PRODUCT GENERATED DEBRIS BY THE CONTRACTOR AT THE EARLIEST OPPORTUNITY, BUT IN NO CASE SHALL ANY ROADS OR WALKWAYS BE LEFT UNCLEARED AFTER THE COMPLETION OF THE DAY'S WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE NECESSARY EQUIPMENT AND MATERIAL TO SATISFACTORILY CLEAN THE ROADWAYS.

TRAFFIC SIGNAL NOTES

1. THIS WORK CONSISTS OF FURNISHING AND INSTALLING A TRAFFIC SIGNAL AT THE LOCATIONS SHOWN.
2. TRAFFIC SIGNAL MATERIALS AND INSTALLATION SHALL COMPLY WITH THE CITY OF GREELEY DESIGN CRITERIA AND CONSTRUCTION SPECIFICATIONS AND THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" PUBLISHED BY THE COLORADO DEPARTMENT OF TRANSPORTATION (2017) AS AMENDED AND AS MODIFIED BY THE PLANS AND SPECIFICATIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES AND PROTECTING THEM DURING CONSTRUCTION. THE CONTRACTOR SHALL HOLD THE CITY OF GREELEY HARMLESS FOR DAMAGE ARISING FROM FAILURE TO ADEQUATELY PROTECT UTILITIES.
4. LOCATIONS OF SIGNAL POLES, CONTROLLER CABINET, CONDUIT, PULL BOXES ARE APPROXIMATE. EXACT PLACEMENT SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
5. ALL ITEMS NOT SHOWN IN THE LIST OF QUANTITIES SHALL BE CONSIDERED INCIDENTAL AND SHALL NOT BE PAID SEPARATELY.
6. THE CONTRACTOR SHALL INSTALL THE FOLLOWING EQUIPMENT:
   - 6.1. METER PEDESTAL TESCO PADMOUNT 26-000 WITH BASE (120/240 VOLT 1 PHASE 3 WIRE)
   - 6.2. TRAFFIC SIGNAL CABINET MCCAIN 332D WITH CLARY BATTERY BACKUP
   - 6.3. SIGNAL HEADS MCCAIN 12"
   - 6.4. MOUNTING BRACKETS FOR SIGNAL HEAD SKY BRACKET
   - 6.5. PUSH BUTTONS POLARA 2 WIRE AUDIBLE PEDESTRIAN BUTTONS
   - 6.6. DETECTION WAVETRONIX STOP BAR DETECTION
   - 6.7. SIGNAL POLES SHALL COMPLY WITH AASHTO 2015 GREELEY SPECIFICATIONS AND SUPPLIED BY M&H LIGHTING/VALMONT

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ENGINEER'S STATEMENT

PREPARED UNDER MY SUPERVISION

ELIJAH C. FARNEY, P.E.
COLORADO P.E. 41677
FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE

COLORADO LICENSED ELIJAH C. FARNEY 41677 PROFESSIONAL ENGINEER

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR
BRIAN WARD
CITY OF GREELEY-PUBLIC WORKS
1001 9TH AVENUE
GREELEY, CO 80631
(970) 350-9792

J·R ENGINEERING
A Westrian Company
Centennial 303-740-9393 • Colorado Springs 719-593-2593
Fort Collins 970-491-9888 • www.jrengineering.com

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CENTERPLACE TURN LANE IMPROVEMENTS

GENERAL NOTES

SHEET 2 OF 37

JOB NO. 39722.02

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LAYER LINETYPE LEGEND

	EXISTING	PROPOSED
PHASE LINE		
MATCH LINE		
SECTION LINE		
BOUNDARY LINE		
PROPERTY LINE		
EASEMENT LINE		
RIGHT OF WAY		
R.O.W. A LINE	A	A
CENTERLINE		
CITY LIMITS		
WIRE FENCE	×	×
CHAIN LINK FENCE	○	●
WOOD FENCE	◇	◆
MASONRY FENCE	□	■
GUARDRAIL		
CONC. BARRIER		
CABLE TV	TV	TV
ELECTRIC	E	E
FIBER OPTIC	FO	FO
GAS MAIN	G	G
IRRIGATION MAIN	IRR	IRR
OIL/PETRO. MAIN	O	O
OVERHEAD UTILITY	OHU	OHU
SANITARY SEWER	S	
STORM DRAIN		
TELEPHONE	T	T
WATER MAIN	W	W
RAW WATER LINE	RWL	RWL
SWALE/WATERWAY FLOWLINE		
DIVERSION DITCH		
DIVERSION CHANNEL		
MAJOR DRAINAGE BASIN		
MINOR DRAINAGE BASIN		
TOP OF SLOPE		
TOE OF SLOPE		
EDGE OF WATER		
INDEX CONTOUR	6100	6100
INTERMEDIATE CONTOUR		
DEPRESSION CONT. (INDEX)	6100	6100
DEPRESSION CONT. (INTER)		
TOP OF CUTS		
TOE OF FILLS		
CUT AND FILL LINE		C/F C/F
SILT FENCE	SF	SF
100 YEAR FLOODPLAIN	100YR	100YR
500 YEAR FLOODPLAIN	500YR	500YR
FLOODWAY	FLDWY	FLDWY
BASE FLOOD ELEVATION		
EDGE OF WETLANDS		
STONE WALL		

UTILITIES LEGEND

	EXISTING	PROPOSED
STORM SEWER		
MANHOLE	Ⓢ	●
STORM INLET		■
AREA INLET – SQUARE	□	
AREA INLET – ROUND	○	
FLARED END SECTION	▷	
RIPRAP		
SANITARY SEWER		
LINE MARKER	Mkr San	
SERVICE MARKER		
CLEAN-OUT		
MANHOLE W/ DIRECTIONAL FLOW ARROW		
WATER LINE		
LINE MARKER	Mkr W	
SERVICE MARKER		
FIRE HYDRANT		
FIRE CONNECTION		
MANHOLE	Ⓦ	●
BEND		
BLOW-OFF VALVE		
WELL	WELL	WELL
METER	Ⓜ	●
VALVE		
REDUCER		
THRUST BLOCK		
CROSS		
PLUG W/ THRUST BLOCK		
TEE		
REVERSE ANCHOR		
ANODE		
AIR & VACUUM VALVE ASSEMBLY		
TRANSMISSION BLOW-OFF ASSEMBLY		
GAS LINE		
MARKER	Mkr G	
SERVICE MARKER		
METER		
VALVE		
PLUG		
TEE		
DRY UTILITIES		
CABLE TV MARKER	Mkr TV	
CABLE TELEVISION PEDESTAL	TV	
ELECTRIC MARKER	Mkr E	
ELECTRIC SERVICE MARKER		
ELECTRICAL PEDESTAL	E	
ELECTRICAL METER	E	
ELECTRICAL MANHOLE	E	
FIBER-OPTIC MARKER	Mkr FO	
IRRIGATION PEDESTAL	I	
TELEPHONE MARKER	Mkr T	
TELEPHONE PEDESTAL	T	
TELEPHONE MANHOLE	T	
UTILITY POLE		
GUY ANCHOR		
GUY POLE		
MISC. UTILITIES		
VENT PIPE	VP	VP
TEST HOLE DESIGNATOR	TH# FIRM/AGENCY	

MONUMENTATION LEGEND

ALUMINUM CAP – FOUND	AC
BRASS CAP – FOUND	BC
BENCHMARK – FOUND	
CROSS – FOUND	
MONUMENT – SET	
MONUMENT – FOUND (DEFAULT)	
MONUMENT – FOUND (ALTERNATE 1)	
MONUMENT – FOUND (ALTERNATE 2)	
MONUMENT – FOUND (ALTERNATE 3)	
MONUMENT – FOUND (ALTERNATE 4)	
MONUMENT – FOUND (ALTERNATE 5)	
MONUMENT – FOUND (ALTERNATE 6)	
MONUMENT – FOUND (ALTERNATE 7)	
NAIL & WASHER – FOUND	NAIL & WASHER
PANEL – FOUND	
PK NAIL – FOUND	PK NAIL
ROW MONUMENT – FOUND	
ROW MARKER – FOUND	
SECTION CORNER – FOUND	
SECTION CORNER – SET	
QUARTER-SECTION CORNER – FOUND	
QUARTER-SECTION CORNER – SET	
SECTION CENTER – FOUND	
SECTION CENTER – FOUND	
CONTROL/TRAVERSE POINT – SET	

TRAFFIC LEGEND

	EXISTING	PROPOSED
PARKING METER		
TRAFFIC SIGNAL BOX		
TRAFFIC SIGNAL POLE		
TRAFFIC SIGNAL		
BARRICADE		
GUARD RAIL POST		
IMPACT ATTENUATOR		
BRIDGE STYLE HIGHWAY SIGN POST		
CANTILEVER STYLE HIGHWAY SIGN POST		
SIGN		
RAILROAD MARKER/SIGN		
STREET LIGHT		
STREET LIGHT – SINGLE		
STREET LIGHT – DOUBLE		
LUMINAIRE		
ALTERNATE LUMINAIRE		
SIGNAL MAST ARM W/ LUMINAIRE		
PEDESTAL POLE FOUNDATION		
TRAFFIC SIGNAL POLE		
ROUND PULL BOX		
MEDIUM PULL BOX		
LARGE PULL BOX (20X33X15)		
SIGNAL HEAD WITHOUT BACK PLATE		
SIGNAL HEAD WITH BACK PLATE		
PEDESTRIAN SIGNAL HEAD		
VIDEO IMAGE DETECTOR		
OPTICOM DETECTOR		
VEHICLE DETECTION ZONE		V

STORM WATER MANAGEMENT

	KEY	SYMBOL
CHECK DAM	CD	
CONSTRUCTION ROAD STABILIZATION	CRS	
CURB SOCK INLET PROTECTION	CS	
CONCRETE WASHOUT AREA	CWA	
DIVERSION DITCH AND DIKE, TEMPORARY	DD	
DIVERSION CHANNEL, TEMPORARY	DV	
DEWATERING	DW	
EROSION CONTROL BLANKET	ECB	
INLET FILTER	IF	
INLET PROTECTION	IP	
MULCHING	MU	
OUTLET PROTECTION	OP	
PAVED FLUME	PF	
PERMENENT SEEDING	PS	
REINFORCED CONCRETE DAM	RCD	
ROUGH CUT STREET CONTROL	RCS	
SEDIMENT BASIN	SB	
SEDIMENT CONTROL LOG	SCL	
SILT FENCE	SF	
SURFACE ROUGHENING	SR	
STABILIZED STAGING AREA	SSA	
SEDIMENT TRAP	ST	
STRAW BALE BARRIER	STB	
TERRACING	TER	
TEMPORARY SEEDING	TS	
TEMPORARY STREAM CROSSING CULVERT/BRIDGE	TSC C	
TEMPORARY STREAM CROSSING FORD TYPE	TSC F	
TEMPORARY SLOPE DRAIN	TSD	
VEHICLE TRACKING CONTROL	VTC	
VEHICLE TRACKING CONTROL WITH WASH RACK	WR	

DRAINAGE REPORT PLANS

	KEY
BASIN DESIGNATION (NO COEFFICIENT)	# / #.#
BASIN DESIGNATION (1 COEFFICIENT)	# / #.# / #
BASIN DESIGNATION (2 COEFFICIENTS)	# / #.# / # / #
ANALISYS POINT IDENTIFIER	#
BASIN DESIGNATION (HISTORIC)	# / #.#
BASIN DESIGNATION (DEVELOPED)	# / #.#
SUB-BASIN DESIGNATION (DEVELOPED)	# / #.#
DRAINAGE PIPE IDENTIFIER	##
DRAINAGE POINT IDENTIFIER (HEXAGONAL)	##
DRAINAGE POINT IDENTIFIER (TRIANGULAR)	?
SWMM DESIGNATION 1	#
SWMM DESIGNATION 2	#
SWMM DESIGNATION 3	#
SWMM DESIGNATION 4	?

LANDSCAPE LEGEND

	EXISTING	PROPOSED
TREE – CONIFEROUS		
TREE – DECIDUOUS		
SHRUB/BUSH		
SHRUBS AND BUSHES		
IRRIGATION BOX		
IRRIGATION SPRINKLER		
IRRIGATION VALVE		
BOLLARD		
FLAGPOLE	FP	

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COLORADO P.E. 41677
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CENTERPLACE TURN LANE IMPROVEMENTS

LEGEND

SHEET 3 OF 37

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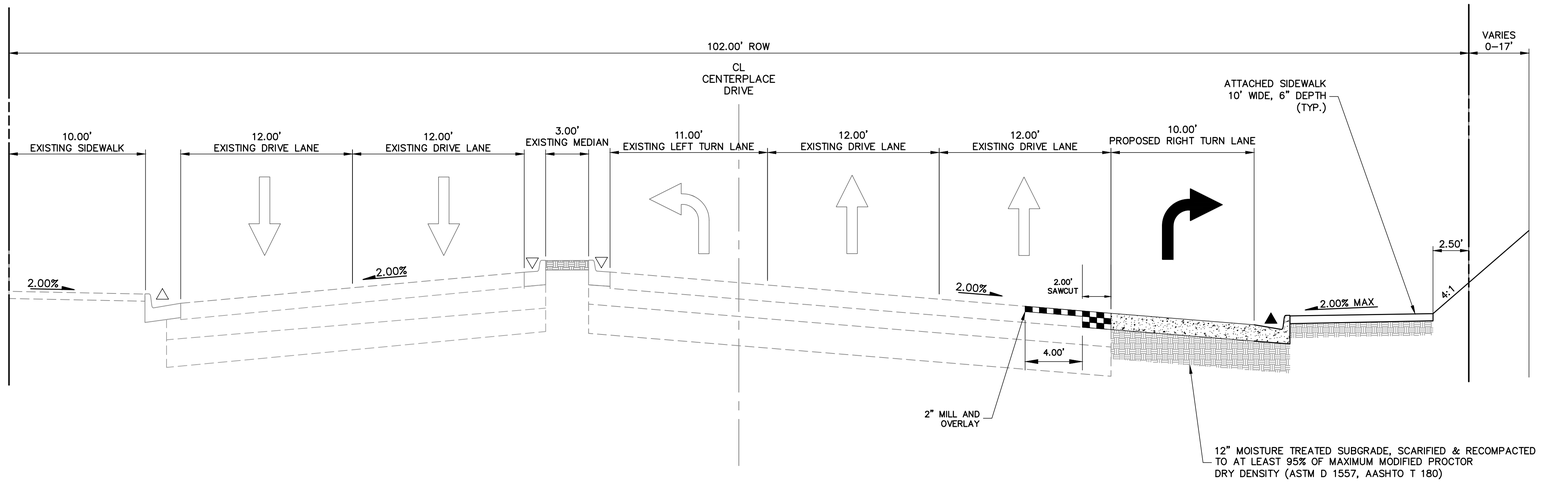
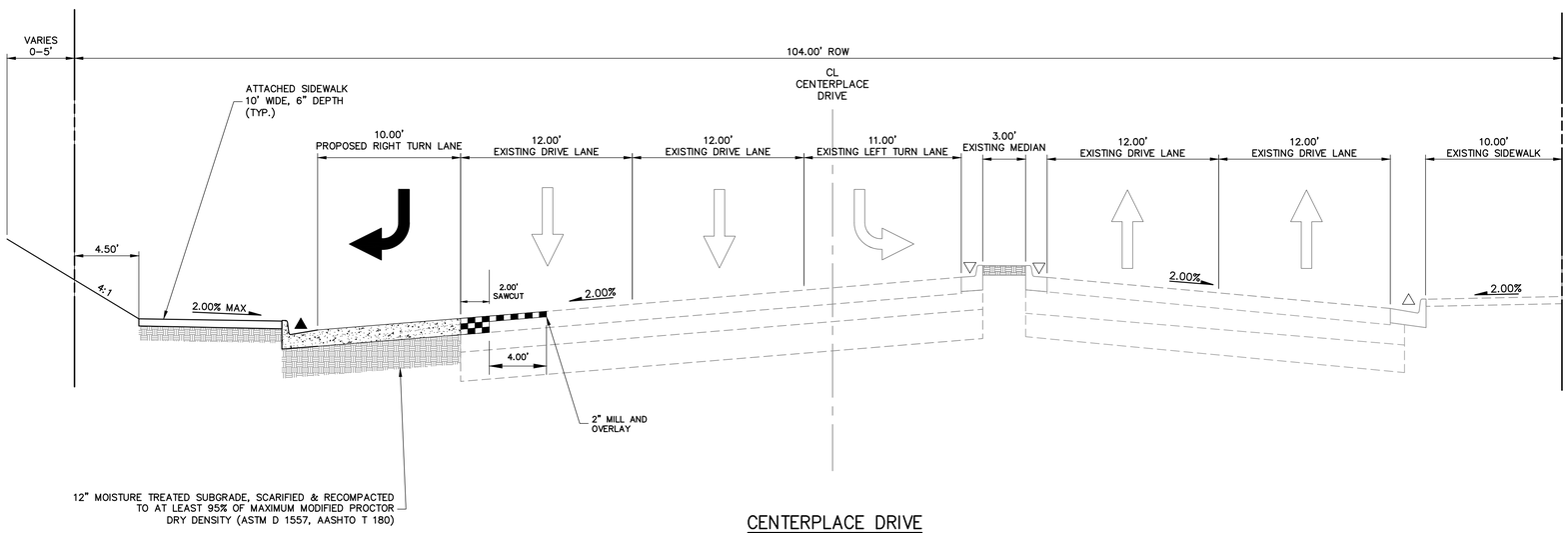


CENTERPLACE DRIVE

PHASE I – STA: 106+17 TO 108+06,
PHASE II – STA: 118+12 TO 119+45

5 3 0 5 10
ORIGINAL SCALE: 1" = 5'



CENTERPLACE DRIVE

PHASE I – STA: 108+95 TO 111+51

LEGEND

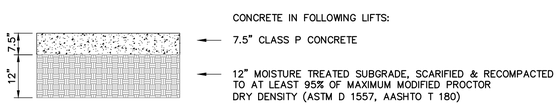
▲ MONOLITHIC CURB & GUTTER TYPE 2 (II–B)

CONCRETE PAVEMENT NOTES

1. JOINTING SHALL CONFORM TO CDOT M–412–1.
2. DOWEL BARS SHALL BE INSTALLED IN TRANSVERSE JOINTS.
3. TRANSVERSE JOINTS SHALL BE INSTALLED AT A MAXIMUM OF 12' SPACING.

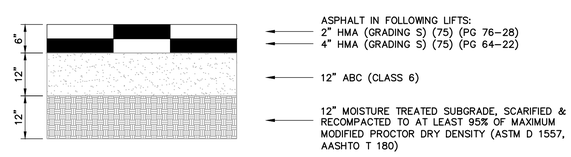
NOTES

1. REFER TO ROADWAY PLANS FOR ROW AND EASEMENT WIDTHS AND/OR LOCATIONS.
2. CONTRACTOR SHALL SAWCUT AND REMOVE 2" OF EXISTING ASPHALT PAVEMENT AND MILL AND OVERLAY AN ADDITIONAL 4" OF EXISTING ASPHALT PAVEMENT PRIOR TO PLACEMENT OF PROPOSED CONCRETE.
3. ALL ASPHALT PATCHES SHALL MATCH EXISTING DEPTH PLUS 1 INCH.
4. PRIOR TO PLACEMENT OF ASPHALT AND CONCRETE, THE PREPARED SUBGRADE SHALL BE PROOF–ROLLED TO IDENTIFY SOFT OR YIELDING AREAS. THE IDENTIFIED AREAS SHALL BE STABILIZED PRIOR TO PAVEMENT AND POURING OF CONCRETE.



CENTERPLACE DRIVE
CONCRETE PAVEMENT SECTION

SEE PAVEMENT DESIGN REPORT



CENTERPLACE DRIVE
ASPHALT PAVEMENT SECTION

SEE PAVEMENT DESIGN REPORT

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ENGINEER'S STATEMENT

PREPARED UNDER MY SUPERVISION

ELIJAH C. FARNEY, P.E.
COLORADO P.E. 41677
FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE

COLORADO LICENSED PROFESSIONAL ENGINEER ELIJAH C. FARNEY 41677

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CENTERPLACE TURN LANE IMPROVEMENTS
TYPICAL SECTIONS

SHEET 4 OF 37
JOB NO. 39722.02

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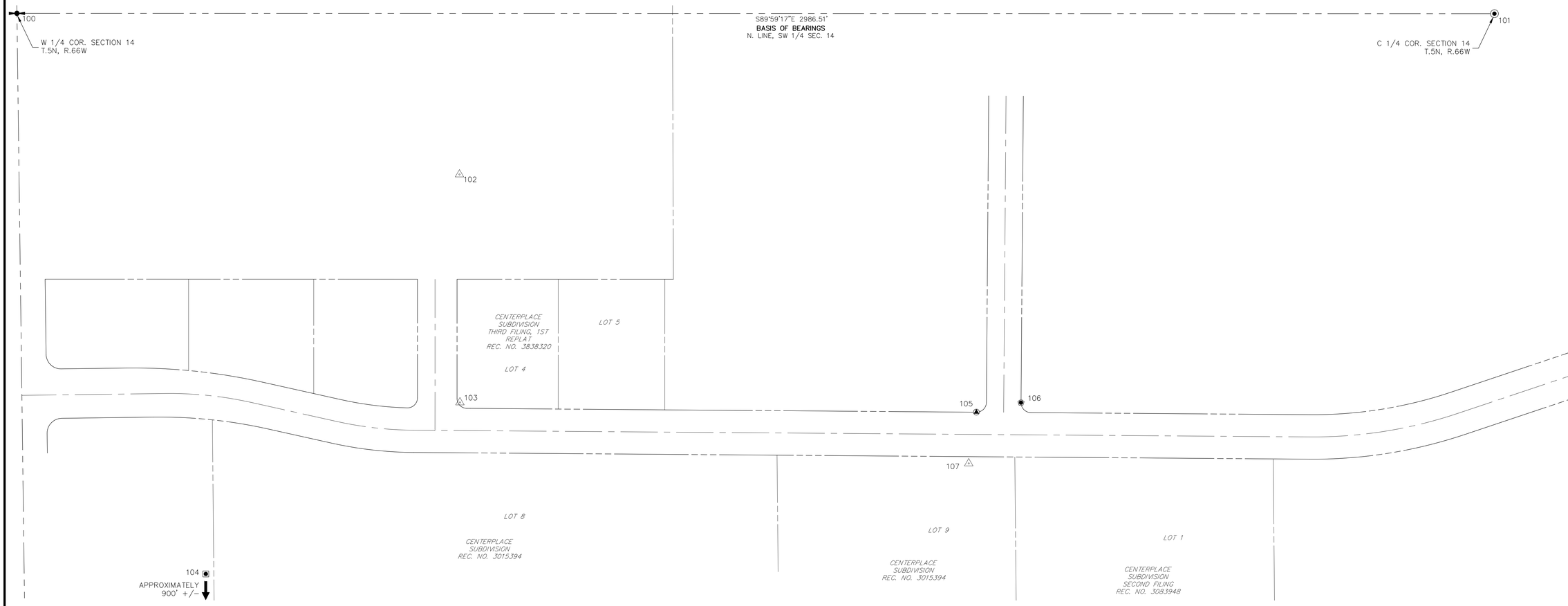

GEODETIC COORDINATES NAD(83)(2011)					
POINT #	LATITUDE	LONGITUDE	STATE PLANE N	STATE PLANE E	DESCRIPTION
100	40°23'58.60199"N	104°45'22.50378"W	1389287.61	3207140.54	3-1/4" ALUM. CAP "LS 19617"
101	40°23'58.34656"N	104°44'43.91222"W	1389286.98	3210126.27	3-1/4" ALUM. CAP "LS 7242"

PROJECT COORDINATES				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	389652.94	207983.89	4881.09	3-1/4" ALUM. CAP "LS 19617"
101	389652.31	210970.41	4838.41	3-1/4" ALUM. CAP "LS 7242"
102	388545.03	208888.54	4873.71	#5 REBAR
103	388083.87	208889.43	4864.55	#5 REBAR
104	386845.97	208369.99	4886.70	GREELEY "CP 81"
105	388064.29	209933.40	4862.07	1-1/2" ORANGE PLAS. CAP "LS 33642"
106	388083.58	210023.56	4862.73	NAIL AND SHINER "LS 33642"
107	387960.51	209917.95	4863.68	#5 REBAR

SURVEYOR'S STATEMENT

I, JARROD ADAMS , A LICENSED LAND SURVEYOR, IN THE STATE OF COLORADO, ON THE BASIS OF MY KNOWLEDGE, INFORMATION AND BELIEF, DO HEREBY STATE THAT THIS CONTROL DIAGRAM IS BASED ON A SURVEY PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION.

COLORADO LICENSED
JARROD ADAMS
38252
PROFESSIONAL LAND SURVEYOR

JARROD ADAMS, PROFESSIONAL LAND SURVEYOR
COLORADO NO. 38252
FOR AND ON BEHALF OF JR ENGINEERING, LLC

NOTICE:

PER C.R.S. 13-80-105, YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE (3) YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN (10) YEARS FROM THE DATE OF THE CERTIFICATION SHOWN HERON.

COORDINATE SYSTEM

THIS PROJECT IS SET UP IN A MODIFIED (GROUND) COLORADO STATE PLANE NORTH SYSTEM.

GEODETIC COORDINATES: NAD(83)(2011)

COMBINED SCALE FACTOR: 0.999737109

TRUNCATION: 1,000,000 IN THE NORTHING
3,000,000 IN THE EASTING

BENCHMARK

CITY OF GREELEY CONTROL POINT 81 MONUMENTED BY A 3-1/4" ALUMINUM CAP LOCATED SOUTH OF U.S. 34 BYPASS APPROXIMATELY 320' EAST OF 47TH AVENUE. SAID MONUMENT HAVING A PUBLISHED ELEVATION OF 4886.70' NAVD(88).

GENERAL NOTES

1. PER C.R.S. 18-04-508, ANY PERSON WHO KNOWINGLY REMOVES, ALTERS, OR DEFACES ANY PUBLIC LAND SURVEY MONUMENT OR LAND MONUMENT OR ACCESSORY, COMMITS A CLASS TWO (2) MISDEMEANOR.
2. PER C.R.S. 38-51-106, "ALL LINEAL UNITS DEPICTED ON THIS LAND SURVEY PLAT ARE U.S. SURVEY FEET. ONE METER EQUALS 39.37/12 U.S. SURVEY FEET, EXACTLY ACCORDING TO THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY."
3. THE BASIS OF BEARINGS IS THE NORTH LINE OF THE SOUTHWEST QUARTER OF SECTION 14, TOWNSHIP 5 NORTH, RANGE 66 WEST OF THE 6TH PRINCIPAL MERIDIAN, BEING MONUMENTED AS SHOWN, SAID LINE BEARING S89°59'17"E.
4. THIS SURVEY IS NOT A COMPLETE BOUNDARY AND IS PREPARED AS A SURVEY CONTROL DRAWING ONLY.

100 50 0 100 200
ORIGINAL SCALE: 1" = 100'

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

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CENTERPLACE TURN LANE IMPROVEMENTS
SURVEY CONTROL DIAGRAM

SHEET 5 OF 37
JOB NO. 39722.02

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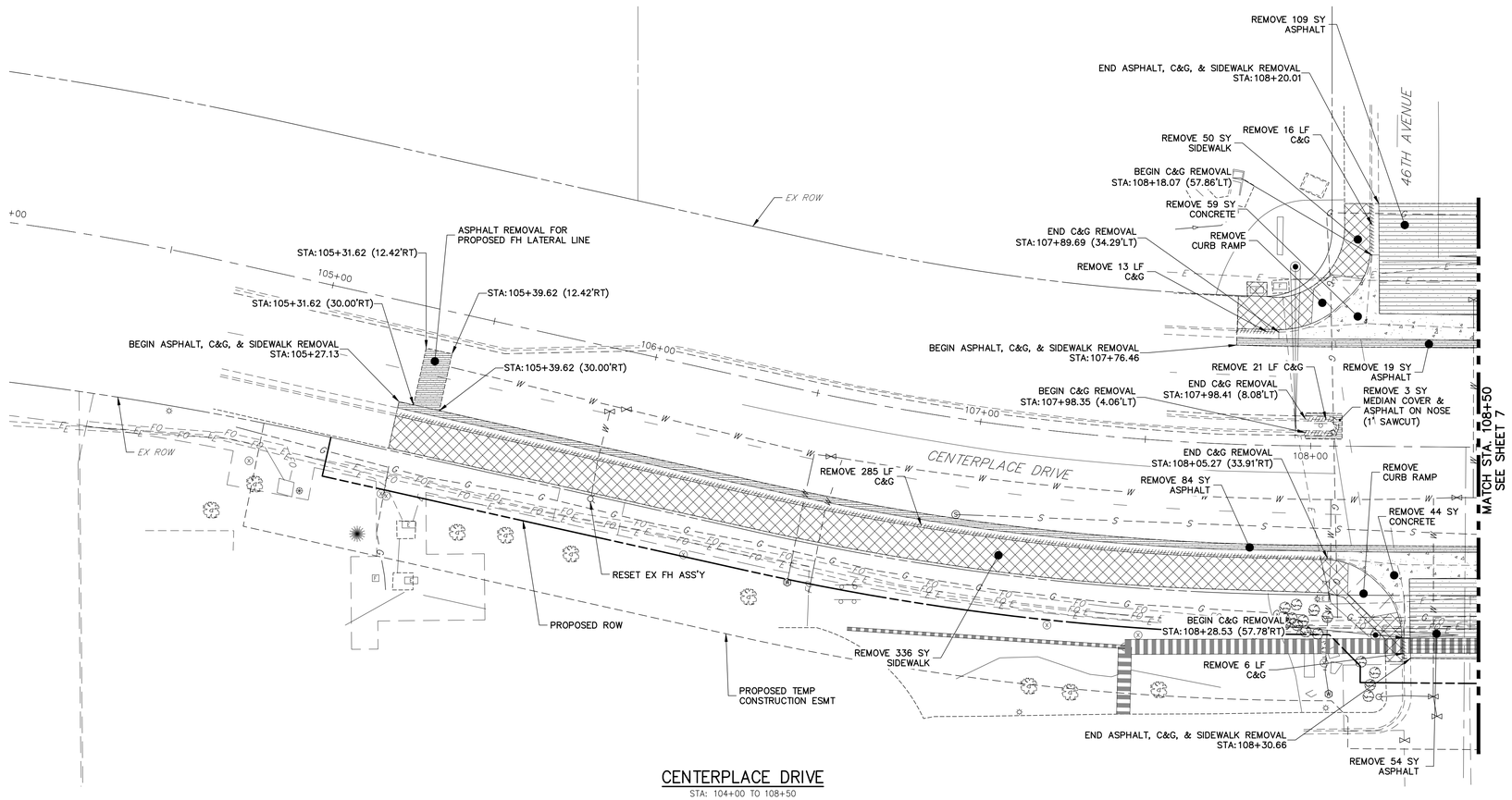
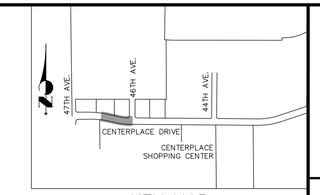


CENTERPLACE DRIVE

STA: 104+00 TO 108+50



KEY MAP

SCALE: 1"=1000'

LEGEND

- ASPHALT REMOVAL (FULL DEPTH)
- CONCRETE REMOVAL (FULL DEPTH)
- SIDEWALK REMOVAL (FULL DEPTH)
- REMOVAL LINE

NOTES

1. THE ANNOTATIONS IN THE DRAWINGS ARE MEANT TO INDICATE THE MAJORITY OF ITEMS TO BE REMOVED BUT DO NOT REPRESENT ALL ITEMS. ADDITIONAL REMOVAL, RESET, AND ADJUSTMENT ITEMS SHALL BE INCIDENTAL TO THE PROJECT COST.
2. CONTRACTOR TO VERIFY EXISTING STRIPING AND ADJUST LIMITS OF REMOVAL AS NECESSARY.
3. SEE OVERALL UTILITY PLANS FOR UTILITY RELOCATIONS.

20 10 0 20 40

ORIGINAL SCALE: 1" = 20'

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

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CENTERPLACE TURN LANE IMPROVEMENTS

DEMOLITION PLAN

PHASE I

SHEET 6 OF 37

JOB NO. 39722.02

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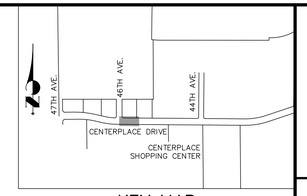
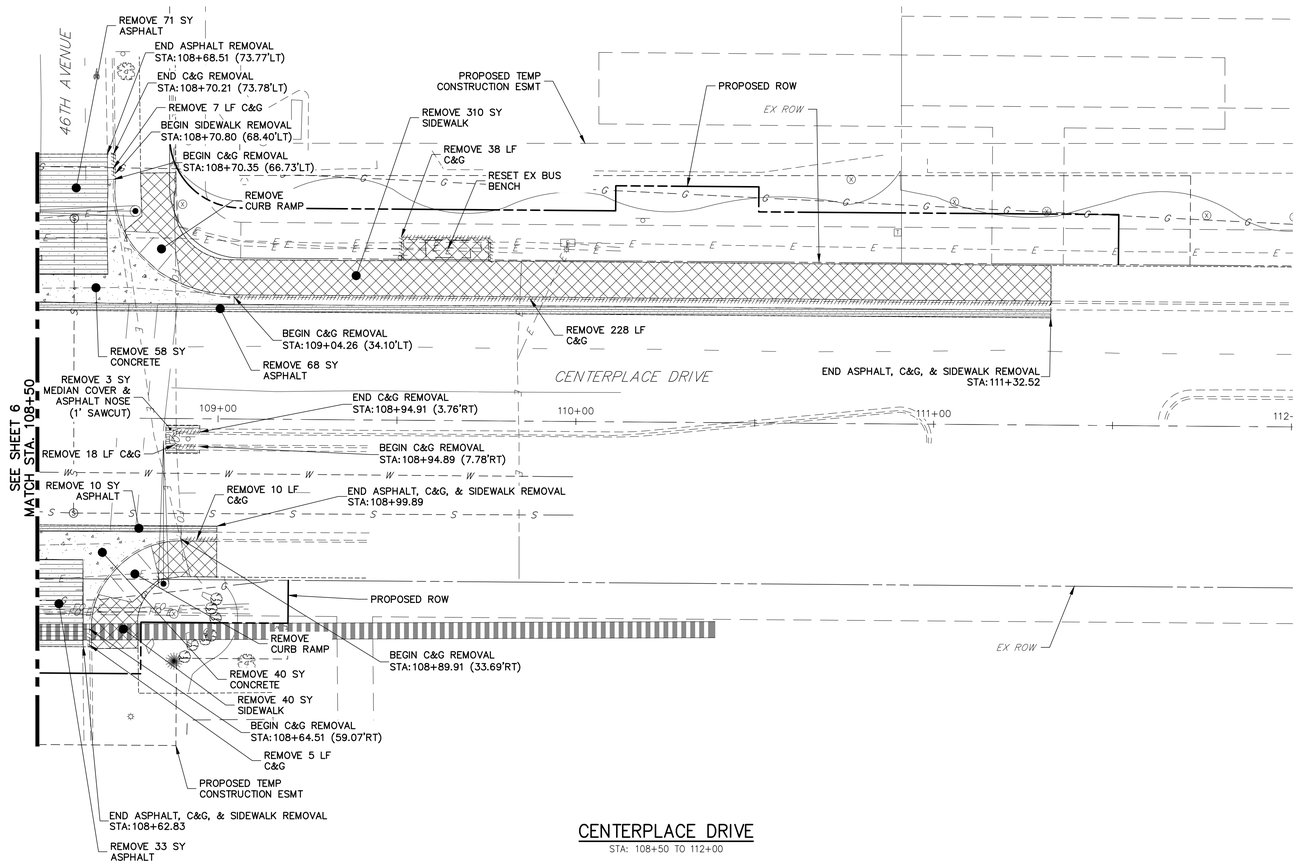


KEY MAP
SCALE: 1"=1000'



CENTERPLACE DRIVE
STA: 108+50 TO 112+00

LEGEND

- ASPHALT REMOVAL (FULL DEPTH)
- CONCRETE REMOVAL (FULL DEPTH)
- SIDEWALK REMOVAL (FULL DEPTH)
- REMOVAL LINE

NOTES

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2. CONTRACTOR TO VERIFY EXISTING STRIPING AND ADJUST LIMITS OF REMOVAL AS NECESSARY.
3. SEE OVERALL UTILITY PLANS FOR UTILITY RELOCATIONS.

20 10 0 20 40
ORIGINAL SCALE: 1" = 20'

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Call before you dig.

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FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE

COLORADO REGISTERED PROFESSIONAL ENGINEER ELIJAH C. FARNEY 41677

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR
BRIAN WARD
CITY OF GREELEY–PUBLIC WORKS
1001 9TH AVENUE
GREELEY, CO 80631
(970) 350–9792

J·R ENGINEERING
A Westrian Company
Centennial 303–740–9393 • Colorado Springs 719–593–2593
Fort Collins 970–491–9888 • www.jrengineering.com

No.	REVISION	BY	DATE

H–SCALE	1"=20'
V–SCALE	N/A
DATE	01/31/20
DESIGNED BY	SRM
DRAWN BY	SRM
CHECKED BY	

CENTERPLACE TURN LANE IMPROVEMENTS

DEMOLITION PLAN

PHASE I

SHEET 7 OF 37

JOB NO. 39722.02

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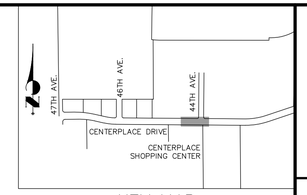
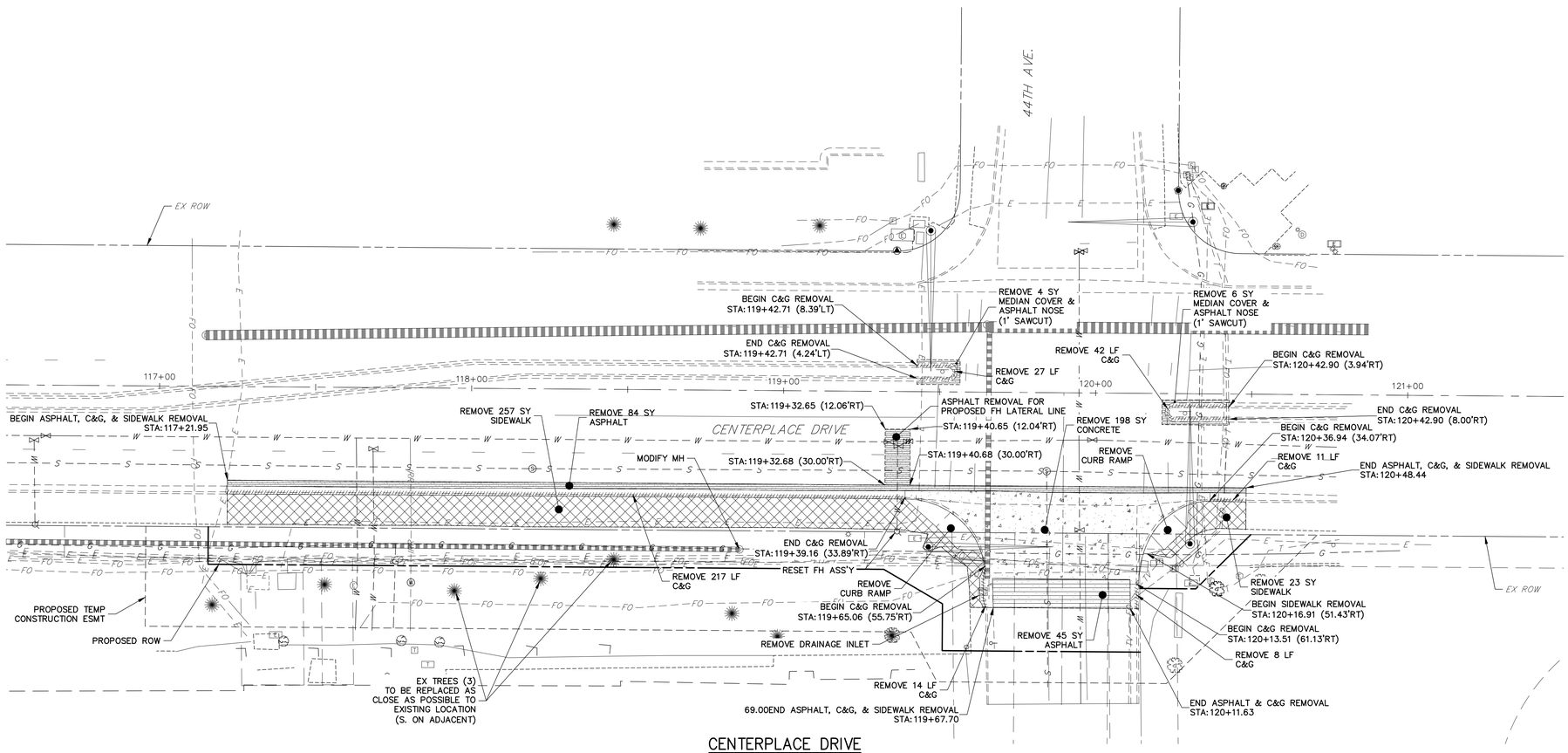


KEY MAP
SCALE: 1"=1000'



CENTERPLACE DRIVE
STA: 116+50 TO 121+50

LEGEND

- ASPHALT REMOVAL (FULL DEPTH)
- CONCRETE REMOVAL (FULL DEPTH)
- SIDEWALK REMOVAL (FULL DEPTH)
- REMOVAL LINE

NOTES

1. THE ANNOTATIONS IN THE DRAWINGS ARE MEANT TO INDICATE THE MAJORITY OF ITEMS TO BE REMOVED BUT DO NOT REPRESENT ALL ITEMS. ADDITIONAL REMOVAL, RESET, AND ADJUSTMENT ITEMS SHALL BE INCIDENTAL TO THE PROJECT COST.
2. CONTRACTOR TO VERIFY EXISTING STRIPING AND ADJUST LIMITS OF REMOVAL AS NECESSARY.
3. SEE OVERALL UTILITY PLANS FOR UTILITY RELOCATIONS.

N
20 10 0 20 40
ORIGINAL SCALE: 1" = 20'

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

ENGINEER'S STATEMENT

PREPARED UNDER MY SUPERVISION

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COLORADO P.E. 41677
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CENTERPLACE TURN LANE IMPROVEMENTS

DEMOLITION PLAN

PHASE II

SHEET 8 OF 37

JOB NO. 39722.02

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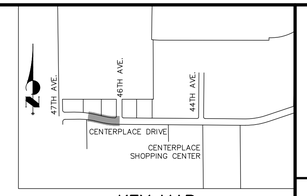
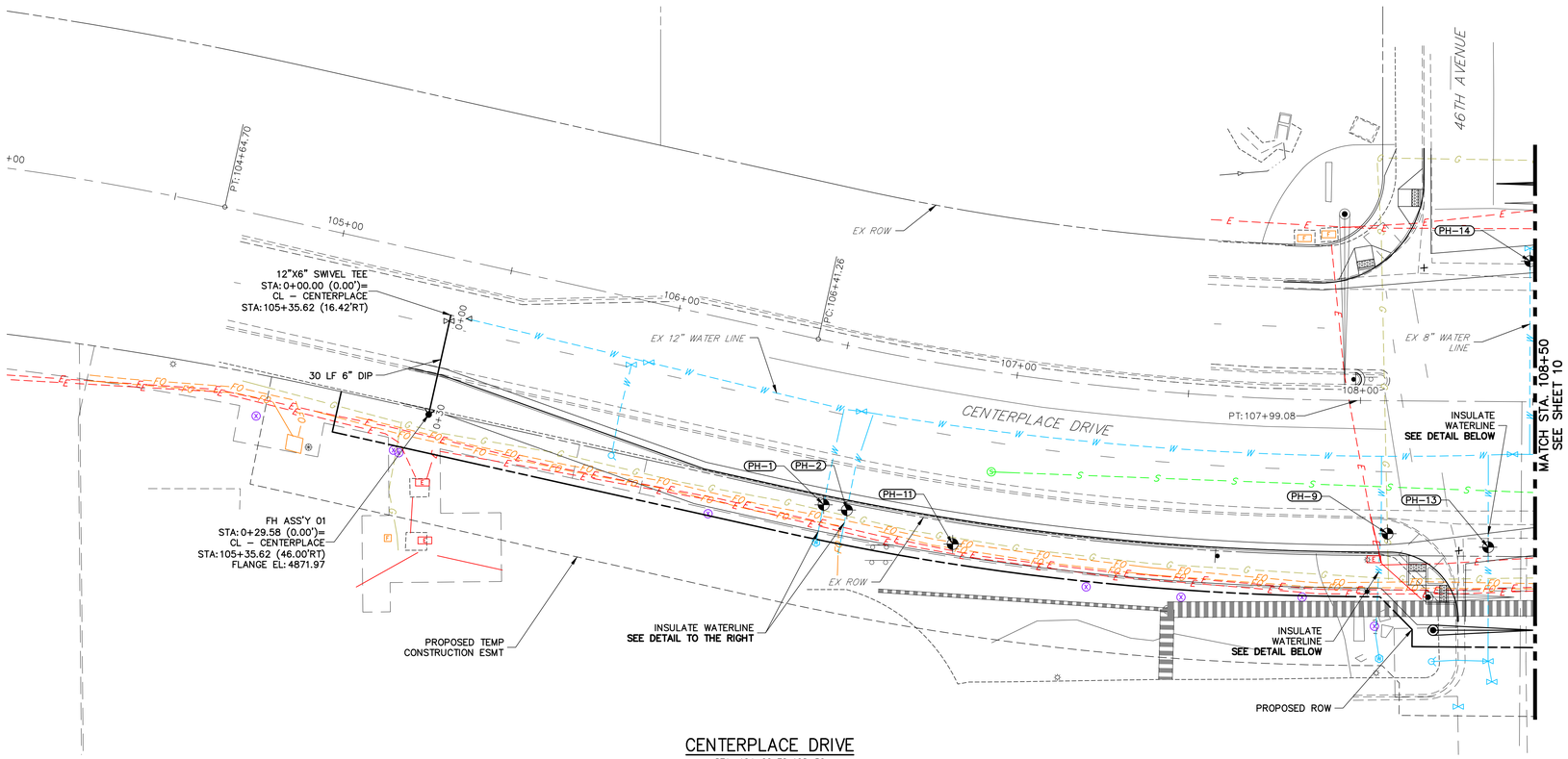
POTHOLE TABULATION									
PH #	STATION	OFFSET	UTILITY TYPE	PIPE SIZE	PIPE MATERIAL	EXISTING GROUND ELEVATION	EXISTING DEPTH TO TOP	PROPOSED GROUND ELEVATION	PROPOSED DEPTH TO TOP
PH-1	106+52.54	46.73 (RT)	WATER	1-1/4"	COPPER	4868.95'	56.0"	4868.26'	47.7"
PH-2	106+59.05	46.90 (RT)	WATER	6"	STEEL	4868.79'	54.0"	4868.12'	46.0"
PH-9	108+08.14	38.64 (RT)	GAS	6"	PLASTIC	4865.44'	41.0"	4864.78'	33.1"
PH-11	106+89.05	51.27 (RT)	GAS ELECTRIC FIBER	6" 2" 2"	POLY PVC PVC	4868.54'	42.0" 51.0" 51.0"	4867.54'	30.0" 39.0" 39.0"
PH-13	108+37.39	42.34 (RT)	WATER	10"	PLASTIC	4864.58'	55.0"	4864.06'	48.8"
PH-14	108+48.94	40.88 (LT)	WATER	10"	PLASTIC	4864.31'	64.0"	4863.89'	59.0"



KEY MAP
SCALE: 1"=1000'



CENTERPLACE DRIVE
STA: 104+00 TO 108+50

LEGEND

E	EXISTING ELECTRICAL LINE		EXISTING ELECTRICAL PULL BOX
FO	EXISTING FIBER OPTIC LINE		EXISTING TELEPHONE PULL BOX
G	EXISTING GAS LINE		EXISTING WATER MANHOLE
S	EXISTING SANITARY SEWER LINE		EXISTING SANITARY SEWER MANHOLE
T	EXISTING TELEPHONE LINE		EXISTING WATER GATE VALVE
W	EXISTING WATER LINE		EXISTING FIRE HYDRANT ASS'Y
	EXISTING STORM SEWER LINE		POTHOLE LOCATION
	EXISTING FIBER OPTIC PULL BOX		IRRIGATION VALVE

NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES, VALVE BOXES, MANHOLES, ETC., AND INSURING THAT THEY ARE PROPERLY PROTECTED AND ADJUSTED AS CALLED FOR IN THE PLANS AND/OR PROJECT SPECIALS. WHEN UTILITY ADJUSTMENTS ARE REQUIRED, BUT HAVE NOT BEEN CALLED FOR IN THE PLANS AND/OR PROJECT SPECIALS, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IMMEDIATELY.
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4. PULL BOX LIDS SHALL BE IMPRINTED WITH MARKINGS. PAINTED MARKINGS SHALL NOT BE PERMITTED.
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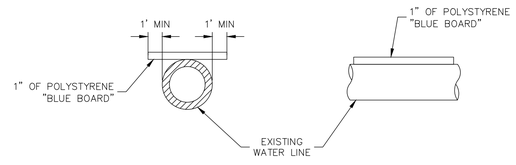

NOTE: FOR WATER LINES WITH A COVER LESS THAN 5 FEET, THE CONTRACTOR SHALL EXCAVATE THE EXISTING MATERIAL TO THE TOP OF THE EXISTING WATER PIPE(S) SO AS TO NOT EXPOSE THE SPRINGLINE OF THE PIPE(S). THE AREA(S) SHALL THEN BE BACKFILLED AND COMPACTED (PER ASTM D698) UP TO FINISHED GRADE.

WATER LINE INSULATION DETAIL
SCALE: N.T.S.

20 10 0 20 40
ORIGINAL SCALE: 1" = 20'

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ENGINEER'S STATEMENT

PREPARED UNDER MY SUPERVISION

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COLORADO P.E. 41677
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CENTERPLACE TURN LANE IMPROVEMENTS

OVERALL UTILITY PLAN

SHEET 9 OF 37

JOB NO. 39722.02

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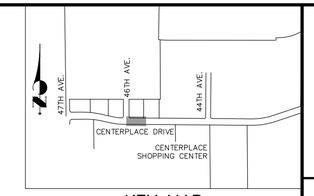
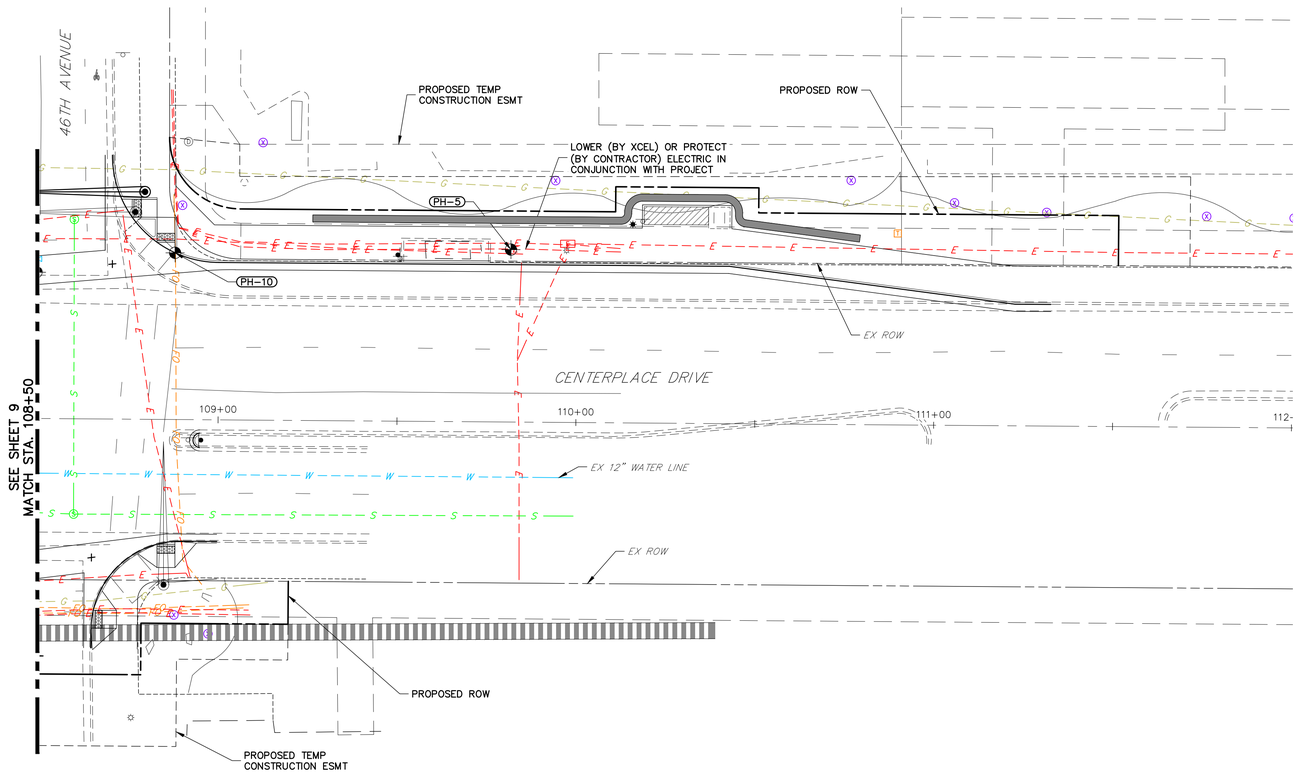
POTHOLE TABULATION									
PH #	STATION	OFFSET	UTILITY TYPE	PIPE SIZE	PIPE MATERIAL	EXISTING GROUND ELEVATION	EXISTING DEPTH TO TOP	PROPOSED GROUND ELEVATION	PROPOSED DEPTH TO TOP
PH-5	109+81.49	48.21 (LT)	ELECTRIC	3"X1"	CABLES	4862.53'	30.0"	4862.14'	25.3"
PH-10	108+87.64	46.60 (LT)	FIBER	N/F	N/F	4864.10'	N/F	4863.21'	N/F



KEY MAP
SCALE: 1"=1000'



CENTERPLACE DRIVE
STA: 108+50 TO 112+00

LEGEND

EXISTING ELECTRICAL LINE	EXISTING ELECTRICAL PULL BOX
EXISTING FIBER OPTIC LINE	EXISTING TELEPHONE PULL BOX
EXISTING GAS LINE	EXISTING WATER MANHOLE
EXISTING SANITARY SEWER LINE	EXISTING SANITARY SEWER MANHOLE
EXISTING TELEPHONE LINE	EXISTING WATER GATE VALVE
EXISTING WATER LINE	EXISTING FIRE HYDRANT ASS'Y
EXISTING STORM SEWER LINE	POTHOLE LOCATION
EXISTING FIBER OPTIC PULL BOX	IRRIGATION VALVE

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20 10 0 20 40
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COLORADO P.E. 41677
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CENTERPLACE TURN LANE IMPROVEMENTS

OVERALL UTILITY PLAN

SHEET 10 OF 37

JOB NO. 39722.02

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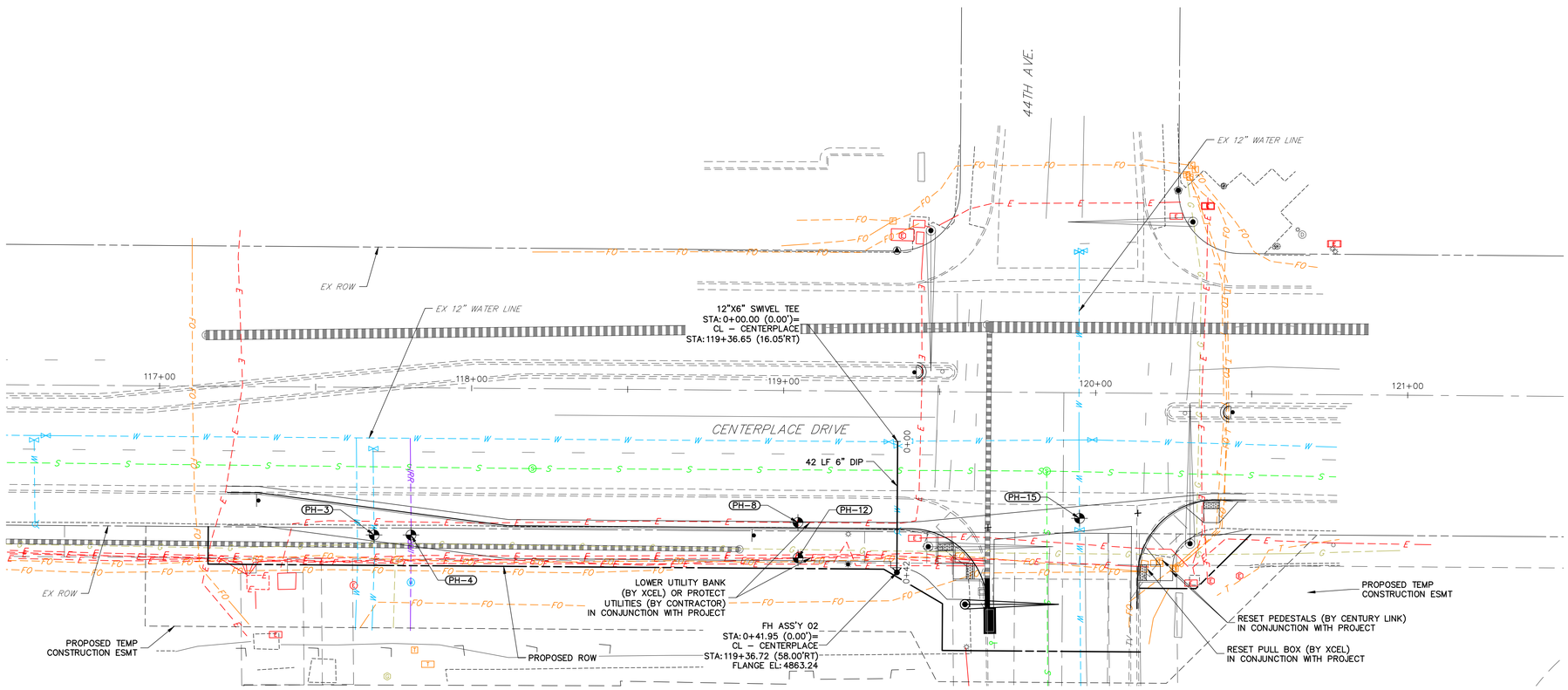
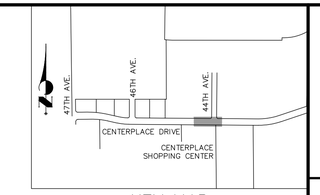
POTHOLE TABULATION									
PH #	STATION	OFFSET	UTILITY TYPE	PIPE SIZE	PIPE MATERIAL	EXISTING GROUND ELEVATION	EXISTING DEPTH TO TOP	PROPOSED GROUND ELEVATION	PROPOSED DEPTH TO TOP
PH-3	117+69.09	47.27 (RT)	WATER	6"	STEEL	4861.61'	76.0"	4861.12'	70.1"
PH-4	117+80.91	47.18 (RT)	WATER	1-1/4"	COPPER	4861.93	69.0"	4861.14'	59.5"
PH-8	119+04.89	42.25 (RT)	ELECTRIC	4"	PVC	4862.01	35.0"	4861.20'	25.3"
PH-12	119+05.01	53.61 (RT)	GAS FIBER FIBER ELECTRIC	6" 4" 2" BUNDLE	POLY PVC PVC CABLES	4862.88	38.0" 34.0" 44.0" 40.0"	4861.73'	24.2" 20.2" 30.2" 26.2"
PH-15	119+95.11	40.25 (RT)	WATER	10"	PLASTIC	4862.14	63.0"	4861.78'	58.7"



CENTERPLACE DRIVE

STA: 116+50 TO 121+50



KEY MAP

SCALE: 1"=1000'

LEGEND

E	EXISTING ELECTRICAL LINE		EXISTING ELECTRICAL PULL BOX
FO	EXISTING FIBER OPTIC LINE	T	EXISTING TELEPHONE PULL BOX
G	EXISTING GAS LINE		EXISTING WATER MANHOLE
S	EXISTING SANITARY SEWER LINE		EXISTING SANITARY SEWER MANHOLE
T	EXISTING TELEPHONE LINE		EXISTING WATER GATE VALVE
W	EXISTING WATER LINE		EXISTING FIRE HYDRANT ASS'Y
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	EXISTING FIBER OPTIC PULL BOX		IRRIGATION VALVE

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20 10 0 20 40

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CENTERPLACE TURN LANE IMPROVEMENTS

OVERALL UTILITY PLAN

SHEET 11 OF 37

JOB NO. 39722.02

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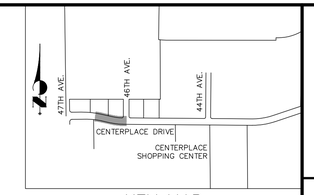

KEY MAP
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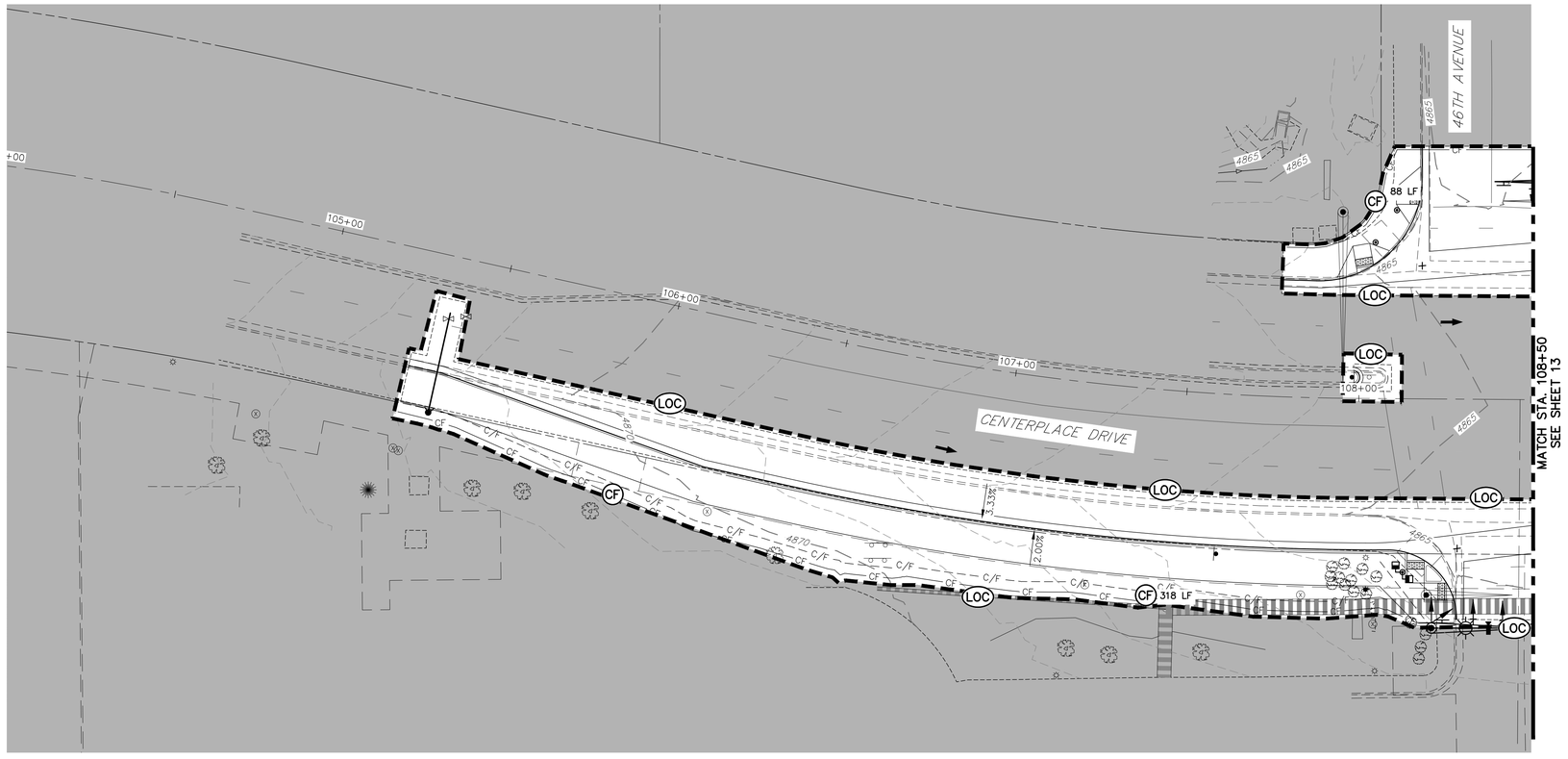

CENTERPLACE DRIVE
STA: 104+00 TO 108+50

LEGEND

SF — SF —	SILT FENCE
CF — CF —	CONSTRUCTION FENCE
IP	STORM DRAIN INLET PROTECTION
OP	STORM DRAIN OUTLET PROTECTION
LS	LANDSCAPE RESTORATION
CWA	CONCRETE WASHOUT AREA
SCL	SEDIMENT CONTROL LOG
	DRAINAGE DIRECTION
	PROPOSED ROW
	PROPOSED EASEMENT
LOC	LIMITS OF CONSTRUCTION
C/F	PROPOSED CUT & FILL LINE
5080	EXISTING INDEX CONTOUR
	EXISTING CONTOUR
5080	PROPOSED INDEX CONTOUR
	PROPOSED CONTOUR
SB	SEDIMENT BASIN
ECB	EROSION CONTROL BLANKET
VTC	VEHICLE TRACKING CONTROL
SSA	STABILIZED STAGING AREA
DD	DIVERSION DITCH
RS	ROCK SOCK

NOTES

1. INSTALL EROSION/SEDIMENT CONTROL ONLY DURING APPROPRIATE PHASING, AND AS APPROVED BY THE ENGINEER. HOWEVER, INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY AFTER CONSTRUCTION OF NEW INLETS.
2. SECTION 13 OF THE CITY OF GREELEY DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS SHALL APPLY FOR ALL EXCAVATION AND EMBANKMENT AREAS. THE ROADWAY SUBGRADE MATERIALS SHALL BE FREE OF ORGANIC MATERIALS AND OTHER DELETERIOUS MATERIALS AND SHALL BE THOROUGHLY SCARIFIED, AND WELL MIXED.
3. CONTRACTOR MAY INSTALL SILT FENCE TO RIGHT-OF-WAY OR TEMPORARY CONSTRUCTION EASEMENT.
4. THE CONTRACTOR SHALL FIND AN APPROPRIATE LOCATION TO SET UP CONCRETE WASHOUT AREA, VEHICLE TRACKING CONTROL, AND STABILIZED STAGING AREA AND SUBMIT TO THE CITY FOR APPROVAL.
5. THE TOTAL DISTURBANCE AREA IS 0.76AC. NO STATE PERMIT OR STORM WATER MANAGEMENT PLAN ARE REQUIRED.

20 10 0 20 40
ORIGINAL SCALE: 1" = 20'

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CHECKED BY	

CENTERPLACE TURN LANE IMPROVEMENTS

GRADING & EROSION CONTROL PLAN

INITIAL STAGE - PHASE I

SHEET 12 OF 37

JOB NO. 39722.02

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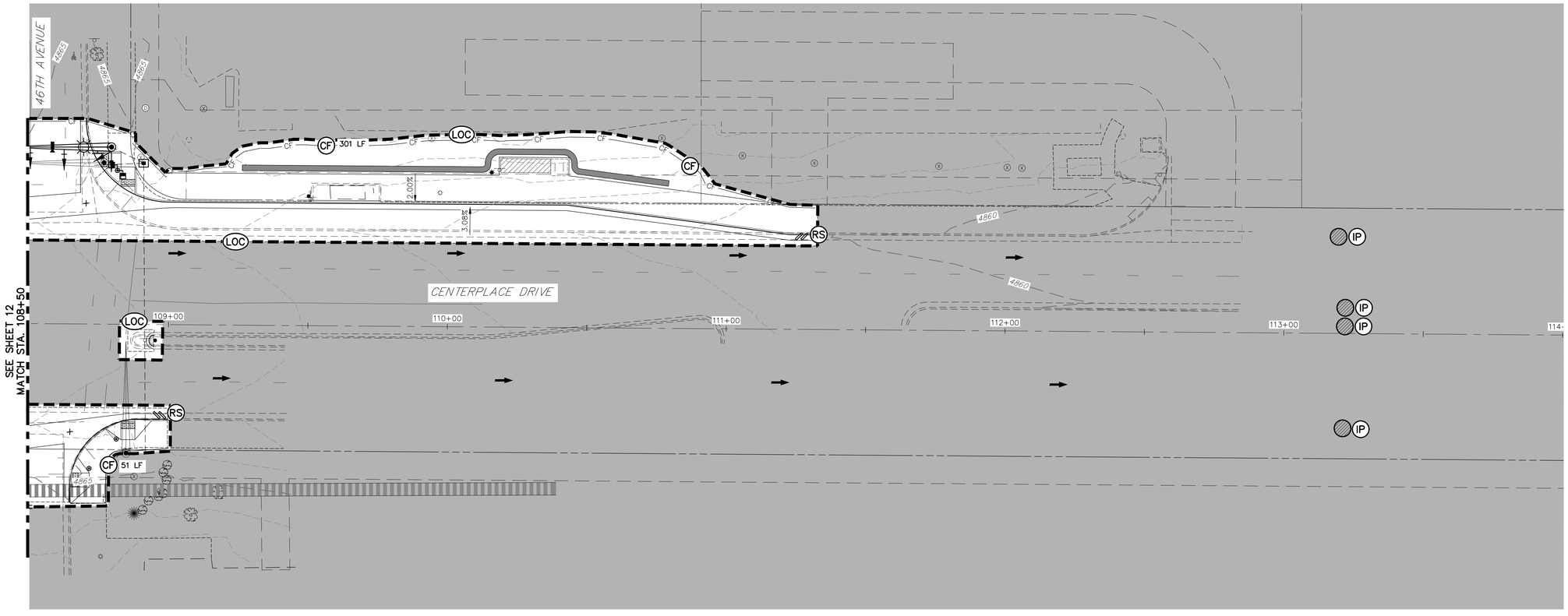
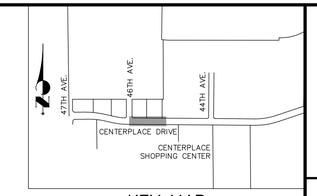


CENTERPLACE DRIVE

STA: 108+50 TO 114+00



KEY MAP

SCALE: 1"=1000'

LEGEND

SF	SILT FENCE	C/F	PROPOSED CUT & FILL LINE
CF	CONSTRUCTION FENCE	5080	EXISTING INDEX CONTOUR
IP	STORM DRAIN INLET PROTECTION		EXISTING CONTOUR
OP	STORM DRAIN OUTLET PROTECTION	5080	PROPOSED INDEX CONTOUR
LS	LANDSCAPE RESTORATION		PROPOSED CONTOUR
CWA	CONCRETE WASHOUT AREA	SB	SEDIMENT BASIN
SCL	SEDIMENT CONTROL LOG	ECB	EROSION CONTROL BLANKET
	DRAINAGE DIRECTION	VTC	VEHICLE TRACKING CONTROL
	PROPOSED ROW	SSA	STABILIZED STAGING AREA
	PROPOSED EASEMENT	DD	DIVERSION DITCH
LOC	LIMITS OF CONSTRUCTION	RS	ROCK SOCK

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20 10 0 20 40

ORIGINAL SCALE: 1" = 20'

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

ENGINEER'S STATEMENT

PREPARED UNDER MY SUPERVISION

ELIJAH C. FARNEY, P.E.
COLORADO P.E. 41677
FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE

COLORADO REGISTERED PROFESSIONAL ENGINEER ELIJAH C. FARNEY 41677

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR
BRIAN WARD
CITY OF GREELEY-PUBLIC WORKS
1001 9TH AVENUE
GREELEY, CO 80631
(970) 350-9792

J·R ENGINEERING
A Westrian Company
Centennial 303-740-9393 • Colorado Springs 719-593-2593
Fort Collins 970-491-9888 • www.jrengineering.com

No.	REVISION	BY	DATE

H-SCALE	1"=20'
V-SCALE	N/A
DATE	01/31/20
DESIGNED BY	SRM
DRAWN BY	SRM
CHECKED BY	

CENTERPLACE TURN LANE IMPROVEMENTS

GRADING & EROSION CONTROL PLAN

INITIAL STAGE - PHASE I

SHEET 13 OF 37

JOB NO. 39722.02

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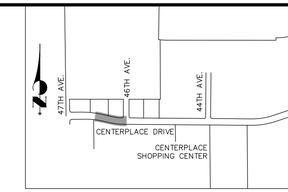
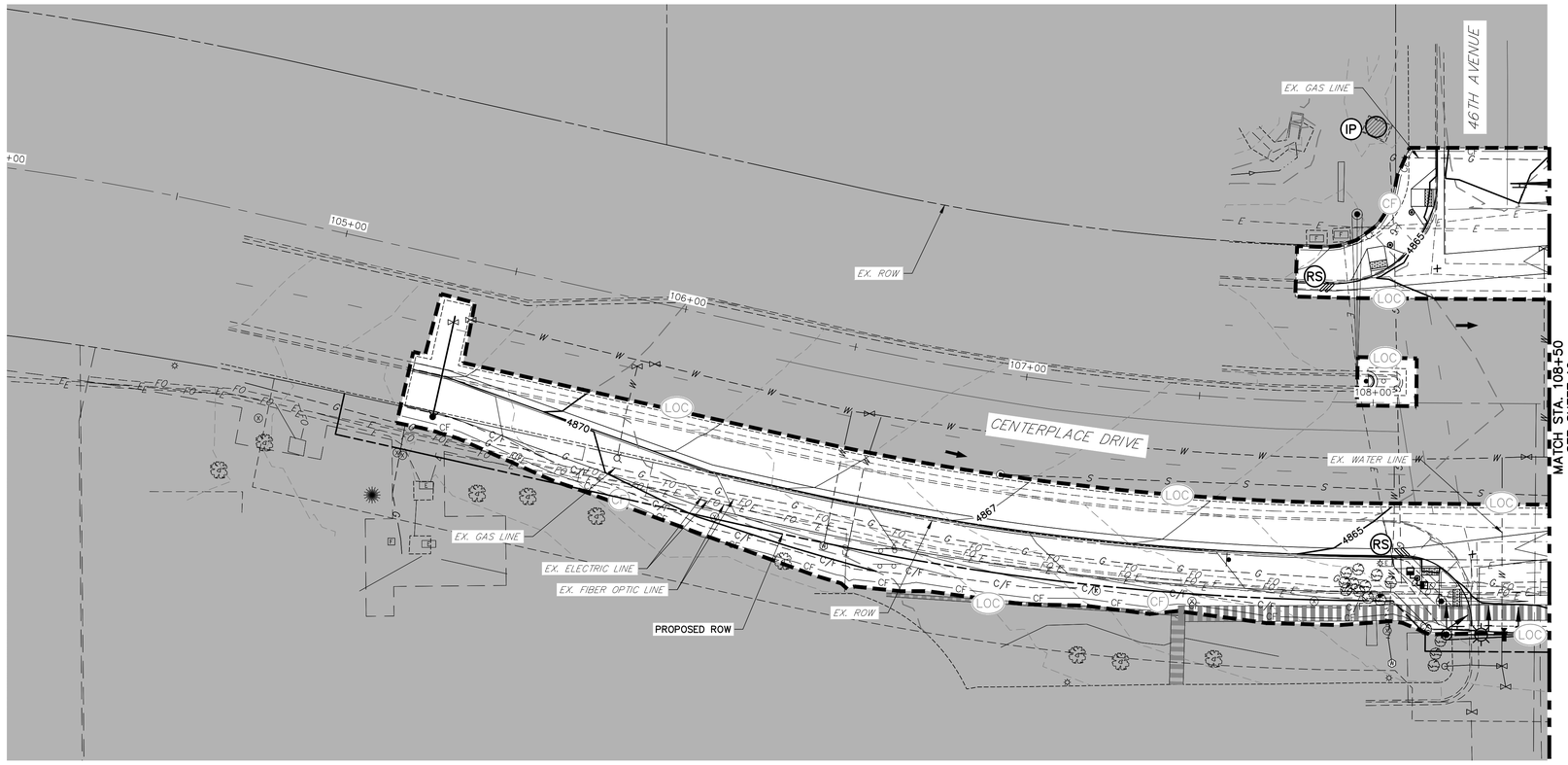


KEY MAP
SCALE: 1"=1000'



CENTERPLACE DRIVE
STA: 104+00 TO 108+50

LEGEND

SF	SILT FENCE	C/F	PROPOSED CUT & FILL LINE
CF	CONSTRUCTION FENCE	5080	EXISTING INDEX CONTOUR
IP	STORM DRAIN INLET PROTECTION		EXISTING CONTOUR
OP	STORM DRAIN OUTLET PROTECTION	5080	PROPOSED INDEX CONTOUR
LS	LANDSCAPE RESTORATION		PROPOSED CONTOUR
CWA	CONCRETE WASHOUT AREA	SB	SEDIMENT BASIN
SCL	SEDIMENT CONTROL LOG	ECB	EROSION CONTROL BLANKET
	DRAINAGE DIRECTION	VTC	VEHICLE TRACKING CONTROL
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20 10 0 20 40
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V-SCALE	N/A
DATE	01/31/20
DESIGNED BY	SRM
DRAWN BY	SRM
CHECKED BY	

CENTERPLACE TURN LANE IMPROVEMENTS

GRADING & EROSION CONTROL PLAN

INTERIM STAGE – PHASE I

SHEET 14 OF 37

JOB NO. 39722.02

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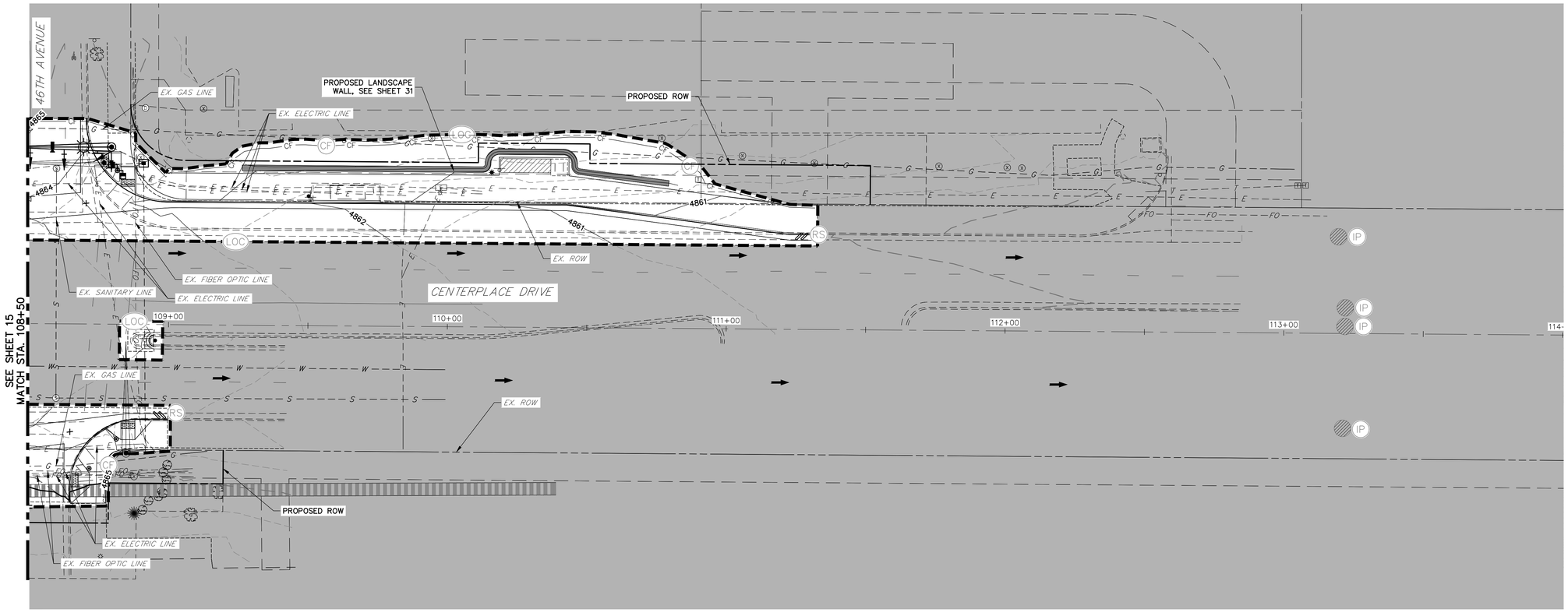
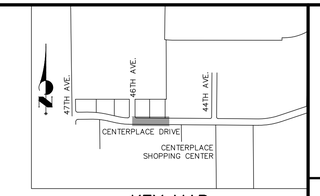


CENTERPLACE DRIVE

STA: 108+50 TO 114+00



KEY MAP

SCALE: 1"=1000'

LEGEND

SF — SILT FENCE	C/F — PROPOSED CUT & FILL LINE
CF — CONSTRUCTION FENCE	5080 — EXISTING INDEX CONTOUR
IP — STORM DRAIN INLET PROTECTION	EXISTING CONTOUR
OP — STORM DRAIN OUTLET PROTECTION	5080 — PROPOSED INDEX CONTOUR
LS — LANDSCAPE RESTORATION	PROPOSED CONTOUR
CWA — CONCRETE WASHOUT AREA	SB — SEDIMENT BASIN
SCL — SEDIMENT CONTROL LOG	ECB — EROSION CONTROL BLANKET
DRAINAGE DIRECTION	VTC — VEHICLE TRACKING CONTROL
PROPOSED ROW	SSA — STABILIZED STAGING AREA
PROPOSED EASEMENT	DD — DIVERSION DITCH
LOC — LIMITS OF CONSTRUCTION	RS — ROCK SOCK

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20 10 0 20 40

ORIGINAL SCALE: 1" = 20'

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DATE

REGISTERED PROFESSIONAL ENGINEER ELIJAH C. FARNEY 41677 COLORADO

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H-SCALE	1"=20'
V-SCALE	N/A
DATE	01/31/20
DESIGNED BY	SRM
DRAWN BY	SRM
CHECKED BY	

CENTERPLACE TURN LANE IMPROVEMENTS

GRADING & EROSION CONTROL PLAN

INTERIM STAGE – PHASE I

SHEET 15 OF 37

JOB NO. 39722.02

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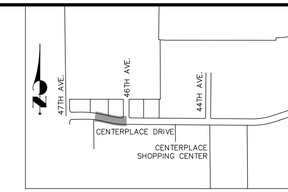
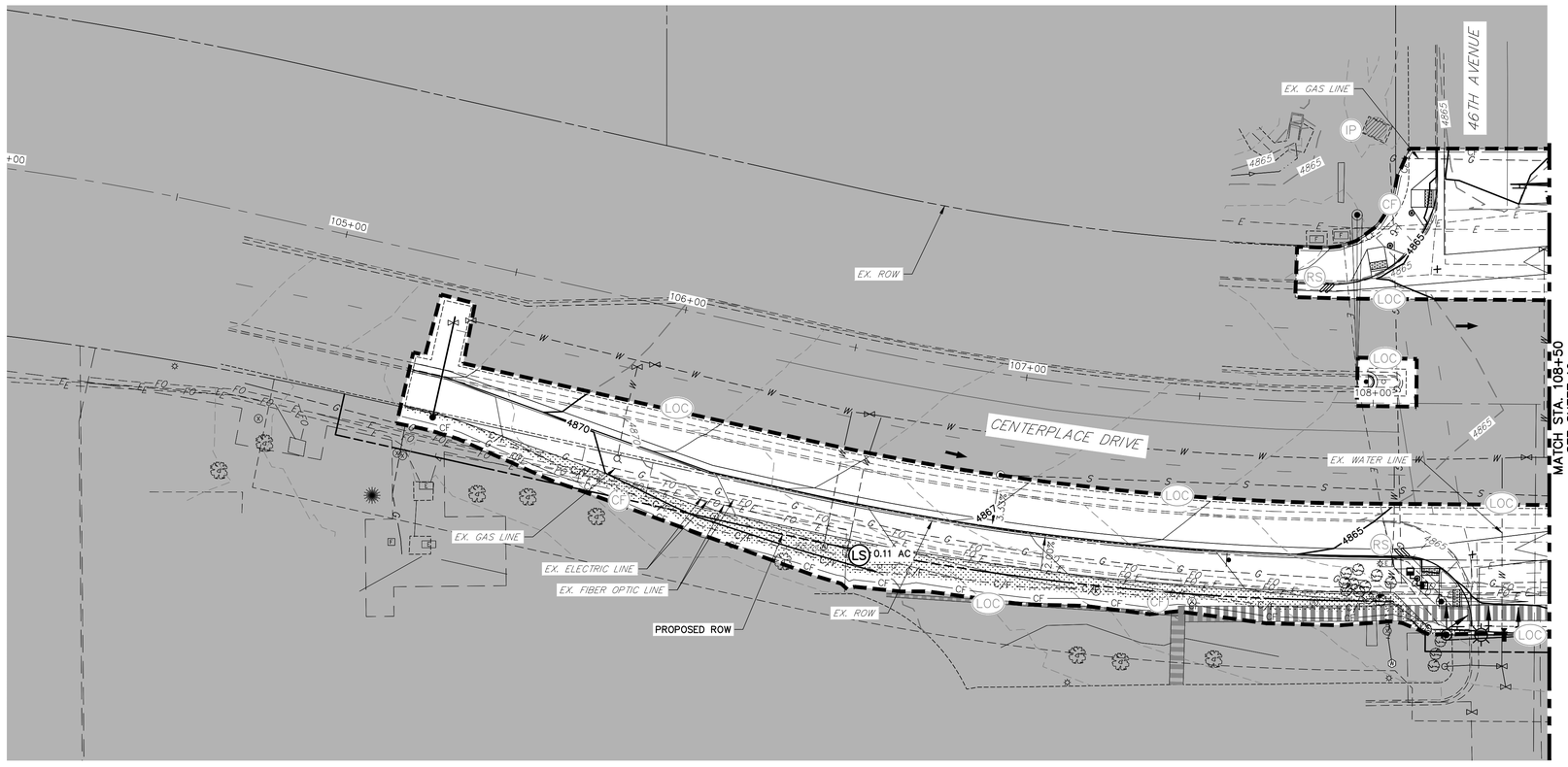


KEY MAP
SCALE: 1"=1000'



CENTERPLACE DRIVE
STA: 104+00 TO 108+50

LEGEND

SF — SF —	SILT FENCE
CF — CF —	CONSTRUCTION FENCE
IP	STORM DRAIN INLET PROTECTION
OP	STORM DRAIN OUTLET PROTECTION
LS	LANDSCAPE RESTORATION
CWA	CONCRETE WASHOUT AREA
SCL	SEDIMENT CONTROL LOG
	DRAINAGE DIRECTION
	PROPOSED ROW
	PROPOSED EASEMENT
LOC	LIMITS OF CONSTRUCTION
C/F	PROPOSED CUT & FILL LINE
5080	EXISTING INDEX CONTOUR
	EXISTING CONTOUR
5080	PROPOSED INDEX CONTOUR
	PROPOSED CONTOUR
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20 10 0 20 40
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DATE

COLORADO LICENSED ELIJAH C. FARNEY 41677 PROFESSIONAL ENGINEER

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V-SCALE	N/A
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DRAWN BY	SRM
CHECKED BY	

CENTERPLACE TURN LANE IMPROVEMENTS

GRADING & EROSION CONTROL PLAN

FINAL STAGE – PHASE I

SHEET 16 OF 37

JOB NO. 39722.02

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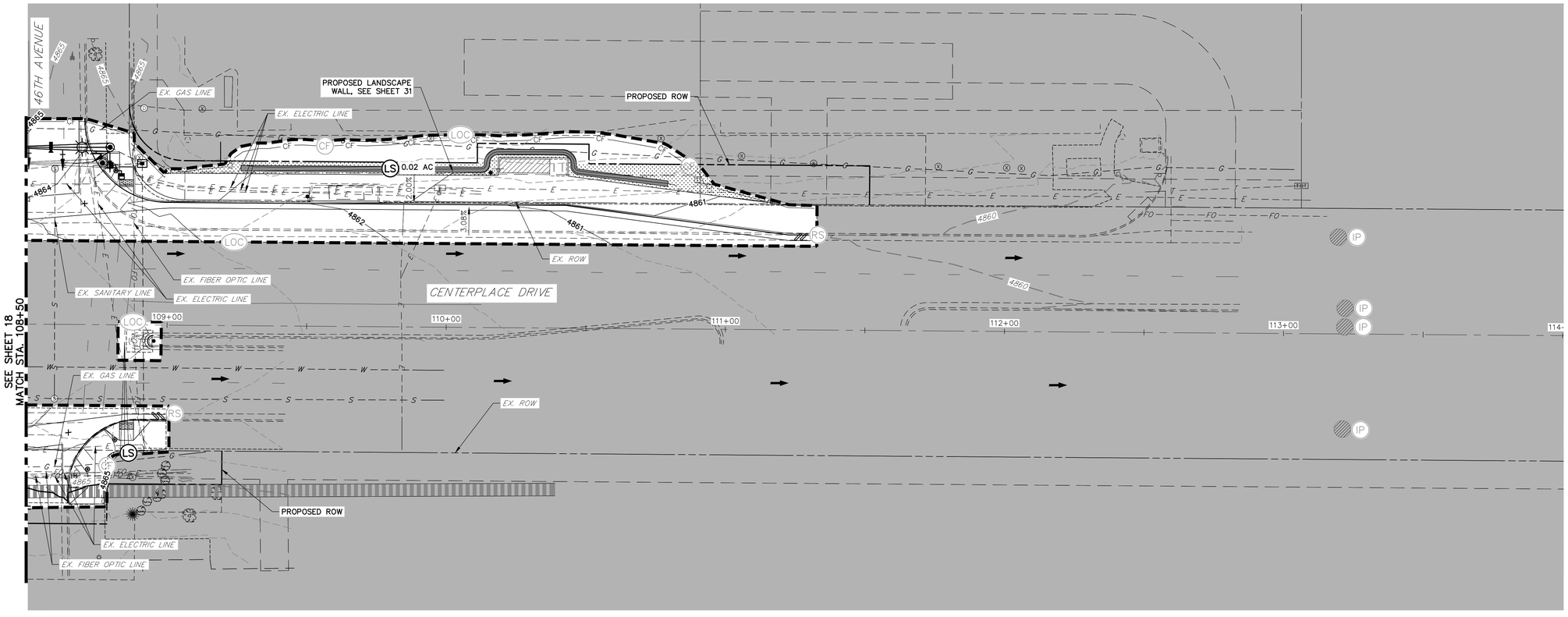
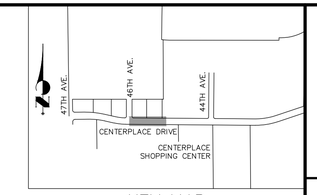


CENTERPLACE DRIVE

STA: 108+50 TO 114+00



KEY MAP

SCALE: 1"=1000'

LEGEND

- SF — SILT FENCE
- CF — CONSTRUCTION FENCE
- IP — STORM DRAIN INLET PROTECTION
- OP — STORM DRAIN OUTLET PROTECTION
- LS — LANDSCAPE RESTORATION
- CWA — CONCRETE WASHOUT AREA
- SCL — SEDIMENT CONTROL LOG
- DRAINAGE DIRECTION
- PROPOSED ROW
- PROPOSED EASEMENT
- LOC — LIMITS OF CONSTRUCTION
- C/F — PROPOSED CUT & FILL LINE
- 5080 — EXISTING INDEX CONTOUR
- EXISTING CONTOUR
- 5080 — PROPOSED INDEX CONTOUR
- PROPOSED CONTOUR
- SB — SEDIMENT BASIN
- ECB — EROSION CONTROL BLANKET
- VTC — VEHICLE TRACKING CONTROL
- SSA — STABILIZED STAGING AREA
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N

20 10 0 20 40

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V-SCALE	N/A
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DRAWN BY	SRM
CHECKED BY	

CENTERPLACE TURN LANE IMPROVEMENTS

GRADING & EROSION CONTROL PLAN

FINAL STAGE – PHASE I

SHEET 17 OF 37

JOB NO. 39722.02

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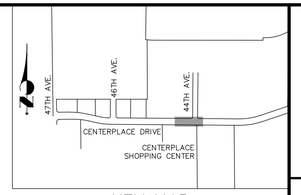
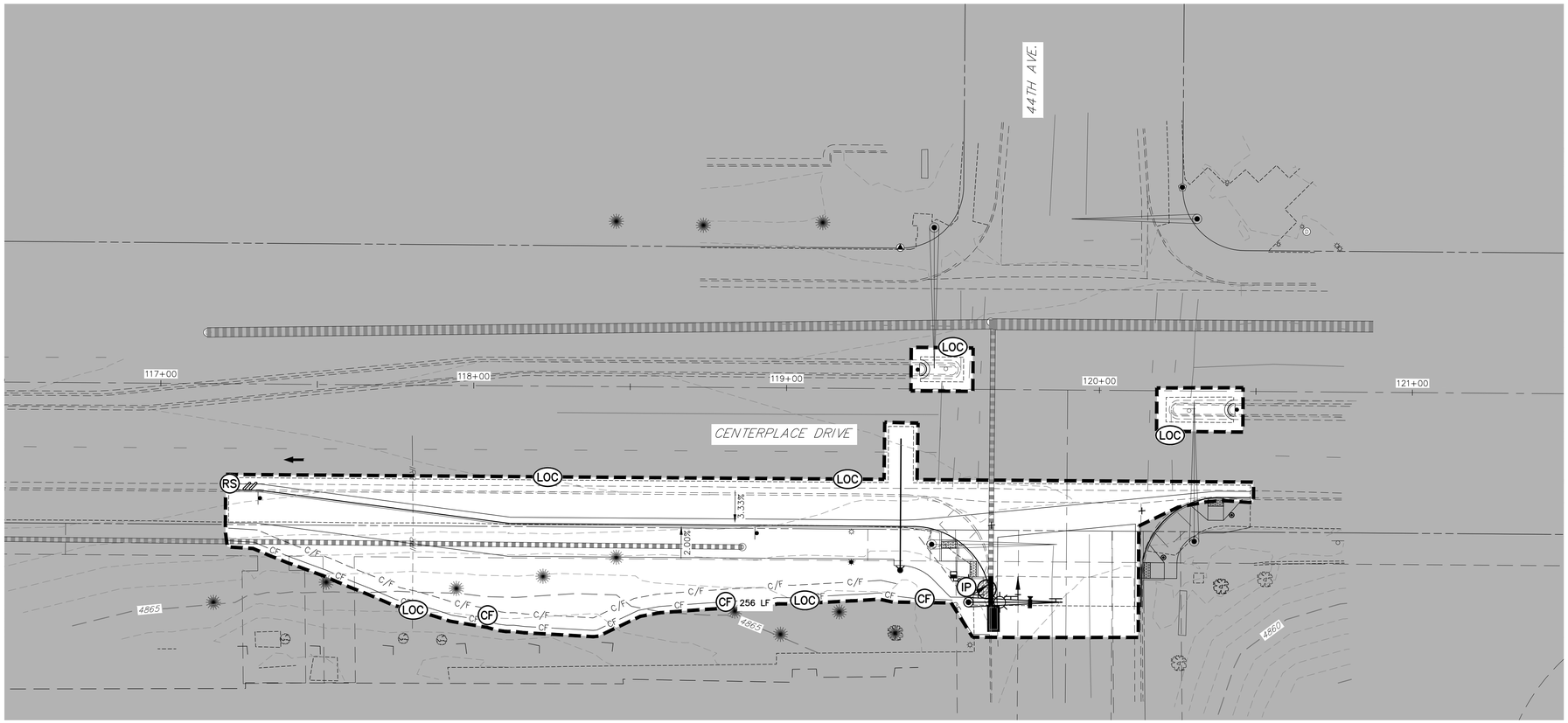


KEY MAP
SCALE: 1"=1000'



CENTERPLACE DRIVE
STA: 116+50 TO 121+50

LEGEND

SF	SILT FENCE	C/F	PROPOSED CUT & FILL LINE
CF	CONSTRUCTION FENCE	5080	EXISTING INDEX CONTOUR
IP	STORM DRAIN INLET PROTECTION		EXISTING CONTOUR
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ORIGINAL SCALE: 1" = 20'

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CHECKED BY	

CENTERPLACE TURN LANE IMPROVEMENTS

GRADING & EROSION CONTROL PLAN

INITIAL STAGE – PHASE II

SHEET 18 OF 37

JOB NO. 39722.02

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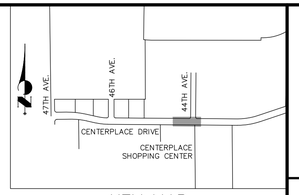
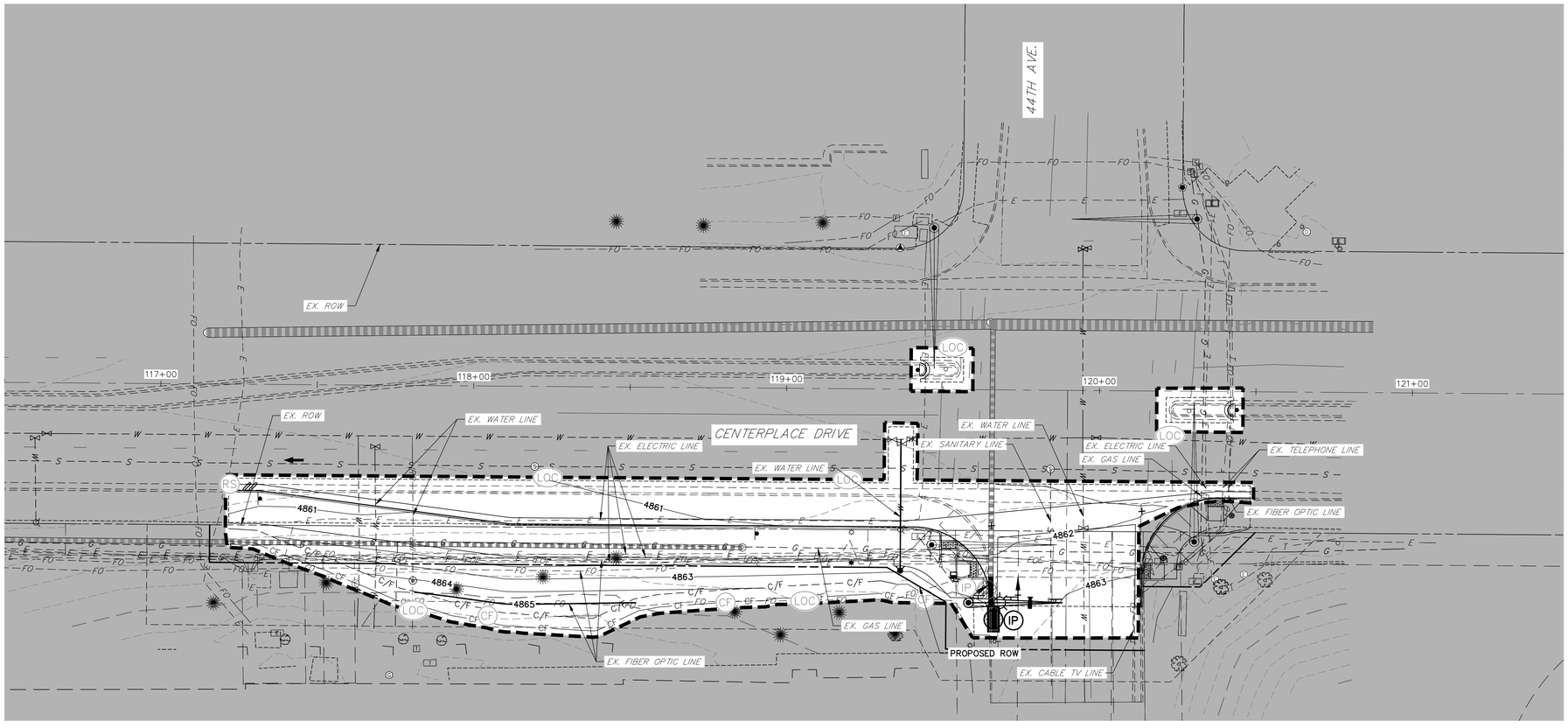


KEY MAP
SCALE: 1"=1000'



CENTERPLACE DRIVE
STA: 116+50 TO 121+50

LEGEND

SF — SF —	SILT FENCE
CF — CF —	CONSTRUCTION FENCE
IP	STORM DRAIN INLET PROTECTION
OP	STORM DRAIN OUTLET PROTECTION
LS	LANDSCAPE RESTORATION
CWA	CONCRETE WASHOUT AREA
SCL	SEDIMENT CONTROL LOG
	DRAINAGE DIRECTION
	PROPOSED ROW
	PROPOSED EASEMENT
LOC	LIMITS OF CONSTRUCTION
C/F	PROPOSED CUT & FILL LINE
5080	EXISTING INDEX CONTOUR
	EXISTING CONTOUR
5080	PROPOSED INDEX CONTOUR
	PROPOSED CONTOUR
SB	SEDIMENT BASIN
ECB	EROSION CONTROL BLANKET
VTC	VEHICLE TRACKING CONTROL
SSA	STABILIZED STAGING AREA
DD	DIVERSION DITCH
RS	ROCK SOCK

NOTES

1. INSTALL EROSION/SEDIMENT CONTROL ONLY DURING APPROPRIATE PHASING, AND AS APPROVED BY THE ENGINEER. HOWEVER, INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY AFTER CONSTRUCTION OF NEW INLETS.
2. SECTION 13 OF THE CITY OF GREELEY DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS SHALL APPLY FOR ALL EXCAVATION AND EMBANKMENT AREAS. THE ROADWAY SUBGRADE MATERIALS SHALL BE FREE OF ORGANIC MATERIALS AND OTHER DELETERIOUS MATERIALS AND SHALL BE THOROUGHLY SCARIFIED, AND WELL MIXED.
3. CONTRACTOR MAY INSTALL SILT FENCE TO RIGHT-OF-WAY OR TEMPORARY CONSTRUCTION EASEMENT.
4. THE CONTRACTOR SHALL FIND AN APPROPRIATE LOCATION TO SET UP CONCRETE WASHOUT AREA, VEHICLE TRACKING CONTROL, AND STABILIZED STAGING AREA AND SUBMIT TO THE CITY FOR APPROVAL.
5. THE TOTAL DISTURBANCE AREA IS 0.76AC. NO STATE PERMIT OR STORM WATER MANAGEMENT PLAN ARE REQUIRED.

20 10 0 20 40
ORIGINAL SCALE: 1" = 20'

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

ENGINEER'S STATEMENT

PREPARED UNDER MY SUPERVISION

ELIJAH C. FARNEY, P.E.
COLORADO P.E. 41677
FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR
BRIAN WARD
CITY OF GREELEY-PUBLIC WORKS
1001 9TH AVENUE
GREELEY, CO 80631
(970) 350-9792

J·R ENGINEERING
A Westrian Company
Centennial 303-740-9393 • Colorado Springs 719-593-2593
Fort Collins 970-491-9888 • www.jrengineering.com

No.	REVISION	BY	DATE

H-SCALE	1"=20'
V-SCALE	N/A
DATE	01/31/20
DESIGNED BY	SRM
DRAWN BY	SRM
CHECKED BY	

CENTERPLACE TURN LANE IMPROVEMENTS

GRADING & EROSION CONTROL PLAN

INTERIM STAGE – PHASE II

SHEET 19 OF 37

JOB NO. 39722.02

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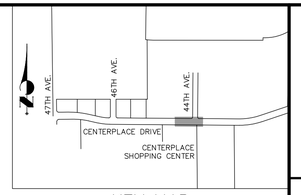
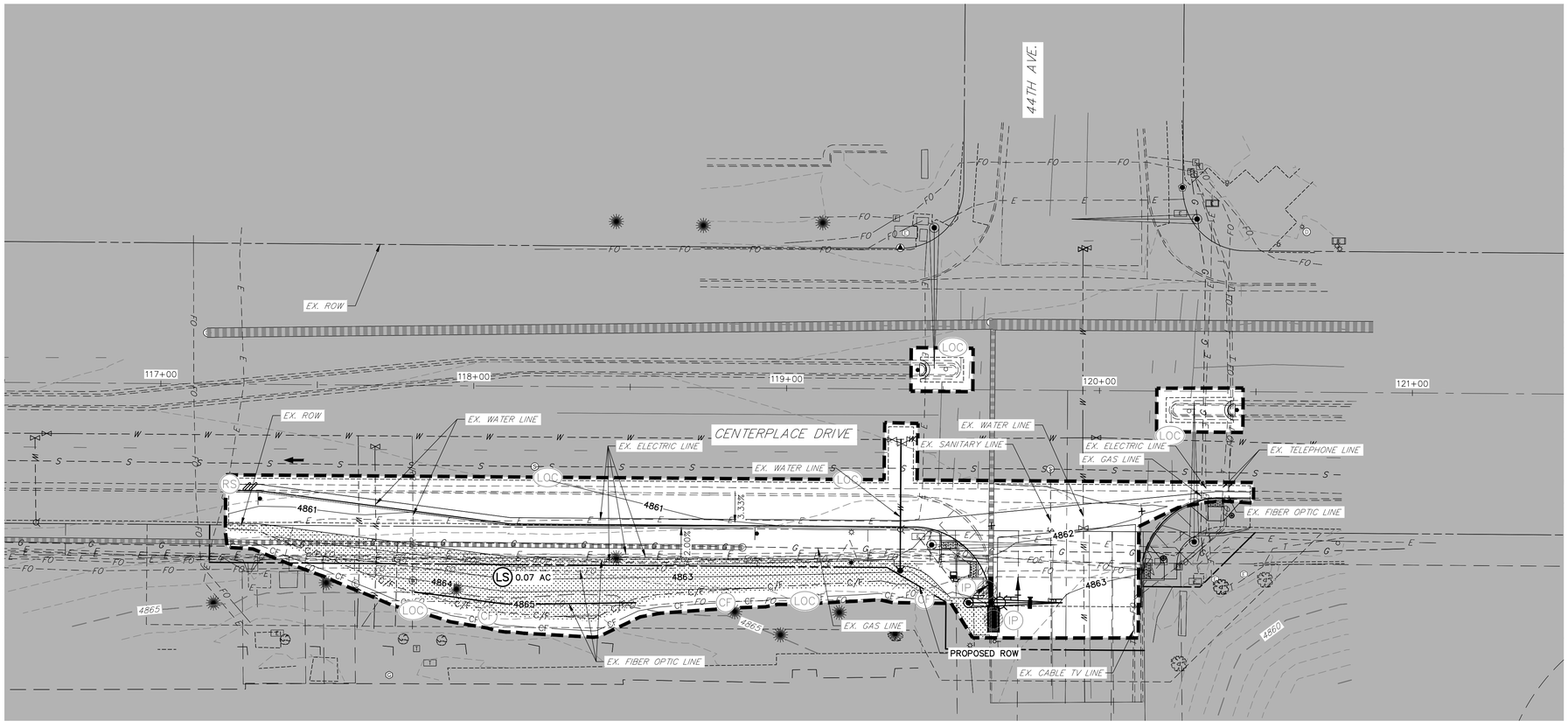


KEY MAP
SCALE: 1"=1000'



CENTERPLACE DRIVE
STA: 116+50 TO 121+50

LEGEND

SF — SF —	SILT FENCE
CF — CF —	CONSTRUCTION FENCE
IP	STORM DRAIN INLET PROTECTION
OP	STORM DRAIN OUTLET PROTECTION
LS	LANDSCAPE RESTORATION
CWA	CONCRETE WASHOUT AREA
SCL	SEDIMENT CONTROL LOG
	DRAINAGE DIRECTION
	PROPOSED ROW
	PROPOSED EASEMENT
LOC	LIMITS OF CONSTRUCTION
C/F	PROPOSED CUT & FILL LINE
5080	EXISTING INDEX CONTOUR
	EXISTING CONTOUR
5080	PROPOSED INDEX CONTOUR
	PROPOSED CONTOUR
SB	SEDIMENT BASIN
ECB	EROSION CONTROL BLANKET
VTC	VEHICLE TRACKING CONTROL
SSA	STABILIZED STAGING AREA
DD	DIVERSION DITCH
RS	ROCK SOCK

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20 10 0 20 40
ORIGINAL SCALE: 1" = 20'

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ENGINEER'S STATEMENT

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COLORADO REGISTERED PROFESSIONAL ENGINEER ELIJAH C. FARNEY 41677

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H-SCALE	1"=20'
V-SCALE	N/A
DATE	01/31/20
DESIGNED BY	SRM
DRAWN BY	SRM
CHECKED BY	

CENTERPLACE TURN LANE IMPROVEMENTS

GRADING & EROSION CONTROL PLAN

FINAL STAGE – PHASE II

SHEET 20 OF 37

JOB NO. 39722.02

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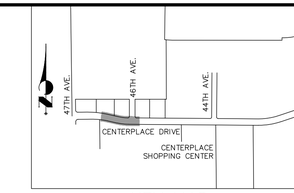
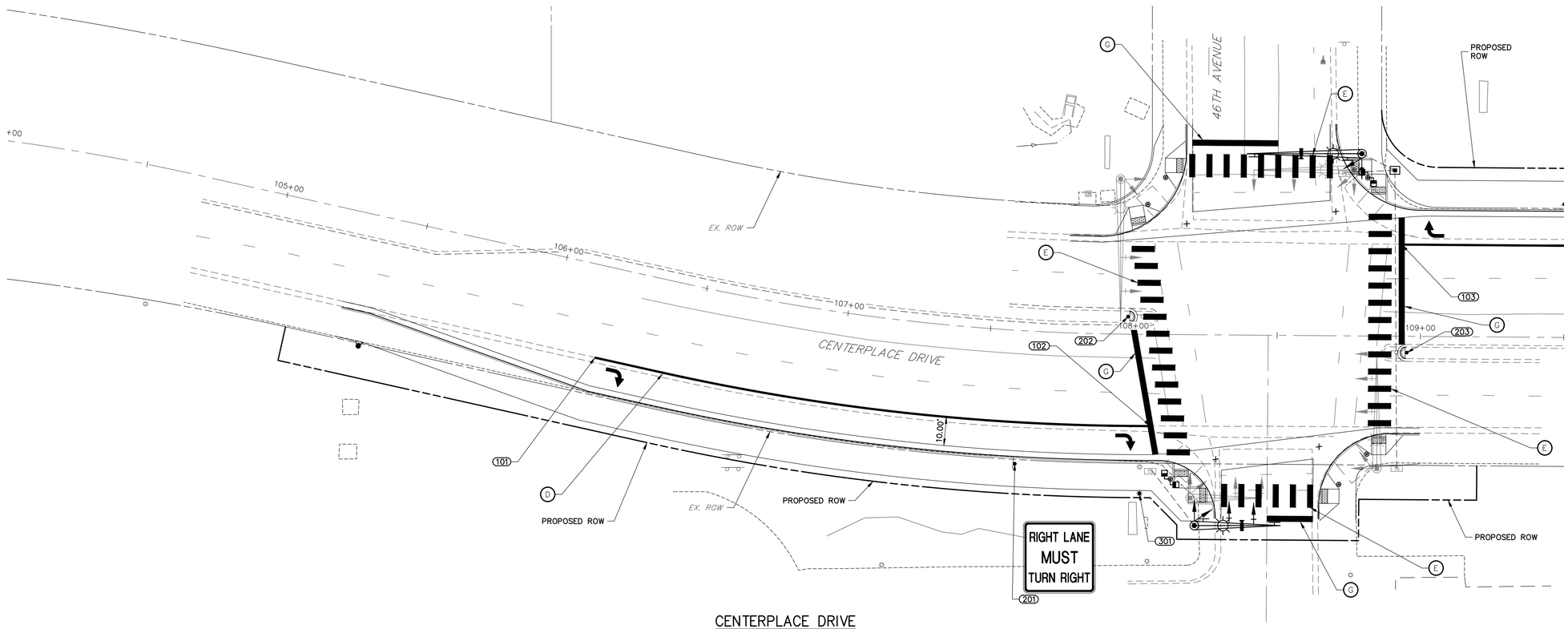
STRIPING TABULATION					
STRIPE NUMBER	STATION	OFFSET	ALIGNMENT	NOTES	DESCRIPTION
101	106+17.13	32.00' (RT)	CL – CENTERPLACE		BEGIN STRIPE
102	108+06.07	32.00' (RT)	CL – CENTERPLACE		END STRIPE
103	108+93.22	32.00' (LT)	CL – CENTERPLACE		BEGIN STRIPE

SIGN TABULATION					
SIGN NUMBER	STATION	OFFSET	ALIGNMENT	NOTES	DESCRIPTION
201	107+61.14	46.50' (RT)	CL – CENTERPLACE		R3–7R 30"X30"
202	107+97.95	6.14' (LT)	CL – CENTERPLACE		RESET KEEP RIGHT SIGN INSTALL 4" PVC SLEEVE
203	108+95.23	5.70' (RT)	CL – CENTERPLACE		RESET KEEP RIGHT SIGN INSTALL 4" PVC SLEEVE

STREET LIGHT TABULATION						
STREET LIGHT NUMBER	STATION	OFFSET	ALIGNMENT	ELEVATION	NOTES	DESCRIPTION
301	108+02.35	55.50' (RT)	CL – CENTERPLACE	4865.57		RESET STREET LIGHT



KEY MAP
SCALE: 1"=1000'



CENTERPLACE DRIVE
STA: 104+00 TO 109+50

LEGEND

- PROPOSED SIGN / EXISTING SIGN
- CDOT DELINEATOR TYPE I (CRYSTAL)
- CDOT DELINEATOR TYPE II (CRYSTAL)
- CDOT DELINEATOR TYPE II (YELLOW)
- CDOT DELINEATOR TYPE II (YELLOW) BACK TO BACK
- (XX) PROPOSED STRIPE
- (XX) EXISTING STRIPE
- (A) LANE LINE – 4" WIDE X 10' LONG, 30' GAP, WHITE THERMOPLASTIC
- (B) CENTER LINE – 4" WIDE, SOLID DOUBLE YELLOW, THERMOPLASTIC
- (C) EDGE LINE – 4" WIDE, SOLID WHITE, THERMOPLASTIC
- (D) CHANNELIZING LINE – 8" WIDE, SOLID WHITE THERMOPLASTIC
- (E) CROSSWALK – 2'X8' SOLID WHITE THERMOPLASTIC
- (F) LANE EXTENSION LINE – 4" WIDE X 2' LONG, 4' GAP, WHITE, THERMOPLASTIC
- (G) STOP BAR – 2'x10' SOLID WHITE, THERMOPLASTIC
- (H) LANE DROP LINE – 11' WIDE x 3' LONG, 12' GAP WHITE, THERMOPLASTIC
- (I) EDGE LINE – 4" WIDE, SOLID YELLOW, THERMOPLASTIC
- (XX) TABULATION KEY

LIGHTING NOTES

1. STREET LIGHTS, FOUNDATIONS, CONDUIT, PULL BOXES, WIRING, AND SERVICE PEDESTALS SHALL BE INSTALLED IN ACCORDANCE WITH CDOT SECTIONS 613 AND 715, CITY SECTION 1.20, UNLESS OTHERWISE NOTED.
2. PLASTIC CONDUIT SHALL BE SCHEDULE 80. UNDERGROUND CONDUIT SHALL BE BURIED A MINIMUM OF 24 INCHES BELOW FINISHED GRADE. CONDUIT UNDER ROADWAYS SHALL BE BURIED A MINIMUM OF 28 INCHES BELOW FINISHED GRADE.
3. UNITED POWER SHALL TEST STREET LIGHTS IN ACCORDANCE WITH CDOT SECTION 613.

SIGNAGE AND STRIPING NOTES

1. ALL SIGNAGE AND STRIPING SHALL BE PLACED IN ACCORDANCE WITH THE MUTCD.
2. SIGNS SHALL BE MOUNTED PER CITY OF GREELEY DETAILS S–41 TO S–47.
3. EXISTING STRIPING SHALL BE REMOVED BY WATER JETTING ONLY.
4. CONTRACTOR SHALL CONFIRM EXISTING STRIPING AND MAKE MODIFICATIONS TO NEW STRIPING AS NEEDED.
5. ALL PAVEMENT MARKINGS SHALL BE HOT EXTRUDED THERMOPLASTIC FOR STRIPING AND PREFORMED FOR ARROWS AND LETTERING.
6. SEE SHEET 34–37 FOR DETAILS

20 10 0 20 40
ORIGINAL SCALE: 1" = 20'

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

ENGINEER'S STATEMENT

PREPARED UNDER MY SUPERVISION

ELIJAH C. FARNEY, P.E.
COLORADO P.E. 41677
FOR AND ON BEHALF OF JR ENGINEERING

DATE

COLORADO ELIJAH C. FARNEY 41677 PROFESSIONAL ENGINEER

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No.	REVISION	BY	DATE

H–SCALE	1"=20'
V–SCALE	N/A
DATE	01/31/20
DESIGNED BY	SRM
DRAWN BY	SRM
CHECKED BY	

CENTERPLACE TURN LANE IMPROVEMENTS

SIGNAGE STRIPING AND LIGHTING PLAN

PHASE I

SHEET 21 OF 37

JOB NO. 39722.02

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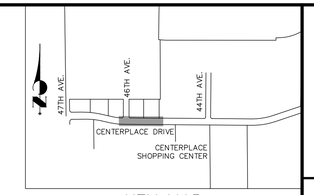
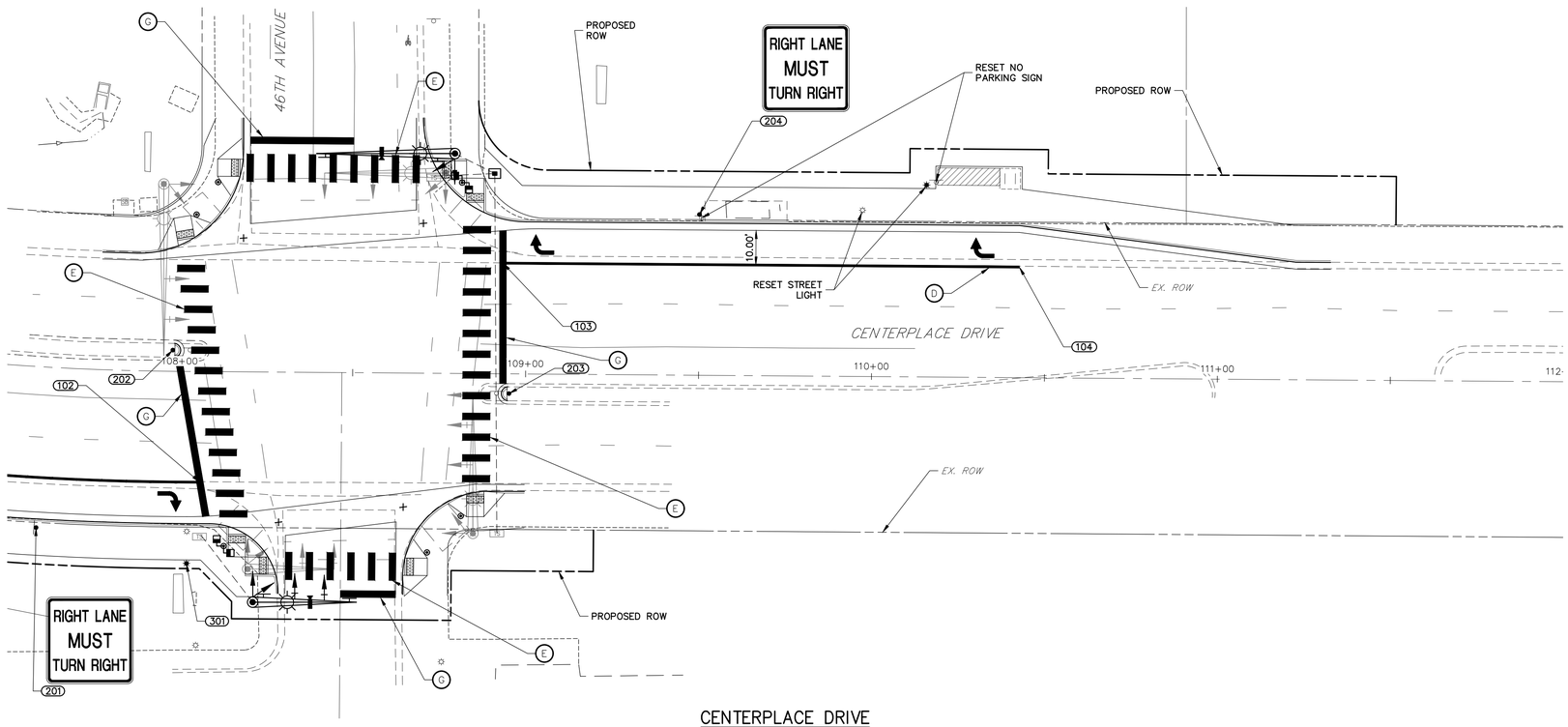
STRIPING TABULATION					
STRIPE NUMBER	STATION	OFFSET	ALIGNMENT	NOTES	DESCRIPTION
102	108+06.07	32.00' (RT)	CL – CENTERPLACE		END STRIPE
103	108+93.22	32.00' (LT)	CL – CENTERPLACE		BEGIN STRIPE
104	110+42.52	32.00' (LT)	CL – CENTERPLACE		END STRIPE

SIGN TABULATION					
SIGN NUMBER	STATION	OFFSET	ALIGNMENT	NOTES	DESCRIPTION
201	107+61.14	46.50' (RT)	CL – CENTERPLACE		R3–7R 30"X30"
202	107+97.95	6.14' (LT)	CL – CENTERPLACE		RESET KEEP RIGHT SIGN INSTALL 4" PVC SLEEVE
203	108+95.23	5.70' (RT)	CL – CENTERPLACE		RESET KEEP RIGHT SIGN INSTALL 4" PVC SLEEVE
204	109+49.91	46.50' (LT)	CL – CENTERPLACE		R3–7R 30"X30"

STREET LIGHT TABULATION						
STREET LIGHT NUMBER	STATION	OFFSET	ALIGNMENT	ELEVATION	NOTES	DESCRIPTION
301	108+02.35	55.50' (RT)	CL – CENTERPLACE	4865.57		RESET STREET LIGHT



KEY MAP
SCALE: 1"=1000'



CENTERPLACE DRIVE
STA: 107+50 TO 112+00

LEGEND

- PROPOSED SIGN / EXISTING SIGN
- CDOT DELINEATOR TYPE I (CRYSTAL)
- CDOT DELINEATOR TYPE II (CRYSTAL)
- CDOT DELINEATOR TYPE II (YELLOW)
- CDOT DELINEATOR TYPE II (YELLOW) BACK TO BACK
- (XX) PROPOSED STRIPE
- (XX) EXISTING STRIPE
- (A) LANE LINE – 4" WIDE X 10' LONG, 30' GAP, WHITE THERMOPLASTIC
- (B) CENTER LINE – 4" WIDE, SOLID DOUBLE YELLOW, THERMOPLASTIC
- (C) EDGE LINE – 4" WIDE, SOLID WHITE, THERMOPLASTIC
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- (XX) TABULATION KEY

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3. UNITED POWER SHALL TEST STREET LIGHTS IN ACCORDANCE WITH CDOT SECTION 613.

SIGNAGE AND STRIPING NOTES

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2. SIGNS SHALL BE MOUNTED PER CITY OF GREELEY DETAILS S–41 TO S–47.
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6. SEE SHEET 34–37 FOR DETAILS

20 10 0 20 40
ORIGINAL SCALE: 1" = 20'

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

ENGINEER'S STATEMENT

PREPARED UNDER MY SUPERVISION

ELIJAH C. FARNEY, P.E.
COLORADO P.E. 41677
FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE

COLORADO REGISTERED PROFESSIONAL ENGINEER ELIJAH C. FARNEY 41677

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No.	REVISION	BY	DATE

H–SCALE	1"=20'
V–SCALE	N/A
DATE	01/31/20
DESIGNED BY	SRM
DRAWN BY	SRM
CHECKED BY	

CENTERPLACE TURN LANE IMPROVEMENTS

SIGNAGE STRIPING AND LIGHTING PLAN

PHASE I

SHEET 22 OF 37

JOB NO. 39722.02

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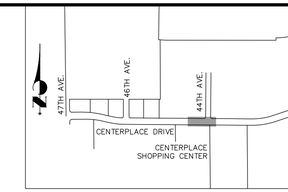
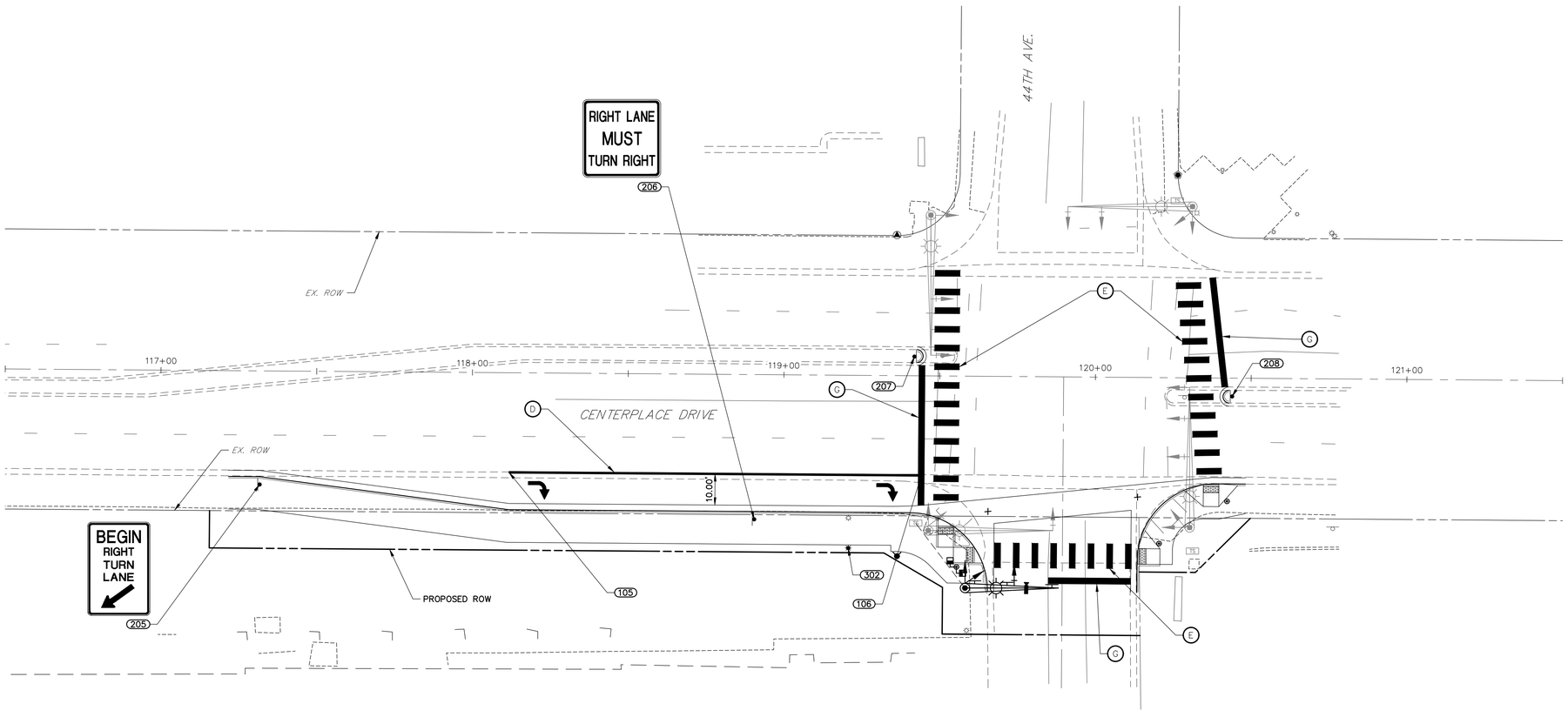
STRIPING TABULATION					
STRIPE NUMBER	STATION	OFFSET	ALIGNMENT	NOTES	DESCRIPTION
105	118+11.95	32.00' (RT)	CL – CENTERPLACE		BEGIN STRIPE
106	119+44.31	32.00' (RT)	CL – CENTERPLACE		END STRIPE

SIGN TABULATION					
SIGN NUMBER	STATION	OFFSET	ALIGNMENT	NOTES	DESCRIPTION
205	117+31.94	36.50' (RT)	CL – CENTERPLACE		R3–20R 24"X36"
206	118+90.79	46.50' (RT)	CL – CENTERPLACE		R3–7R 30"X30"
207	119+41.85	6.16' (LT)	CL – CENTERPLACE		RESET KEEP RIGHT SIGN INSTALL 4" PVC SLEEVE
208	120+43.93	5.87' (RT)	CL – CENTERPLACE		RESET KEEP RIGHT SIGN INSTALL 4" PVC SLEEVE

STREET LIGHT TABULATION						
STREET LIGHT NUMBER	STATION	OFFSET	ALIGNMENT	ELEVATION	NOTES	DESCRIPTION
302	119+21.05	55.50' (RT)	CL – CENTERPLACE	4862.13		RESET STREET LIGHT



KEY MAP
SCALE: 1"=1000'



CENTERPLACE DRIVE
STA: 116+50 TO 121+50

LEGEND

- PROPOSED SIGN / EXISTING SIGN
- CDOT DELINEATOR TYPE I (CRYSTAL)
- CDOT DELINEATOR TYPE II (CRYSTAL)
- CDOT DELINEATOR TYPE II (YELLOW)
- CDOT DELINEATOR TYPE II (YELLOW) BACK TO BACK
- (XX) PROPOSED STRIPE
- (XX) EXISTING STRIPE
- (A) LANE LINE – 4" WIDE X 10' LONG, 30' GAP, WHITE THERMOPLASTIC
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- (XX) TABULATION KEY

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6. SEE SHEET 34–37 FOR DETAILS

N
20 10 0 20 40
ORIGINAL SCALE: 1" = 20'

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

ENGINEER'S STATEMENT

PREPARED UNDER MY SUPERVISION

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COLORADO P.E. 41677
FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE

COLORADO LICENSED ELIJAH C. FARNEY 41677 PROFESSIONAL ENGINEER

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H–SCALE	1"=20'
V–SCALE	N/A
DATE	01/31/20
DESIGNED BY	SRM
DRAWN BY	SRM
CHECKED BY	

CENTERPLACE TURN LANE IMPROVEMENTS

SIGNAGE STRIPING AND LIGHTING PLAN

PHASE II

SHEET 23 OF 37

JOB NO. 39722.02

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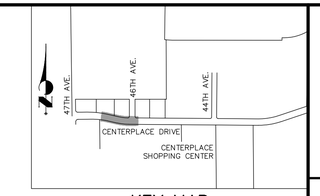
POINT TABULATION						
POINT NUMBER	STATION	OFFSET	ALIGNMENT	ELEVATION	NOTES	DESCRIPTION
101	105+27.13	34.00' (RT)	CL – CENTERPLACE	4871.34	±	MATCH EX. C&G
102	105+27.13	26.00' (RT)	CL – CENTERPLACE	4871.57	±	MATCH EX. ASPH
103	105+37.13	34.00' (RT)	CL – CENTERPLACE	4871.00		PI
104	106+17.13	44.00' (RT)	CL – CENTERPLACE	4868.54		PI
105	108+08.89	44.00' (RT)	CL – CENTERPLACE	4864.54		PCR/LP
106	108+28.89	64.00' (RT)	CL – CENTERPLACE	4865.39		PCR/MATCH EX. C&G
107	107+76.46	34.00' (LT)	CL – CENTERPLACE	4865.50	±	MATCH EX. C&G
108	107+76.46	26.00' (LT)	CL – CENTERPLACE	4865.77	±	MATCH EX. ASPH
109	107+86.94	34.00' (LT)	CL – CENTERPLACE	4865.31		PCR
110	108+17.98	64.31' (LT)	CL – CENTERPLACE	4864.83		PCR

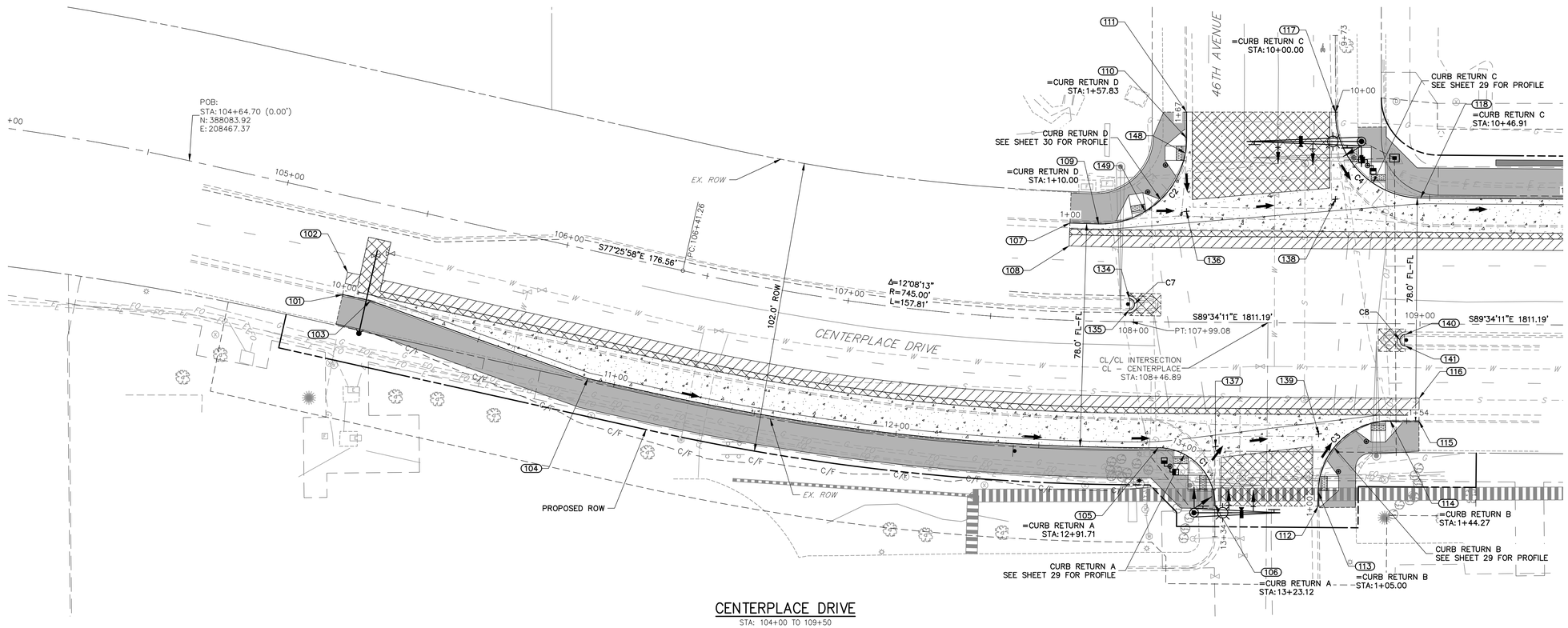
POINT TABULATION						
POINT NUMBER	STATION	OFFSET	ALIGNMENT	ELEVATION	NOTES	DESCRIPTION
111	108+17.91	73.40' (LT)	CL – CENTERPLACE	4864.87	±	MATCH EX. C&G
112	108+64.89	64.00' (RT)	CL – CENTERPLACE	4865.03	±	MATCH EX. C&G
113	108+64.89	59.00' (RT)	CL – CENTERPLACE	4864.81		PCR
114	108+89.89	34.00' (RT)	CL – CENTERPLACE	4863.26		PCR
115	108+99.89	34.00' (RT)	CL – CENTERPLACE	4863.06	±	MATCH EX. C&G
116	108+99.88	26.00' (RT)	CL – CENTERPLACE	4863.42	±	MATCH EX. ASPH
117	108+69.91	73.78' (LT)	CL – CENTERPLACE	4864.30		PCR/MATCH EX. C&G
118	108+99.91	44.00' (LT)	CL – CENTERPLACE	4862.81		PCR
134	107+98.41	8.08' (LT)	CL – CENTERPLACE	4865.82	±	MATCH EX. C&G NOSE MEDIAN
135	107+98.35	4.06' (LT)	CL – CENTERPLACE	4865.89	±	MATCH EX. C&G NOSE MEDIAN

POINT TABULATION						
POINT NUMBER	STATION	OFFSET	ALIGNMENT	ELEVATION	NOTES	DESCRIPTION
136	108+18.17	38.68' (LT)	CL – CENTERPLACE	4864.59		FL–FL INTERCEPT
137	108+28.89	43.42' (RT)	CL – CENTERPLACE	4864.20		FL–FL INTERCEPT
138	108+70.13	43.34' (LT)	CL – CENTERPLACE	4863.36		FL–FL INTERCEPT
139	108+64.89	38.75' (RT)	CL – CENTERPLACE	4863.61		FL–FL INTERCEPT
140	108+94.91	3.76' (RT)	CL – CENTERPLACE	4864.01	±	MATCH EX. C&G NOSE MEDIAN
141	108+94.89	7.78' (RT)	CL – CENTERPLACE	4863.97	±	MATCH EX. C&G NOSE MEDIAN
148	108+17.56	59.06' (LT)	CL – CENTERPLACE	4864.85		LP
149	108+03.79	38.59' (LT)	CL – CENTERPLACE	4865.06		LP



KEY MAP
SCALE: 1"=1000'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C1	90°00'00"	20.00'	31.42'
C3	90°00'00"	25.00'	39.27'



CENTERPLACE DRIVE
STA: 104+00 TO 109+50

LEGEND

- PROPOSED 2" MILL AND OVERLAY (SEE SHEET 4 FOR PAVEMENT SECTION DETAILS)
- PROPOSED ASPHALT (SEE SHEET 4 FOR PAVEMENT SECTION DETAILS)
- PROPOSED CONCRETE (SEE SHEET 4 FOR PAVEMENT SECTION DETAILS)
- PROPOSED CONCRETE SIDEWALK (6" DEPTH)

NOTES

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2. UNLESS OTHERWISE NOTED, C&G SHALL FOLLOW CITY OF GREELEY S–16 DETAIL. SEE SHEET 35.
3. ALL SAWCUTS SHALL BE TO A CLEAN VERTICAL FACE.
4. ALL CURB RAMP WIDTHS SHALL MATCH THE WIDTH OF THE SIDEWALK THEY ARE CONNECTING TO FOR THE THROUGH MOVEMENTS, WITH THE MINIMUM WIDTH BEING 5 FEET WIDE.

20 10 0 20 40
ORIGINAL SCALE: 1" = 20'

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

ENGINEER'S STATEMENT

PREPARED UNDER MY SUPERVISION

ELIJAH C. FARNEY, P.E.
COLORADO P.E. 41677
FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE

COLORADO LICENSED PROFESSIONAL ENGINEER ELIJAH C. FARNEY 41677

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PREPARED FOR
BRIAN WARD
CITY OF GREELEY–PUBLIC WORKS
1001 9TH AVENUE
GREELEY, CO 80631
(970) 350–9792

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A Westrian Company
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Fort Collins 970–491–9888 • www.jrengineering.com

No.	REVISION	BY	DATE

H–SCALE	1"=20'
V–SCALE	N/A
DATE	01/31/20
DESIGNED BY	SRM
DRAWN BY	SRM
CHECKED BY	

CENTERPLACE TURN LANE IMPROVEMENTS
STREET PLAN
PHASE I

SHEET 24 OF 37
JOB NO. 39722.02

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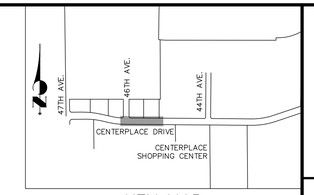
POINT TABULATION						
POINT NUMBER	STATION	OFFSET	ALIGNMENT	ELEVATION	NOTES	DESCRIPTION
105	108+08.89	44.00' (RT)	CL – CENTERPLACE	4864.54		PCR/LP
106	108+28.89	64.00' (RT)	CL – CENTERPLACE	4865.39		PCR/MATCH EX. C&G
107	107+76.46	34.00' (LT)	CL – CENTERPLACE	4865.50	±	MATCH EX. C&G
108	107+76.46	26.00' (LT)	CL – CENTERPLACE	4865.77	±	MATCH EX. ASPH
109	107+86.94	34.00' (LT)	CL – CENTERPLACE	4865.31		PCR
110	108+17.98	64.31' (LT)	CL – CENTERPLACE	4864.83		PCR
111	108+17.91	73.40' (LT)	CL – CENTERPLACE	4864.87	±	MATCH EX. C&G
112	108+64.89	64.00' (RT)	CL – CENTERPLACE	4865.03	±	MATCH EX. C&G
113	108+64.89	59.00' (RT)	CL – CENTERPLACE	4864.81		PCR
114	108+89.89	34.00' (RT)	CL – CENTERPLACE	4863.26		PCR

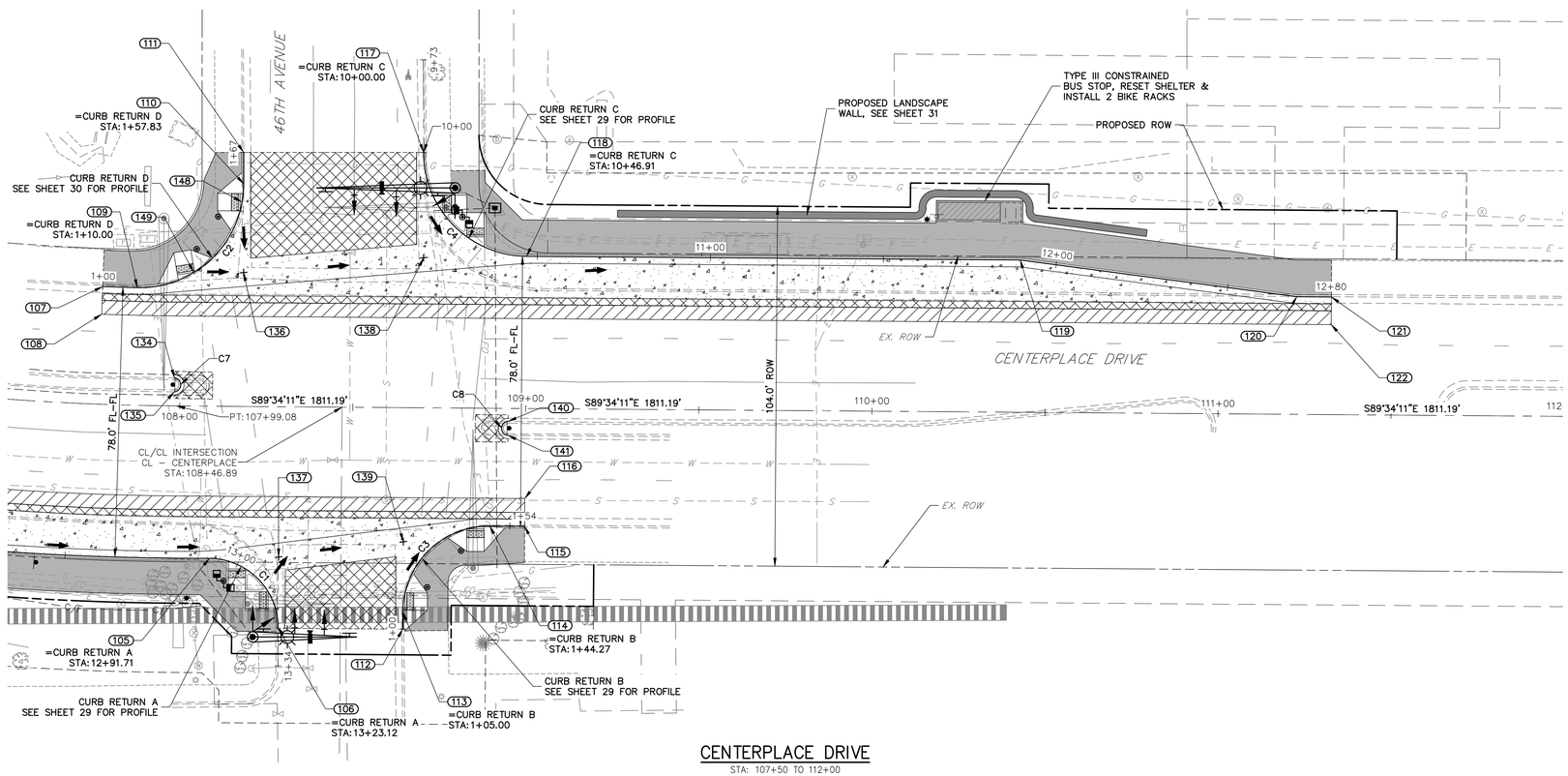
POINT TABULATION						
POINT NUMBER	STATION	OFFSET	ALIGNMENT	ELEVATION	NOTES	DESCRIPTION
115	108+99.89	34.00' (RT)	CL – CENTERPLACE	4863.06	±	MATCH EX. C&G
116	108+99.88	26.00' (RT)	CL – CENTERPLACE	4863.42	±	MATCH EX. ASPH
117	108+69.91	73.78' (LT)	CL – CENTERPLACE	4864.30		PCR/MATCH EX. C&G
118	108+99.91	44.00' (LT)	CL – CENTERPLACE	4862.81		PCR
119	110+42.52	44.00' (LT)	CL – CENTERPLACE	4860.77		PI
120	111+22.52	34.00' (LT)	CL – CENTERPLACE	4860.16		PI
121	111+32.52	34.00' (LT)	CL – CENTERPLACE	4860.01	±	MATCH EX. C&G
122	111+32.52	26.00' (LT)	CL – CENTERPLACE	4860.31	±	MATCH EX. ASPH
134	107+98.41	8.08' (LT)	CL – CENTERPLACE	4865.82	±	MATCH EX. C&G NOSE MEDIAN
135	107+98.35	4.06' (LT)	CL – CENTERPLACE	4865.89	±	MATCH EX. C&G NOSE MEDIAN

POINT TABULATION						
POINT NUMBER	STATION	OFFSET	ALIGNMENT	ELEVATION	NOTES	DESCRIPTION
136	108+18.17	38.68' (LT)	CL – CENTERPLACE	4864.59		FL–FL INTERCEPT
137	108+28.89	43.42' (RT)	CL – CENTERPLACE	4864.20		FL–FL INTERCEPT
138	108+70.13	43.34' (LT)	CL – CENTERPLACE	4863.36		FL–FL INTERCEPT
139	108+64.89	38.75' (RT)	CL – CENTERPLACE	4863.61		FL–FL INTERCEPT
140	108+94.91	3.76' (RT)	CL – CENTERPLACE	4864.01	±	MATCH EX. C&G NOSE MEDIAN
141	108+94.89	7.78' (RT)	CL – CENTERPLACE	4863.97	±	MATCH EX. C&G NOSE MEDIAN
148	108+17.56	59.06' (LT)	CL – CENTERPLACE	4864.85		LP
149	108+03.79	38.59' (LT)	CL – CENTERPLACE	4865.06		LP

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C1	90°00'00"	20.00'	31.42'
C3	90°00'00"	25.00'	39.27'



KEY MAP
SCALE: 1"=1000'



CENTERPLACE DRIVE
STA: 107+50 TO 112+00

LEGEND

- PROPOSED 2" MILL AND OVERLAY (SEE SHEET 4 FOR PAVEMENT SECTION DETAILS)
- PROPOSED ASPHALT (SEE SHEET 4 FOR PAVEMENT SECTION DETAILS)
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- PROPOSED CONCRETE SIDEWALK (6" DEPTH)

NOTES

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20 10 0 20 40
ORIGINAL SCALE: 1" = 20'

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

ENGINEER'S STATEMENT

PREPARED UNDER MY SUPERVISION

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COLORADO P.E. 41677
FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE

COLORADO REGISTERED PROFESSIONAL ENGINEER ELIJAH C. FARNEY 41677

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PREPARED FOR
BRIAN WARD
CITY OF GREELEY–PUBLIC WORKS
1001 9TH AVENUE
GREELEY, CO 80631
(970) 350–9792

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No.	REVISION	BY	DATE

H–SCALE	1"=20'
V–SCALE	N/A
DATE	01/31/20
DESIGNED BY	SRM
DRAWN BY	SRM
CHECKED BY	

CENTERPLACE TURN LANE IMPROVEMENTS
STREET PLAN
PHASE I

SHEET 25 OF 37
JOB NO. 39722.02

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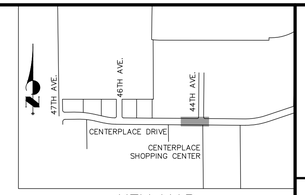
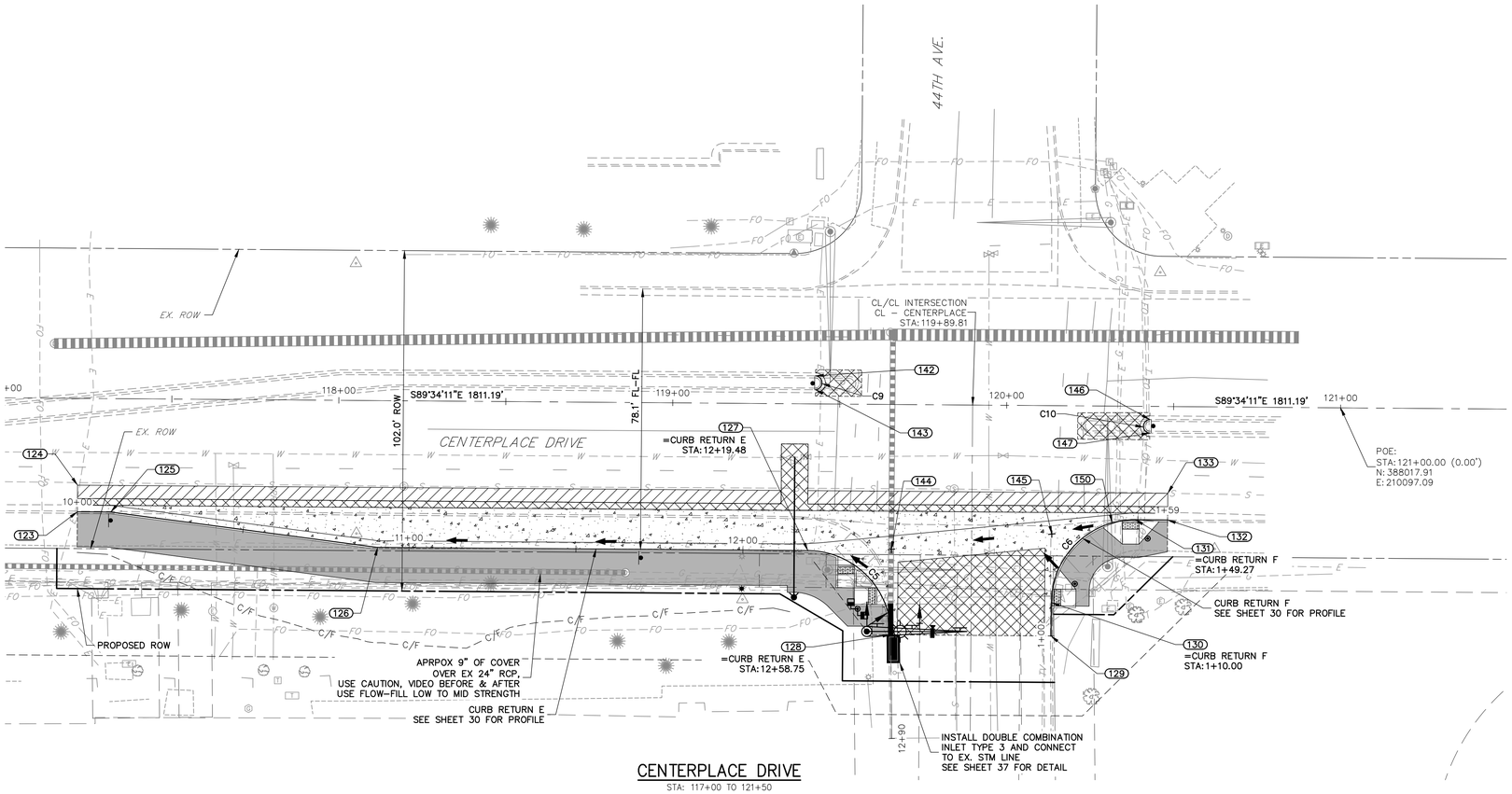
POINT TABULATION						
POINT NUMBER	STATION	OFFSET	ALIGNMENT	ELEVATION	NOTES	DESCRIPTION
123	117+21.95	34.00' (RT)	CL – CENTERPLACE	4860.36	±	MATCH EX. C&G
124	117+21.95	26.00' (RT)	CL – CENTERPLACE	4860.67	±	MATCH EX. ASPH
125	117+31.95	34.00' (RT)	CL – CENTERPLACE	4860.41		PI
126	118+11.95	44.00' (RT)	CL – CENTERPLACE	4860.52		PI
127	119+40.81	44.00' (RT)	CL – CENTERPLACE	4861.38		PCR
128	119+65.81	69.00' (RT)	CL – CENTERPLACE	4862.50		PCR/MATCH EX. C&G
129	120+13.81	69.00' (RT)	CL – CENTERPLACE	4863.30	±	MATCH EX. C&G
130	120+13.81	59.00' (RT)	CL – CENTERPLACE	4863.02		PCR
131	120+38.81	34.00' (RT)	CL – CENTERPLACE	4862.13		PCR
132	120+48.44	34.00' (RT)	CL – CENTERPLACE	4862.19	±	MATCH EX. C&G

POINT TABULATION						
POINT NUMBER	STATION	OFFSET	ALIGNMENT	ELEVATION	NOTES	DESCRIPTION
133	120+48.44	26.00' (RT)	CL – CENTERPLACE	4862.49	±	MATCH EX. ASPH
142	119+42.71	8.39' (LT)	CL – CENTERPLACE	4862.24	±	MATCH EX. C&G NOSE MEDIAN
143	119+42.71	4.24' (LT)	CL – CENTERPLACE	4862.38	±	MATCH EX. C&G NOSE MEDIAN
144	119+65.81	43.43' (RT)	CL – CENTERPLACE	4861.63		FL–FL INTERCEPT
145	120+13.81	38.46' (RT)	CL – CENTERPLACE	4861.92		FL–FL INTERCEPT
146	120+42.90	3.94' (RT)	CL – CENTERPLACE	4862.94	±	MATCH EX. C&G NOSE MEDIAN
147	120+42.90	8.00' (RT)	CL – CENTERPLACE	4862.84	±	MATCH EX. C&G NOSE MEDIAN
150	120+31.86	34.99' (RT)	CL – CENTERPLACE	4862.09		LP/GB

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C5	90°00'00"	25.00'	39.27'
C6	90°00'00"	25.00'	39.27'



KEY MAP
SCALE: 1"=1000'



CENTERPLACE DRIVE
STA: 117+00 TO 121+50

LEGEND

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- PROPOSED CONCRETE SIDEWALK (6" DEPTH)

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20 10 0 20 40
ORIGINAL SCALE: 1" = 20'

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

ENGINEER'S STATEMENT

PREPARED UNDER MY SUPERVISION

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COLORADO P.E. 41677
FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE

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No.	REVISION	BY	DATE

H–SCALE	1"=20'
V–SCALE	N/A
DATE	01/31/20
DESIGNED BY	SRM
DRAWN BY	SRM
CHECKED BY	

CENTERPLACE TURN LANE IMPROVEMENTS
STREET PLAN
PHASE II

SHEET 26 OF 37
JOB NO. 39722.02

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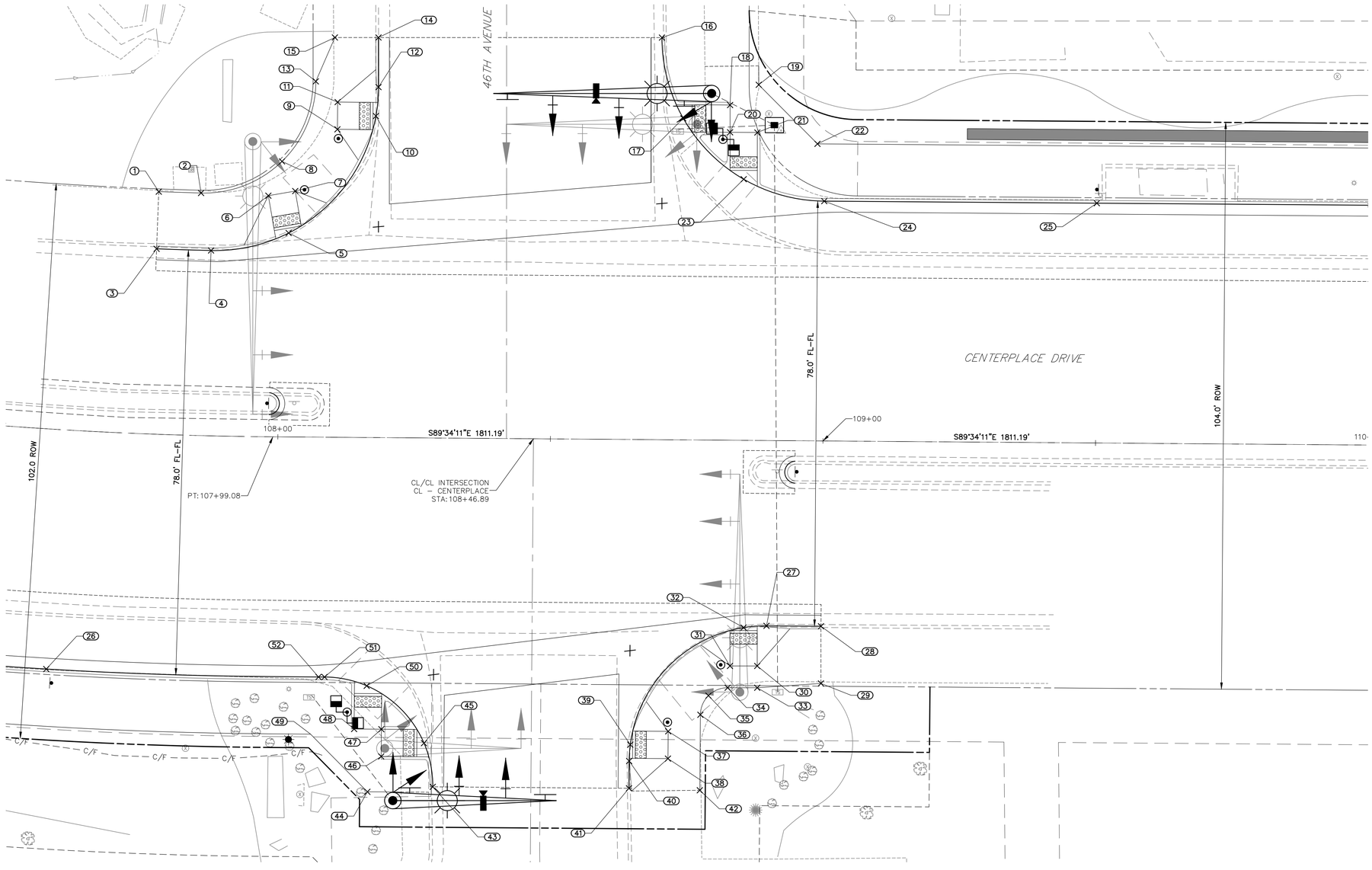
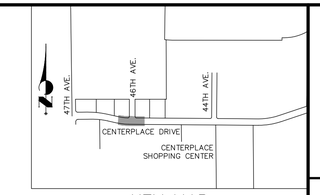


CENTERPLACE DRIVE

STA: 107+50 TO 110+00



KEY MAP

SCALE: 1"=1000'

POINT TABULATION			
POINT NUMBER	NORTHING	EASTING	ELEVATION
1	388072.66	208775.27	4866.18
2	388072.41	208783.04	4866.04
3	388062.17	208774.88	4865.50
4	388061.86	208784.87	4865.31
5	388065.06	208799.10	4865.06
6	388071.92	208795.38	4865.76
7	388072.77	208800.31	4865.60
8	388078.21	208797.88	4865.69
9	388084.09	208808.05	4865.39
10	388086.54	208815.11	4864.85
11	388089.09	208808.09	4865.42
12	388091.84	208815.59	4864.83
13	388092.89	208804.09	4865.41

POINT TABULATION			
POINT NUMBER	NORTHING	EASTING	ELEVATION
14	388100.94	208815.59	4864.87
15	388100.94	208807.59	4865.39
16	388100.92	208867.59	4864.30
17	388086.11	208871.50	4863.81
18	388088.55	208880.09	4864.35
19	388092.26	208885.35	4864.51
20	388083.55	208880.08	4863.98
21	388083.51	208885.08	4863.98
22	388081.43	208896.11	4863.57
23	388074.94	208882.58	4863.30
24	388070.92	208897.36	4862.81
25	388070.54	208947.36	4862.00
26	387985.07	208754.64	4865.45

POINT TABULATION			
POINT NUMBER	NORTHING	EASTING	ELEVATION
27	387993.00	208886.76	4863.26
28	387992.92	208896.76	4863.06
29	387982.43	208896.75	4863.75
30	387985.63	208885.06	4863.83
31	387985.63	208880.06	4863.88
32	387992.67	208882.56	4863.32
33	387981.63	208885.06	4863.92
34	387981.63	208879.64	4864.00
35	387980.18	208876.11	4864.21
36	387976.67	208874.63	4864.51
37	387973.63	208868.72	4864.63
38	387968.63	208868.69	4865.06
39	387971.18	208861.77	4864.67

POINT TABULATION			
POINT NUMBER	NORTHING	EASTING	ELEVATION
40	387968.18	208861.57	4864.81
41	387963.18	208861.53	4865.03
42	387962.82	208874.53	4865.59
43	387963.45	208825.53	4865.39
44	387962.54	208813.54	4866.12
45	387971.47	208823.92	4865.17
46	387969.03	208816.08	4865.76
47	387974.03	208816.11	4865.39
48	387974.06	208811.11	4865.42
49	387973.12	208803.12	4865.26
50	387981.99	208813.42	4864.76
51	387983.60	208805.68	4864.54
52	387983.61	208804.58	4864.55

10 5 0 10 20

ORIGINAL SCALE: 1" = 10'

Know what's **below.**
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NOTES

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ENGINEER'S STATEMENT

PREPARED UNDER MY SUPERVISION AT THIS TIME

COLORADO LICENSED ELIJAH C. FARNEY 41677 PROFESSIONAL ENGINEER

ELIJAH C. FARNEY, P.E. DATE
COLORADO P.E. 41677
FOR AND ON BEHALF OF JR ENGINEERING, LLC

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H-SCALE	1"=10'
V-SCALE	N/A
DATE	01/31/20
DESIGNED BY	SRM
DRAWN BY	SRM
CHECKED BY	

CENTERPLACE TURN LANE IMPROVEMENTS

SPOT ELEVATION PLAN

PHASE I

SHEET 27 OF 37

JOB NO. 39722.02

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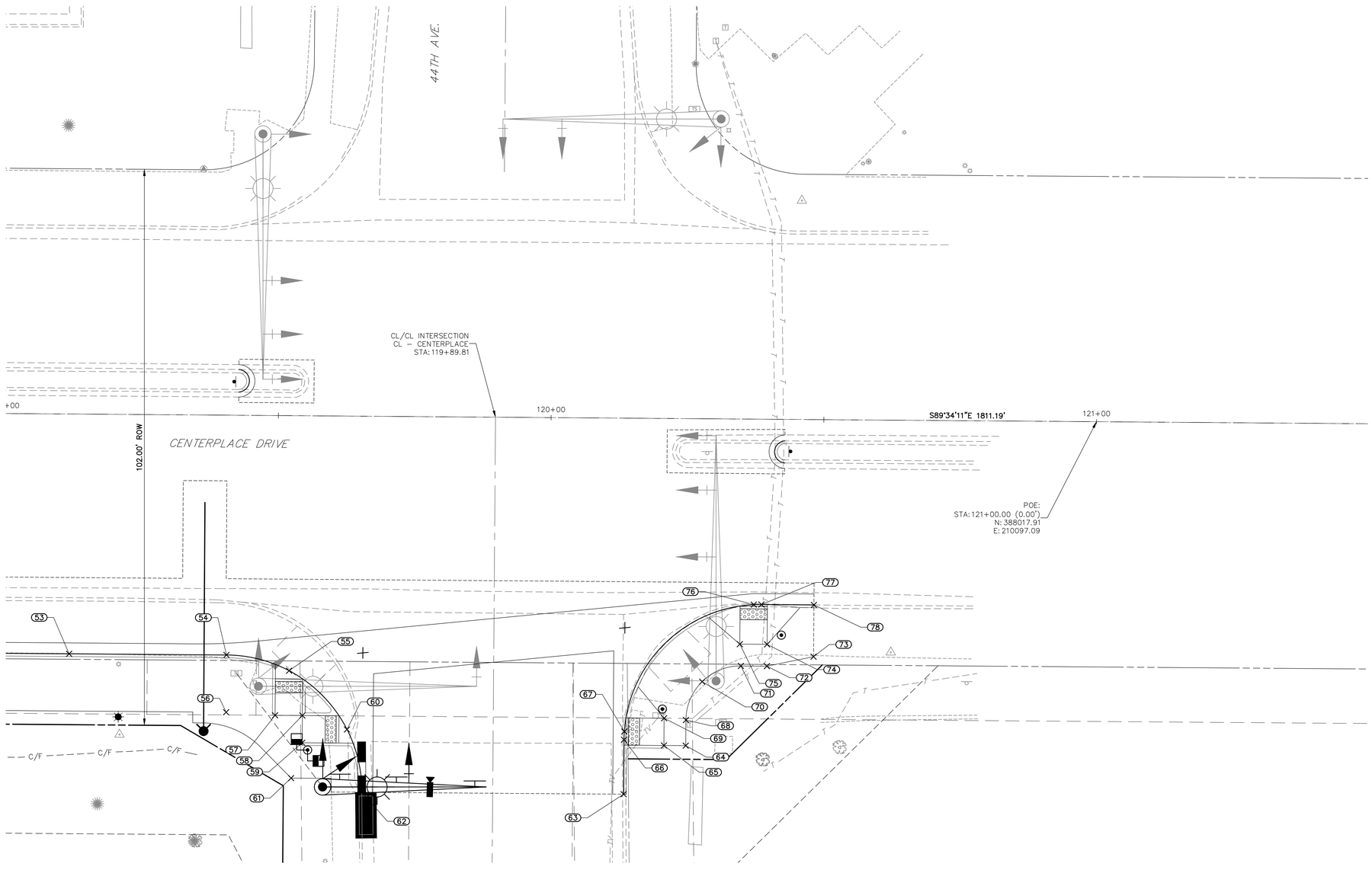
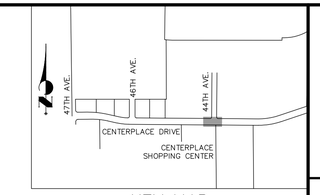


CENTERPLACE DRIVE

STA: 119+00 TO 121+50



KEY MAP

SCALE: 1"=1000'

POINT TABULATION			
POINT NUMBER	NORTHING	EASTING	ELEVATION
53	387975.32	209908.72	4861.11
54	387975.10	209937.57	4861.38
55	387972.22	209949.05	4861.72
56	387964.60	209937.51	4862.08
57	387964.04	209946.49	4862.31
58	387964.00	209951.49	4862.36
59	387959.00	209951.45	4862.75
60	387961.44	209959.67	4862.16
61	387952.51	209949.42	4863.10
62	387949.92	209962.38	4862.50
63	387949.56	210010.38	4863.30
64	387958.47	210021.77	4863.73
65	387958.50	210017.77	4863.65

POINT TABULATION			
POINT NUMBER	NORTHING	EASTING	ELEVATION
66	387959.56	210010.46	4863.02
67	387961.06	210010.51	4862.97
68	387963.16	210021.81	4863.43
69	387963.50	210017.81	4863.35
70	387970.21	210024.79	4863.10
71	387973.09	210031.88	4862.76
72	387973.05	210036.66	4862.82
73	387974.80	210045.20	4862.91
74	387977.05	210036.69	4862.74
75	387977.09	210031.69	4862.68
76	387984.34	210034.24	4862.12
77	387984.37	210035.64	4862.13
78	387984.30	210045.28	4862.19

NOTES

1. ALL STATIONING IS ROADWAY CENTERLINE UNLESS OTHERWISE NOTED. ALL ELEVATIONS AND OFFSETS ARE TO FLOWLINE UNLESS OTHERWISE NOTED.
2. UNLESS OTHERWISE NOTED, C&G SHALL FOLLOW CITY OF GREELEY S-16 DETAIL. SEE SHEET 35.
3. ALL SAWCUTS SHALL BE TO A CLEAN VERTICAL FACE.
4. ALL CURB RAMP WIDTHS SHALL MATCH THE WIDTH OF THE SIDEWALK THEY ARE CONNECTING TO FOR THE THROUGH MOVEMENTS, WITH THE MINIMUM WIDTH BEING 5 FEET WIDE.

10 5 0 10 20

ORIGINAL SCALE: 1" = 10'

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

ENGINEER'S STATEMENT

PREPARED UNDER MY SUPERVISION

ELIJAH C. FARNEY, P.E.
COLORADO P.E. 41677
FOR AND ON BEHALF OF JR ENGINEERING

DATE

COLORADO LICENSED
ELIJAH C. FARNEY
41677
PROFESSIONAL ENGINEER

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR
BRIAN WARD
CITY OF GREELEY–PUBLIC WORKS
1001 9TH AVENUE
GREELEY, CO 80631
(970) 350–9792

J·R ENGINEERING
A Westrian Company
Centennial 303–740–9393 • Colorado Springs 719–593–2593
Fort Collins 970–491–9888 • www.jrengineering.com

No.	REVISION	BY	DATE

H–SCALE	1"=10'
V–SCALE	N/A
DATE	01/31/20
DESIGNED BY	SRM
DRAWN BY	SRM
CHECKED BY	

CENTERPLACE TURN LANE IMPROVEMENTS

SPOT ELEVATION PLAN

PHASE II

SHEET 28 OF 37

JOB NO. 39722.02

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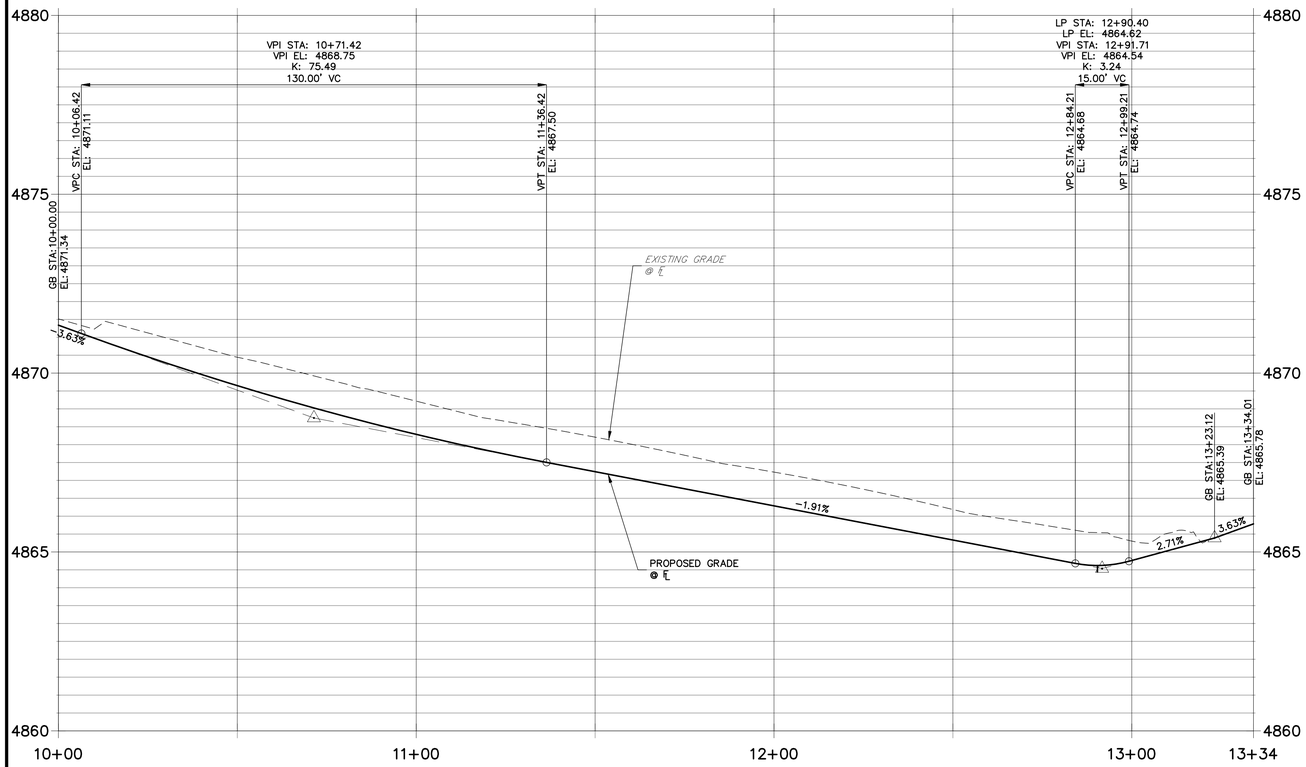
STA 10+00.00 TO 13+34.01



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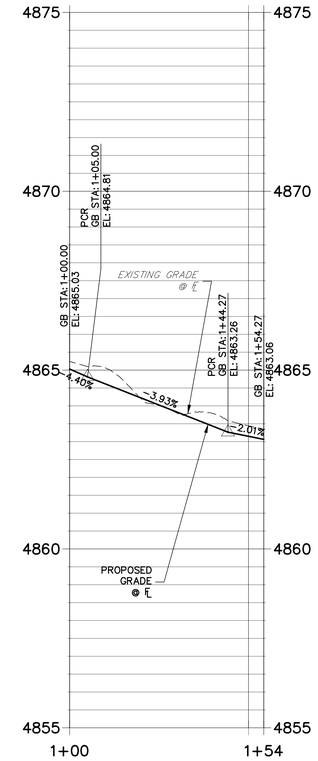

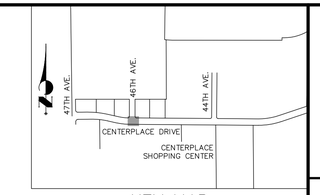

KEY MAP
SCALE: 1"=1000'

CURB RETURN C PROFILE
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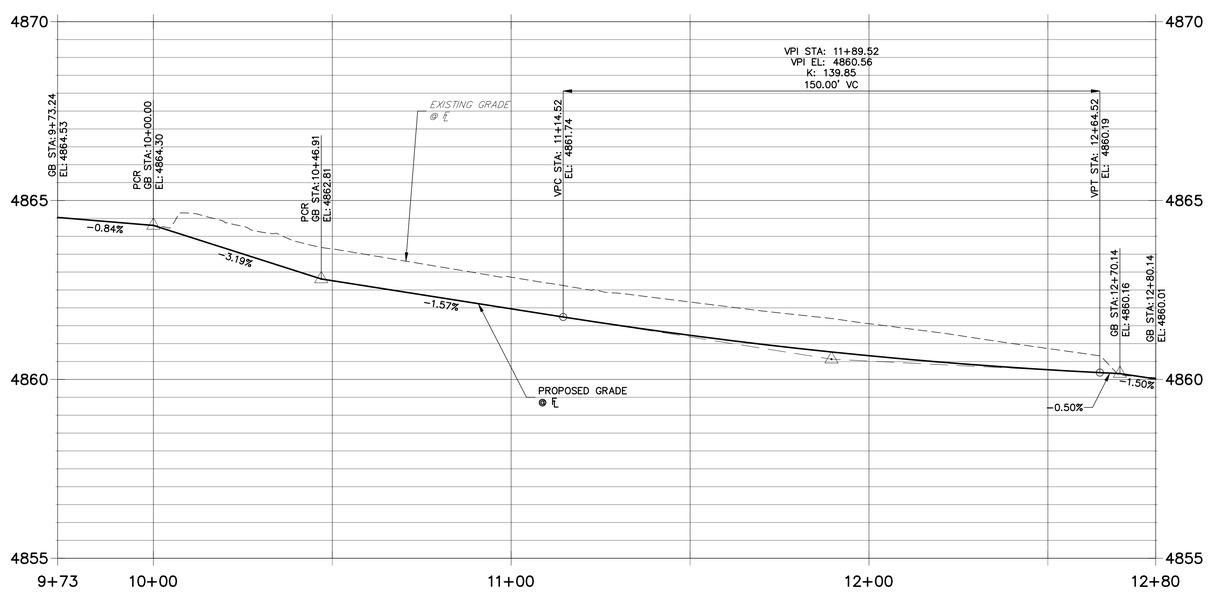

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2 1 0 2 4
VERTICAL
ORIGINAL SCALE: 1" = 2'

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

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No.	REVISION	BY	DATE

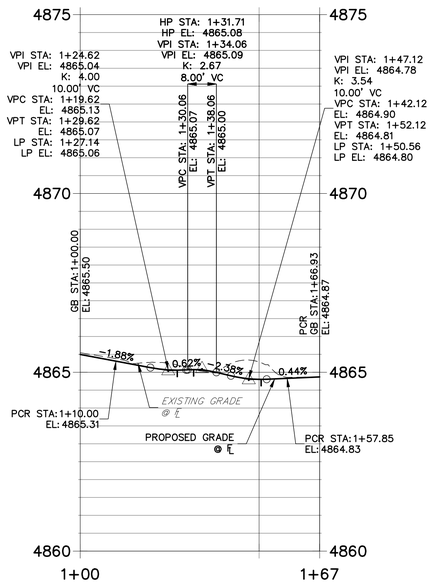
H-SCALE	N/A
V-SCALE	1" = 2'
DATE	01/31/20
DESIGNED BY	BPK
DRAWN BY	SRM
CHECKED BY	

CENTERPLACE TURN LANE IMPROVEMENTS
CURB RETURN PROFILES
PHASE I

SHEET 29 OF 37
JOB NO. 39722.02

X:\3970000.all\3972202\Drawings\Sheet Dwgs\Phased CD Plans\39722.02 CR01.dwg, CR01, 1/30/2020 10:20:21 AM, FC

CURB RETURN D PROFILE
STA 1+00.00 TO 1+66.93



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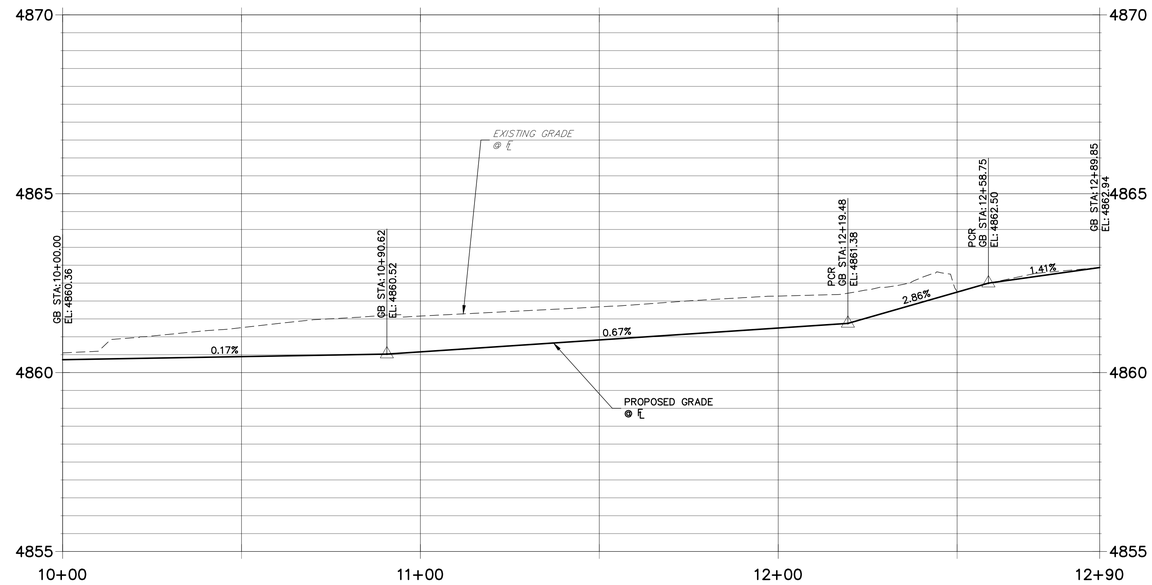

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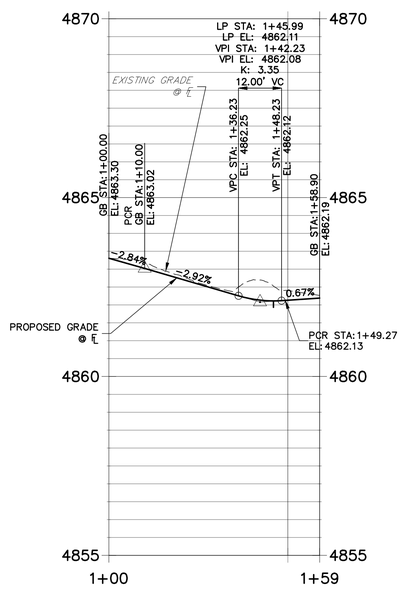

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2 1 0 2 4
VERTICAL
ORIGINAL SCALE: 1" = 2'

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ENGINEER'S STATEMENT

PREPARED UNDER MY SUPERVISION

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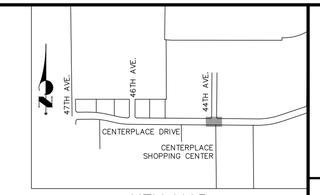
COLORADO P.E. 41677
FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE

COLORADO REGISTERED PROFESSIONAL ENGINEER ELIJAH C. FARNEY 41677



KEY MAP
SCALE: 1"=1000'

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

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No.	REVISION	BY	DATE

H-SCALE	N/A
V-SCALE	1" = 2'
DATE	01/31/20
DESIGNED BY	BPK
DRAWN BY	SRM
CHECKED BY	

CENTERPLACE TURN LANE IMPROVEMENTS
CURB RETURN PROFILES
PHASE II

SHEET 30 OF 37
JOB NO. 39722.02

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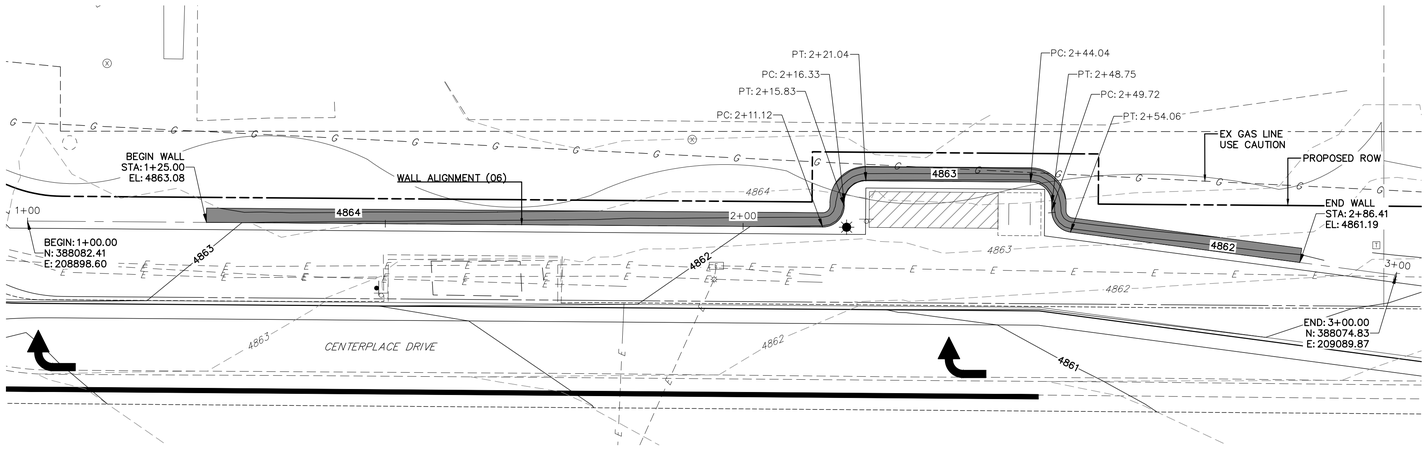
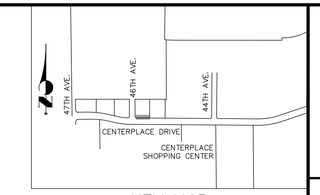
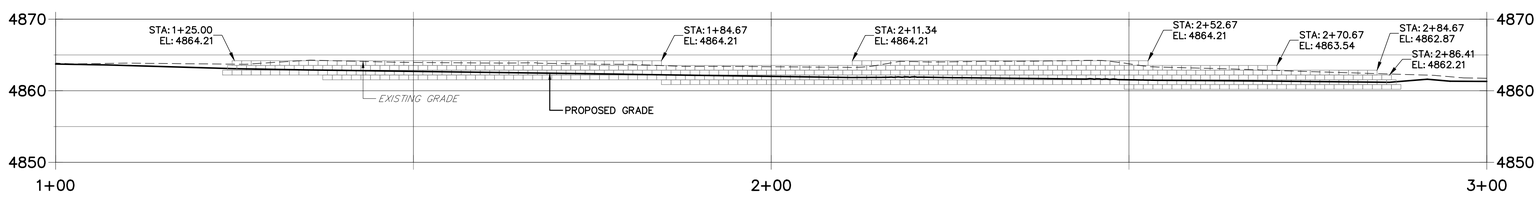


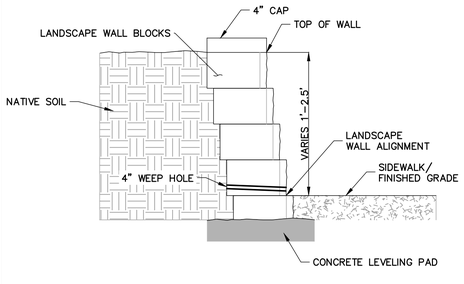


KEY MAP
SCALE: 1"=1000'

10 5 0 10 20
HORIZONTAL
ORIGINAL SCALE: 1" = 10'
VERTICAL
ORIGINAL SCALE: 1" = 10'

ALIGNMENT (06) PROFILE
STA 1+00.00 TO 3+00.00





LANDSCAPE WALL DETAIL
SCALE: NTS

LANDSCAPE WALL NOTES

1. BLOCKS AND CAPS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. ALL BLOCKS (EXCEPT CAPS) SHALL BE 8" TALL. BLOCKS AND CAPS TO BE LIGHT BROWN.
3. LANDSCAPE WALL WORK AND MATERIALS SHALL CONFORM TO REVISION OF SECTION 504 STONE LANDSCAPE WALL.
4. THE CONTRACTOR SHALL SUBMIT A WALL DESIGN TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

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

ENGINEER'S STATEMENT

PREPARED UNDER MY SUPERVISION

ELIJAH C. FARNEY, P.E.
COLORADO P.E. 41677
FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE

COLORADO LICENSED PROFESSIONAL ENGINEER ELIJAH C. FARNEY 41677

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No.	REVISION	BY	DATE

H-SCALE	1"=10'
V-SCALE	1"=10'
DATE	01/31/20
DESIGNED BY	NAS
DRAWN BY	NAS
CHECKED BY	

CENTERPLACE TURN LANE IMPROVEMENTS

LANDSCAPE WALL PLAN AND PROFILE

PHASE I

SHEET 31 OF 37

JOB NO. 39722.02

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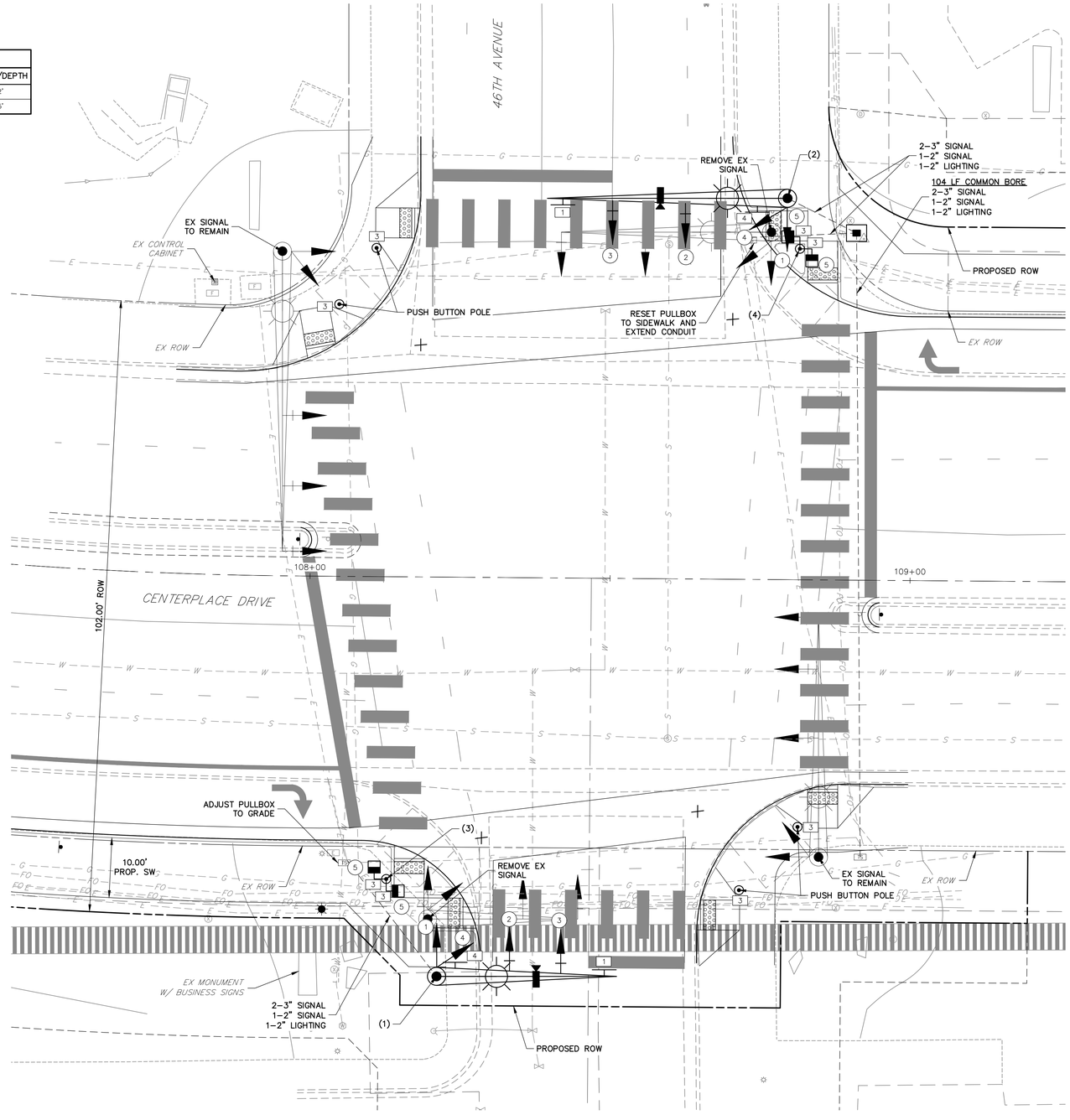
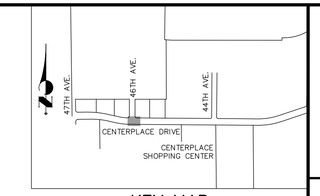
SIGNAL POLE SCHEDULE						
POLE NUMBER	LOCATION	STATION	OFFSET	ELEVATION	MAST ARM	BASE DIA./DEPTH
(1)	SW CORNER	108+21.58	66.58' (RT)	4866.59	30.00	36"/12'
(2)	NE CORNER	108+79.10	63.59' (LT)	4864.44	40.00	36"/15'

PEDESTAL POLE SCHEDULE					
POLE NUMBER	LOCATION	NORTHING	EASTING	ELEVATION	BASE DIA./DEPTH
(3)	SW CORNER	387977.16	208809.82	4865.32	18"/4'
(4)	NE CORNER	388082.24	208878.76	4863.99	18"/4'



CENTERPLACE DRIVE

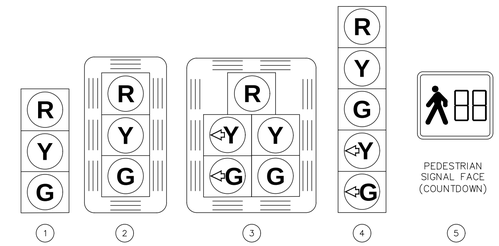
46TH AVENUE INTERSECTION



KEY MAP

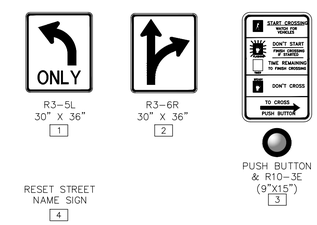
SCALE: 1"=1000'

TRAFFIC SIGNAL FACE LEGEND

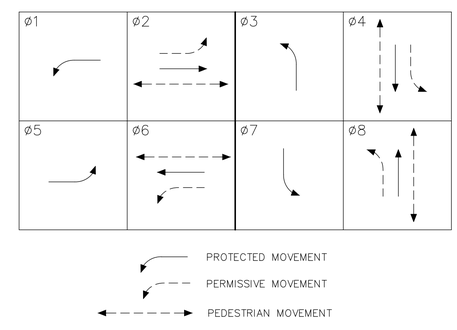


- ALL VEHICLE SIGNAL HEADS SHALL BE POLYCARBONATE WITH 12-INCH SECTIONS AND TUNNEL VISORS.
- ALL VEHICLE AND PEDESTRIAN SIGNAL HEADS SHALL BE BLACK IN COLOR.
- ALL RED, YELLOW AND GREEN "BALL AND ARROW" VEHICLE INDICATIONS AND ALL PEDESTRIAN SYMBOL INDICATIONS SHALL BE APPROVED LED TYPE.

SIGNAGE LEGEND



SIGNAL PHASING DIAGRAM



NOTES

1. EXTEND 1-2" CONDUIT AND 1-3" CONDUIT TO ALL PEDESTAL POLES AND PUSH BUTTON POLES.
2. AT ALL PUSH BUTTON POLE LOCATIONS, CONCRETE SHALL BE PLACED IN THE AREA BETWEEN THE SIDEWALK AND THE BASE OF THE POLE.
3. ELEVATIONS ARE TO FINISHED GRADE UNLESS OTHERWISE NOTED.
4. THE EXISTING SIGNALS SHALL BE REMOVED AFTER THE NEW SIGNALS ARE INSTALLED AND PUT INTO OPERATION.
5. ALL TRAFFIC SIGNALS SHALL BE IN COMPLIANCE WITH THE CURRENT MUTCD STANDARDS.

10 5 0 10 20

ORIGINAL SCALE: 1" = 10'

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

ENGINEER'S STATEMENT

PREPARED UNDER MY SUPERVISION

ELIJAH C. FARNEY, P.E.
COLORADO P.E. 41677
FOR AND ON BEHALF OF JR ENGINEERING, LLC

DATE

COLORADO LICENSED ELIJAH C. FARNEY 41677 PROFESSIONAL ENGINEER

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H-SCALE	1"=10'
V-SCALE	N/A
DATE	01/31/20
DESIGNED BY	ECF
DRAWN BY	SRM
CHECKED BY	

CENTERPLACE TURN LANE IMPROVEMENTS

TRAFFIC SIGNAL PLAN

PHASE I

SHEET 32 OF 37

JOB NO. 39722.02

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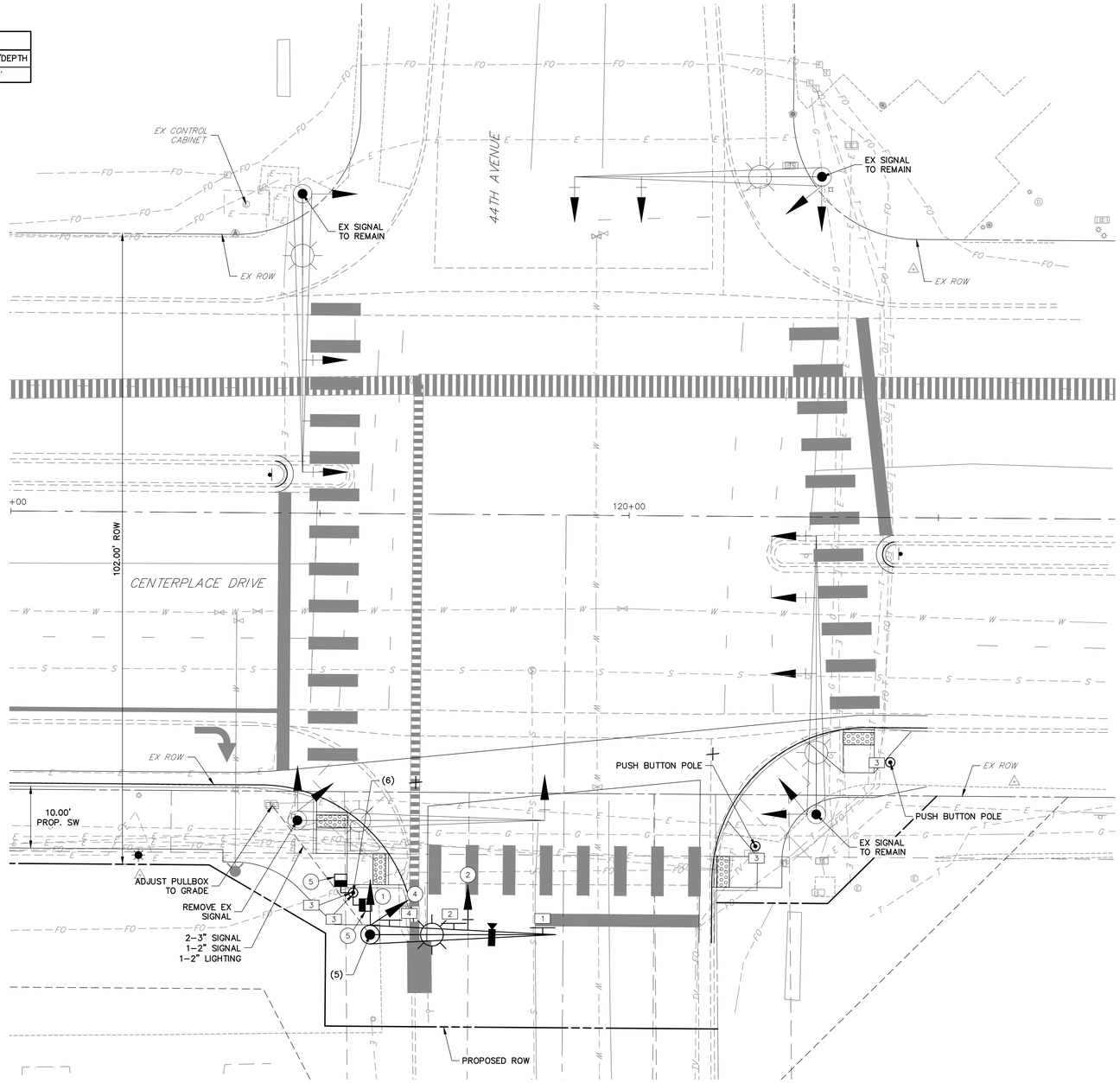
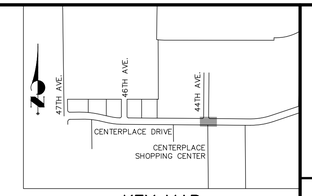
SIGNAL POLE SCHEDULE						
POLE NUMBER	LOCATION	STATION	OFFSET	ELEVATION	MAST ARM	BASE DIA./DEPTH
(5)	SW CORNER	119+58.61	68.08' (RT)	4863.74	30.00	36"/12'

PEDESTAL POLE SCHEDULE					
POLE NUMBER	LOCATION	NORTHING	EASTING	ELEVATION	BASE DIA./DEPTH
(6)	SW CORNER	387957.67	209952.44	4862.80	18"/4'



CENTERPLACE DRIVE

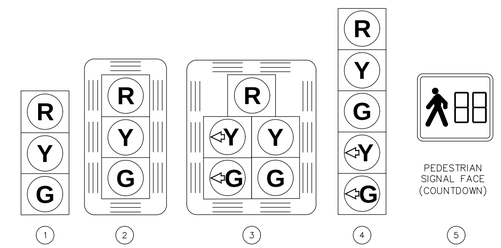
44TH AVENUE INTERSECTION



KEY MAP

SCALE: 1"=1000'

TRAFFIC SIGNAL FACE LEGEND



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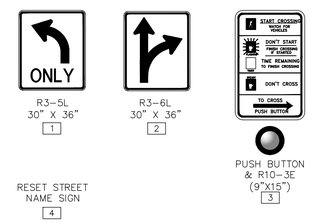
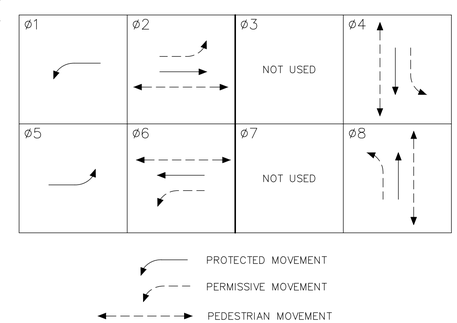
SIGNAGE LEGEND



SIGNAL PHASING DIAGRAM



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10 5 0 10 20

ORIGINAL SCALE: 1" = 10'

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DATE

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GREELEY, CO 80631
(970) 350-9792

J·R ENGINEERING
A Westrian Company
Centennial 303-740-9393 • Colorado Springs 719-593-2593
Fort Collins 970-491-9888 • www.jrengineering.com

No.	REVISION	BY	DATE

H-SCALE	1"=10'
V-SCALE	N/A
DATE	01/31/20
DESIGNED BY	ECF
DRAWN BY	SRM
CHECKED BY	

CENTERPLACE TURN LANE IMPROVEMENTS

TRAFFIC SIGNAL PLAN

PHASE II

SHEET 33 OF 37

JOB NO. 39722.02

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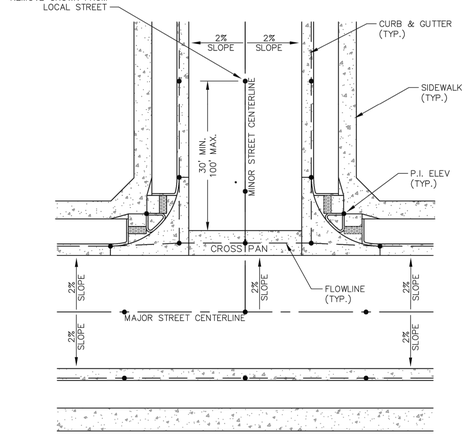


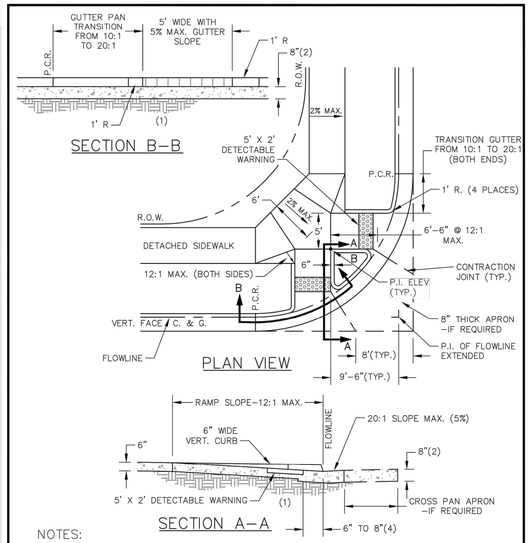
NOTES:

1. DESIGN ENGINEER SHALL PROVIDE ELEVATIONS AT THESE POINTS (●) ON THE CONSTRUCTION DRAWINGS.
2. ALL ELEVATION POINTS SHALL BE STAKED FOR CONSTRUCTION.
3. ALL FLOWLINE GRADES THAT ARE NOT PARALLEL TO CENTERLINE SHALL BE LABELED ON INTERSECTION DETAILS OR A PROFILE DRAWING SHALL BE PROVIDED.

City of Greeley Colorado

STREET INTERSECTION
CROSS PAN APPROACH DETAIL
DETAIL NO. S–7

DATE: JULY, 2015 SCALE: N.T.S.



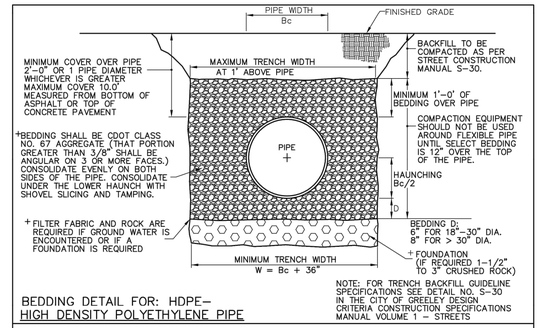
NOTES:

1. COMPACTED SUBGRADE (SEE SPECIFICATIONS).
2. 8" CONCRETE THICKNESS APPLIES TO CURB RETURN CURB AND GUTTER AND CROSS PAN APRON.
3. CONSTRUCT CURB RAMPS AT ALL INTERSECTIONS.
4. ADA DETECTABLE WARNINGS SHALL BE INSTALLED 6" TO 8" FROM THE CLOSEST POINT OF THE FLOWLINE. SEE ADA DETECTABLE WARNING DETAIL.
5. EXTEND 20:1 GUTTER PAN SLOPE THROUGH THE CURB AND GUTTER BETWEEN RAMPS.
6. DIMENSIONS ARE BASED UPON THE USE OF DETACHED SIDEWALK AND A 90° CURB RETURN DELTA. USE OF A DIFFERENT RADIUS OR A SIGNIFICANT DELTA DIFFERENCE WILL ALTER SOME DIMENSIONS.

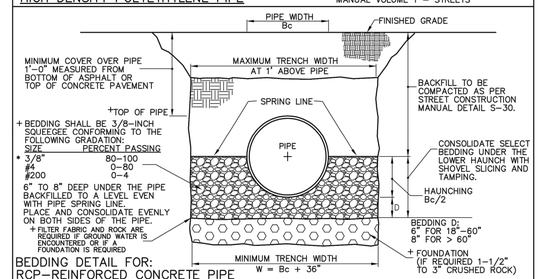
City of Greeley Colorado

CORNER CURB RAMP DETAIL – 20' RADIUS
DETAIL NO. S–11

DATE: JULY, 2015 SCALE: N.T.S.



BEDDING DETAIL FOR: HDPE–
HIGH DENSITY POLYETHYLENE PIPE



BEDDING DETAIL FOR:
RCP–REINFORCED CONCRETE PIPE

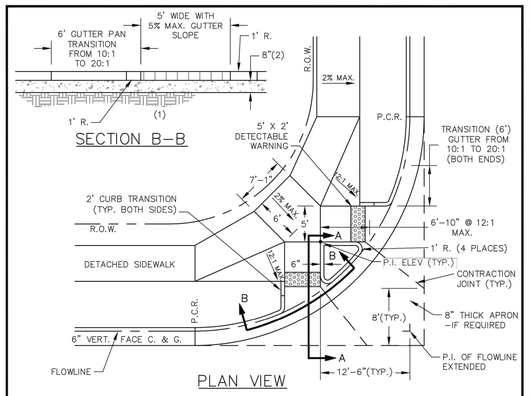
NOTE: FOR TRENCH BACKFILL GUIDELINE SPECIFICATIONS SEE DETAIL NO. S–30 IN THE CITY OF GREELEY DESIGN CRITERIA CONSTRUCTION SPECIFICATIONS MANUAL VOLUME 1 – STREETS

REVISIONS		
3/31/07	+	UPDATE DETAIL
6/03/08	•	UPDATE DETAIL

City of Greeley Colorado Great. From the Ground Up.

STANDARD STORM WATER
BEDDING DETAIL
DETAIL 6–6

DATE: JUNE 2008 SCALE: N.T.S.



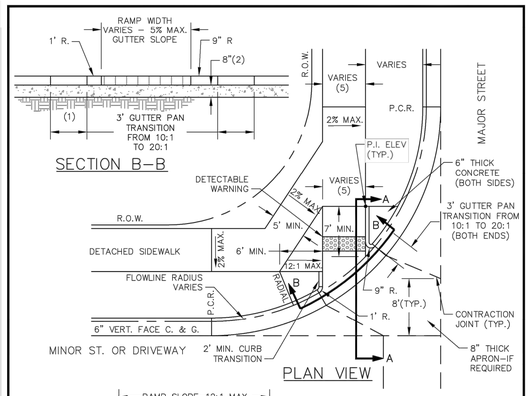
NOTES:

1. COMPACTED SUBGRADE (SEE SPECIFICATIONS).
2. 8" CONCRETE THICKNESS APPLIES TO CURB RETURN CURB AND GUTTER AND CROSS PAN APRON.
3. CONSTRUCT CURB RAMPS AT ALL INTERSECTIONS.
4. ADA DETECTABLE WARNINGS SHALL BE INSTALLED 6" TO 8" FROM THE CLOSEST POINT OF THE FLOWLINE. SEE ADA DETECTABLE WARNING DETAIL.
5. EXTEND 20:1 GUTTER PAN SLOPE THROUGH THE CURB AND GUTTER BETWEEN RAMPS.
6. DIMENSIONS ARE BASED UPON THE USE OF DETACHED SIDEWALKS AND A 90° CURB RETURN DELTA. USE OF A DIFFERENT RADIUS OR A SIGNIFICANT DELTA DIFFERENCE WILL ALTER SOME DIMENSIONS.

City of Greeley Colorado

CORNER CURB RAMP DETAIL – 30' RADIUS
DETAIL NO. S–12

DATE: JULY, 2015 SCALE: N.T.S.



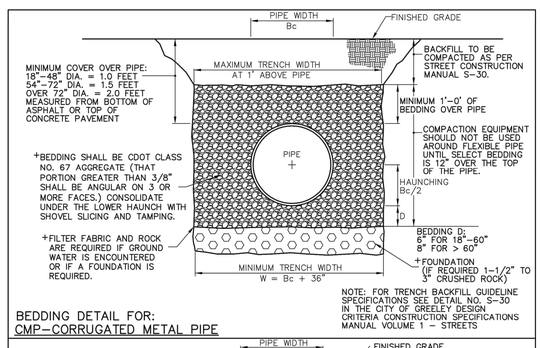
NOTES:

1. COMPACTED SUBGRADE (SEE SPECIFICATIONS).
2. 8" CONCRETE THICKNESS APPLIES TO CURB RETURN CURB AND GUTTER AND CROSS PAN APRON.
3. CONSTRUCT CURB RAMPS AT ALL INTERSECTIONS.
4. ADA DETECTABLE WARNINGS SHALL BE INSTALLED 6" TO 8" FROM THE CLOSEST POINT OF THE FLOWLINE. SEE ADA DETECTABLE WARNING DETAIL.
5. THIS DETAIL IS INTENDED FOR USE ALONG STREETS WHEN AT "T" INTERSECTIONS OR DRIVEWAYS WITH CURB RETURNS. THE RAMP SHOULD ONLY BE USED WHERE THE MAJOR STREET PEDESTRIAN CROSSING IS NOT RECOMMENDED. THE RAMP OPENING SHALL BE LOCATED AT THE EXTENSION OF THE SIDEWALK AND BE AS WIDE AS THE SIDEWALK ALONG THE MAJOR STREET.

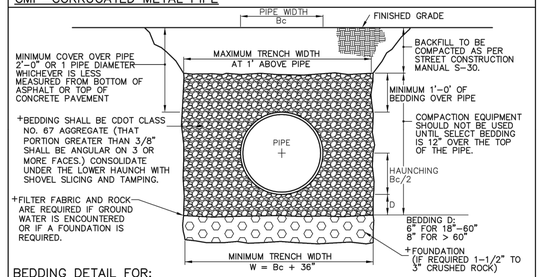
City of Greeley Colorado

DIRECTIONAL CORNER CURB RAMP DETAIL
DETAIL NO. S–12–4

DATE: JULY, 2015 SCALE: N.T.S.



BEDDING DETAIL FOR:
CMP–CORRUGATED METAL PIPE



BEDDING DETAIL FOR:
PVC–POLYVINYL CHLORIDE PIPE

NOTE: FOR TRENCH BACKFILL GUIDELINE SPECIFICATIONS SEE DETAIL NO. S–30 IN THE CITY OF GREELEY DESIGN CRITERIA CONSTRUCTION SPECIFICATIONS MANUAL VOLUME 1 – STREETS

REVISIONS		
3/31/07	+	UPDATE DETAIL

City of Greeley Colorado Great. From the Ground Up.

STANDARD STORM WATER
BEDDING DETAIL
DETAIL 6–7

DATE: MARCH 2007 SCALE: N.T.S.

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

ENGINEER'S STATEMENT

STANDARD DETAILS SHOWN WERE REVIEWED ONLY AS TO THEIR APPLICATION ON THIS PROJECT.

ELIJAH C. FARNEY, P.E.
COLORADO P.E. 41677
FOR AND ON BEHALF OF JR ENGINEERING, LLC.

DATE

COLORADO LICENSED 41677 PROFESSIONAL ENGINEER

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR
BRIAN WARD
CITY OF GREELEY–PUBLIC WORKS
1001 9TH AVENUE
GREELEY, CO 80631
(970) 350–9792

J·R ENGINEERING
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Centennial 303–740–9393 • Colorado Springs 719–593–2593
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No.	REVISION	BY	DATE

H–SCALE	N/A
V–SCALE	N/A
DATE	01/31/20
DESIGNED BY	N/A
DRAWN BY	N/A
CHECKED BY	

CENTERPLACE TURN LANE IMPROVEMENTS
DETAIL SHEETS

SHEET 34 OF 37

JOB NO. 39722.02

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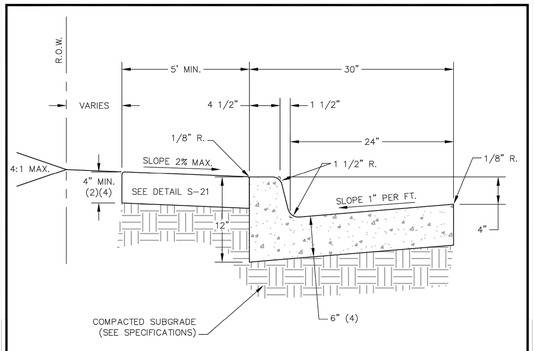

NOTES:

1. WHEN CONSTRUCTING ATTACHED SIDEWALK, CONTRACTION JOINTS FOR SIDEWALKS SHALL MATCH CURB AND GUTTER, MAXIMUM SPACING OF TEN (10) FEET.
2. AT RESIDENTIAL DRIVEWAYS, THE SIDEWALK THICKNESS SHALL BE INCREASED TO SIX (6) INCHES.
3. EXPANSION JOINTS REQUIRED AT 400 FOOT MAXIMUM SPACING. ADDITIONAL JOINTS MAY BE REQUIRED AT THE DISCRETION OF THE ENGINEER. SEE JOINT DETAILS.
4. AT ALLEYS AND COMMERCIAL DRIVEWAYS, THE CURB AND SIDEWALK THICKNESS SHALL BE INCREASED TO EIGHT (8) INCHES.
5. CONCRETE SURFACES TO RECEIVE A LIGHT BROOM FINISH.

City of Greeley Colorado

VERTICAL FACE CURB AND GUTTER

DETAIL NO. S-16

DATE: JULY, 2015 SCALE: N.T.S.

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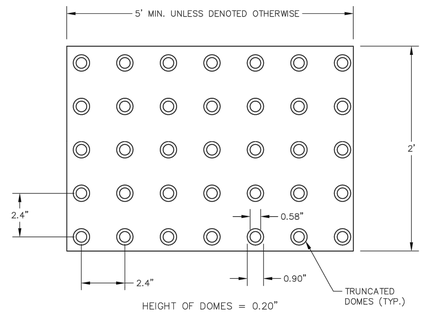

NOTES:

1. COLOR SHALL BE APPROVED BY THE CITY BUT IN ALL CASES THE COLOR SHALL CONTRAST WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT.
2. ADA DETECTABLE WARNINGS SHALL BE INSTALLED 6" TO 8" FROM FLOWLINE USING APPROVED MATERIAL.

City of Greeley Colorado

ADA DETECTABLE WARNING DETAIL

DETAIL NO. S-17

DATE: JULY, 2015 SCALE: N.T.S.

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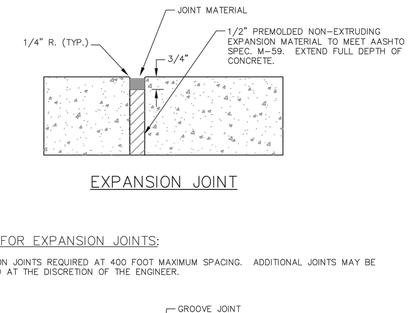

NOTE FOR EXPANSION JOINTS:

EXPANSION JOINTS REQUIRED AT 400 FOOT MAXIMUM SPACING. ADDITIONAL JOINTS MAY BE REQUIRED AT THE DISCRETION OF THE ENGINEER.

NOTES FOR CONTRACTION JOINTS:

1. FORM WITH TOOL TEMPLATE OR SAWCUT JOINTS.
2. SAWCUT JOINTS, IF USED, SHALL BEGIN AS SOON AS CONCRETE IS HARDENED SUFFICIENTLY TO PERMIT SAWING WITHOUT EXCESSIVE RAVELING AND BEFORE UNCONTROLLED CRACKING OCCURS.
3. MAXIMUM DISTANCE BETWEEN JOINTS IS TEN (10) FEET AND MINIMUM DISTANCE IS FIVE (5) FEET.

City of Greeley Colorado

CONCRETE JOINT DETAILS FOR SIDEWALKS, CURBS, GUTTERS AND CROSS PANS

DETAIL NO. S-22

DATE: JULY, 2015 SCALE: N.T.S.

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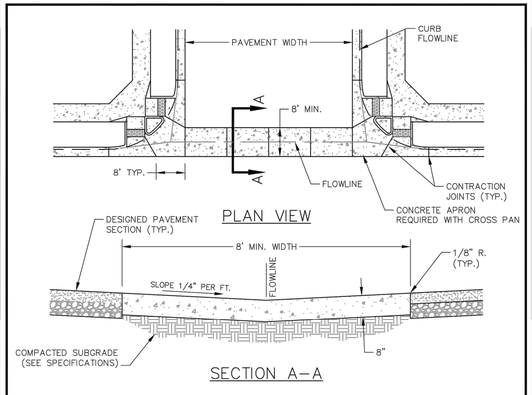

NOTES:

1. MINIMUM OF 0.6% LONGITUDINAL SLOPE FOR CROSS PANS.
2. MAXIMUM SPACING OF CONTRACTION JOINTS – TEN (10) FEET.
3. CONCRETE APRON SHALL BE POURED MONOLITHICALLY WITH CURB AND SHALL BE 8" THICK (SEE CURB RAMP DETAILS).
4. CROSS PAN AND APRON MAY BE POURED MONOLITHICALLY OR IF POURED SEPARATELY SHALL BE DOWELLED TOGETHER.
5. SEE STREET DESIGN STANDARDS FOR PERMISSIBLE LOCATIONS OF CROSS PANS.
6. MID-BLOCK CROSS PANS SHALL BE A MINIMUM OF TEN (10) FEET WIDE.
7. LARGER WIDTHS MAY BE REQUIRED BY THE CITY.
8. DOWELING MAY BE REQUIRED AT CERTAIN COLD JOINTS AT THE CITY'S DIRECTION, BASED ON SPECIAL SUBGRADE CIRCUMSTANCES.
9. CONCRETE SURFACES TO RECEIVE A LIGHT BROOM FINISH.

City of Greeley Colorado

CONCRETE CROSS PAN DETAIL

DETAIL NO. S-28

DATE: JULY, 2015 SCALE: N.T.S.

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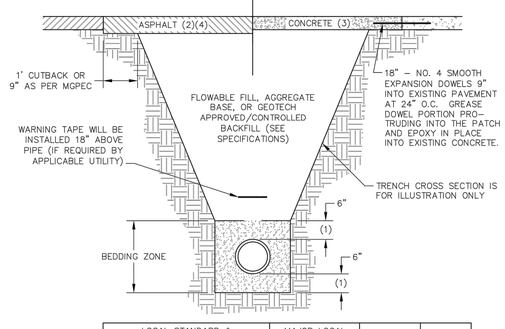

	LOCAL STANDARD & LOCAL LOW VOLUME			MAJOR LOCAL, COMMERCIAL & INDUSTRIAL	COLLECTOR	ARTERIAL
	ALLEY	EMER.ACCESS	RESIDENTIAL			
FULL DEPTH ASPHALT (4)	5 1/2"	5 1/2"	5 1/2"	7"	7"	7"

NOTES:

1. USE THE LIMITS OF BEDDING SHOWN IF NOT SPECIFIED BY THE APPLICABLE UTILITY.
2. HOT MIX ASPHALT SHALL BE USED TO PATCH ASPHALT AND SHALL BE GRADE S OR SX. TACK COAT REQUIRED.
3. CONCRETE SHALL BE USED TO PATCH CONCRETE. MATCH EXISTING THICKNESS.
4. FULL DEPTH ASPHALT SHALL BE THICKNESSES AS SHOWN ABOVE OR ONE (1) INCH GREATER THAN THE EXISTING PAVEMENT THICKNESS, WHICHEVER IS GREATER.
5. PATCH MAY NOT END WITHIN THE WHEEL TRACK OF TRAVEL LANES. UP TO THREE (3) FEET OF ADDITIONAL ASPHALT PATCH WILL BE REQUIRED TO KEEP THE JOINT OUT OF THE WHEEL TRACK.
6. MINIMUM SIZE OF PATCH SHALL BE 3' X 3'.

City of Greeley Colorado

EXISTING STREET PAVEMENT PATCH DETAIL FOR ASPHALT & CONCRETE

DETAIL NO. S-31

DATE: JULY, 2015 SCALE: N.T.S.

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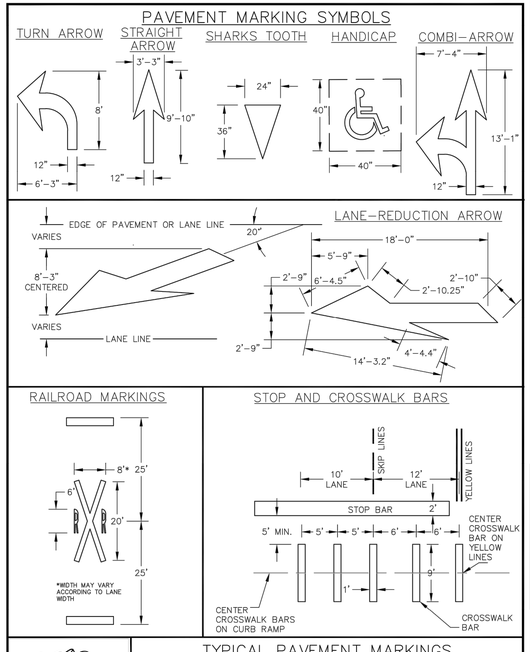

City of Greeley Colorado

TYPICAL PAVEMENT MARKINGS SHEET 2 OF 3

DETAIL NO. S-38

DATE: JULY, 2015 SCALE: N.T.S.

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Know what's **below.**
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ENGINEER'S STATEMENT

STANDARD DETAILS SHOWN WERE REVIEWED ONLY AS TO THEIR APPLICATION ON THIS PROJECT.

COLORADO LICENSED 41677 PROFESSIONAL ENGINEER

ELIJAH C. FARNEY, P.E. DATE
COLORADO P.E. 41677
FOR AND ON BEHALF OF JR ENGINEERING, LLC.

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR
BRIAN WARD
CITY OF GREELEY-PUBLIC WORKS
1001 9TH AVENUE
GREELEY, CO 80631
(970) 350-9792

J·R ENGINEERING
A Westrian Company
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Fort Collins 970-491-9888 • www.jrengineering.com

No.	REVISION	BY	DATE

H-SCALE	N/A
V-SCALE	N/A
DATE	01/31/20
DESIGNED BY	N/A
DRAWN BY	N/A
CHECKED BY	

CENTERPLACE TURN LANE IMPROVEMENTS

DETAIL SHEETS

SHEET 35 OF 37

JOB NO. 39722.02

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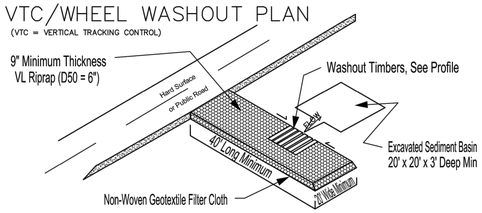
VTC/WHEEL WASHOUT PLAN

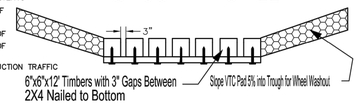
(VTC = VERTICAL TRACKING CONTROL)



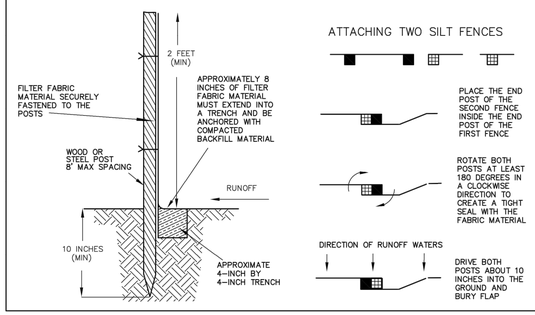
NOTES:

1. CONTRACTOR TO SUPPLY WASH WATER
2. WASHOUT BASIN TO BE ISOLATED FROM STORM SYSTEM
3. VTC PAD RIP RAP TO BE CLEANED OF MUD AFTER RAIN EVENTS
4. PUBLIC ROADS TO BE CLEANED OF DEBRIS AT THE END OF EACH DAYS WORK OR AFTER RAIN EVENTS, AS NEEDED.
5. WHEEL WASHOUT TIMBERS REQUIRED ONLY ON EXIT SIDE OF PAD, SECURE TIMBER GAP WITH 2X4 NAILED TO BOTTOM OF TIMBERS EACH END
6. VTC PAD TO BE DELINEATED TO ENSURE USE BY CONSTRUCTION TRAFFIC

WASHOUT PROFILE



SILT FENCE INSTALLATION



GENERAL EROSION CONTROL NOTES

CONTRACTOR SHALL INSTALL ALL PERIMETER SEDIMENT AND EROSION CONTROL DEVICES INCLUDING, BUT NOT LIMITED TO, SILT FENCE, INLET PROTECTION, VTC PAD, WHEEL WASHOUT, AND SEDIMENT BASINS BEFORE COMMENCING ANY LAND CLEARING OR GRADING ACTIVITIES. THE CONTRACTOR SHALL LIMIT TOPSOIL STRIPPING OPERATIONS TO WITHIN THE AREAS IN WHICH THEY WILL BE IMMEDIATELY WORKING. THE CONSTRUCTION OF UNDERGROUND UTILITIES SHALL BE INCLUDED AS A LAND DISTURBING ACTIVITY. ALL EXCAVATED MATERIAL SHALL BE PLACED WHERE SEDIMENT WILL ERODE BACK INTO THE TRENCH. ALL TRENCHES SHALL BE BACKFILLED BY THE END OF THE DAYS WORK; BACKFILL SHALL BE PERMANENTLY STABILIZED BEFORE CONSTRUCTION IS CONSIDERED COMPLETE.

ALL DISTURBED AREAS AND SOIL STOCKPILES SHALL BE ADEQUATELY STABILIZED AS DEFINED IN THE URBAN DRAINAGE FLOOD CONTROL DISTRICT (UDFCD), VOLUME 3, CONSTRUCTION BEST MANAGEMENT PRACTICES, SECTION 3.0 "EROSION CONTROL". ALL DISTURBED SOILS AND SOIL STOCKPILES SHALL BE WATERED AND MAINTAINED IN A ROUGHENED CONDITION AT ALL TIMES DURING CONSTRUCTION ACTIVITIES TO PREVENT WIND-CAUSED EROSION. ALL LAND DISTURBING ACTIVITIES WILL BE IMMEDIATELY DISCONTINUED WHEN FUGITIVE DUST IMPACTS ADJACENT PROPERTIES, AS DETERMINED BY CITY INSPECTOR. PERMANENT OR TEMPORARY NATIVE SEED (SEE EROSION CONTROL STRUCTURES – DETAIL 12-2 FOR SEEDING SPECIFICATIONS) SOIL STABILIZATION SHALL BE REQUIRED WITHIN 7 DAYS AFTER FINAL GRADE IS REACHED. IF DISTURBED AREAS OR STOCKPILES ARE NOT BROUGHT TO FINAL GRADE WITHIN 30 DAYS FOLLOWING THE INITIAL DISTURBANCE, OR RE-DISTURBANCE, TEMPORARY STABILIZATION MEASURES SHALL BE REQUIRED. NO SOIL STOCKPILE SHALL EXCEED TEN (10) FEET IN HEIGHT. ALL SOIL STOCKPILE SIDE SLOPES SHALL NOT EXCEED A SLOPE OF 4V:1H.

ALL STORM SEWER INLETS SHALL BE PROTECTED FROM THE ENTRY OF SEDIMENT-LADEN WATER. HAY BALES ARE NOT RECOGNIZED BY THE CITY OF GREELEY AS AN ACCEPTABLE FORM OF EROSION CONTROL.

INSPECTION OF ALL EROSION AND SEDIMENT CONTROL BMP'S SHALL BE REQUIRED AT THE END OF EACH DAY'S WORK, WITH NECESSARY MAINTENANCE AND REPAIRS PROVIDED IMMEDIATELY. THE CITY OF GREELEY INSPECTOR SHALL, AT THEIR DISCRETION, REQUIRE ANY EROSION CONTROL DEVICES BE REPAIRED , REPLACED, RELOCATED, MODIFIED, OR REMOVED. SUCH REQUESTS SHALL BE COMPLETED WITHIN 5 WORKING DAYS FOLLOWING RECEIPT OF THE WRITTEN REQUEST FROM THE INSPECTOR. ALL PUBLIC RIGHT OF WAY POLLUTED WITH DIRT, MUD, OR DEBRIS SHALL BE SWEPT CLEAN AT THE END OF EACH DAYS WORK OR AFTER STORM EVENTS, AS NECESSARY. ALL TEMPORARY AND PERIMETER EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AS SOON AS THEIR FUNCTION HAS BEEN FULFILLED. SEDIMENT TRAPS/BASINS SHALL BE CLEANED AND REMOVED, OR STABILIZED, WHEN ALL UPSTREAM AREAS ARE PERMANENTLY STABILIZED. THE SITE CONTRACTOR IS RESPONSIBLE FOR PROPERLY DISPOSING OFF ALL SILT FROM THE SITE, IF IT IS NOT REUSABLE ON SITE.

THE LANDOWNER SHALL BE HELD RESPONSIBLE FOR THE LONG-TERM STABILITY OF CUT AND FILL SLOPES AND THE SUCCESSFUL ESTABLISHMENT OF PERMANENT VEGETATIVE COVER ON EXPOSED SOIL AS DEFINED IN THE UDFCD, VOLUME 3, CONSTRUCTION BEST MANAGEMENT PRACTICES, SECTION 3.2 "MULCHING".

ALL CONSTRUCTION SUPPLIES OR MATERIALS USED OR STORED ON SITE MUST BE DISPOSED OF PROPERLY AND MUST MEET ALL APPLICABLE MATERIAL SAFETY DATA SHEET CRITERIA.

THE STATE STORMWATER DISCHARGE PERMIT HOLDER MAY BE LIABLE FOR ANY VIOLATIONS RESULTING FROM THE ACTIONS TAKEN BY SITE CONTRACTORS, SUBCONTRACTORS, MAINTENANCE CREWS, ETC.

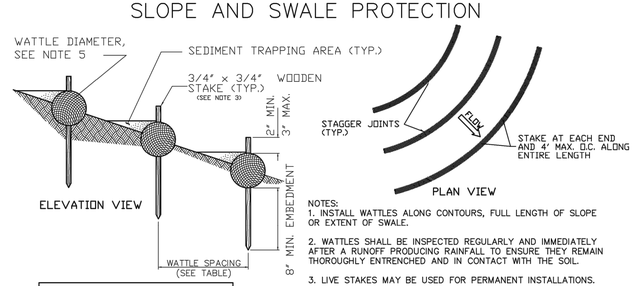
City of Greeley
Public Works
Stormwater Management

EROSION CONTROL STRUCTURES

DETAIL 12-1

DATE: MARCH 2007 SCALE: N.T.S.

SLOPE AND SWALE PROTECTION

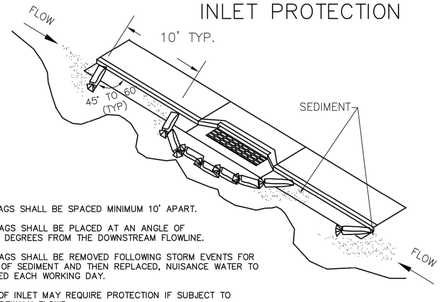


NOTES:

1. INSTALL WATTLES ALONG CONTOURS, FULL LENGTH OF SLOPE OR EXTENT OF SWALE.
2. WATTLES SHALL BE INSPECTED REGULARLY AND IMMEDIATELY AFTER A RUNOFF PRODUCING RAINFALL TO ENSURE THEY REMAIN THOROUGHLY ENTRENCHED AND IN CONTACT WITH THE SOIL.
3. LIVE STAKES MAY BE USED FOR PERMANENT INSTALLATIONS.
4. INSTALL WATTLES SNUGLY INTO THE TRENCH (4"DEEP). ABUT ADJACENT WATTLES TIGHTLY, END TO END, WITHOUT OVERLAPPING THE ENDS.
5. WATTLES TO BE 9" MIN DIAMETER FOR SLOPES, 12" MIN DIAMETER FOR SWALES.

WATTLE SPACING TABLE	
SLOPE TYPE	MAXIMUM SPACING
ALL SWALES	20 FEET
4:1 SLOPE OR >	40 FEET

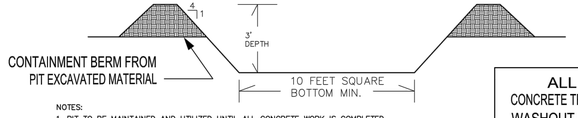
INLET PROTECTION



NOTES:

1. SANDBAGS SHALL BE SPACED MINIMUM 10' APART.
2. SANDBAGS SHALL BE PLACED AT AN ANGLE OF 45 TO 60 DEGREES FROM THE DOWNSTREAM FLOWLINE.
3. SANDBAGS SHALL BE REMOVED FOLLOWING STORM EVENTS FOR REMOVAL OF SEDIMENT AND THEN REPLACED, NUISANCE WATER TO BE DRAINED EACH WORKING DAY.
4. BACK OF INLET MAY REQUIRE PROTECTION IF SUBJECT TO CROSS-SIDEWALK FLOWS.

CONCRETE TRUCK WASHOUT PIT PROFILE



NOTES:

1. PIT TO BE MAINTAINED AND UTILIZED UNTIL ALL CONCRETE WORK IS COMPLETED, INCLUDING ALL FOUNDATION AND FLATWORK. RELOCATED PITS SHALL MEET THIS STANDARD.
2. PIT TO BE PERMANENTLY SIGNED TO ALERT DRIVERS OF ITS LOCATION
3. SET CONCRETE TO BE BROKEN UP AND DISPOSED OF PROPERLY OFF SITE PER LOCAL, STATE, AND FEDERAL LAWS.
4. WASHOUT PITS THAT ARE SEPARATED FROM A PAVED SURFACE MAY REQUIRE A VTC PAD TO PROTECT STREETS FROM TRACKING OF DIRT.

ALL CONCRETE TRUCKS WASHOUT HERE

*SIGN: 2' Tall x 3' Wide on 4' Tall Post, 6"x2" Lettering

City of Greeley
Public Works
Stormwater Management

EROSION CONTROL STRUCTURES

DETAIL 12-2

DATE: MARCH 2007 SCALE: N.T.S.

NOTES

1. THESE EROSION & CONTROL DETAILS HAVE BEEN SUBMITTED TO THE CITY OF GREELEY IN FULFILLMENT OF THE CITY CRITERIA. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE NEEDED IF UNFORESEEN PROBLEMS OCCUR OR IF THE SUBMITTED PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS PLAN SHALL RUN WITH THE LAND AND BE THE OBLIGATION OF THE LAND OWNER UNTIL SUCH TIME AS THE PLAN IS PROPERLY COMPLETED, MODIFIED, OR VOIDED. NOTE: THESE EROSION & SEDIMENT CONTROL DETAILS IN AND OF THEMSELVES DO NOT FULFILL THE REQUIREMENTS OF THE COLORADO DEPARTMENT OF PUBLIC HEALTH: STORMWATER CONSTRUCTION PERMIT FOR A STORMWATER MANAGEMENT PLAN(SWMP)".

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

ENGINEER'S STATEMENT

STANDARD DETAILS SHOWN WERE REVIEWED ONLY AS TO THEIR APPLICATION ON THIS PROJECT.

COLORADO L.C. ELIJAH C. FARNEY 41677 PROFESSIONAL ENGINEER

ELIJAH C. FARNEY, P.E. DATE
COLORADO P.E. 41677
FOR AND ON BEHALF OF JR ENGINEERING, LLC

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR
BRIAN WARD
CITY OF GREELEY-PUBLIC WORKS
1001 9TH AVENUE
GREELEY, CO 80631
(970) 350-9792

J·R ENGINEERING
A Westrian Company
Centennial 303-740-9393 • Colorado Springs 719-593-2593
Fort Collins 970-491-9888 • www.jrengineering.com

No.	REVISION	BY	DATE

H-SCALE	N/A
V-SCALE	N/A
DATE	01/31/20
DESIGNED BY	N/A
DRAWN BY	N/A
CHECKED BY	

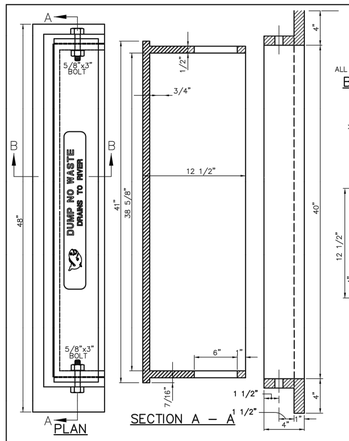
CENTERPLACE TURN LANE IMPROVEMENTS

DETAIL SHEETS

SHEET 36 OF 37

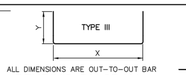
JOB NO. 39722.02

X:\39700\00_all\39722\02\Drawings\Sheet\Dwgs\Phased CD Plans\39722.02 DT01.dwg, DT03, 1/30/2020 1:14:29 PM, FC

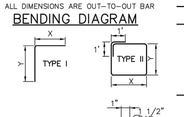


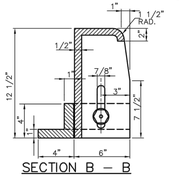
PLAN

SECTION A – A'



BENDING DIAGRAM





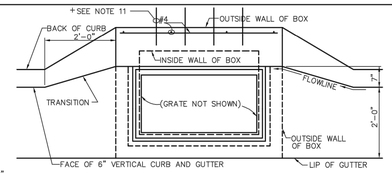
SECTION B – B

BAR LIST FOR H=3'-0"

MARK	TYPE	NO. REQ'D	TYPE 3 INLET DIMENSIONS X	Y	LENGTH
401	I	4	3'-0"	3'-0"	2'-0"
402	II	3	3'-7 1/4"	2'-10 1/2"	4'-11 1/2"
403	III	2	3'-5 3/4"	2'-0 1/2"	7'-6 3/4"
404	III	4	2'-9"	2'-1"	6'-11"

MARK	TYPE	NO. REQ'D	TYPE 3 DOUBLE INLET DIMENSIONS X	Y	LENGTH
401	I	7	3'-0"	3'-0"	2'-0"
402	II	3	7'-2 1/2"	2'-10 1/2"	22'-2"
403	III	2	7'-1"	2'-0 1/2"	11'-2"
404	III	8	2'-9"	2'-1"	6'-11"

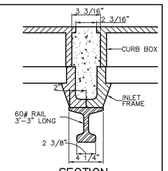
*ADD 6" TO THIS DIMENSION FOR EACH 6" INCREASE OF "H" OVER 3'-0"



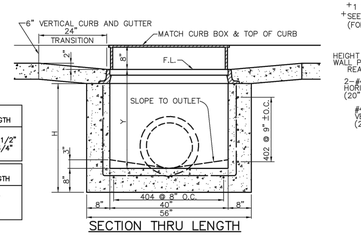
DEETER NO. 2502-A SINGLE, CURB INLET FRAME, GRATE, CURB & PARTIAL FRAME PLAN OF TYPE 3 INLET FOR VERTICAL FACE CURB, GUTTER & SIDEWALK

BAR QUANTITIES

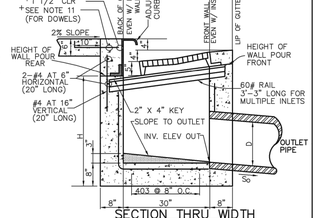
H	NO. OF 402 BARS REQ'D.
3'-0"	3
3'-6"	4
4'-0"	4
4'-6"	5
5'-0"	6
5'-6"	6
6'-0"	7
6'-6"	8
7'-0"	8
7'-6"	9
8'-0"	10
8'-6"	10
9'-0"	11
9'-6"	12
10'-0"	12



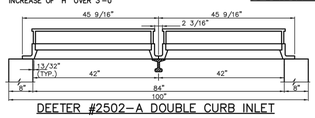
SECTION
CENTER OF MULTIPLE INLETS



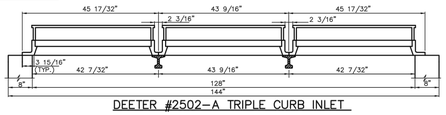
SECTION THRU LENGTH



SECTION THRU WIDTH



DEETER #2502-A DOUBLE CURB INLET



DEETER #2502-A TRIPLE CURB INLET

GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF GREELEY DESIGN CRITERIA AND CONSTRUCTION SPECIFICATIONS.
+2. CONCRETE SHALL MEET OR EXCEED METROPOLITAN GOVERNMENT ENGINEERING COUNCIL (MGPEC) SPECIFICATIONS, ITEM 11, PORTLAND CEMENT CONCRETE PAVEMENT; SECTION 11.2, MATERIALS.
3. ALL CONCRETE SHALL BE FORMED ON BOTH SIDES.
4. ALL EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 3/4".
5. ALL GRATINGS, FRAMES, RINGS AND COVERS SHALL BE CAST IRON.
6. REINFORCING BARS SHALL BE DEFORMED, GRADE 60, PER ASTM A615, AND SHALL HAVE A 2" MINIMUM CLEARANCE.
7. BARS MAY BE BENT OR CUT AT CULVERT ENTRANCES.
8. ALL CULVERTS SHALL BE SMOOTHLY GROUTED INTO THE WALLS OF THE BOX.
9. FOR INLETS WHERE H IS LESS THAN 3'-0", REINFORCING IS STILL REQUIRED AS DIRECTED BY THE ENGINEER. INLET FRAMES SHOWN ARE FOR SINGLE INLETS. ONLY DOUBLE INLETS REQUIRE FRAMES WITH CLIPPED FLANGES WHERE THE TWO FRAMES ABUT.
+10. INLET STRUCTURES SHALL NOT BE CONSTRUCTED UNTIL THE CURB AND GUTTER HAS BEEN INSTALLED, OR CONTRACTOR STAKES THE CURB & GUTTER FOR 100' ON EACH SIDE OF INLET. CONTRACTOR MUST ALSO STAKE INLET BOX CORNERS.
+11. ADD (4) #4 REBARS-16 INCHES LONG (MIN) EQUALLY SPACED AND 6" AT MID-DEPTH INTO THE TYPE 3 INLET CONCRETE & 10" AT MID-DEPTH INTO EACH SIDEWALK SECTION ADJACENT TO THE INLET (TYP L=5'). 4 ADDITIONAL BARS ARE REQUIRED FOR EACH 5' OF LENGTH ADDED FOR DOUBLE OR TRIPLE INLET.
12. ALL GRATES AND FRAMES SHALL BE GRAY OR DUCTILE CAST IRON CONFORMING TO CDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION-712.06. GRATES AND FRAMES SHALL BE DESIGNED TO WITHSTAND HS-20 LOADING.
13. MINIMUM CURB OPENING AREA = 150 SQ. IN.
14. MINIMUM REBAR SPLICE LENGTH SHALL BE 10".

REVISIONS

DATE	DESCRIPTION
7-12-00	ADDED FRAME DETAILS
9-16-04	CLARIFIED DWG, GEN. NOTES
3-31-07	+ UPDATE DETAIL
6-03-08	= UPDATE DETAIL

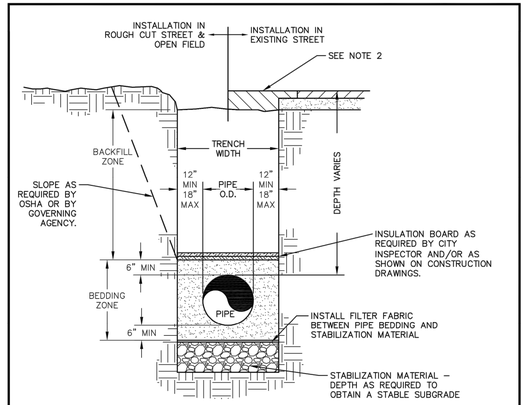
CALL UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

City of Greeley Colorado — Great. From the Ground Up.

# OF INLETS	STD. DEPTH (Y)	MIN ø (D)	MIN. SLOPE S_o
SINGLE	3'-6"	18"	1.00%
DOUBLE	4'-0"	18"	1.80%
TRIPLE	4'-6"	21"	1.80%

FRAME AND GRATE
FRAME AND GRATE SHALL BE A DEETER 2502-A OR EQUAL

COMBINATION INLET TYPE 3 (FOR VERTICAL FACE CURB)
DETAIL 7-4A
DATE: JUNE 2008 SCALE: N.T.S.

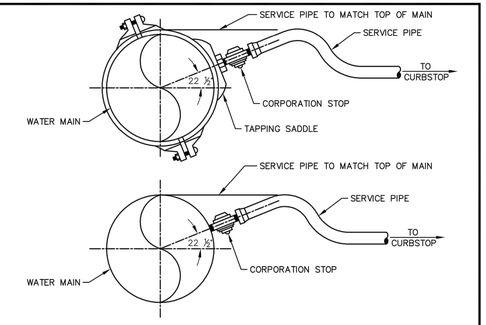


NOTES:

1. REFER TO WATER AND SEWER DEPARTMENT CONSTRUCTION SPECIFICATIONS FOR STABILIZATION, FILTER FABRIC, BEDDING, BACKFILL MATERIAL, AND COMPACTION REQUIREMENTS. FOR ANY CONFLICT BETWEEN WATER AND SEWER AND PUBLIC WORKS BACKFILL MATERIAL SPECIFICATIONS AND COMPACTION REQUIREMENTS, THE MORE STRINGENT SPECIFICATION SHALL APPLY.
2. REFER TO STREETS DETAIL S-31 "EXISTING STREET PAVEMENT PATCH DETAIL FOR ASPHALT & CONCRETE", CURRENT VERSION, FOR STREET CUT REQUIREMENTS.
3. AN OVER EXCAVATED TRENCH SHALL BE BACKFILLED AND COMPACTED (AS PER SPECIFICATIONS) UNDER THE DIRECTION OF THE CITY.
4. PIPELINE SHALL BE LAID IN A PROPOSED FILL AREA PRIOR TO AREA BEING COMPLETELY FILLED TO PROPOSED FINAL GRADES AND COMPACTED PER THE CITY OF GREELEY SPECIFICATIONS.
5. COMPACTION TESTING METHODS AND FREQUENCY SHALL BE IN ACCORDANCE WITH PUBLIC WORKS CONSTRUCTION SPECIFICATIONS.
6. TRENCHES SHALL BE SHORED, BRACED, OR SHEETED AS NECESSARY FOR THE SAFETY AND PROTECTION OF PERSONNEL AND OTHER UTILITIES.
7. INSULATION BOARD SHALL BE 2" THICK MINIMUM, CONSISTING OF TWO BOARDS (1" MINIMUM PER BOARD) WITH OFFSET JOINTS PLACED ACROSS FULL TRENCH WIDTH.

City of Greeley Colorado — Great. From the Ground Up.

TRENCH CROSS SECTION
DETAIL NO. WS-2
DATE: JANUARY, 2008 SCALE: N.T.S.



TYPE OF PIPE AND SIZE OF TAP

PIPE SIZE	CAST IRON 3/4"	1"	1 1/2"	2"	3"&4"	DUCTILE IRON 3/4"	1"	1 1/2"	2"	3"&4"	PVC C-900 < 2"	> 2"
3"	S	NO	NO	NO	TSV	NO	NO	NO	NO	TSV	S	TSV
4"	DT	S	NO	NO	TSV	S	S	NO	NO	TSV	S	TSV
6"	DT	DT	S	S	TSV	DT	S	S	S	TSV	S	TSV
8"	DT	DT	S	S	TSV	DT	DT	S	S	TSV	S	TSV
12"	DT	DT	S	S	TSV	DT	DT	S	S	TSV	S	TSV
16"	DT	DT	S	S	TSV	DT	DT	S	S	TSV	N/A	N/A

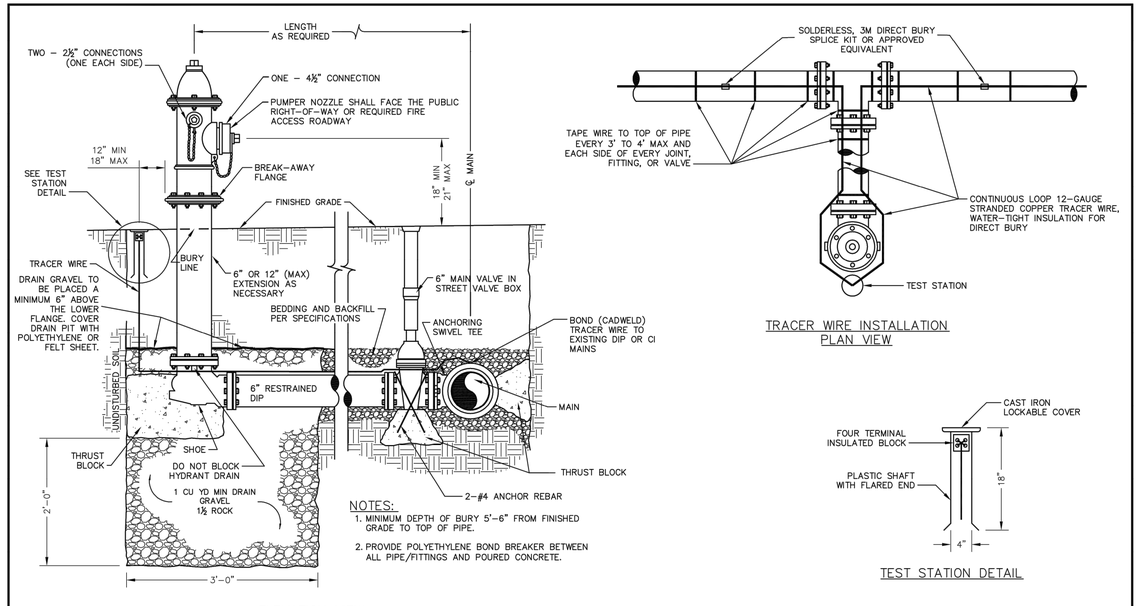
"S" – TAPPING SADDLE REQUIRED, ALL SADDLES SHALL HAVE AWWA TAPER THREADS.
"DT" – DIRECT TAP ALLOWED.
"NO" – NO TAP PERMITTED WITH OR WITHOUT A SADDLE, A TEE CONNECTION MAY BE PERMITTED IF SPECIFICALLY AUTHORIZED BY THE WATER DEPARTMENT.
"TSV" – TAPPING SLEEVE AND VALVE REQUIRED.
"N/A" – NOT APPLICABLE.

NOTES:

1. REFERENCE CITY OF GREELEY, WATER AND SEWER CONSTRUCTION SPECIFICATIONS, LATEST EDITION, FOR TAPPING SADDLE SPECIFICATIONS.
2. EXISTING STEEL MAINS, TWELVE INCHES (12") IN DIAMETER OR LESS, SHALL BE TAPPED USING A CITY ACCEPTED TAPPING SADDLE.

City of Greeley Colorado — Great. From the Ground Up.

WATER SERVICE CONNECTION
DETAIL NO. W-6
DATE: JANUARY, 2008 SCALE: N.T.S.

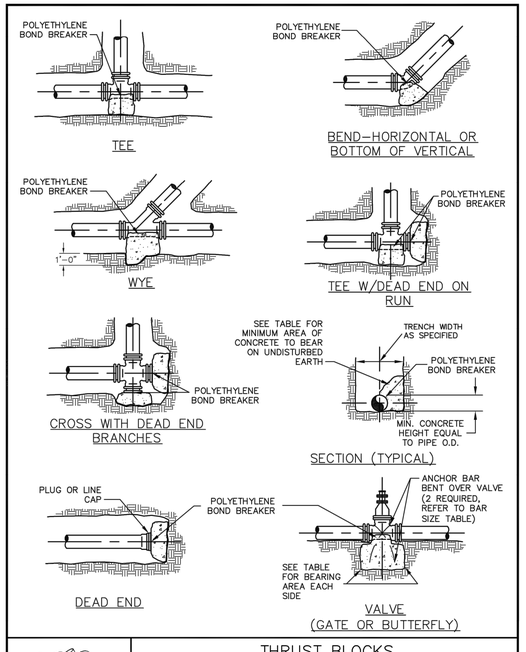


NOTES:

1. MINIMUM DEPTH OF BURY 5'-6" FROM FINISHED GRADE TO TOP OF PIPE.
2. PROVIDE POLYETHYLENE BOND BREAKER BETWEEN ALL PIPE/FITTINGS AND POURED CONCRETE.

City of Greeley Colorado — Great. From the Ground Up.

FIRE HYDRANT ASSEMBLY WITH TRACER WIRE INSTALLATION
DETAIL NO. W-1
DATE: JANUARY, 2008 SCALE: N.T.S.



City of Greeley Colorado — Great. From the Ground Up.

THRUST BLOCKS
SHEET 1 OF 3
DETAIL NO. W-2
DATE: JANUARY, 2008 SCALE: N.T.S.

Know what's below. Call before you dig.

ENGINEER'S STATEMENT
STANDARD DETAILS SHOWN WERE REVIEWED ONLY AS TO THEIR APPLICATION ON THIS PROJECT.

ELIJAH C. FARNEY, P.E.
COLORADO P.E. 41677
FOR AND ON BEHALF OF JR ENGINEERING, LLC.
DATE

COLORADO LICENSED 41677 PROFESSIONAL ENGINEER

UNTIL SUCH TIME AS THESE PLANS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR
BRIAN WARD
CITY OF GREELEY–PUBLIC WORKS
1001 9TH AVENUE
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CENTERPLACE TURN LANE IMPROVEMENTS
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SHEET 37 OF 37
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