

PoDI / NHS	
FHWA PROJECT OF DIVISION INTEREST (PoDI)?	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES
NATIONAL HIGHWAY SYSTEM?	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES

Related Projects:

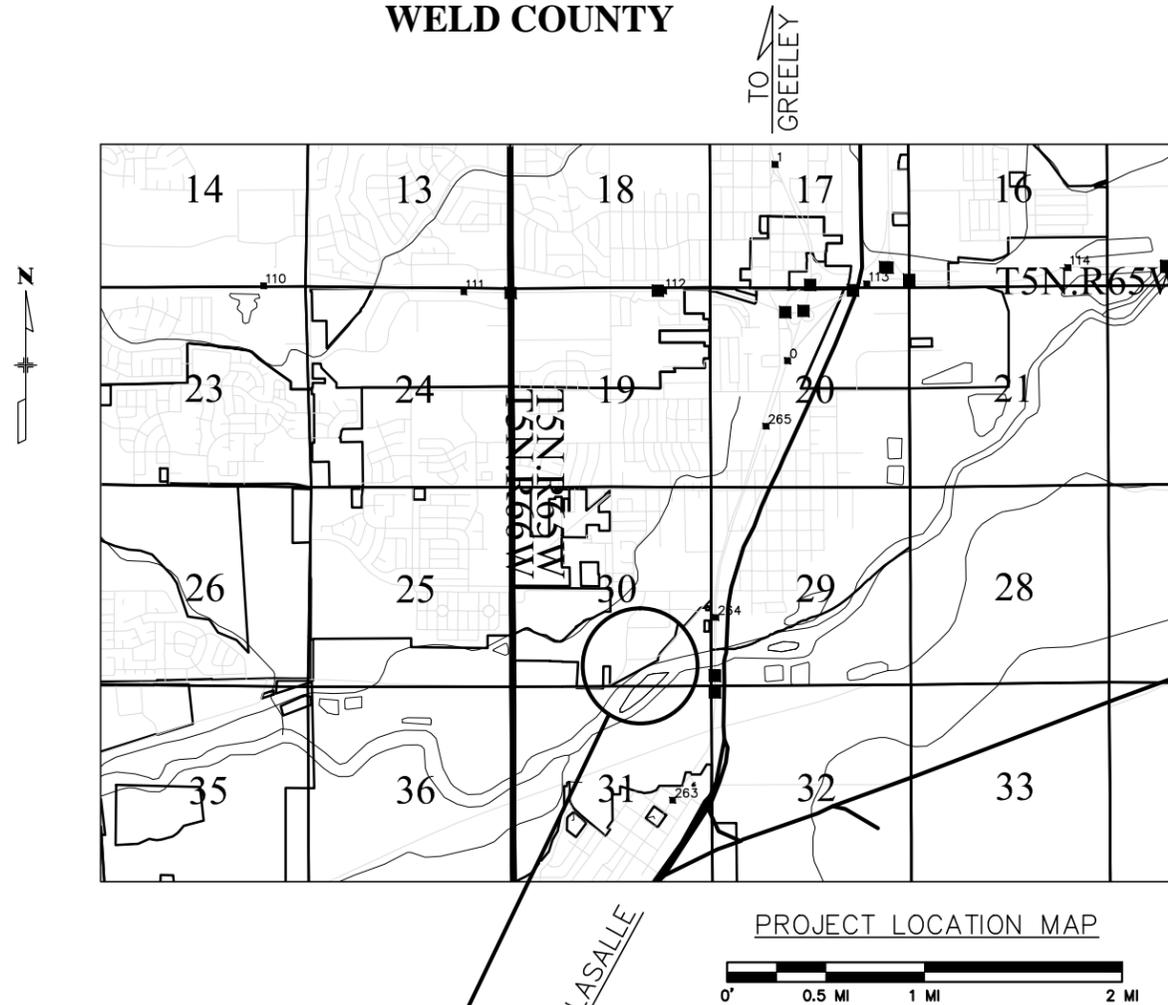
R.O.W. Projects:

CITY OF EVANS STATE OF COLORADO

HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED COLORADO PROJECT NO. PW 00302 EVANS 09 - 49TH, INDUSTRIAL AND BRANTNER ROAD WELD COUNTY

TABULATION OF LENGTH AND DESIGN DATA

STATION	ROADWAY	MAJOR STRUCTURE
	LIN. FT.	LIN. FT.
<u>49TH ST. & INDUSTRIAL PKWY</u> STA. 14+25.00 BEGIN ROADWAY CONSTRUCTION STA. 27+50.00 END ROADWAY CONSTRUCTION	1,325	
<u>BRANTNER RD.</u> STA. 51+14.00 BEGIN ROADWAY CONSTRUCTION STA. 55+00.00 END ROADWAY CONSTRUCTION	386	
TOTAL	1,711	
<u>SUMMARY</u>	<u>LIN. FT.</u>	<u>MILES</u>
ROADWAY	1,711	0.32
MAJOR STRUCTURE	0	0
ROADWAY NET LENGTH	1,711	0.32
PROJECT GROSS LENGTH	1,711	0.32
<u>DESIGN DATA</u>		
MAXIMUM DEGREE OF CURVE	91° 12' 31"	
MAXIMUM GRADE	> 2.36%	
MINIMUM S.S.D. - HORIZONTAL		
MINIMUM S.S.D. - VERTICAL		
MAXIMUM DESIGN SPEED	40 MPH	
2030 DESIGN TRAFFIC VOLUME	{ AADT = DHV = TRUCKS =	
2003 INDUSTRIAL	AADT = 11,400	
2003 49TH	AADT = 2,400	
2003 BRANTNER	AADT = 8,500	



INDEX OF SHEETS		
Sheet Number	Sheet Number	Sheet Title
1	GN-001	Title Sheet
2	GN-002	General Notes
3	GN-003	Summary of Approximate Quantities
4	GN-004	Tabulations
5	GN-005	Typical Sections & Pavement Sections
6	GN-006	Geometrics & Survey
7	DM-101	Demolition Plan
8	PP-201	Plan & Profile
9	PP-202	Plan & Profile
10	PP-203	Plan & Profile
11	PP-204	Plan & Profile
12	GR-301	Grading Plan
13	GR-302	Grading Plan
14	GR-303	Grading Plan
15	SW-401	Storm Water Management Plans
16	SW-402	Storm Water Management Plans
17	SW-403	Storm Water Management Plans
18	SW-404	Storm Water Management Plans
19	SW-405	Storm Water Management Plans
20	SW-406	Storm Water Management Plans
21	TC-501	Detour Plan
22	DT-601	Details
23	JT-701	Concrete Jointing Plan
24	JT-702	Concrete Jointing Plan
25	JT-703	Concrete Jointing Plan
26	SN-801	Signing & Striping
27	SN-802	Signing & Striping
28	XS-901	CROSS SECTIONS
29	XS-902	CROSS SECTIONS
30	XS-903	CROSS SECTIONS
31	XS-904	CROSS SECTIONS
32	XS-905	CROSS SECTIONS
33	XS-906	CROSS SECTIONS
34	XS-907	CROSS SECTIONS
35	XS-908	CROSS SECTIONS
36	XS-909	CROSS SECTIONS
37	XS-910	CROSS SECTIONS
38	XS-911	CROSS SECTIONS
39	XS-912	CROSS SECTIONS
40	XS-913	CROSS SECTIONS
41	MS-1000	STANDARD PLANS LIST

PROJECT: EVANS 09 - 49TH ST. / INDUSTRIAL PKWY / BRANTNER RD.
 49TH / INDUSTRIAL ROADWAY CONSTRUCTION STA. 14+25 TO STA. 27+50
 BRANTNER ROADWAY CONSTRUCTION STA. 51+14 TO STA. 55+00



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JULY 2016**



Print Date: 7/13/2016	Sheet Revisions			As Constructed	Contract Information		Project No./Code
File Name: GN-001 - Title Sheet.dwg	Date:	Comments	Init.	No Revisions:	Contractor:	PW 00302 /	
Horiz. Scale: N/A Vert. Scale: N/A				Revised:	Program Manager: ML	Drawing Number GN-001	
				Void:	Project Engineer: DT	Sheet Number 1	
RockSol Consulting Group, Inc. 6510 W. 91st Avenue, Westminster, CO 80031 Ph: (303) 962-9300 Fax: (303) 962-9350					PROJECT STARTED: ___/___/___ ACCEPTED: ___/___/___		
					Comments:		

Plot Date: 7/13/2016 8:46 AM Plotted By: Dennis Gonzalez
 File Name: C:\WORKING FILES\72010 CITY OF EVANS BRANTNER RD\800 COMPUTER DESIGN FILES\82 CAD SHEET FILES\GN001 - TITLE SHEET.DWG

GENERAL CONSTRUCTION NOTES

1. ALL CONSTRUCTION ACTIVITIES SHALL FOLLOW THE CITY OF EVANS STREET SPECIFICATIONS, COLORADO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS WELL AS THE SPECIAL PROVISIONS AND STANDARD SPECIAL PROVISIONS INCLUDED IN THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR DOWNLOADING THE LATEST CITY OF EVANS STREET SPECIFICATIONS AND KEEPING THEM ON SITE AT ALL TIMES. ALL CONTRACTORS AND SUBCONTRACTORS SHALL HAVE A SET OF APPROVED CONSTRUCTION DOCUMENTS ON SITE AT ALL TIMES.
2. THE GENERAL CONTRACTOR SHALL CALL THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 1-(800)-922-1987, OR THE NATIONWIDE UTILITY CONTACT NUMBER (811), TO REQUEST LOCATES OF ALL UNDERGROUND UTILITIES AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF ANY LAND DISTURBING ACTIVITY.
3. ALL VERTICAL AND HORIZONTAL DATUM INFORMATION SHOULD BE OBTAINED USING THE EVANS GEODETIC SURVEY CONDUCTED BY ALBERS, DREXEL & POHLY, INC. JANUARY 9, 1998. A COPY OF FINAL COORDINATES, ELEVATIONS, AND MONUMENT DESCRIPTIONS CAN BE OBTAINED BY CONTACTING THE CITY OF EVANS ENGINEERING DIVISION AT 970-475-1113.
4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATIONS AND PROTECTION OF ALL EXISTING UTILITIES SHOWN, ALL EXISTING UTILITIES NOT SHOWN, AND ALL PROPOSED UTILITIES ON THESE PLANS.
5. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ADJACENT IMPROVEMENTS FROM DAMAGE AND EROSION. ANY ADJACENT IMPROVEMENT DAMAGED DURING CONSTRUCTION SHALL, AT A MINIMUM, BE RESTORED TO A STATE EQUAL TO ITS PRECONSTRUCTION CONDITION.
6. THE GENERAL CONTRACTOR SHALL OBTAIN THE FLOODPLAIN PERMIT, AND ANY OTHER NECESSARY PERMITS TO COMPLETE THE WORK, AND SHALL COMPLY WITH ALL WELD COUNTY, LOCAL, STATE, AND FEDERAL REGULATIONS.
7. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THE NEED FOR A PERMIT, PREPARING THE APPLICATION, AND PAYING THE SUBMITTAL AND REVIEW FEES NECESSARY TO SECURE PERMITS. A COPY OF ALL PERMITS MUST BE ON SITE AT ALL TIMES.
8. ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE STATE OF COLORADO PERMITTING PROCESS FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY. FOR INFORMATION, CONTACT THE COLORADO DEPARTMENT OF PUBLIC HEALTH, AND ENVIRONMENT, WATER QUALITY CONTROL DIVISION, SQCD-PE-B2, 4300 CHERRY CREEK DRIVE SOUTH, DENVER, COLORADO 80246-1530, ATTENTION PERMITS AND ENFORCEMENT SECTION. (303) 692-3500. THE WATER QUALITY PERMITTING PAGE CAN BE ACCESSED AT WWW.CDPHE.STATE.CO.US/WQ/PERMITSUNIT/WQCDPMT.HTML.
9. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE PAVEMENT DESIGN REPORT, PRODUCED, OR REFERENCED FOR THIS PROJECT.
10. THE GENERAL CONTRACTOR SHALL PERFORM THE WORK ACCORDING TO ALL CITY, COUNTY, STATE, AND FEDERAL SAFETY AND HEALTH REGULATIONS. IN PARTICULAR, THE "TRENCHING" AND "OPEN EXCAVATION" OPERATIONS SHALL COMPLY WITH ALL CURRENT O.S.H.A. REGULATORY REQUIREMENTS.
11. THE CITY OF EVANS FOLLOWS ALL TRAFFIC CONTROL AND PAVEMENT MARKING STANDARDS SET FORTH IN THE CURRENT EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
12. ALL WORK INCLUDING WARRANTY WORK, SHALL BE INSPECTED BY A CITY REPRESENTATIVE WHO SHALL HAVE AUTHORITY TO HALT CONSTRUCTION WHEN PROPER CONSTRUCTION PRACTICES ARE NOT BEING ADHERED TO.
13. NORMAL WORK HOURS SHALL BE FROM 7:00 A.M. - 6:00 P.M. UNLESS OTHERWISE APPROVED BY THE ENGINEER. THERE SHALL BE NO WORK PERFORMED ON THE WEEKENDS, OR HOLIDAYS EXCEPT BY WRITTEN APPROVAL OF THE CITY OF EVANS WITH A MINIMUM OF 48 HOURS NOTICE.
14. THE GENERAL CONTRACTOR SHALL NOTIFY ALL RESIDENTS IN WRITING 48 HOURS PRIOR TO ANY DISRUPTION IN SERVICE. THE NOTICES MUST HAVE THE GENERAL CONTRACTORS PHONE NUMBER, THE NAME OF A CONTACT PERSON, AND EMERGENCY PHONE NUMBER FOR AFTER HOUR CALLS. NOTICES SHALL NOT BE LEFT IN MAILBOXES UNLESS PROPERLY SENT THROUGH THE U.S. POST OFFICE.
15. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THEIR OWN DISPOSAL SITE FOR ALL DISPOSED MATERIALS.
16. THE ENGINEER WHO HAS PREPARED THESE PLANS, BY EXECUTION AND/ OR SEAL HEAROF DOES HEREBY AFFIRM RESPONSIBILITY TO THE CITY OF EVANS, AS A BENEFICIARY OF SAID ENGINEER'S WORK, FOR ANY ERRORS OR OMISSIONS CONTAINED IN THESE PLANS. ACCEPTANCE OF THESE PLANS BY THE CITY OF EVANS SHALL NOT RELIEVE THE ENGINEER WHO HAS PREPARED THESE PLANS OF SUCH RESPONSIBILITY.

GENERAL UTILITY NOTES

1. A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED FOR ANY AND ALL UTILITY WORK PERFORMED WITHIN THE CITY OF EVANS RIGHT-OF-WAY. TRAFFIC CONTROL PLANS CAN BE EMAILED TO THE ENGINEERING DIVISION AT danderson@evanscolorado.gov OR wwelborn@evanscolorado.gov.
2. IT IS THE GENERAL CONTRACTORS RESPONSIBILITY TO MAINTAIN ANY TEMPORARY ROADWAY PATCHES THAT MAY OCCUR IN ORDER TO REOPEN A ROADWAY WHILE CONSTRUCTION ACTIVITY PROGRESSES.
3. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE LATEST REVISION OF THE CITY OF EVANS STANDARDS AND SPECIFICATIONS. A CURRENT COPY CAN BE DOWNLOADED FROM THE CITY OF EVANS WEBSITE AT www.evanscolorado.gov
4. DURING CONSTRUCTION, WHENEVER ANY PIPELINE IS LEFT UNATTENDED, TEMPORARY PLUGS SHALL BE INSTALLED AT ALL OPENINGS.
5. TEMPORARY PLUGS SHALL BE WATER TIGHT, AND OF SUCH DESIGN AS TO PREVENT CHILDREN AND ANIMALS FROM ENTERING THE PIPE.

ROADWAY IMPROVEMENT NOTES

1. IMPROVEMENT PROJECTS WHICH DO NOT HAVE A DEVELOPER'S AGREEMENT SHALL BE REQUIRED BY THE CITY OF EVANS TO EXECUTE AN APPLICATION AND PERMIT FOR EXCAVATION / CONSTRUCTION IN PUBLIC RIGHT OF WAY.
2. CONCRETE AND ASPHALTIC MIX DESIGNS SHALL BE SUBMITTED BY THE SUPPLIER AND APPROVED BY THE CITY OF EVANS PRIOR TO ROADWAY CONSTRUCTION.
3. WHEN AN EXISTING STREET IS TO BE CUT, THE STREET MUST BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN ITS ORIGINAL CONDITION. SAW CUTS SHOULD BE A CLEAN STRAIGHT VERTICAL LINE PARALLEL OR PERPENDICULAR TO THE FLOW OF TRAFFIC. PATCHES SHALL BE 1 INCH GREATER IN DEPTH THAN THE EXISTING ASPHALT MATERIAL THAT WAS REMOVED UP TO A MAXIMUM OF 7".
4. ALL LARGE PATCHES (GREATER THAN 10' WIDE AND 20' LONG) SHALL BE PAVED WITH AN ASPHALT LAY-DOWN MACHINE. IN STREETS WHERE MORE THAN ONE CUT IS MADE, AN OVERLAY OF THE ENTIRE STREET WIDTH, INCLUDING THE PATCHED AREA SHALL BE REQUIRED.
5. THE TOP 12 INCHES OF THE STREET SUBGRADES SHALL BE SCARIFIED AND RECOMPACTED PRIOR TO SUB-BASE INSTALLATION. NO BASE MATERIAL SHALL BE LAID UNTIL THE SUBGRADE HAS BEEN INSPECTED BY SCHEDULING A PROOF ROLL WITH THE CITY OF EVANS, AND APPROVED BY THE CITY OF EVANS ENGINEERING DIVISION.
6. PRIOR TO PAVEMENT INSTALLATION BASE, MATERIAL SHALL BE INSPECTED BY A PROOF ROLL SCHEDULED WITH THE CITY OF EVANS, AND APPROVED BY THE CITY OF EVANS ENGINEERING DIVISION. VALVE BOXES, MANHOLES, CLEANOUTS, AND SURVEY MONUMENT BOXES ARE REQUIRED TO BE BROUGHT UP TO THE SUBGRADE LEVEL PRIOR TO PAVEMENT INSTALLATION. ALL LOCATIONS AND DISTANCES OF THE VALVE BOXES AND MANHOLES SHOULD BE CLEARLY LABELED ON THE CURB AND GUTTER IN WHITE PAINT. ONCE THE PAVEMENT IS INSTALLED ALL VALVE BOXES, MANHOLES, CLEANOUTS, AND SURVEY MONUMENT BOXES SHALL BE RAISED TO ¼" BELOW ASPHALT GRADE AND HAVE A ONE FOOT CONCRETE COLLAR INSTALLED AROUND THE OUTER DIAMETER OF THE FITTINGS.

7. CONCRETE CURB AND GUTTER, SIDEWALKS, AND STREET PAVING SHALL NOT BEGIN UNTIL ALL TESTING DATA HAS BEEN RECEIVED BY THE CITY OF EVANS, AND SUBGRADE PROOF ROLLS BY THE CITY OF EVANS ENGINEERING DIVISION HAS BEEN COMPLETED AND APPROVED.

8. NUCLEAR GAUGE TESTING DATA BY A THIRD PARTY TESTING COMPANY FOR COMPACTION AND MOISTURE CONTENT OF ALL UTILITY TRENCHES, SUBGRADE, BASE MATERIAL, VOIDS, AND SEGREGATION OF THE ASPHALT MAT IS TO BE SUBMITTED TO THE CITY OF EVANS IN A TIMELY MANNER. EMAIL REPORTS TO THE ENGINEERING DIVISION AT danderson@evanscolorado.gov OR wwelborn@evanscolorado.gov.

9. THE GENERAL CONTRACTOR SHALL MAINTAIN ALL NECESSARY BARRICADES, PERMANENT SIGNS, TEMPORARY SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES DAILY DURING CONSTRUCTION AND BETWEEN PHASES OF CONSTRUCTION.

10. THE ROADWAY AND RELATED WORK AREAS SHALL BE LEFT WITH A CLEAN AND FINISHED APPEARANCE. IN NO CASE SHALL MATERIAL REMOVED FROM THE RIGHT-OF-WAY BE STOCKPILED AND LEFT IN SUCH A MANNER AS TO POSE A HAZARD TO THE PUBLIC. THE GENERAL CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE SIDEWALKS, CURB AND GUTTERS, PANS, AND DRIVEWAYS AT THE CONSTRUCTION SITE AND DISPOSE OF THE DEBRIS IN AN APPROPRIATE LOCATION.

11. THE PCCP ON THIS PROJECT WILL BE ACCEPTED BY THE COMPRESSIVE STRENGTH METHOD.

GRADING NOTES AND EROSION CONTROL NOTES

1. GRADES SHOWN ON PLANS ARE FINISHED GRADES. FOR SUBGRADE ELEVATIONS, REFER TO THE PAVING SECTIONS AND DETAILS.

2. EROSION CONTROL MEASURES OUTLINED ON THE EROSION CONTROL/GRADING PLAN MUST BE IN PLACE PRIOR TO COMMENCEMENT OF ANY LAND DISTURBING ACTIVITY. (STOCKPILING, STRIPPING, GRADING, ETC.)

3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CITY OF EVANS, AND THE APPROVED PROJECT CONSTRUCTION DOCUMENTS.

4. A VEHICLE TRACKING CONTROL STRIP 20' X 50' X 6" WITH 1 ½" TO 3" ROCK IS TO BE PLACED AND MAINTAINED BY THE GENERAL CONTRACTOR AT ALL ACCESS POINTS TO THE CONSTRUCTION SITE.

5. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL MEASURES AND SHALL BE RESPONSIBLE FOR ANY AND ALL FINES ASSOCIATED WITH THE DISCHARGE OF SEDIMENTS, EROSION, OR POLLUTANTS LEAVING THE SITE AS A RESULT OF CONSTRUCTION ACTIVITY.

6. NO SOIL STOCKPILE SHALL EXCEED 10 FEET IN HEIGHT. ALL SOIL STOCKPILES SHALL BE PROTECTED FROM SEDIMENT TRANSPORT BY SURFACE ROUGHENING, WATERING, AND PERIMETER SILT FENCING. ANY SOIL STOCKPILES REMAINING AFTER THREE MONTHS FROM THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES SHALL BE SEEDED WITH A TEMPORARY COVER CROP, OR REMOVED FROM THE SITE.

7. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE PLAN ALIGNMENT AND GRADE IN ALL ROADWAYS, PARCELS/LOTS, OPEN SPACES, DITCHES, SWALES, DETENTION PONDS, AND FOREBAYS SO THAT ALL DRAINAGE IS DIRECTED IN A POSITIVE FLOW TO ALL DRAINAGE STRUCTURES INDICATED ON THE CONSTRUCTION PLANS AT THE COMPLETION OF CONSTRUCTION.

8. ALL UTILITIES (NON-POTABLE WATER LINES, POTABLE WATER LINES, SANITARY SEWER LINES, STORM DRAINAGE, DRY UTILITY CROSSINGS (GAS, ELECTRIC, TELEPHONE, AND CABLE T.V., MANHOLES, AND INLETS) WITHIN THE ROAD RIGHT-OF-WAY SHALL BE INSTALLED PRIOR TO ROADWAY SUBGRADE PREPARATION.

9. SUBGRADE SHALL BE RIPPED, COMPACTED, AND SHAPED PER CITY STANDARDS AND SPECIFICATIONS. THE CITY OF EVANS ENGINEERING DIVISION SHALL BE NOTIFIED 48 HOURS IN ADVANCE TO SCHEDULE A PROOF ROLL OF ALL SUBGRADE WHERE ROADWAYS, SIDEWALKS, PANS, APRONS, CURB AND GUTTER, AND OTHER PUBLIC IMPROVEMENTS WILL BE PLACED.

10. A 20' X 20' CONCRETE WASH OUT AREA SHALL BE ESTABLISHED NEAR THE EXIT TO THE SITE. THE AREA SHALL BE FENCED WITH ORANGE SAFETY FENCING ON THREE SIDES AND HAVE AN EARTHEN BERM, OR DEPRESSION CUT INTO THE GRADE TO CONTAIN WATER AND CONCRETE FROM LEAVING THE AREA. A SIGN DIRECTING ALL CONCRETE TRUCKS TO THE WASHOUT MUST BE ERECTED AT ALL ENTRANCES TO THE SITE. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE WASHOUT AREA PRIOR TO LEAVING THE SITE ONCE INITIAL SITE CONSTRUCTION IS COMPLETE. BURYING OF THE DEBRIS IS STRICTLY PROHIBITED.

11. ONCE FINAL GRADING IS COMPLETE, ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RIPPED BY A GRADER IN CORN FURROW FASHION, OR SEEDED. THE FURROWS SHALL BE PERPENDICULAR TO THE GRADE OF THE LAND. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN THIS EROSION CONTROL MEASURE FOR THE DURATION OF THE 2 YEAR WARRANTY PERIOD.

12. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES THAT WILL REMAIN AS OUTLOTS, OPEN SPACE, DETENTION PONDS, FOREBAYS, OR TRAILS SHALL RECEIVE 4 INCHES OF TOP SOIL AND SHALL BE SEEDED.

13. SOIL PREPARATION, FERTILIZER, COMPOST, SEEDING, AND MULCHING WILL BE REQUIRED. SEED TAGS WILL BE COLLECTED BY THE CITY OF EVANS.

14. REFER TO STORM WATER MANAGEMENT SHEETS FOR ALL SEEDING MIXTURES.

TRAFFIC SIGNING & PAVEMENT MARKING NOTES

1. ROADWAY TRAFFIC SIGNAGE HAS BEEN DETERMINED BY INFORMATION AVAILABLE AT THE TIME OF CONSTRUCTION PLAN REVIEW AND APPROVAL. PRIOR TO INITIATION OF THE WARRANTY PERIOD, THE CITY OF EVANS RESERVES THE RIGHT TO REQUIRE ADDITIONAL SIGNAGE IF IT DETERMINES THAT AN UNFORSEEN CONDITION WARRANTS SUCH ACCORDING TO THE MUTCD, OR THE CDOT STANDARD PLANS M & S STANDARDS.

2. ALL SIGNAGE SHALL FALL UNDER THE REQUIREMENTS OF THE TWO YEAR WARRANTY PERIOD FOR NEW CONSTRUCTION.

3. LOCATIONS OF EXISTING SIGNS ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE CITY OF EVANS TO DETERMINE IF EXISTING SIGNS NOT SHOWN ON THE CONSTRUCTION PLANS SHALL BE RESET OR REMOVED.

4. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH MUTCD STANDARDS.

5. THE CONTRACTOR INSTALLING THE SIGNS SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES.

6. STREET AND AVENUE SIGNS SHALL BE EXTRUDED ALUMINUM 6" X 30" MINIMUM, CITY OF EVANS STANDARD REFLECTIVE GREEN BACKGROUND WITH WHITE BLOCK LETTERING, CITY LOGO, AND NUMBERING.

7. ALL SIGNS SHALL BE MOUNTED WITH VANDAL-PROOF BOLTS.

8. ALL SIGNS SHALL BE INSTALLED ON UNISTRUT TELESPEAR TYPE PERFORATED POSTS WITH ANCHORS AT THE PROPER HEIGHT AS PER CURRENT MUTCD STANDARDS.

9. UNISTRUT TELESPEAR TYPE POSTS SHALL MEET OR EXCEED THE FOLLOWING:
1. POSTS - 1 ¾" X 1 ¾", 12 GAUGE, ASTM SPECIFICATION NUMBER A4446, GRADE A, DRILLED ON 1" CENTERS
 2. ANCHORS - 2" X 2", 12 GAUGE, ASTM SPECIFICATION NUMBER A4446, DRILLED ON 1" CENTERS.
 3. ALL POSTS AND ANCHORS SHALL BE GALVANIZED TO ASTM SPECIFICATION A52 COATING DESIGNATION G90.

10. STRIPING HAS BEEN DETERMINED BY INFORMATION AVAILABLE AT THE TIME OF CONSTRUCTION PLAN REVIEW AND APPROVAL. PRIOR TO INITIATION OF THE WARRANTY PERIOD, THE CITY RESERVES THE RIGHT TO REQUIRE ADDITIONAL STRIPING IF THE CITY ENGINEER DETERMINES THAT AN UNFORSEEN CONDITION WARRANTS SUCH ACCORDING TO THE MUTCD OR THE CDOT STANDARD PLANS M & S STANDARDS.

11. ALL STRIPING SHALL FALL UNDER THE REQUIREMENTS OF THE TWO YEAR WARRANTY PERIOD FOR NEW CONSTRUCTION. (EXCEPT NORMAL TRAFFIC WEAR ON TRAFFIC MARKINGS)

12. ALL SURFACES SHALL BE THOROUGHLY CLEANED PRIOR TO INSTALLATION OF STRIPING OR MARKINGS TO PREPARE THE PAVEMENT SURFACE FOR PROPER ADHESION. ALL SYMBOLS, INCLUDING ARROWS, ONLAYS, CROSSWALKS, STOP BARS, ETC. SHALL BE PRE-FORMED THERMOPLASTIC, PAINTED, OR EPOXY PER THE CITY OF EVANS STANDARDS.

13. MARKINGS THAT MUST BE VISIBLE AT NIGHT SHALL BE RETROREFLECTIVE.

14. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE SURFACE OR TEXTURE OF THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. UNDER NO CIRCUMSTANCES SHALL BLACK PAINT BE USED TO COVER EXISTING MARKINGS, OR MISTAKES IN STRIPING.

GENERAL ENVIRONMENTAL NOTES

MIGRATORY BIRDS:

1. THE CONTRACTOR SHALL COMPLY WITH THE MIGRATORY BIRD TREATY ACT (MBTA) AT ALL TIMES, INCLUDING CONDUCTING PRE-CONSTRUCTION SURVEYS FOR NESTING BIRDS SET FORTH BY U.S. FISH AND WILDLIFE SERVICE (USFWS) AND THE COLORADO PARKS AND WILDLIFE (CPW). THE CONTRACTOR SHALL SCHEDULE WORK TO AVOID TAKING (PURSUE, HUNT, TAKE, CAPTURE OR KILL; ATTEMPT TO TAKE, CAPTURE, KILL OR POSSESS) MIGRATORY BIRDS PROTECTED BY THE MBTA. THE INCIDENTAL TAKING OF A MIGRATORY BIRD SHALL BE REPORTED TO THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PENALTIES LEVIED BY THE USFWS FOR THE TAKING OF A MIGRATORY BIRD. THE CONTRACTOR SHALL RETAIN A QUALIFIED WILDLIFE BIOLOGIST, WITH A MINIMUM OF THREE YEARS' EXPERIENCE, FOR CONDUCTING MIGRATORY BIRD SURVEYS, TO IMPLEMENT THE REQUIREMENTS OF THE MBTA. THE CONTRACTOR SHALL SUBMIT DOCUMENTATION OF THE BIOLOGIST'S EDUCATION AND EXPERIENCE TO THE ENGINEER FOR ACCEPTANCE PRIOR TO COMMENCEMENT OF ANY ASSOCIATED WORK. A BIOLOGIST WITH LESS EXPERIENCE MAY BE USED BY THE CONTRACTOR SUBJECT TO THE ACCEPTANCE OF THE ENGINEER BASED ON REVIEW OF THE BIOLOGIST'S QUALIFICATIONS. DOCUMENTATION OF THE NEST SURVEYS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.

2. THE CONTRACTOR SHALL COMPLETE RAPTOR NEST AND BALD EAGLE WINTER ROOST SITE SURVEYS TO EVALUATE THE PRESENCE OF THESE RESOURCES WITHIN AND IN THE VICINITY OF THE STUDY AREA. IF AN ACTIVE NEST OR BALD EAGLE ROOST SITE IS LOCATED IN OR NEAR THE STUDY AREA, THE USFWS AND CPW SHALL BE CONTACTED REGARDING USE OF SEASONAL BUFFERS TO PREVENT DISTURBANCE TO NESTING BIRDS DURING CONSTRUCTION.

3. LAND-CLEARING ACTIVITIES, INCLUDING ROCKFALL MITIGATION (IF APPLICABLE), IN NATURAL HABITATS SHALL BE TIMED TO AVOID THE BREEDING SEASON AND TO AVOID IMPACTS TO ACTIVE BIRD NESTS. IF REQUIRED, TREES SHALL BE CLEARED PRIOR TO FEBRUARY 15 OR AFTER AUGUST 31 TO PREVENT RAPTORS (AND OTHER BIRDS) FROM NESTING ON-SITE AND TO AVOID THE TAKING OF, OR DISTURBANCE TO, ACTIVE NESTS DURING THE BREEDING SEASON. WHERE WORK IS TO BE COMPLETED DURING THE NESTING SEASON, MIGRATORY BIRD SURVEYS WILL BE REQUIRED.

4. NOXIOUS WEEDS:

a. NOXIOUS WEEDS HAVE BEEN IDENTIFIED IN THE STUDY AREA. PLEASE REFER TO THE BIOLOGICAL RESOURCES REPORT (PINYON ENVIRONMENTAL, DECEMBER 2015) FOR A LIST OF NOXIOUS WEEDS IDENTIFIED IN THE STUDY AREA.

b. THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING BEST MANAGEMENT PRACTICES IN ALL CONSTRUCTION AREAS TO PREVENT THE SPREAD OF NOXIOUS WEEDS AND MINIMIZE POTENTIAL EFFECTS FROM TREATMENT:

- MINIMIZE SOIL DISTURBANCE TO THE GREATEST EXTENT POSSIBLE.
- CLEAN ALL CONSTRUCTION-RELATED EQUIPMENT THOROUGHLY BEFORE OFF-LOADING AT THE PROJECT SITE AND AFTER WORKING WITH WEED-CONTAMINATED SOILS.
- NOXIOUS WEEDS OBSERVED IN AND NEAR THE CONSTRUCTION AREA WILL BE TREATED WITH HERBICIDES OR MECHANICALLY REMOVED PRIOR TO THE START OF CONSTRUCTION TO MINIMIZE SPREAD.
- USE A STATE-LICENSED HERBICIDE APPLICATOR.
- ALL HERBICIDES WILL BE APPLIED IN ACCORDANCE TO THE MANUFACTURER'S INSTRUCTIONS.
- COORDINATION OF WEED MANAGEMENT EFFORTS WITH ADJACENT LANDOWNERS TO THE EXTENT POSSIBLE.
- THE CONTRACTOR WILL AVOID NON-TARGET INJURY TO PASSING PEDESTRIANS AND MOTORISTS, ADJACENT NATIVE PLANT COMMUNITIES, LANDSCAPING, SENSITIVE WILDLIFE HABITAT (PRAIRIE DOGS), AND NEARBY BEEKEEPING OPERATIONS (IF PRESENT).
- HERBICIDES CAN BE USED IMMEDIATELY ADJACENT TO WETLANDS, RIPARIAN AREAS, AND/OR WATER BODIES ONLY IF THE LABEL INDICATES ITS USE IS APPROPRIATE FOR SUCH AREAS.

5. MONITOR ALL AREAS TREATED FOR NOXIOUS WEEDS DURING CONSTRUCTION AND RE-TREAT, IF NECESSARY, TO PREVENT RE-ESTABLISHMENT OF NOXIOUS WEEDS.

OTHER ENVIRONMENTAL:

6. THE CONTRACTOR SHALL ENSURE THAT NO MATERIALS, EQUIPMENT, OR VEHICLES ARE STAGED OR PARKED NEAR WETLANDS OR DRAINAGE AREAS, UNLESS SPECIFICALLY ALLOWED AS NOTED IN THE PLANS.

7. THE CONTRACTOR SHALL NOT PARK ANY VEHICLES OR EQUIPMENT IN, OR DISTURB ANY AREAS NOT APPROVED BY THE ENGINEER; THE CONTRACTOR SHALL ADHERE TO THE CONSTRUCTION LIMITS AS NOTED IN THE PLANS AND DEMARCATÉ THE WORK AREA TO PREVENT GROUND DISTURBANCE OUTSIDE THOSE PRESCRIBED AREAS.

8. THE CONTRACTOR SHALL REMOVE IN A TIMELY MANNER ALL SEDIMENT, MUD, DEBRIS, OR OTHER POTENTIAL POLLUTANTS WHICH MAY BE DISCHARGED TO, OR ACCUMULATE IN, THE FLOW LINES AND PUBLIC RIGHT-OF-WAYS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT.

9. THE CONTRACTOR SHALL PROTECT ALL AREAS FROM WASHOUTS AND SOIL EROSION RESULTING FROM CONSTRUCTION ACTIVITIES.

10. ALL EROSION/SEDIMENT CONTROL AND STORMWATER RESPONSIBILITIES SHALL BE IMPLEMENTED AS STATED IN THE STORMWATER MANAGEMENT PLAN.

11. IF PALEONTOLOGICAL (E.G., ANIMAL BONES OR FOSSILS) RESOURCES ARE DISCOVERED OR UNCOVERED DURING CONSTRUCTION, WORK WILL STOP IMMEDIATELY AND THE ENGINEER NOTIFIED SO FURTHER ACTIONS MAY BE TAKEN, INCLUDING RETAINING A CERTIFIED PALEONTOLOGIST.

12. IF ANY ARCHAEOLOGICAL RESOURCES ARE FOUND (E.G., BURIED STONE TOOLS OR PROJECTILE POINTS), WORK WILL BE IMMEDIATELY HALTED IN THE VICINITY OF THE FIND, THE ENGINEER NOTIFIED, AND A CERTIFIED ARCHEOLOGIST WILL BE PROMPTLY NOTIFIED.

13. IF BONES OF POTENTIAL HUMAN ORIGIN ARE DISCOVERED DURING CONSTRUCTION, GROUND-DISTURBING WORK MUST BE STOPPED IN THE VICINITY OF THE DISCOVERY, AND THE COUNTY CORONER, THE COUNTY SHERIFF, THE COLORADO STATE HISTORIC PRESERVATION OFFICER (SHPO), AND THE COLORADO STATE ARCHAEOLOGIST WILL BE PROMPTLY NOTIFIED. WORK CANNOT RESUME IN THE VICINITY OF THE FIND UNTIL CLEARANCE IS GRANTED.



Know what's below. Call before you dig.



Plot Date: 7/14/2015 12:49 PM Plotted By: Dan Tuttle
 File Name: GN-002 - GENERAL NOTES.DWG
 File Path: C:\WORKING FILES\3701 CITY OF EVANS BRANTNER RD\80 COMPUTER DESIGN FILES\82 CAD SHEET FILES\GN-02 - GENERAL NOTES.DWG

Print Date: 10/26/2015		Sheet Revisions			As Constructed		49TH/BRANTNER/INDUSTRIAL		Project No./Code	
File Name: GN-002 - GENERAL NOTES.DWG		Date:	Comments	Init.	No Revisions:		GENERAL NOTES		PW 00302 /	
Horiz. Scale: N/A					Revised:		Designer: D.TUTTLE	Structure	Drawing Number GN-002	
Vert. Scale: N/A					Void:		Detailer: D.GONZALES	Numbers	Sheet Number 2 of 41	
RockSol Consulting Group, Inc. 6510 W. 91st Ave., Westminster, CO 80031 Ph: (303) 962-9300 Fax: (303) 962-9350							Sheet Subset: GENERAL		Subset Sheets: 2 of 6	



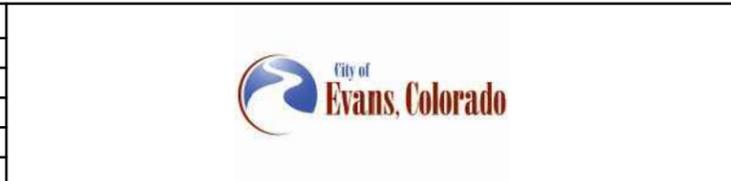
INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	Units	ROADWAY			PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST		PLAN	AS CONST
			201-00001	Clearing and Grubbing	LS	1			1	
			202-00240	Removal of Asphalt Mat (Planing)	SY	648			648	
			202-00810	Removal of Ground Sign	EACH	8			8	
			203-00010	Unclassified Excavation (Complete In Place)	CY	716			716	
			203-01500	Blading	HOUR	20			20	
			203-01594	Combination Loader	HOUR	20			20	
			203-01597	Potholing	HOUR	10			10	
			203-02330	Laborer	HOUR	15			15	
			207-00205	Topsoil	CY	753			753	
			208-00002	Erosion Log (12inch)	LF	3110			3110	
			208-00035	Aggregate Bag	LF	100			100	
			208-00045	Concrete Washout Structure	EACH	1			1	
			208-00070	Vehicle Tracking Pad	EACH	3			3	
			208-00103	Removal and Disposal of Sediment (Labor)	HOUR	20			20	
			208-00105	Removal and Disposal of Sediment (Equipment)	HOUR	20			20	
			208-00106	Sweeping (Sediment Removal)	HOUR	40			40	
			208-00206	Erosion Control Supervisor	DAY	30			30	
			210-00010	Reset Mailbox Structure	EACH	3			3	
			210-00810	Reset Ground Sign	EACH	1			1	
			212-00006	Seeding (Native)	ACRE	1.40			1.40	
			212-00032	Soil Conditioning	ACRE	1.40			1.40	
			213-00002	Mulching (Weed Free Hay)	ACRE	0.70			0.70	
			213-00061	Mulch Tackifier	LB	140			140	
			216-00201	Soil Retention Blanket (Straw/Coconut) (Biodegradable Class 1)	SY	3750			3750	
			216-00303	Turf Reinforcement Mat (Class III)	SY	3750			3750	
			304-06000	Aggregate Base Course (Class 6)	TON	247			247	
			310-00610	Full Depth Reclamation of Hot Mix Asphalt Pavement (8-12 Inch)	SY	4480			4480	
			403-34751	Hot Mix Asphalt (Grading SX) (75) (PG 64-28)	TON	119			119	
			412-00600	Concrete Pavement (6 Inch)	SY	4706			4706	
			607-11525	Fence (Plastic)	LF	3742			3742	
			612-00001	Delineator (Type I)	EACH	43			43	
			614-00011	Sign Panel (Class I)	SF	66.75			66.75	
			614-00012	Sign Panel (Class II)	SF	8			8	
			614-00066	Timber Sign Post 6x6 Inch	LF	14			14	
			614-00200	Steel Sign Post (U-2)	LF	132			132	
			625-00000	Construction Surveying	LS	1			1	
			626-00000	Mobilization	LS	1			1	
			627-00005	Epoxy Pavement Marking	GALLON	23			23	
			627-30210	Thermoplastic Pavement Marking (Xwalk-Stopline)	SF	50			50	
			630-00000	Flagging	HOUR	100			100	
			630-00007	Traffic Control Inspection	DAY	10			10	
			630-00012	Traffic Control Management	DAY	30			30	
			630-80335	Barricade (Type 3 M-A) (Temporary)	EACH	12			12	
			630-80355	Portable Message Sign Panel	EACH	2			2	
			630-80341	Construction Traffic Sign (Panel Size A)	EACH	27			27	
			630-80342	Construction Traffic Sign (Panel Size B)	EACH	6			6	
			630-80360	Drum Channelizing Device	EACH	20			20	
			630-80363	Drum Channelizing Device (With Light)(Flashing)	EACH	20			20	
			630-80380	Traffic Cone (36 Inch)	EACH	50			50	



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Horiz. Scale: N/A	Vert. Scale: N/A

Sheet Revisions		
Date:	Comments	Init.



As Constructed
No Revisions:
Revised:
Void:

49TH/BRANTNER/INDUSTRIAL	
SUMMARY OF APPROXIMATE QUANTITIES	
Designer: D.TUTTLE	Structure Numbers
Detailer: D.GONZALES	
Sheet Subset: GENERAL	Subset Sheets: 3 of 6

Project No./Code
PW 00302 /
Drawing Number GN-003
Sheet Number 3 of 41

REMOVALS, ADJUSTMENTS, RELOCATES, AND RESET ITEMS				
STATION/LOCATION	REMOVAL OF ASPHALT PLANING (SY)	REMOVAL OF GROUND SIGN (EACH)	RESET MAILBOX STRUCTURE (EACH)	RESET GROUND SIGN (EACH)
49TH ST.				
STA. 14+25 TO STA. 15+00	217			
STA. 15+00 TO STA. 24+54.44		7		
STA. 15+00 TO STA. 24+54.44			3	
INDUSTRIAL ST.				
STA. 25+34.08, 18.56' RT				1
STA. 26+50.00 TO STA. 27+50.00	297			
BRANTNER RD.				
STA. 54+50.00 TO STA. 55+00.00	134			
STA. 52+10.34 TO STA. 54+50.00				
STA. 51+58.10 LT.		1		
TOTALS	648	8	3	1

SURFACE ITEMS					
STATION / LOCATION	AREA (SF)	3" GRADING SX (75) (PG 64-28)	FULL DEPTH RECLAMATION OF HOT MIX ASPHALT PAVEMENT (8-12 INCH)	CONCRETE PAVEMENT (6 INCH)	AGGREGATE BASE COURSE (CLASS 6)
		TON	SY	SY	TON
49TH AND INDUSTRIAL					
STA. 14+25.00 TO 15+00.00 & 26+50.00 TO 27+50.00	4626	86			
STA. 15+00.00 TO 26+50.00	32057		3327	3562	
STA. 14+25.00 RT. TO 15+75.00 RT.	1898				63
STA. 18+50.00 LT. TO 19+00.00 LT.	892				30
STA. 20+00.00 RT. TO 24+45.00, 130' RT. (INCLUDES SHOULDER ON BRANTNER RD.)	2919				97
STA. 23+40.00 LT. TO 23+60.00 LT.	634				21
STA. 24+41.47 LT. TO 24+77.61 LT.	330				11
STA. 27+00.00 LT. TO 27+50.00 LT.	758				25
BRANTNER					
STA. 51+14.00 TO 54+50.00	10294		1153	1144	
STA. 54+50.00 TO 55+00.00	1203	22			
SUBTOTALS		108			
10% IRREGULARITIES (FOR ASPHALT ONLY)		11			
TOTAL	55611	119	4480	4706	247

FULL DEPTH OF RECLAMATION OF HOT MIX ASPHALT PAVEMENT BASED ON 10 INCH DEPTH.

SUMMARY OF EARTHWORK QUANTITIES		CUBIC YARDS
<u>EXCAVATION MATERIAL</u>		
	<u>49th St. & Industrial Pkwy.</u>	
	STA. 14+25 TO STA. 27+50 (FULL DEPTH RECLAMATION)	106
	STA. 16+30 TO BRANTNER STA. 53+00 (TURF REINFORCEMENT MAT)	273
	STA. 25+10 TO STA. BRANTNER 52+00 (TURF REINFORCEMENT MAT)	18
	STA. 14+25 TO STA. 27+50 (LEFT ROADWAY SLOPE)	97
	STA. 25+10 TO STA. 27+50 (RIGHT ROADWAY SLOPE)	101
	<u>Brantner Rd.</u>	
	STA. 51+15 TO STA. 55+00 (FULL DEPTH RECLAMATION)	74
	STA. 53+00 TO STA. 55+00 (RIGHT ROADWAY SLOPE)	26
	STA. 52+00 TO STA. 55+00 (LEFT ROADWAY SLOPE)	21
	TOTAL	716
<u>EMBANKMENT MATERIAL (NET)</u>		<u>CUBIC YARDS</u>
	<u>49th St. & Industrial Pkwy.</u>	
	STA. 14+25 TO STA. 27+50	0
	<u>Brantner Rd.</u>	
	STA. 51+15 TO STA. 55+00	0
	TOTAL	0
<u>COMPACTION (AASHTO T 99)</u>		<u>CUBIC YARDS</u>
	TOTAL EMBANKMENT (NET) BASES OF CUTS AND FILLS	0
	TOTAL	0
<u>BORROW</u>		<u>CUBIC YARDS</u>
	FROM PIT	0
	TOTAL	0
<u>FOR INFORMATION ONLY UNCLASSIFIED EXCAVATION</u>		<u>Cubic Yards</u>
	Total Unclassified Excavation	716
	Total Borrow	0
	UNCLASSIFIED TOTAL	716



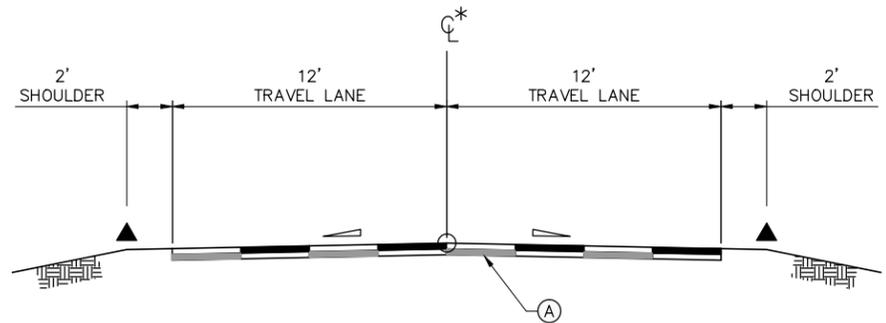
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Date:	Comments	Init.



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Revised:	Designer: D.TUTTLE	Structure Numbers	Drawing Number GN-004
Void:	Detailer: D.GONZALES	Sheet Subset: GENERAL	Subset Sheets: 4 of 6
			Sheet Number 4 of 41



TYPICAL SECTIONS:

49TH ST:
 * STA: 14+25.00 TO STA: 15+00.00

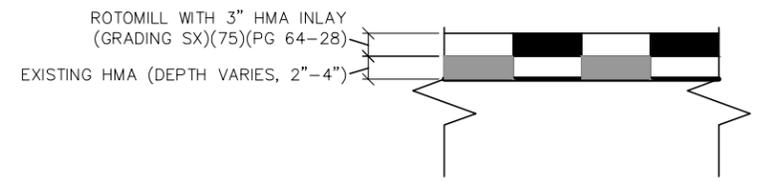
INDUSTRIAL PKWY:
 STA: 26+50.00 TO STA: 27+50.00

BRANTNER RD:
 STA: 54+50.00 TO STA: 55+00.00

* ROADWAY NOT CENTERED ON CONTROL LINE FROM STA. 14+25 TO STA. 15+00. SEE DRAWING PP-201 FOR ROADWAY GEOMETRICS.

TYPICAL SECTION NOTES:

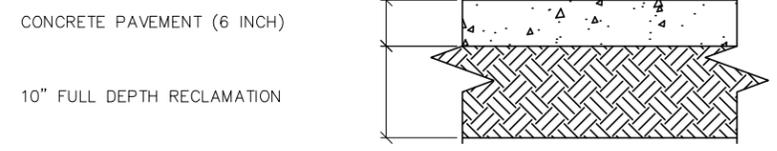
- THE CONTRACTOR WILL BE REQUIRED TO PLACE 4 INCHES OF TOPSOIL TO THIS LINE AFTER COMPLETION OF PAVING OPERATION.
- BREAK POINTS IN SLOPES AND IN BOTTOMS OF DITCHES SHALL BE ROUNDED DURING CONSTRUCTION.
- ROADWAY SLOPE VARIES. SEE GRADING PLAN AND CROSS SECTIONS FOR DETAILS.
- VERTICAL ALIGNMENT CONTROL POINTS.



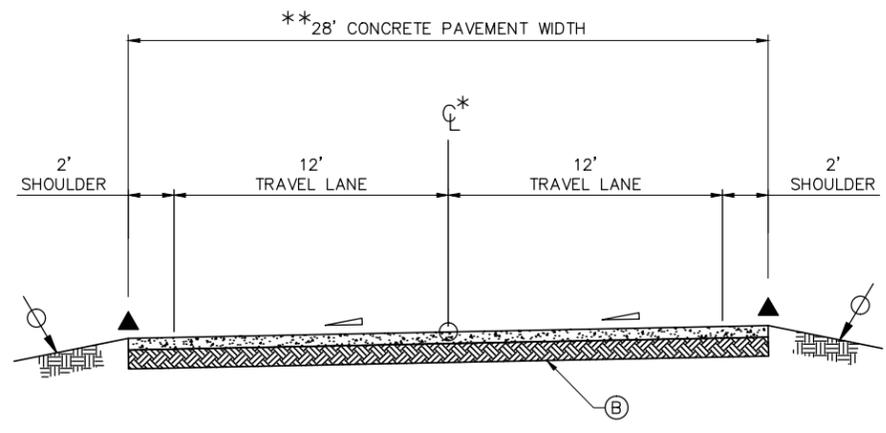
A ROTOMILL ASPHALT TRANSITION
 SCALE: N.T.S

NOTES:

1. REFER TO PLAN AND PROFILE SHEETS FOR EXACT LOCATIONS OF PAVEMENT TRANSITIONS.
2. REFER TO GEOTECHNICAL REPORT ENTITLED:
 "Geotechnical Pavement Design Report
 Brantner Road, Industrial Parkway and 49th Street Project
 City of Evans Project No. PW-00302 Evans09"
 PREPARED BY ROCKSOL CONSULTING GROUP.
 DATED: NOVEMBER 5, 2015
3. REFER TO DRAWINGS GR-301 TO GR-303 FOR GRADING PLANS.



B FULL DEPTH - CONCRETE PAVEMENT SECTION
 SCALE: N.T.S



TYPICAL SECTIONS:

49TH ST AND INDUSTRIAL:
 * STA: 15+00.00 TO STA: 26+50.00

BRANTNER RD:
 * * STA: 51+14.00 TO STA: 51+66.00
 STA: 51+66.00 TO STA: 54+50.00

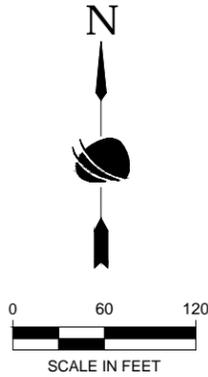
* ROADWAY NOT CENTERED ON CONTROL LINE FROM STA. 15+00 TO STA. 17+50. SEE DRAWING PP-201 FOR ROADWAY GEOMETRICS.

* * FROM STA. 51+14 TO STA. 51+66.00
 ROADWAY SECTION VARIES AT INTERSECTION
 SEE DRAWING PP-203 & PP-204 FOR LAYOUT



Plot Date: 10/26/2015 10:46 AM Plotted By: Dan Tuttle
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File Name: GN-005 - TYPICALS & PAVEMENT.DWG	Date:	Comments	Init.	No Revisions:	TYPICAL SECTIONS & PAVEMENT SECTIONS		PW 00302 /
Horiz. Scale: N/A				Revised:	Designer: D.TUTTLE	Structure Numbers	Drawing Number GN-005
Vert. Scale: N/A				Void:	Detailer: D.GONZALES		Sheet Number 5 of 41
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END PROJECT - 49TH/INDUSTRIAL PKWY.

STA: 27+50.00 0.00'
N: 1377450.92
E: 3222408.87

N00°18'41"W
728.75'

PT: 25+21.25
N: 1377222.1764
E: 3222410.1105

BEGIN ALIGNMENT - BRANTNER

STA: 50+00.00 0.00'
N: 1377144.86
E: 3222307.07

INDUSTRIAL PKWY.

BRANTNER RD.

ALIGNMENT INTERSECTION
49TH ST. STA: 24+45.44, 0.00'
BRANTNER RD STA: 51+00.00, 0.00'

END PROJECT - BRANTNER RD.

STA: 55+00.00 0.00' L
N: 1377152.80
E: 3222807.01

502
4660.60
BM KSI-12
N=1379021.56
E=3225019.55

856
4653.75
CP PINK
N=1377206.80
E=3222847.66

854
4654.56
CP RED
N=1377199.78
E=3222448.46

N89°05'26"E
659.09'

N00°00'00"E
1814.76'

L=1321.27'
Δ=91°12'31"
R=830.00'

BEGIN PROJECT - 49TH ST.

STA: 14+25.00 0.00'
N: 1376414.60
E: 3221789.85

BEGIN ALIGNMENT - 49TH/INDUSTRIAL

STA: 10+00.10 0.00'
N: 1376390.90
E: 3221367.27

S89°06'10"E
199.98'

PC: 11+99.98
N: 1376387.7668
E: 3221567.1278

PI STA: 20+47.68
NORTHING: 1376374.49
EASTING: 3222414.72

VERTICAL DATUM:
BENCHMARK: BM KSI-12 NAVD88 ELEVATION 4660.60

HORIZONTAL DATUM:
COLORADO STATE PLANE COORDINATES NAD 83(2007)
DATUM. HORIZONTAL CONTROL BASED TRIMBLE VRS
NETWORK.

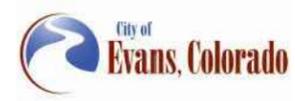
- NOTE:
- THIS DRAWING IS AT MODIFIED STATE PLANE. TO REDUCE TO STATE PLANE COORDINATES, SCALE AT 0.99973183 (1.00026824) ABOUT THE ORIGIN 0,0.
 - ALL PROPERTY PINS, INTERSECTION MONUMENTS, AND SECTION CORNERS DISTURBED DURING CONSTRUCTION MUST BE REFERENCED AND REPLACED UNDER THE SUPERVISION OF A LICENSED SURVEYOR.



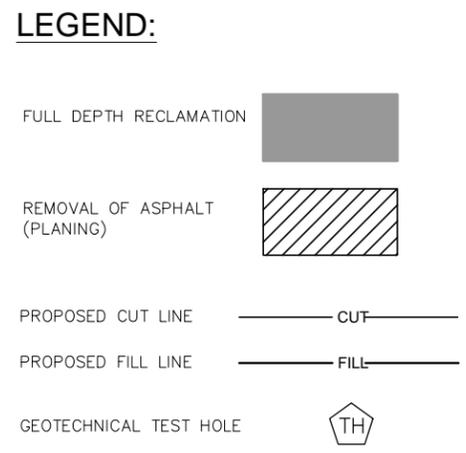
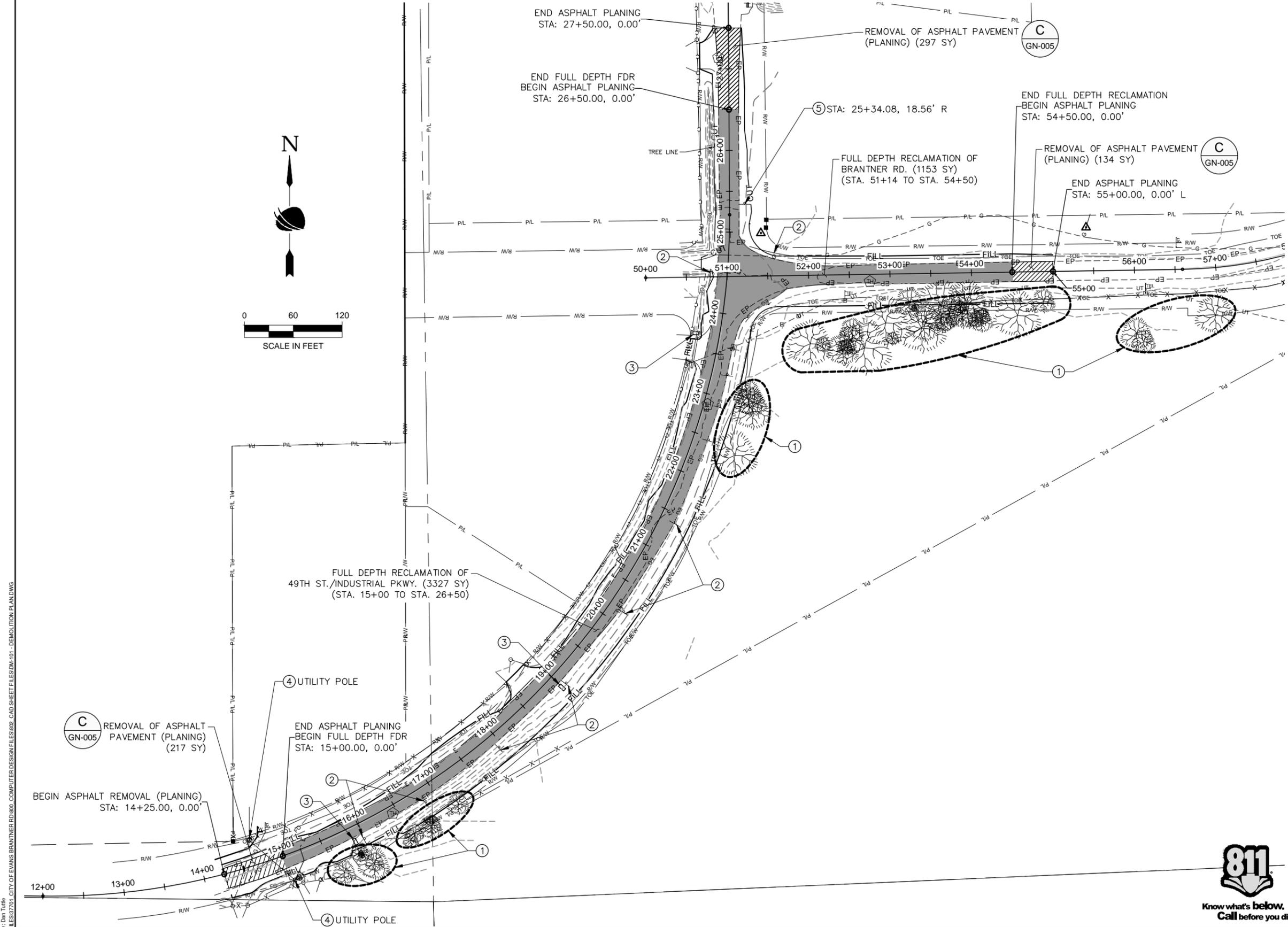
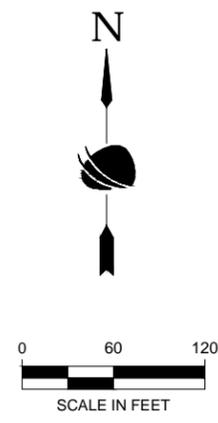
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	Designer: D.TUTTLE	Structure Numbers	Drawing Number GN-006
	Detailer: D.GONZALES		Sheet Number 6 of 41
	Sheet Subset: GENERAL	Subset Sheets: 6 of 6	



KEYED NOTES:

- ① RETAIN & PROTECT TREE
- ② REMOVAL OF GROUND SIGN
- ③ RESET MAILBOX STRUCTURE
- ④ PROTECT IN PLACE
- ⑤ RESET GROUND SIGN

NOTES:

- 1. COST OF ASPHALT CUTS SHALL BE INCIDENTAL TO OTHER PAY ITEMS.
- 2. THERE SHALL BE NO TREE REMOVAL UNLESS APPROVED BY THE CITY OF EVANS.

C GN-005
REMOVAL OF ASPHALT PAVEMENT (PLANING) (217 SY)

END ASPHALT PLANING BEGIN FULL DEPTH FDR STA: 15+00.00, 0.00'

BEGIN ASPHALT REMOVAL (PLANING) STA: 14+25.00, 0.00'

END ASPHALT PLANING STA: 26+50.00, 0.00'

REMOVAL OF ASPHALT PAVEMENT (PLANING) (297 SY)

C GN-005

FULL DEPTH RECLAMATION OF BRANTNER RD. (1153 SY) (STA. 51+14 TO STA. 54+50)

REMOVAL OF ASPHALT PAVEMENT (PLANING) (134 SY)

C GN-005

END FULL DEPTH RECLAMATION BEGIN ASPHALT PLANING STA: 54+50.00, 0.00'

END ASPHALT PLANING STA: 55+00.00, 0.00' L

FULL DEPTH RECLAMATION OF 49TH ST./INDUSTRIAL PKWY. (3327 SY) (STA. 15+00 TO STA. 26+50)

④ UTILITY POLE

④ UTILITY POLE



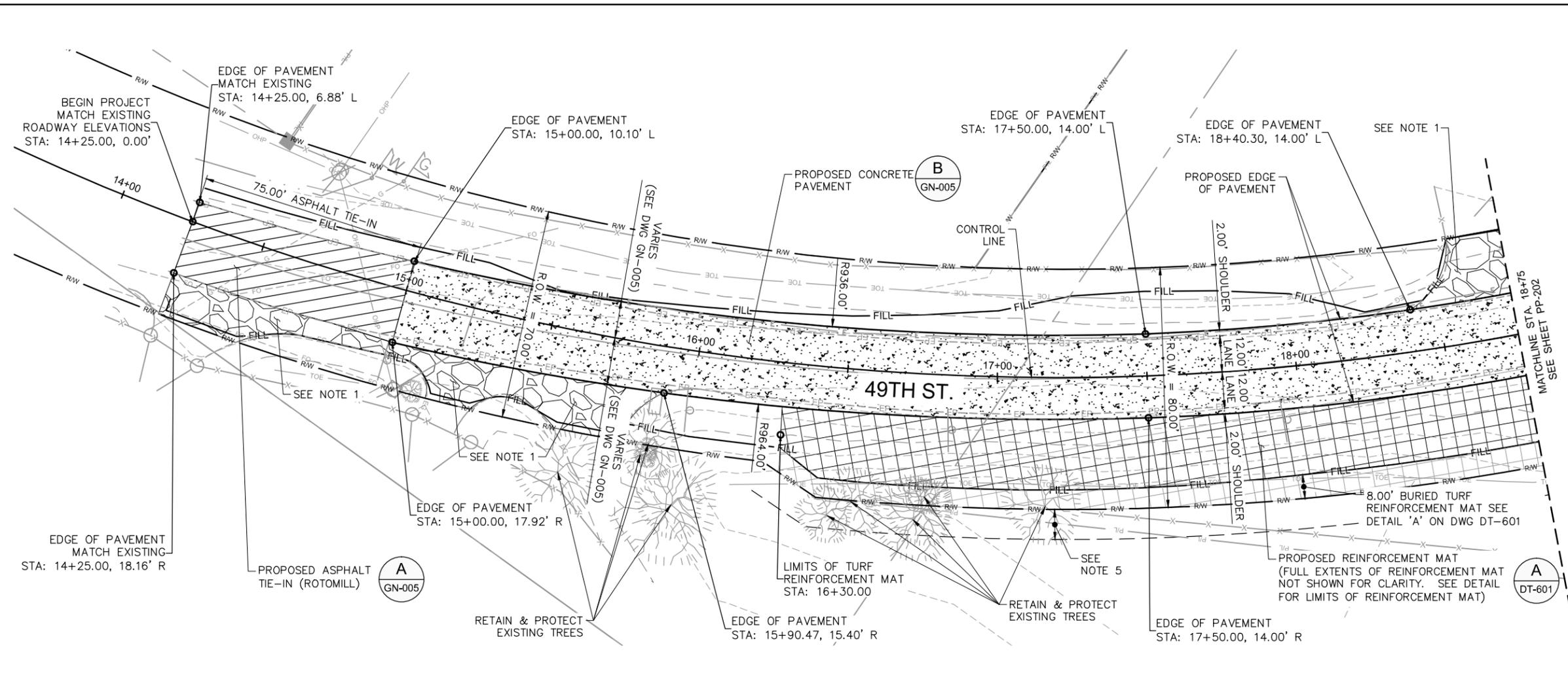
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 Ph: (303) 962-9300 Fax: (303) 962-9350

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File Name: DM-101 - DEMOLITION PLAN.DWG
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No Revisions:	DEMOLITION PLAN		PW 00302 /
Revised:	Designer: D.TUTTLE	Structure Numbers	Drawing Number DM-101
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		Subset Sheets: 1 of 1	

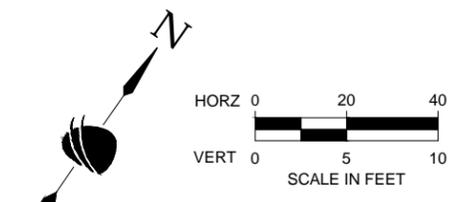
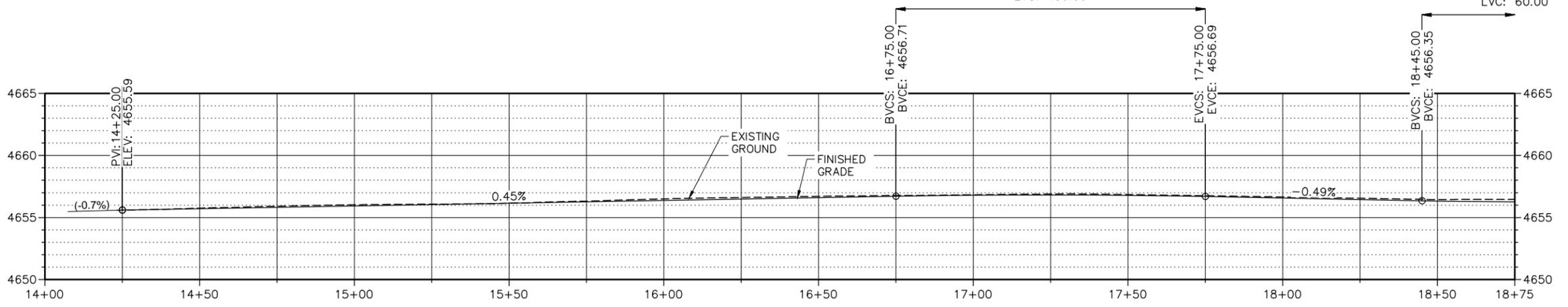


- LEGEND:**
- ASPHALT TIE-IN
 - CONCRETE PAVEMENT (6 INCH) SEE DETAIL 'B' ON DWG GN-005
 - 6-INCH AGGREGATE BASE COURSE, CLASS 6
 - REINFORCEMENT MAT SEE DETAIL 'A' ON DWG DT-601

- NOTES:**
1. THE CONTRACTOR SHALL MAINTAIN ACCESS FOR RESIDENTS THROUGHOUT THE DURATION OF CONSTRUCTION.
 2. SEE DRAWINGS GR-301 TO GR-303 FOR GRADING PLANS.
 3. SEE DRAWING SN-801 TO SN-802 FOR SIGNING AND STRIPING PLANS.
 4. SEE DRAWINGS JT-701 TO JT-703 FOR CONCRETE JOINTING PLANS.
 5. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF EVANS AT LEAST ONE WEEK IN ADVANCE OF ANY WORK WITHIN THE CITY OF EVANS RIGHT-OF-WAY.
 6. THE CONTRACTOR SHALL FIELD VERIFY EXISTING UTILITIES PRIOR TO THE INSTALLATION OF THE TURF REINFORCEMENT MAT (TRM) AND SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO INSTALLATION.

HP STA: 17+22.81
 HP ELEV: 4656.814
 PVI STA: 17+25.00
 PVI ELEV: 4656.93
 K: 107.25
 LVC: 100.00

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 LOW PT ELEV: 465
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 PVI ELEV: 4656.
 K: 67.67
 LVC: 60.00



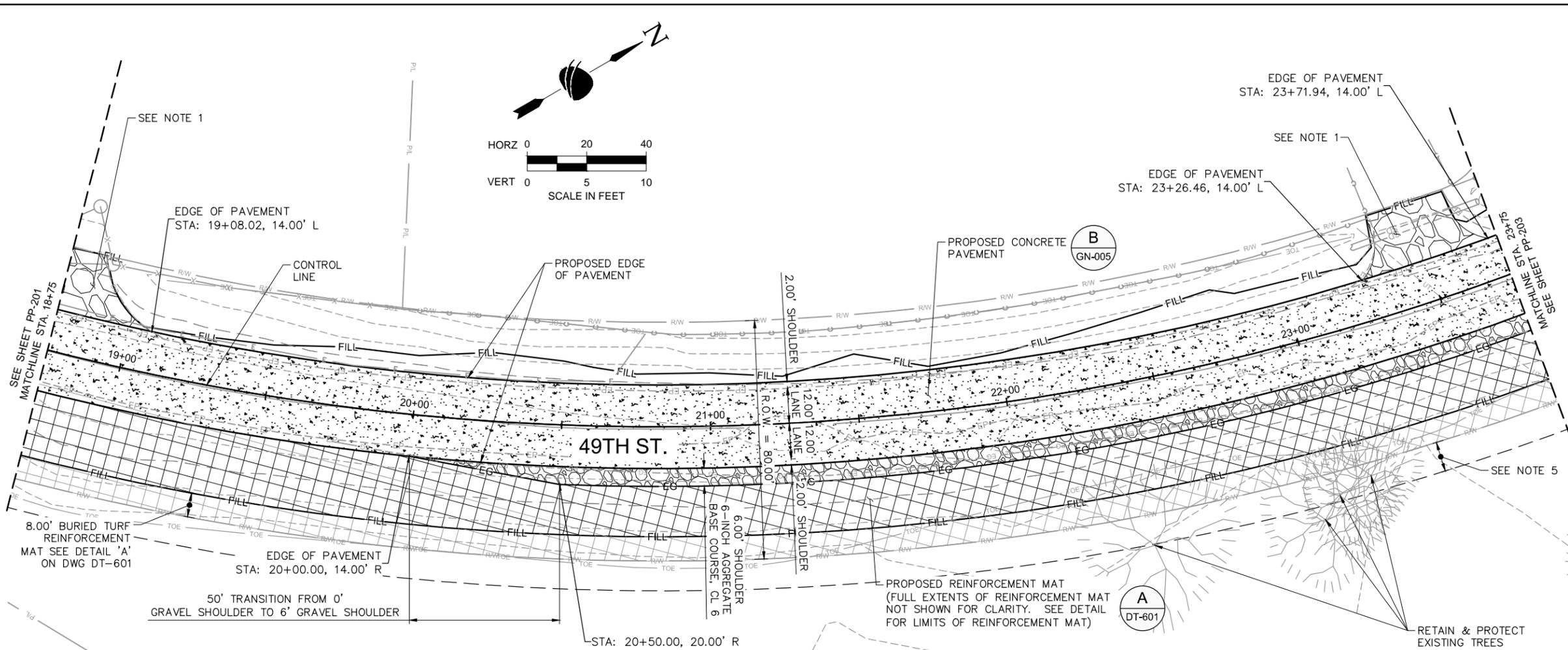
811
 Know what's below.
 Call before you dig.

COLORADO REGISTERED PROFESSIONAL ENGINEER
 DANIEL A. TUTTLE
 48946

Plot Date: 10/26/2015 10:54 AM Plotted By: Dan Tuttle
 File Name: PP-201 - PLAN & PROFILE.DWG
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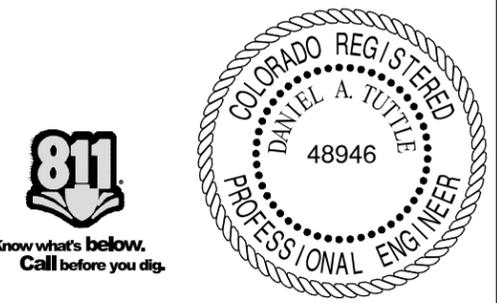
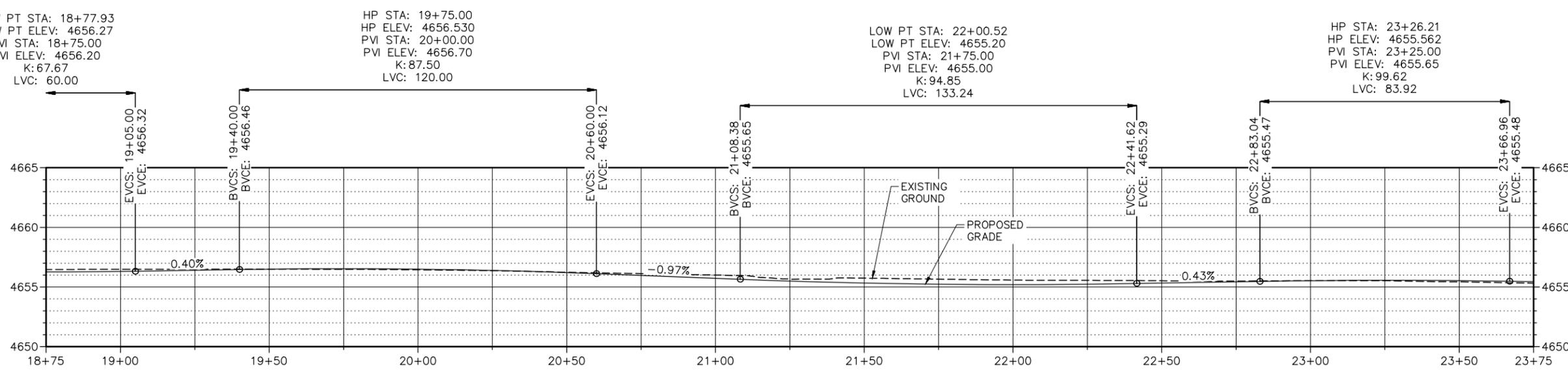
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		Void:	Detailer: D.GONZALES		Sheet Number 8 of 41
			Sheet Subset: PLANS	Subset Sheets: 1 of 4	





- LEGEND:**
- ASPHALT TIE-IN
 - CONCRETE PAVEMENT (6 INCH) SEE DETAIL 'B' ON DWG GN-005
 - 6-INCH AGGREGATE BASE COURSE, CLASS 6
 - REINFORCEMENT MAT SEE DETAIL 'A' ON DWG DT-601

- NOTES:**
1. THE CONTRACTOR SHALL MAINTAIN ACCESS FOR RESIDENTS THROUGHOUT THE DURATION OF CONSTRUCTION.
 2. SEE DRAWINGS GR-301 TO GR-303 FOR GRADING PLANS.
 3. SEE DRAWING SN-801 TO SN-802 FOR SIGNING AND STRIPING PLANS.
 4. SEE DRAWINGS JT-701 TO JT-703 FOR CONCRETE JOINTING PLANS.
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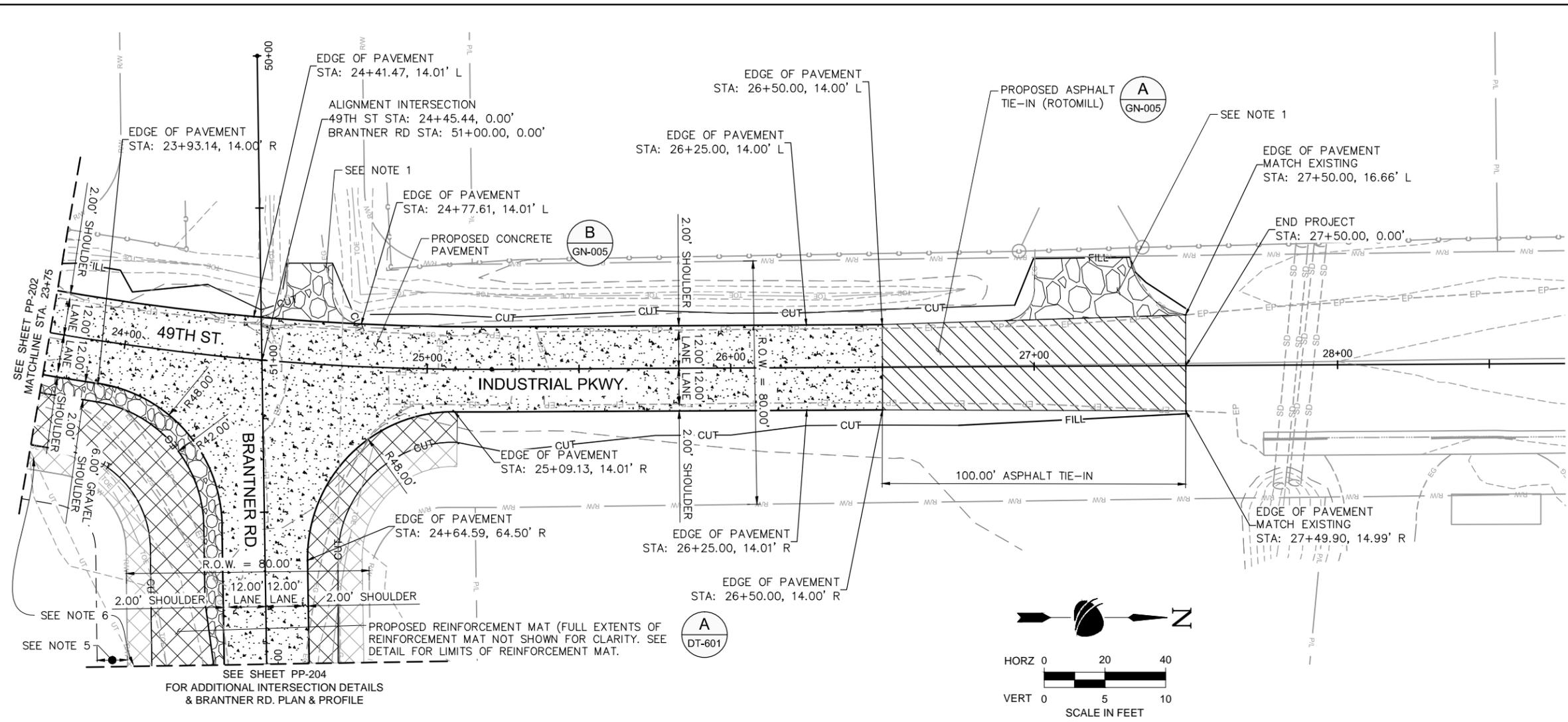
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Revised:		Designer: D.TUTTLE Detailer: D.GONZALES
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Drawing Number PP-202		Sheet Number 9 of 41

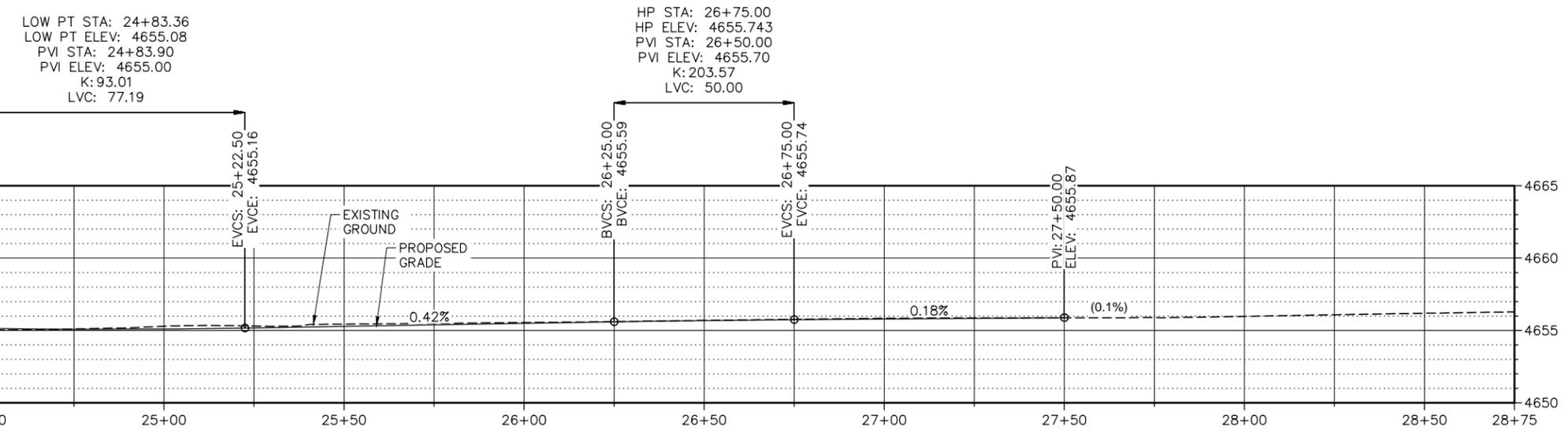


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- LEGEND:**
- ASPHALT TIE-IN
 - CONCRETE PAVEMENT (6 INCH) SEE DETAIL 'B' ON DWG GN-005
 - 6-INCH AGGREGATE BASE COURSE, CLASS 6
 - REINFORCEMENT MAT SEE DETAIL 'A' ON DWG DT-601

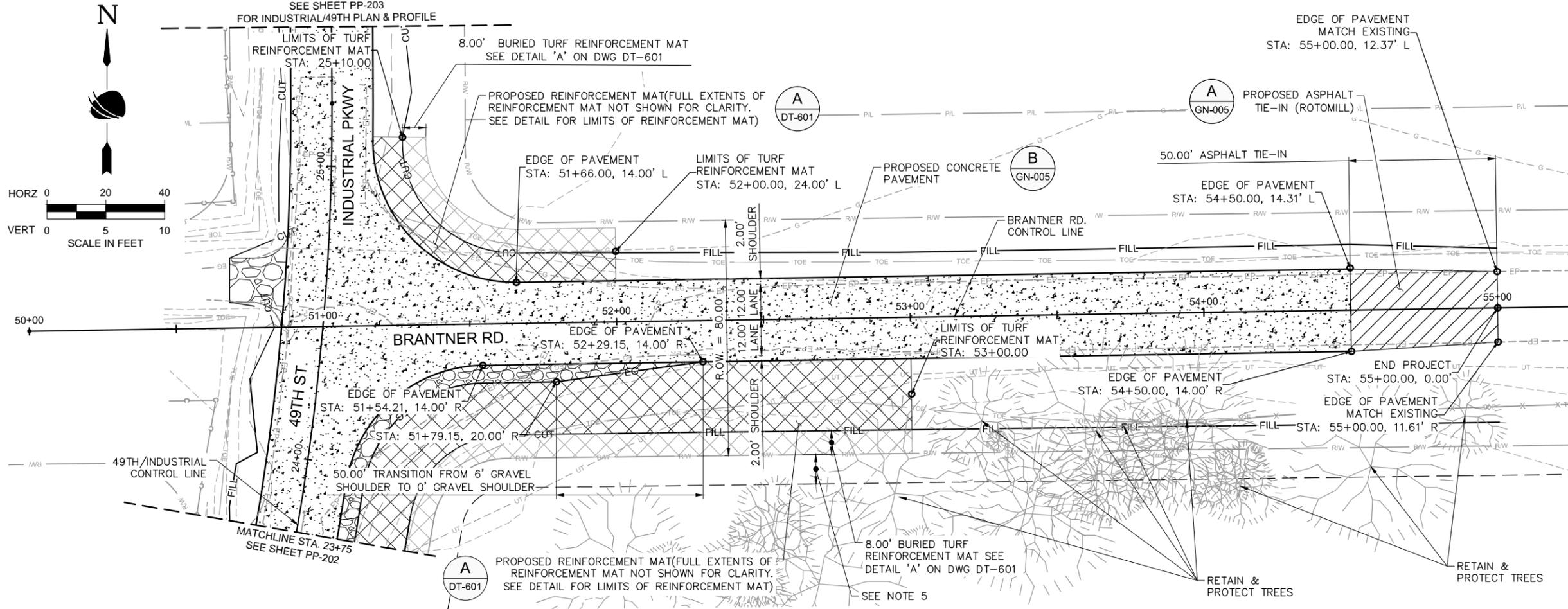
- NOTES:**
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 2. SEE DRAWINGS GR-301 TO GR-303 FOR GRADING PLANS.
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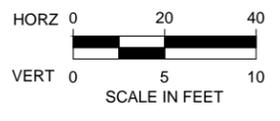
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				Void:	Detailer: D.GONZALES		Sheet Number 10 of 41
					Sheet Subset: PLANS	Subset Sheets: 3 of 4	





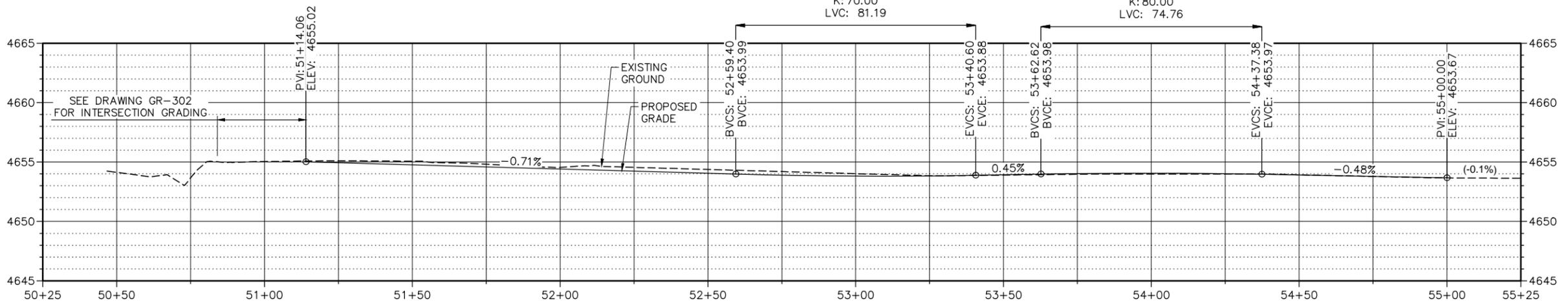
- LEGEND:**
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 - CONCRETE PAVEMENT (6 INCH) SEE DETAIL 'B' ON DWG GN-005
 - 6-INCH AGGREGATE BASE COURSE, CLASS 6
 - REINFORCEMENT MAT SEE DETAIL 'A' ON DWG DT-601

- NOTES:**
1. THE CONTRACTOR SHALL MAINTAIN ACCESS FOR RESIDENTS THROUGHOUT THE DURATION OF CONSTRUCTION.
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LOW PT STA: 53+09.10
 LOW PT ELEV: 4653.81
 PVI STA: 53+00.00
 PVI ELEV: 4653.70
 K: 70.00
 LVC: 81.19

HP STA: 53+98.62
 HP ELEV: 4654.063
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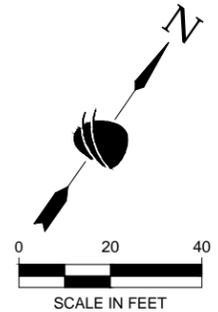
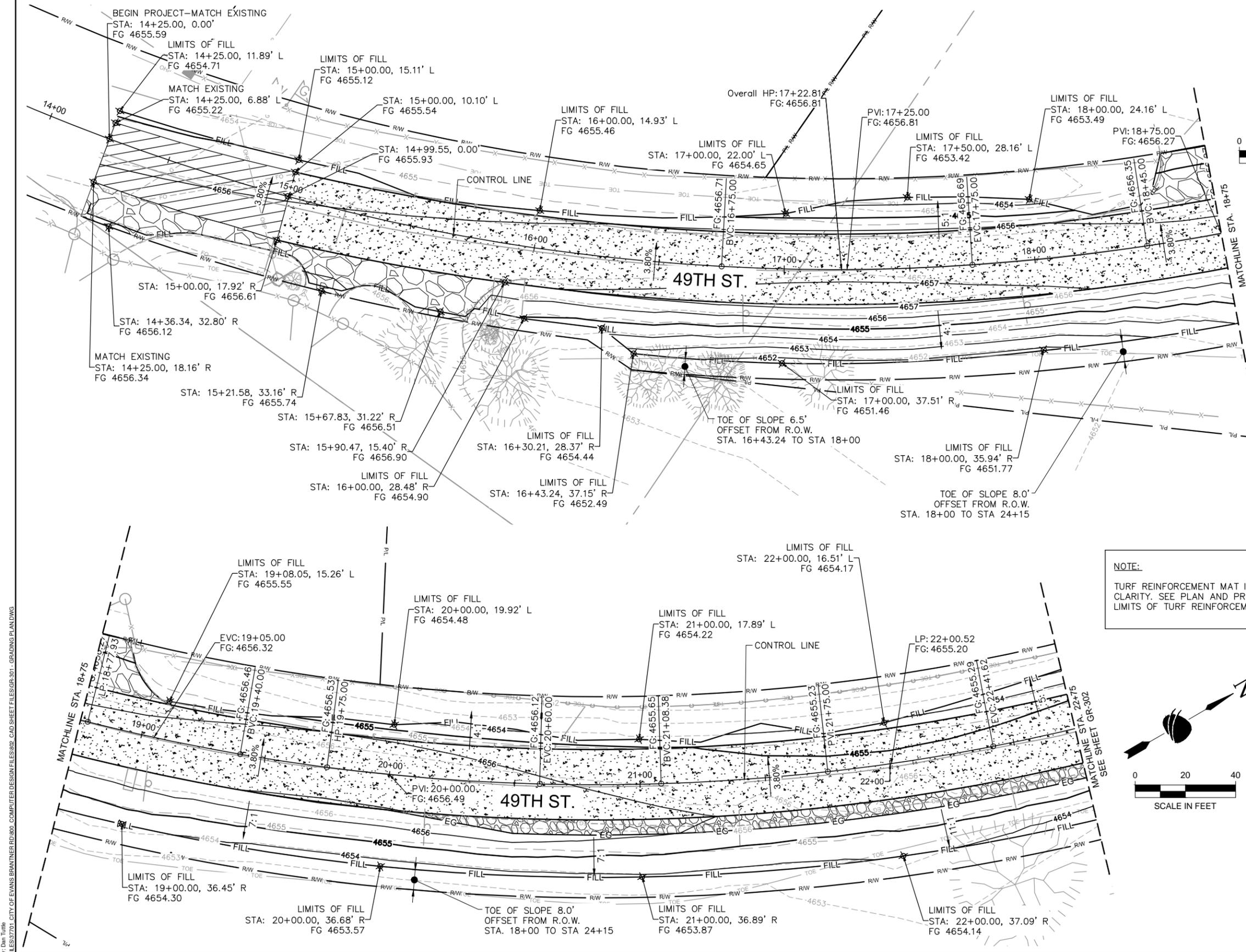
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Date:	Comments	Init.



As Constructed
No Revisions:
Revised:
Void:

49TH/BRANTNER/INDUSTRIAL PLAN & PROFILE	
Designer: D.TUTTLE	Structure Numbers
Detailer: D.GONZALES	
Sheet Subset: PLANS	Subset Sheets: 4 of 4

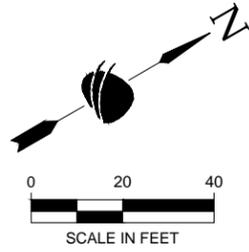
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PW 00302 /
Drawing Number PP-204
Sheet Number 11 of 41



LEGEND:

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PROPOSED MINOR CONTOUR	— 4653 —
EXISTING MAJOR CONTOUR	- - - 4655 - - -
EXISTING MINOR CONTOUR	- - - 4653 - - -
CUT	— CUT —
FILL	— FILL —
FINISHED GRADE ELEVATION	○ FG XXXX.XX

NOTE:
TURF REINFORCEMENT MAT IS NOT SHOWN FOR CLARITY. SEE PLAN AND PROFILE SHEETS FOR LIMITS OF TURF REINFORCEMENT MAT.



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Print Date: 10/26/2015
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Sheet Revisions		
Date:	Comments	Init.

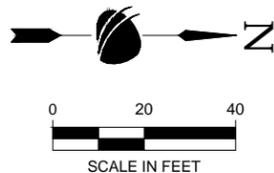


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Revised:
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49TH/BRANTNER/INDUSTRIAL GRADING PLAN	
Designer: D.TUTTLE	Structure Numbers
Detailer: D.GONZALES	
Sheet Subset: GRADING	Subset Sheets: 1 of 3

Project No./Code	PW 00302 /
Drawing Number GR-301	
Sheet Number 12 of 41	

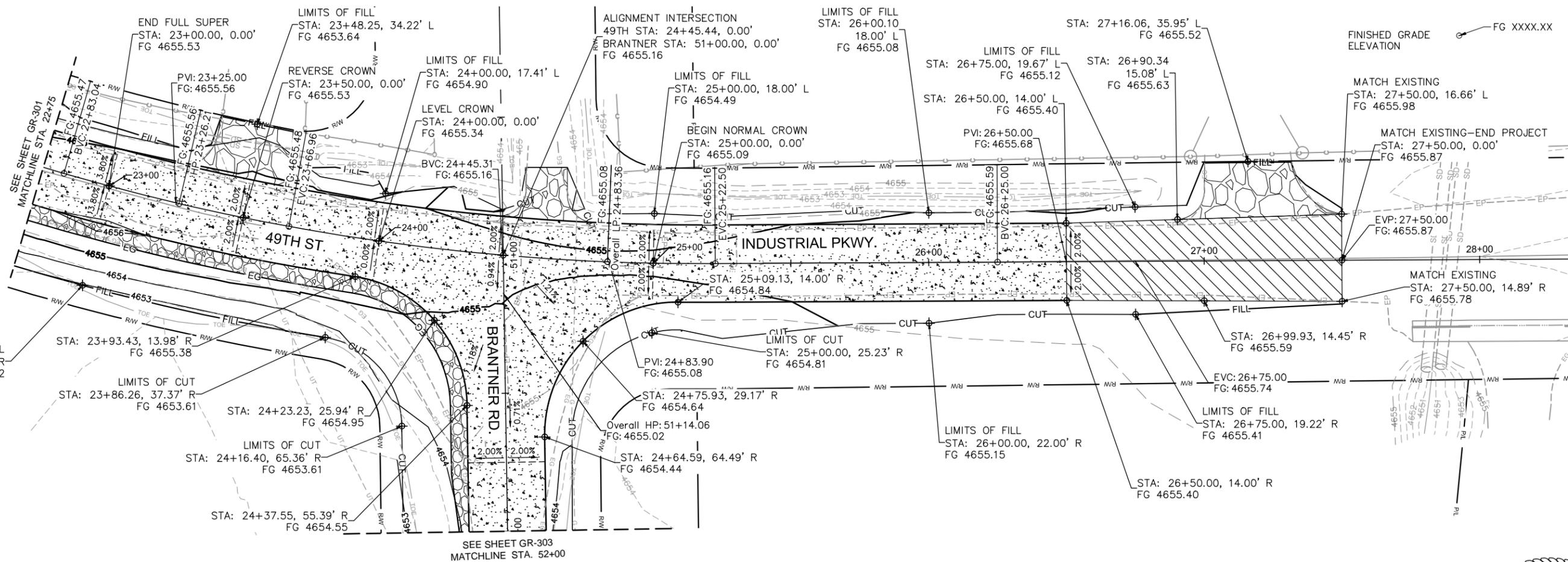




LEGEND:

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- PROPOSED MINOR CONTOUR ——— 4653 ———
- EXISTING MAJOR CONTOUR - - - - 4655 - - - -
- EXISTING MINOR CONTOUR - - - - 4653 - - - -
- CUT ——— CUT ———
- FILL ——— FILL ———
- FINISHED GRADE ELEVATION ○ FG XXXX.XX

NOTE:
TURF REINFORCEMENT MAT IS NOT SHOWN FOR CLARITY. SEE PLAN AND PROFILE SHEETS FOR LIMITS OF TURF REINFORCEMENT MAT.

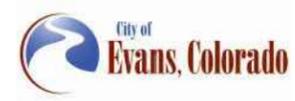


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 City of Evans Brantner Rd 800 Computer Design Files GR-302 CAD Sheet Files GR-302 Grading Plans DWG



Print Date: 10/26/2015
File Name: GR-302 - GRADING PLAN.DWG
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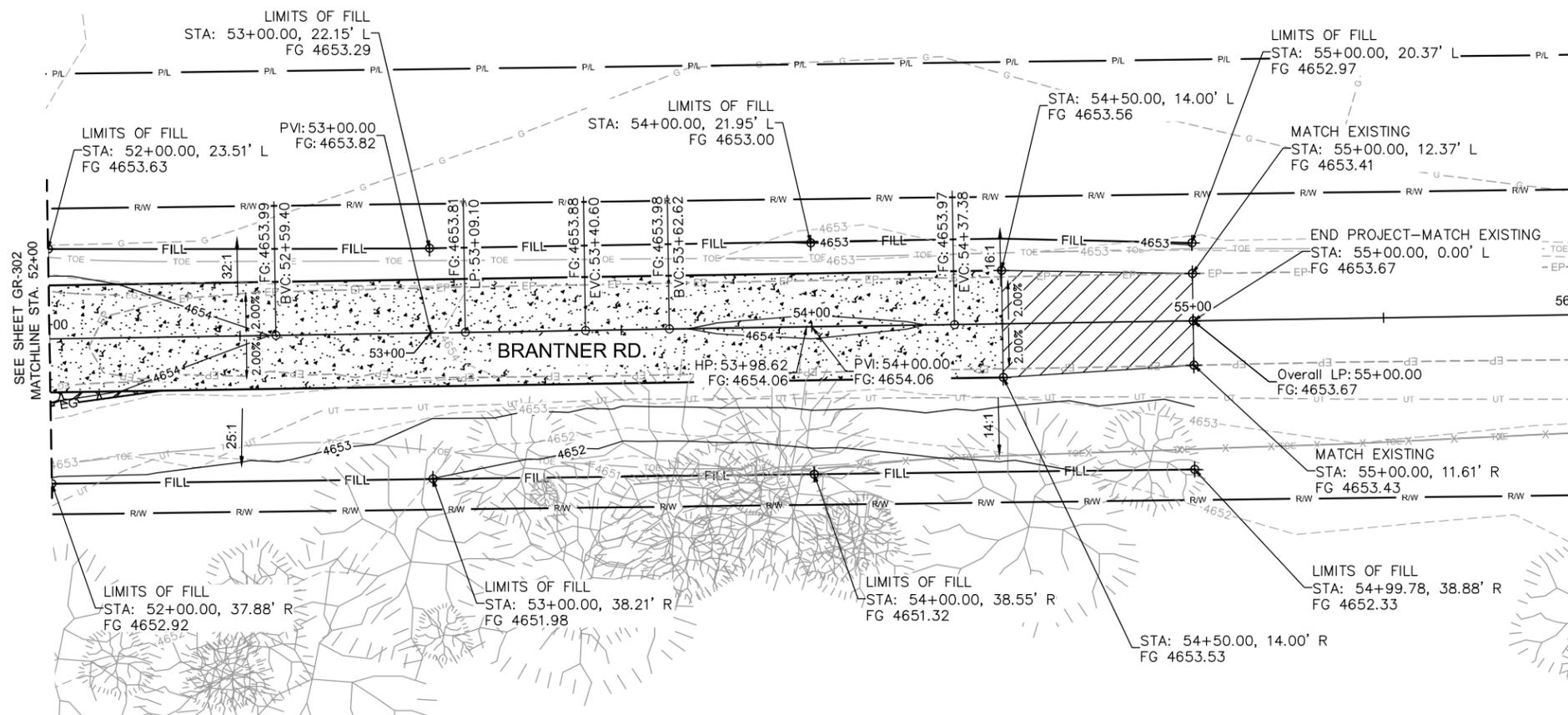
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No Revisions:			PW 00302 /
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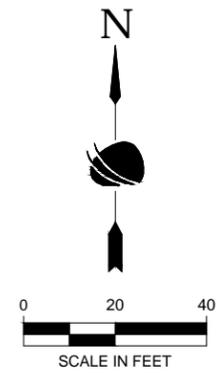
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- PROPOSED MINOR CONTOUR ——— 4653 ———
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- EXISTING MINOR CONTOUR - - - - 4653 - - - -
- CUT ——— CUT ———
- FILL ——— FILL ———
- FINISHED GRADE ELEVATION ◯ FG XXXX.XX



NOTE:
TURF REINFORCEMENT MAT IS NOT SHOWN FOR CLARITY. SEE PLAN AND PROFILE SHEETS FOR LIMITS OF TURF REINFORCEMENT MAT.

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Print Date: 10/26/2015
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Sheet Revisions		
Date:	Comments	Init.



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No Revisions:	GRADING PLAN		PW 00302 /
Revised:	Designer: D.TUTTLE	Structure Numbers	Drawing Number GR-303
Void:	Detailer: D.GONZALES	Sheet Subset: GRADING	Sheet Number 14 of 41
		Subset Sheets: 3 of 3	

1. SITE DESCRIPTION

To fulfill the CDPS-SCP (Colorado Discharge Permit System – Stormwater Construction Permit). The ECS shall update the Storm Water Management Plan to reflect current project site conditions.

A. PROJECT SITE DESCRIPTION: The subject road segments are located in the 100 year flood plain and a portion of 49th Street is located in the floodway. Temporary repairs to the subject roads were done by Weld County after the 2013 flood and were washed out by flooding in May and June 2015. The section of road damaged in 2013 was made worse by the 2015 floods and there was additional damage to 49th Street. The proposed improvements include reconstructing a portion of 49th St, Industrial Pkwy, and Brantner Rd, utilizing a concrete surface and reinforcing the eastern roadway slope.

B. PROPOSED SEQUENCING FOR MAJOR CONSTRUCTION ACTIVITIES: This project will begin with the placement of erosion control items specified within this document. Next, full depth reclamation, grading, and roadway reconstruction will begin. The final stage will include final stabilization and removal of temporary BMPs. Construction is expected to begin in the Spring of 2016 and last approximately 2 months.

C. ACRES OF DISTURBANCE: [includes clearing, grading, excavation, stockpiling of fill materials, demolition, areas with heavy equipment/vehicle traffic, installation of new or improved haul roads and access roads, staging areas, dedicated borrow/fill areas and storage that will disturb existing vegetative cover. Round area to the nearest 10th of acre]

1. Total area of construction site: 3.20 acres
2. Total area of disturbance: 3.20 acres
3. Acreage of seeding: 1.40 acres

C. AREAS OF CUT AND FILL See Grading Plans.

D. EXISTING SOIL DATA: Bankard sandy loam, 0 to 3 percent slopes, frequently flooded (From USDA Web Soil Survey)

E. EXISTING VEGETATION, INCLUDING PERCENT COVER:

A survey including general description of existing vegetation shall be conducted by TECS prior to any ground disturbance on project. The TECS shall photo-document existing vegetation where all work will be occurring. The TECS shall also perform the vegetation survey transect(s) including photo documentation as outlined in Chapter 4.11.2 of CDOT's Erosion Control and Stormwater Quality Guide.

Date of survey: _____ %Density: _____

Description of existing vegetation:

Map or table showing transect locations in tab 19 of the Storm Water Management Plan:

F. POTENTIAL POLLUTANT SOURCES: See First Construction Activities under Potential Pollutant Sources. The ECS shall prepare a list of all potential pollutants and their locations in accordance with subsection 107.25.

G. RECEIVING WATER:

1. Outfall locations: The site drains generally to the south and southeast toward the South Platte River. The runoff remains as surface flow across the project and flows toward the South Platte River.
2. Names of receiving water(s) on site and the ultimate receiving water: South Platte River
3. Distance ultimate receiving water is from project: Approximately 300 feet

H. ALLOWABLE NON-STORMWATER DISCHARGES:

1. Groundwater and stormwater dewatering: Discharges to the ground of water from construction dewatering activities may be authorized provided that:
 - a. the source is groundwater and/or groundwater combined with stormwater that does not contain pollutants
 - b. the source and BMPs are identified in the SWMP
 - c. discharges do not leave the site as surface runoff or to surface waters
 - d. The contractor shall protect all work areas and facilities from water at all times. Areas and facilities subject to flooding, regardless of the source of water, shall be promptly dewatered and restored at no cost to the owner. This shall include removal of any debris caused by flooding. Any dewatering shall be done in accordance with Subsection 107.25
2. If discharges do not meet the above criteria a separate CDPS permit shall be obtained by the Contractor from the CDPHE. See standard special provision 250 Hazardous Waste and Contaminated Water.

I. ENVIRONMENTAL IMPACTS:

1. Wetland Impacts: NO
2. Stream Impacts: NO
3. Threatened and Endangered Species: No species are anticipated to be impacted by the project.

2. SITE MAP COMPONENTS:

All erosion and sediment control measures associated with the SWMP are presented on the Stormwater Management Plans. The Erosion Control Supervisor shall update the site map and drawings with current locations of the erosion and sediment control measures. The following information is to be provided in the site map updated by the Contractor:

- A. PROJECT CONSTRUCTION POTENTIAL SITE BOUNDARIES
 - B. ALL AREAS OF GROUND SURFACE DISTURBANCE
 - C. AREAS OF CUT AND FILL
 - D. LOCATION OF ALL STRUCTURAL BMPs IDENTIFIED IN THE SWMP
 - E. LOCATION OF NON-STRUCTURAL BMPs AS APPLICABLE IN THE SWMP
 - F. SPRINGS, STREAMS, WETLANDS AND OTHER SURFACE WATER
 - G. PROTECTION OF TREES, SHRUBS, CULTURAL RESOURCES AND MATURE VEGETATION
 - H. AREAS USED FOR STORING AND STOCKPILING OF MATERIALS, STAGING AREAS (field trailer, fueling, etc.) and BATCH PLANTS
- Revise Site Maps in accordance with CDPHE and Urban Drainage standards.

3. SWMP ADMINISTRATORS:

A. SWMP ADMINISTRATOR FOR DESIGN:

Chad Phillips, PE with RockSol Consulting Group

4. STORMWATER MANAGEMENT CONTROLS FIRST CONSTRUCTION ACTIVITIES

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

A. DESIGNATE A SWMP ADMINISTRATOR/EROSION CONTROL SUPERVISOR (To be filled out at time of construction; designate the individual(s) responsible for implementing, maintaining, and revising of the SWMP, including the title and contact information. The activities and responsibilities of the administrator shall address all aspects of the SWMP)

Name/Title:

Contact Information:

B. POTENTIAL POLLUTANT SOURCES

Evaluate, identify and describe all potential sources of pollutants at the site in accordance with subsection 107.25 and place in the SWMP notebook. All BMPs related to potential pollutants shall be shown on the SWMP site map by the contractor's ECS.

C. BEST MANAGEMENT PRACTICES (BMPs) FOR STORMWATER POLLUTION PREVENTION PHASED BMP IMPLEMENTATION

During Design: "BMP as Designed" boxes are marked when used in the SWMP. During construction: the ECS shall update the "In use on site" boxes to match which BMPs are currently in use on site. Clearly describe the relationship between the phases of construction and the implementation of BMP controls.

STRUCTURAL BMPs that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to:

APPLICATION, BMP	NARRATIVE	BMP AS DESIGNED	IN USE ON SITE	BMP PHASING		
				FIRST/INITIAL CONSTRUCTION ACTIVITIES	INTERIM CONSTRUCTION ACTIVITIES	FINAL STABILIZATION
PROTECTION OF EXISTING TREES/LANDSCAPING Fence (Plastic)	Fence (plastic) shall be used in areas indicated in the plans to protect mature trees and/or existing landscaping prior to start of construction disturbances.	X		X	X	
STOCKPILE PROTECTION Temporary berm, erosion logs, aggregate bags*	Placed within specified distance from toe to contain sediment around stockpile. *Aggregate bags are easily moved and replaced for access during the work day. Place prior to start of stock pile, increase control as stock pile increases size.				X	
TOE OF FILL PROTECTION Erosion logs, temporary berm, topsoil windrow*	Place prior to slope/embankment work to capture sediment and protect and delineate undisturbed areas. *Can be used to stockpile topsoil for salvage.			X	X	
PERIMETER CONTROL Erosion logs, temporary berm, topsoil windrow*	Placed prior to construction commencing to address potential run-on water from off site, and to divert around disturbed area	X		X	X	
SEDIMENT CONTROL/SLOPE CONTROL Erosion logs	Placed on the contour on a slope to contain and slow down construction runoff. Place prior to start of construction disturbances.			X	X	
TEMPORARY SEDIMENT TRAP (ECS shall add locations of BMPs to SWMP site maps)	Used to capture sediment laden runoff from disturbed areas < 5 acres during construction. Place prior to start of construction disturbances.			X	X	
EMBANKMENT PROTECTION OR TEMPORARY SLOPE DRAIN	Placed as a conduit or chute to drain runoff down slope and to prevent erosion of slope.				X	X
CONCRETE WASHOUT In-ground or fabricated	Construction control, used for waste management of concrete and concrete equipment cleaning. Place prior to start of concrete activities. Concrete Washout must be plastic lined or use Eco Pan with perimeter protection.	X		X	X	
VEHICLE TRACKING PAD	Source control, placed to prevent tracking of sediment from disturbed area to offsite surface. Place prior to start of construction disturbances. (Rock tracking pads will not be allowed. Mud mats, cattle guards, or other products as approved by the Engineer must be used.)	X		X	X	
SWEEPING	Source control, used to remove sediment tracked onto paved surfaces and to prevent from entering drainage system. Sweep daily and at the end of the construction shift as needed. Kick brooms shall not be allowed.	X		X	X	
OTHER						



Print Date: 10/26/2015

File Name: SW-401 - SWMP.DWG

Horiz. Scale: N/A Vert. Scale: N/A

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Ph: (303) 962-9300 Fax: (303) 962-9350

Sheet Revisions

Date:	Comments	Init.

As Constructed

No Revisions:

Revised:

Void:

49TH/BRANTNER/INDUSTRIAL

STORM WATER MANAGEMENT PLANS

Designer: C.PHILLIPS

Detailer: D.GONZALES

Sheet Subset: SWMP

Structure Numbers

Subset Sheets: 1 of 6

Project No./Code

PW 00302 /

Drawing Number SW-401

Sheet Number 15 of 41

NON-STRUCTURAL BMPs that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to:

APPLICATION, BMP/CONTROL MEASURE	NARRATIVE	BMP AS DESIGNED	IN USE ON SITE	BMP PHASING		
				FIRST/INITIAL CONSTRUCTION ACTIVITIES	INTERM CONSTRUCTION ACTIVITIES	FINAL STABILIZATION
VEGETATIVE BUFFER STRIP Fence (plastic)	Filter sediment laden runoff from disturbance area. Area to be identified for preservation prior to construction starting.			X	X	X
LANDFORM (ECS shall add locations to SWMP site maps)	Existing landforms may be used as a BMP if they prevent sediment from entering or leaving the disturbance area. If a landform directs flow of water to a concentrated outfall point, the outfall point shall be protected to prevent erosion.			X	X	
TOPSOIL MANAGEMENT STOCKPILE/SALVAGE Windrow or stockpile	Prior to embankment work commencing, existing topsoil shall be scraped to a depth of 4 inches, and placed in stockpiles or windrows. Upon completion of slope work/final grading (less 4 inches), topsoil shall be evenly distributed over embankment to a depth of 4 inches.			X	X	
SURFACE ROUGHENING / GRADING TECHNIQUES Blading, Backhoe, Dozing, Combination Loader	Temporary stabilization of disturbance and to minimize wind and erosion.				X	
SEEDING TEMPORARY	Temporary stabilization used for over wintering of disturbance or used to control erosion for areas scheduled for future construction.				X	
BONDED FIBER MATRIX/HYDRAULIC MULCH (Not to be used in areas of concentrated flows, i.e. ditch lines.)	To be used in combination with surface roughening for temporary stabilization of disturbed soils, when work is temporarily halted and as approved by the Engineer. May be used as surface cover for temporary topsoil stockpiles				X	
MULCH/MULCH TACKIFIER	Temporary or Final Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as temporary surface cover when work is temporarily halted and as approved by the Engineer	X			X	X
SPRAY-ON MULCH BLANKET (Not to be used in areas of concentrated flows, i.e. ditch lines.)	Temporary or Final Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as temporary surface cover when work is temporarily halted and as approved by the Engineer				X	X
SEEDING PERMANENT	Final Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.	X				X
SOIL RETENTION BLANKET (SRB)	Final Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas. Must be 100% biodegradable straw with cotton fiber.				X	X
TURF REINFORCEMENT MAT (TRM)	Final Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas. Placed in channels or on slopes for erosion control, channel liner and seeding establishment.	X			X	X
OTHER						

Erosion control devices are used to limit the amount of soil loss on site
Sediment control devices are designed to capture sediment on the project site.
Construction controls are BMPs related to construction access and staging.
BMP locations are indicated on the SWMP site map.

NARRATIVES

BMP details and narratives not covered by the SWMP or Standard Plan M-208-1 shall be added to the SWMP notebook by the ECS.

- D. OFFSITE DRAINAGE (RUN ON WATER)
 1. Describe and record BMPs on the SWMP site map that has been implemented to address off site run-on water in accordance with subsection 208.03.
- E. VEHICLE TRACKING PAD/VEHICLE TRACKING CONTROL
 1. BMPs shall be implemented in accordance with subsection 208.04. (Rock tracking pads will not be allowed. Mud mats, cattle guards, or other products as approved by the Engineer must be used.)
- F. PERIMETER CONTROL
 1. Perimeter control shall be established as the first item on the SWMP to prevent the potential for pollutants leaving the construction site boundaries, entering the stormwater drainage system, or discharging to state waters.
 2. Perimeter control may consist of vegetation buffers, berms, silt fence, erosion logs, existing landforms, or other BMPs as approved.
 3. Perimeter control shall be in accordance with subsection 208.04.

5. DURING CONSTRUCTION
RESPONSIBILITIES OF THE SWMP ADMINISTRATOR/TRANSPORTATION EROSION CONTROL SUPERVISOR DURING CONSTRUCTION
The SWMP should be considered a "living document" that is continuously reviewed and modified. During construction, the following items shall be added, updated, or amended as needed by the SWMP Administrator/Erosion Control Supervisor (ECS) in accordance with Section 208. During construction, indicate how items that have not been addressed during design are being handled in construction. If items are covered in the template or other sections of the SWMP notebook indicate below what section the discussion takes place.

- A. STOCKPILE MANAGEMENT - shall be done in accordance with subsection 107.25 and 208.07
- B. CONCRETE WASHOUT - Concrete wash out water or waste from field laboratories and paving equipment shall be contained in accordance with subsection 208.05.
- C. SAW CUTTING - shall be done in accordance with subsection 107.25, 208.04, 208.05
- D. STREET CLEANING - shall be done in accordance with subsection 208.04

6. INSPECTIONS

- A. Inspections shall be in accordance with subsection 208.03 (c).

7. BMP MAINTENANCE

- A. Maintenance shall be in accordance with subsection 208.04 (f).

8. RECORD KEEPING

- A. Records shall be kept in accordance with subsection 208.03 (c).

9. INTERIM AND FINAL STABILIZATION

- A. SEEDING PLAN

Soil preparation, soil conditioning or topsoil, seeding (native), mulching (weed free) and mulch tackifier will be required for an estimated 1.40 acres of area within the right-of-way limits which are not surfaced. The following types and rates shall be used:

Common Name (Variety)	Scientific Name	Growth Season	Growth Form	Seeds/Pound	Pounds PLS/Acre
Grasses					
Sand dropseed	Sporobolus cryptandrus	Warm	Bunch	5,298,000	0.3
Little bluestem	Schizachyrium scoparium	Warm	Sod	110,000	7.9
Alkali sacaton	Sporobolus airoides	Warm	Bunch	1,758,000	0.5
Slender wheatgrass	Elymus trachycaulus	Cool	Bunch	159,000	5.5
Inland saltgrass	Distichlis spicata	Warm	Sod	520,000	1
Total (Grasses)					15.2
Wildflowers					
Blanket flower	Gaillardia aristata	---	---	132,000	0.25
Prairie coneflower	Ratibida columnaris	---	---	1,230,000	0.2
Purple prairie clover	Petalostemum purpurea	---	---	210,000	0.2
Gayfeather	Liatris punctata	---	---	138,000	0.06
Flax	Linum lewisii	---	---	293,000	0.2
Penstemon	Penstemon strictus	---	---	592,000	0.2
Yarrow	Achillea millefolium	---	---	2,770,000	0.03
Total (Wildflowers)					1.14



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Sheet Revisions		
Date:	Comments	Init.



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No Revisions:	STORM WATER MANAGEMENT PLANS		PW 00302 /
Revised:	Designer: C.PHILLIPS	Structure Numbers	Drawing Number SW-402
Void:	Detailer: D.GONZALES	Sheet Subset: SWMP	Sheet Number 16 of 41
		Subset Sheets: 2 of 6	

B. SEEDING APPLICATION: Drill seed 0.25 inch to 0.5 inch into the soil. In small areas not accessible to a drill, hand broadcast at double the rate and rake 0.25 inch to 0.5 inch into the soil.

C. MULCHING APPLICATION: Apply a minimum of 2 tons of certified weed free straw per acre and in accordance with Section 213, and mechanically crimp it into the soil in combination with an organic mulch tackifier.

1. Prior to winter shutdown or seeding window: Uncompleted slopes shall be mulched with 2 tons of mulching (weed free) per acre, mechanically crimped into the topsoil in combination with an organic mulch tackifier per section 213.

D. SPECIAL REQUIREMENTS:

1. Due to high failure rates, hydroseeding will not be allowed.

E. SOIL CONDITIONING AND FERTILIZER REQUIREMENTS: [Minimum requirements for all disturbances to receive seeding (native). Compost is optional within areas above 8000 ft in elevation]

Soil conditioner paid for as Item 212- Soil Conditioning (Acre)		
Biological nutrient organic based fertilizer (lbs/acre)*	Humate (lbs/acre)	Compost (cy/acre) (1/2 inch depth)
600	200	65

*Biological nutrient shall not exceed 8-8-8 (N-P-K). Humate based material and compost shall be in accordance to Section 212.

F. SOIL RETENTION COVERING: On slopes and ditches requiring a blanket or turf reinforcement mat (trm), the blanket/trm shall be placed in lieu of mulch and mulch tackifier. See SWMP for blanket locations.

G. RESEEDING OPERATIONS/CORRECTIVE STABILIZATION

Prior to final acceptance.

1. Seeded areas shall be reviewed during the 14 day inspections by the Erosion Control Supervisor for bare soils caused by surface or wind erosion. Bare areas caused by surface or gully erosion, blown away mulch, etc. shall be re-graded, seeded, and have the designated mulching applied as necessary, at no additional cost to the project.
2. The Contractor shall maintain seeding/mulch/tackifier, mow to control weeds or apply herbicide to control weeds in the seeded areas until Final Acceptance.

10. PRIOR TO FINAL ACCEPTANCE

- A. Final Acceptance shall be in accordance with subsection 208.10 At the Partial Acceptance of the project, it shall be determined by the ECS and the Engineer which temporary BMP's shall remain until 70% reestablishment or which shall be removed.
- B. At the end of the project, all ditch checks shall either consist of temporary erosion logs or permanent rip-rap.
- C. All storm drains shall be cleaned prior to the end of the project.

11. TABULATION OF STORMWATER QUANTITIES

TABULATION OF STORMWATER QUANTITIES		
DESCRIPTION	PAY UNIT	QUANTITY
LABORER	HOURL	15
COMBINATION LOADER	HOURL	20
REMOVAL AND DISPOSAL OF SEDIMENT (LABOR)	HOURL	20
REMOVAL AND DISPOSAL OF SEDIMENT (EQUIPMENT)	HOURL	20
BLADING	HOURL	20
TOPSOIL	CY	753
EROSION LOG (12 INCH)	LF	3110
AGGREGATE BAG	LF	100
CONCRETE WASHOUT AREA	EACH	1
VEHICLE TRACKING PAD	EACH	3
SWEEPING (SEDIMENT REMOVAL)	HOURL	40
EROSION CONTROL SUPERVISOR	DAY	30
SEEDING (NATIVE)	ACRE	1.40
SOIL CONDITIONING	ACRE	1.40
MULCHING (WEED FREE HAY)	ACRE	0.70
MULCH TACKIFIER	LB	140
SOIL RETENTION BLANKET (STRAW/COCONUT) (BIODEGRADABLE CLASS I)	SY	3750
TURF REINFORCEMENT MAT (CLASS III)	SY	3750
FENCE (PLASTIC)	LF	3742

*It is anticipated that additional BMPs and BMP quantities not shown on the SWMP Site Maps shall be required on the project for unforeseen conditions and replacement of items that are beyond their useful service life, see subsection 208.03 and 208.04 (e). Quantities for all BMPs shown above are estimated, and have been increased for unforeseen Project conditions. Quantities shall be adjusted according to the conditions encountered in the field as directed and approved by the Engineer. Payment shall be for the actual work completed and material used.

A. BMP sediment removal and disposal shall be paid for as: 208 Removal and Disposal of Sediment (Equipment) and 208 Removal and Disposal of Sediment (Labor). All other BMP maintenance shall be included in the cost of the BMP Device.

B. It is estimated that 15 hours of labor, blading (145 horsepower), combination loader (145 horsepower) may be required for miscellaneous erosion control work as directed by the Engineer. Work shall be paid for as: 203 Labor, 203 Blading, 203 Combination Loader.

12. Additional BMP Information

- A. All BMP's per CDOT's latest version of the M&S Standards unless otherwise noted.
- B. Vehicle Tracking Pad - Rock tracking pads will not be allowed. Mud mats, cattle guards, or other products as approved by the Engineer must be used.



Plot Date: 7/26/2015 8:28 AM Printed By: Dan Tunillo
 Date Created: 7/22/15 Working Files: 3721 CITY OF EVANS BRANTNER RD:80 COMPUTER DESIGN FILES:92 CAD SHEET FILES:SW-403 - SWMP.DWG

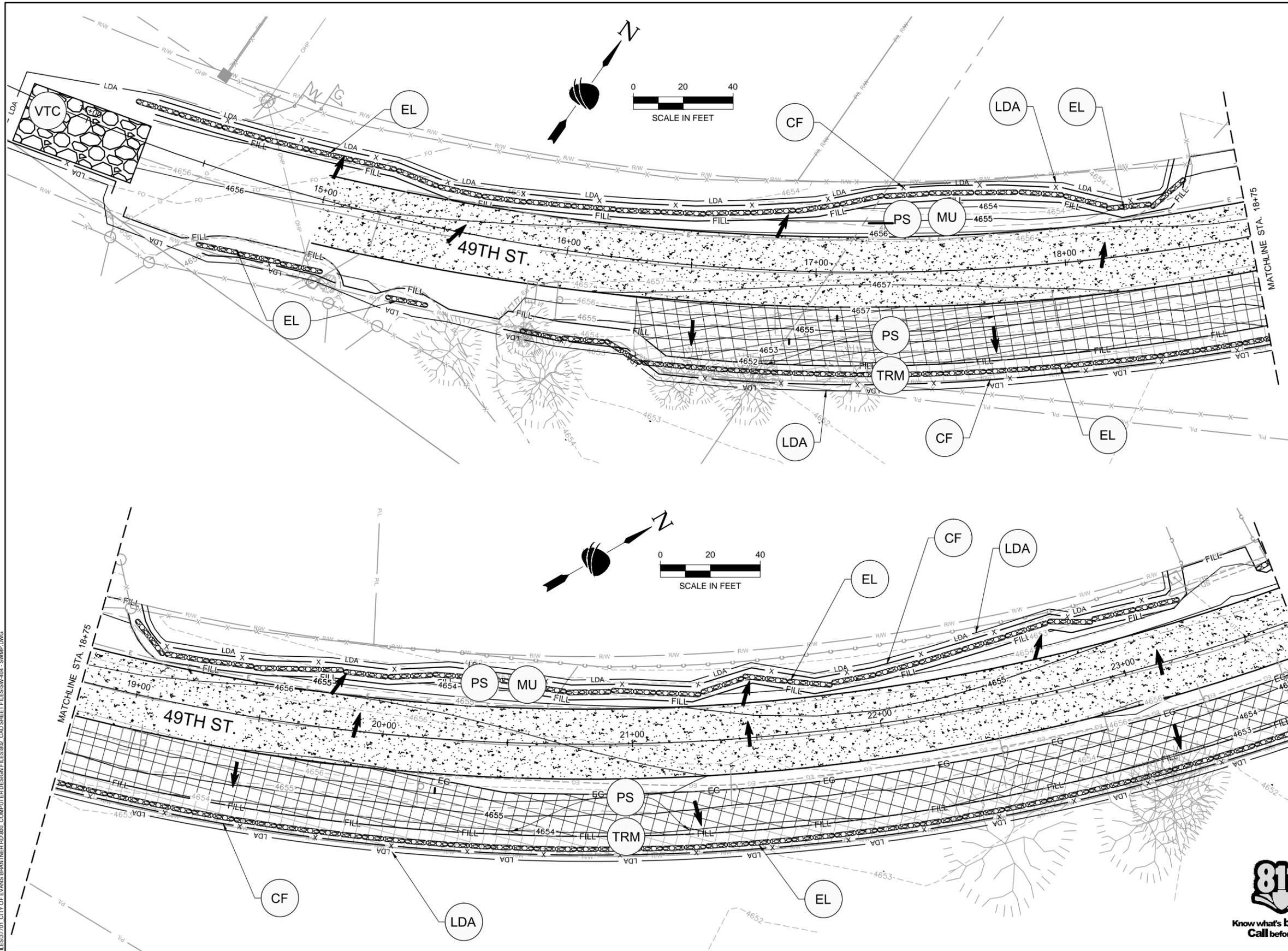
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Revised:	Designer: C.PHILLIPS	Structure Numbers	Drawing Number SW-403
Void:	Detailer: D.GONZALES	Sheet Subset: SWMP	Subset Sheets: 3 of 6
			Sheet Number 17 of 41



LEGEND:

TITLE	KEY	SYMBOL
CONCRETE WASHOUT AREA	CWA	
VEHICLE TRACKING CONTROL	VTC	
SILT FENCE	SF	
EROSION LOGS	EL	
CONSTRUCTION FENCE	CF	
MULCHING	MU	
PERMANENT SEEDING	PS	
STABILIZED STAGING AREA	SSA	
TURF REINFORCEMENT MAT (SEE DETAIL 'A' ON DT-601)	TRM	
LIMITS OF DISTURBANCE	LDA	
DRAINAGE FLOW PATTERN		

- NOTES:
1. THE LOCATION OF THE CONCRETE WASHOUT AREA IS TO BE DETERMINED BY THE CONTRACTOR. THE LOCATION MUST BE APPROVED BY THE CITY (OR REPRESENTATIVE) PRIOR TO INSTALLATION.
 2. THE LOCATION OF THE STABILIZED STAGING AREA IS TO BE DETERMINED BY THE CONTRACTOR. THE LOCATION MUST BE APPROVED BY THE CITY (OR REPRESENTATIVE) PRIOR TO INSTALLATION.
 3. PERMANENT SEEDING IS REQUIRED FOR ALL DISTURBED AREAS OUTSIDE OF THE ROADWAY.
 4. MULCHING WILL BE REQUIRED FOR ALL SEEDED AREAS NOT RECEIVING TURF REINFORCING MAT.



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 File Name: SW-404 - SWMP.DWG
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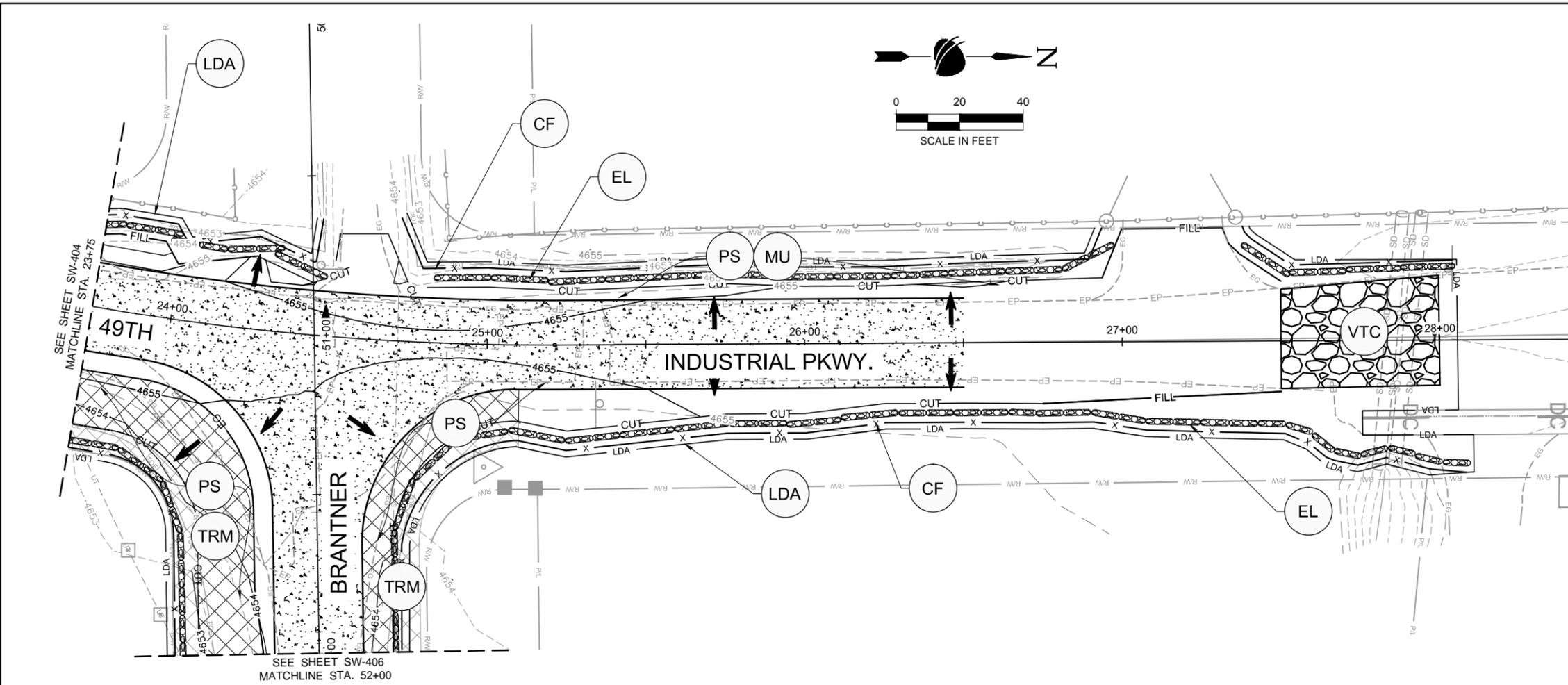
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Void:	Detailer: D.GONZALES	Subset Sheets: 4 of 6	Sheet Number 18 of 41

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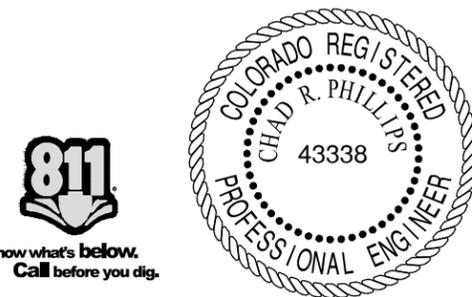


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TITLE	KEY	SYMBOL
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VEHICLE TRACKING CONTROL	VTC	
SILT FENCE	SF	
EROSION LOGS	EL	
CONSTRUCTION FENCE	CF	
MULCHING	MU	
PERMANENT SEEDING	PS	
STABILIZED STAGING AREA	SSA	
TURF REINFORCEMENT MAT (SEE DETAIL 'A' ON DT-601)	TRM	
LIMITS OF DISTURBANCE	LDA	
DRAINAGE FLOW PATTERN		

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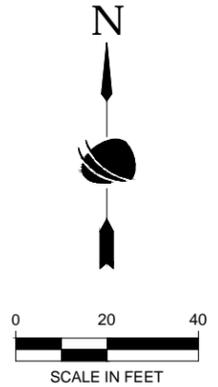
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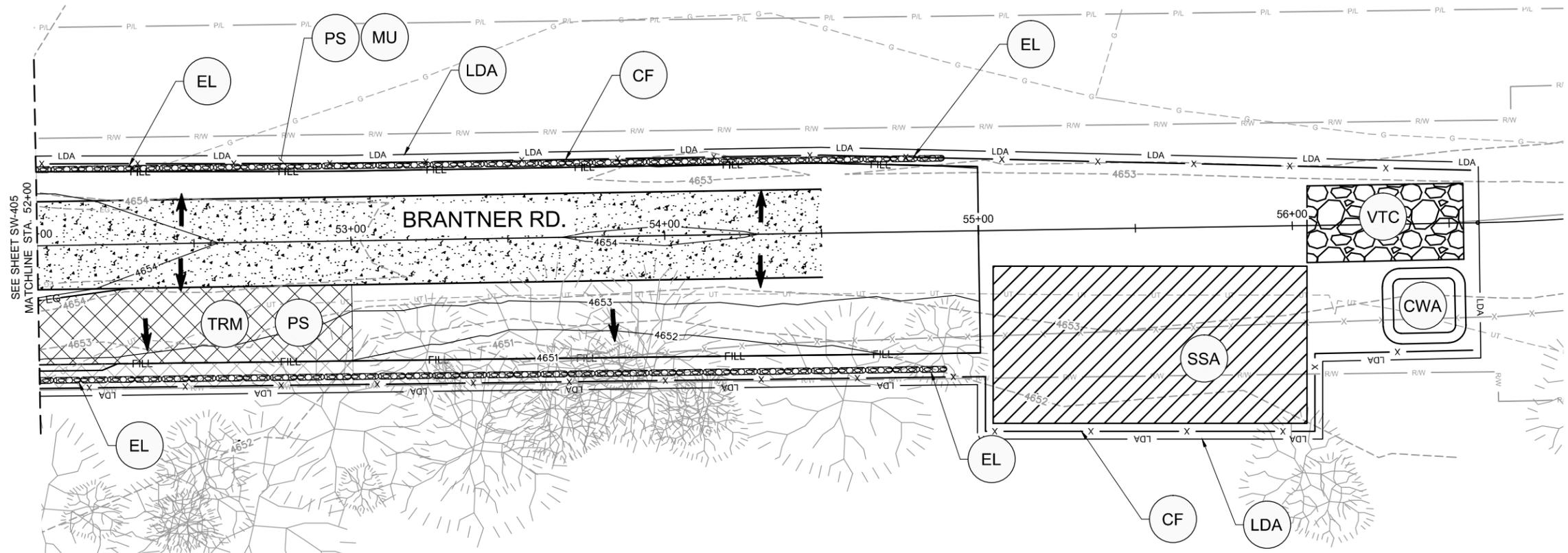


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Void:	Detailer: D.GONZALES	Sheet Subset: SWMP	Subset Sheets: 5 of 6
			Sheet Number 19 of 41



LEGEND:

TITLE	KEY	SYMBOL
CONCRETE WASHOUT AREA	CWA	
VEHICLE TRACKING CONTROL	VTC	
SILT FENCE	SF	
EROSION LOGS	EL	
CONSTRUCTION FENCE	CF	
MULCHING	MU	
PERMANENT SEEDING	PS	
STABILIZED STAGING AREA	SSA	
TURF REINFORCEMENT MAT (SEE DETAIL 'A' ON DT-601)	TRM	
LIMITS OF DISTURBANCE	LDA	
DRAINAGE FLOW PATTERN		



- NOTES:
1. THE LOCATION OF THE CONCRETE WASHOUT AREA IS TO BE DETERMINED BY THE CONTRACTOR. THE LOCATION MUST BE APPROVED BY THE CITY (OR REPRESENTATIVE) PRIOR TO INSTALLATION.
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 4. MULCHING WILL BE REQUIRED FOR ALL SEEDED AREAS NOT RECEIVING TURF REINFORCING MAT.



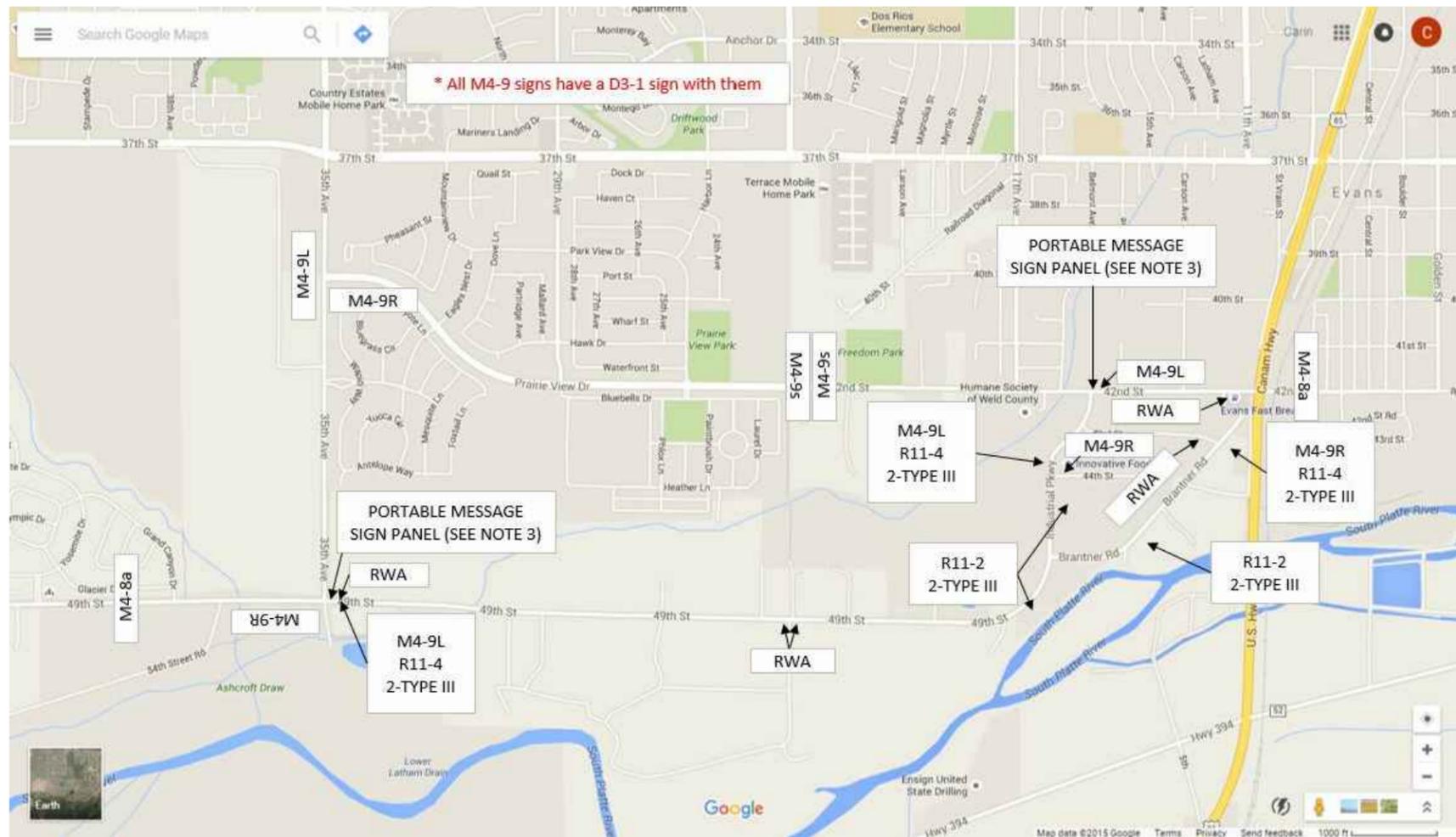
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Void:	Detailer: D.GONZALES	Sheet Subset: SWMP	Sheet Number 20 of 41
	Sheet Subset: SWMP	Subset Sheets: 6 of 6	



LEGEND

-  TYPE III BARRICADE
-  D3-1 (BLACK ON ORANGE)
-  M4-9R
-  D3-1 (BLACK ON ORANGE)
-  M4-9L
-  D3-1 (BLACK ON ORANGE)
-  M4-9L
-  M4-8A

- NOTES:
- TRAFFIC CONTROL DEVICES SHALL BE PER STANDARD DRAWINGS S-630-2.
 - THE CONTRACTOR MUST LEAVE SAFE INGRESS & EGRESS FOR LOCAL RESIDENTS AT ALL TIMES.
 - THE CONTRACTOR SHALL PROVIDE PORTABLE MESSAGE SIGN PANELS 7 DAYS IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES.



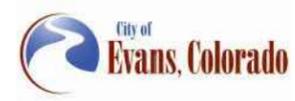
SCHEDULE OF CONSTRUCTION TRAFFIC CONTROL DEVICES						
SIGNS						
SIGN CODE	LEGEND	DIMENSIONS	PANEL SIZE			SPECIAL
			A	B	C	
D3-1	STREET NAME (BLACK ON ORANGE)		10			
M4-8a	END DETOUR	24" x 18"	2			
M4-9L	DETOUR (LEFT)	30" x 24"	4			
M4-9R	DETOUR (RIGHT)	30" x 24"	4			
M4-9s	DETOUR (STRAIGHT)	30" x 24"	2			
R11-2	ROAD CLOSED	48" x 30"		3		
R11-4	ROAD CLOSED TO THRU TRAFFIC	60" x 30"		3		
W20-1	ROAD WORK AHEAD	36" x 36"	5			
TOTALS			27	6		
OTHER DEVICES						
ITEM		UNITS	QUANTITY			
BARRICADE (TYPE 3 M-A)(TEMPORARY)		EACH	12			
FLAGGING		HOUR	100			
TRAFFIC CONTROL INSPECTION		DAY	10			
TRAFFIC CONTROL MANAGEMENT		DAY	30			
DRUM CHANNELIZING DEVICE		EACH	20			
DRUM CHANNELIZING DEVICE W/LIGHT FLASHING		EACH	20			
TRAFFIC CONE 36"		EACH	50			
PORTABLE MESSAGE SIGN PANEL		EACH	2			

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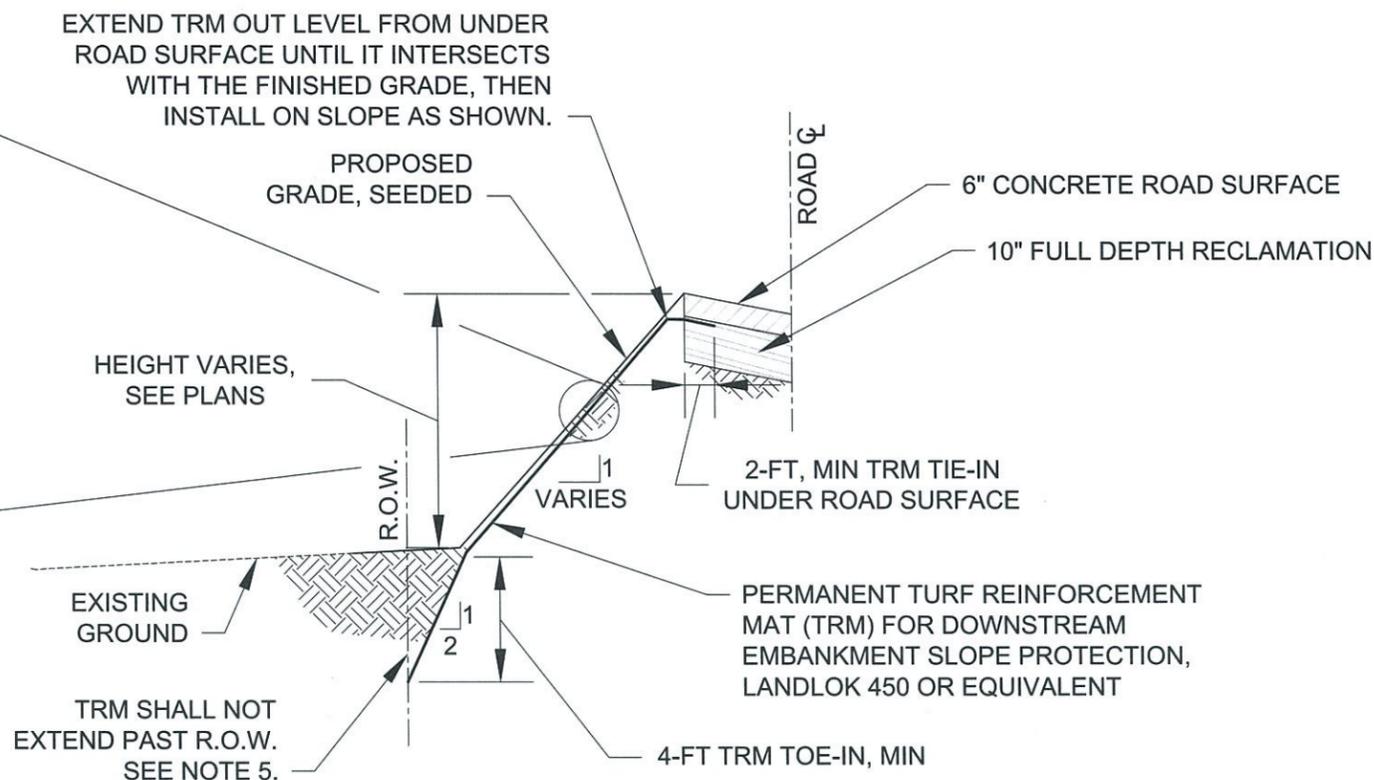
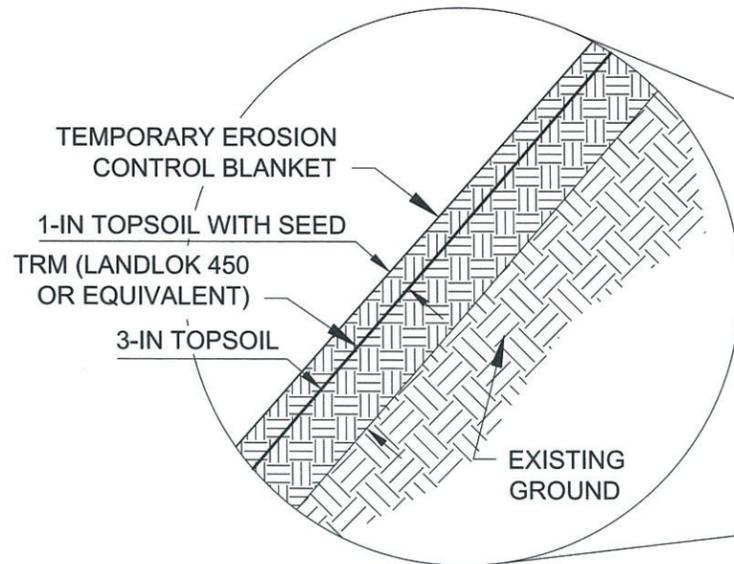


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Void:	Detailer: D.GONZALES	Sheet Subset: DETOUR	Sheet Number 21 of 41
		Subset Sheets: 1 of 1	





- NOTES:
- TOE-IN SLOPE SHOULD NOT BE STEEPER THAN 2:1 (H:V).
 - EMBANKMENT SIDE SLOPE VARIES, SEE PLANS. NO STEEPER THAN 3:1 IN ANY LOCATION EXCEPT FOR TOE-IN.
 - TRM WILL BE ANCHORED PER MANUFACTURERS RECOMMENDATIONS.
 - TYPICAL SECTION APPLICABLE FOR ALL TRM AREAS.
 - THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF EVANS AT LEAST ONE WEEK IN ADVANCE OF ANY WORK WITHIN THE CITY OF EVANS RIGHT-OF-WAY.
 - THE CONTRACTOR SHALL FIELD VERIFY EXISTING UTILITIES PRIOR TO THE INSTALLATION OF THE TURF REINFORCEMENT MAT (TRM) AND SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO INSTALLATION.

A TURF REINFORCEMENT MAT
SCALE: NTS

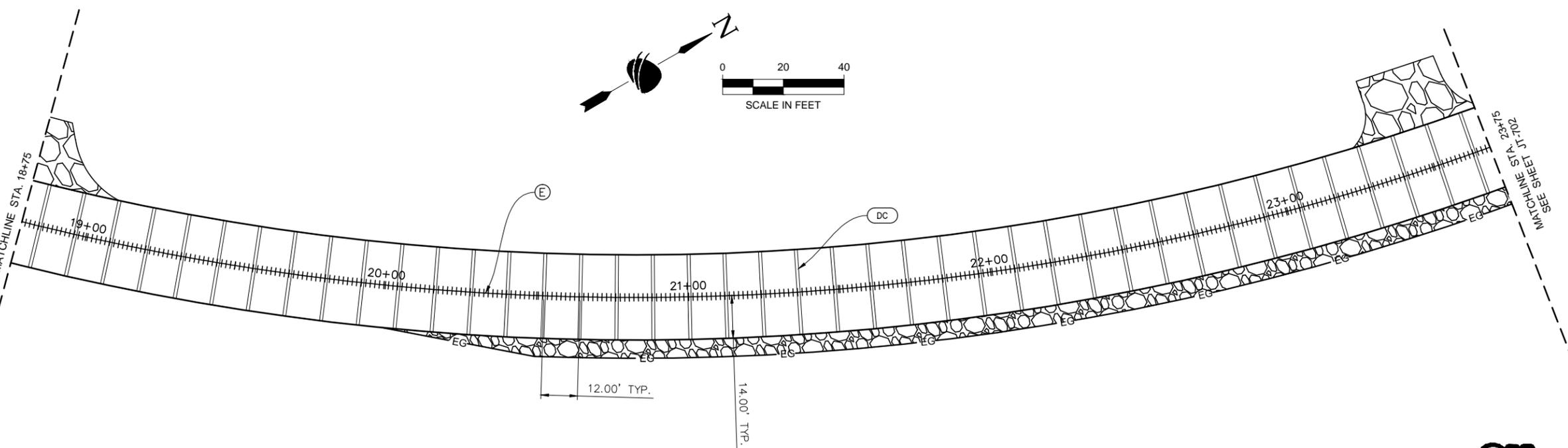
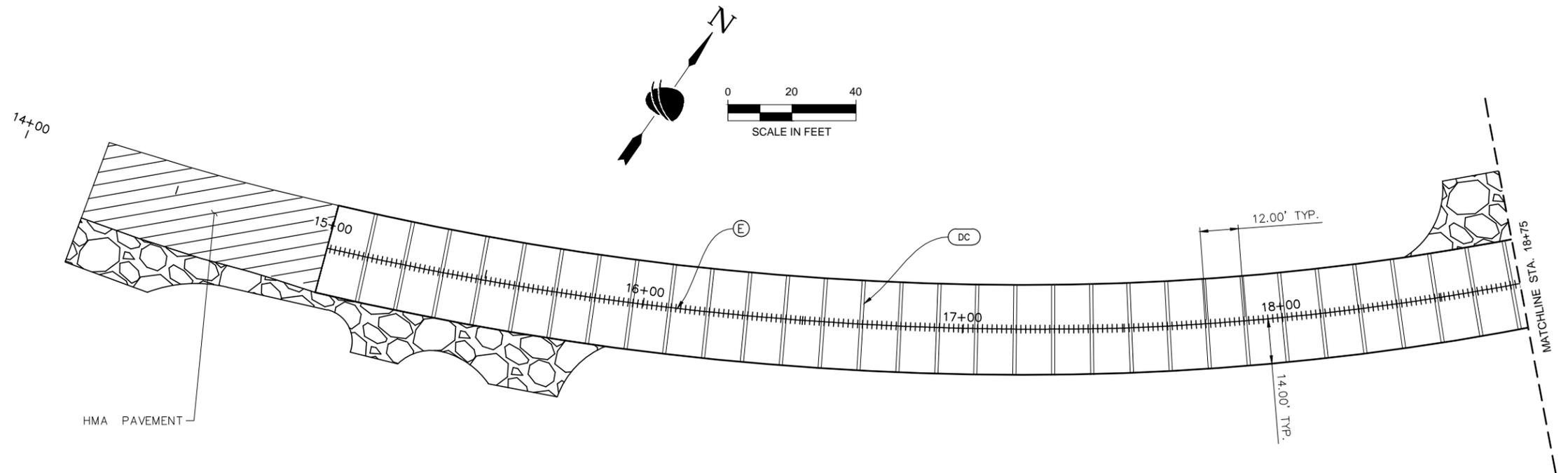


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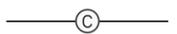
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		Sheet Number 22 of 40

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 Date Created: 5/4/2016 R:\WORKING FILES\37701 - CITY OF EVANS BRANTNER RD\900 - COMPUTER DESIGN FILES\902 - CAD SHEET FILES\DT-601 - DETAILS.DWG



JOINT LEGEND:

- EXPANSION JOINT 
- TRANSVERSE CONTRACTION 
- LONGITUDINAL CONTRACTION 
- DOWELED TRANSVERSE CONTRACTION 
- LONGITUDINAL CONSTRUCTION OR LONGITUDINAL CONTRACTION 
- TRANSVERSE CONSTRUCTION 

NOTES:

1. THE JOINTING PLAN SHOWN ON DRAWINGS JT-701 THRU JT-703 ARE FOR INFORMATION ONLY. THE CONTRACTOR SHALL SUBMIT A JOINTING PLAN TO THE ENGINEER FOR APPROVAL. THE JOINTING PLAN SHALL BE SUBMITTED 2 WEEKS IN ADVANCE OF PLACING CONCRETE PAVEMENT.
2. JOINTING PLANS SHALL FOLLOW THE LATEST CDOT M&S PLANS FOR CONCRETE PAVEMENT JOINTS.

Plot Date: 10/26/2015 11:22 AM Plotted By: Dan Tuttle
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File Name: JT-701 - CONCRETE JOINTING.DWG
Horiz. Scale: N/A Vert. Scale: N/A
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Sheet Revisions		
Date:	Comments	Init.



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Void:

49TH/BRANTNER/INDUSTRIAL CONCRETE JOINTING PLAN	
Designer: D.TUTTLE	Structure Numbers
Detailer: D.GONZALES	
Sheet Subset: JOINTING	Subset Sheets: 1 of 3

Project No./Code
PW 00302 /
Drawing Number JT-701
Sheet Number 23 of 41

TABULATION OF SIGNS													
SIGN NO.	STATION	SIDE	SIGN CODE	LEGEND	DIMENSIONS			NO. OF SIGNS EACH	SIGN PANEL			STEEL SIGN POST (U-2 POST) LF	TIMBER SIGN POST (6" x 6") LF
					W"	x	H"		CLASS I	CLASS II	CLASS III		
					INCH		INCH		SF	SF	SF		
3	15+00 to 22+00	RIGHT	W1-8(L)	CHEVRON ALIGNMENT	18	x	24	8	24			96	
4	15+00 to 22+00	RIGHT	W1-8(R)	CHEVRON ALIGNMENT	18	x	24	8	24				
5	51+38	LEFT	R1-1	STOP	30	x	30	1	6.25			24	
6	23+25	RIGHT	W2-4	INTERSECTION WARNING	30	x	30	2	12.5			12	
7	24+46	LEFT	W1-7	TWO-DIRECTION LARGE ARROW	48	x	24	1		8			14
TOTAL								20	66.75	8		132	14

TABULATION OF PAVEMENT MARKINGS			
LOCATION	DESCRIPTION	EPOXY PAVEMENT MARKING (LF)	
		LANE	EDGE
49TH ST/INDUSTRIAL PKWY.		DOUBLE YELLOW SOLID	WHITE SOLID
STA 14+25.00 to STA 27+50.00	LEFT		1325
STA 14+25.00 to STA 24+33.00	RIGHT		1008
STA 24+57.00 to STA 27+50.00	RIGHT		293
STA 14+25.00 to STA 23+93.14	CENTER	968	
STA 25+09.13 to STA 27+50.00	CENTER	241	
BRANTNER RD.			
STA 51+50.00 to STA 55+00.00	LEFT/RIGHT		700
STA 51+29.79 to STA 55+00.00	CENTER	370	
TOTAL (LF)		3158	3326
TOTAL (SF)		1053	1109
TOTAL (GAL)*		11	12

* 95 SF/GAL USED FOR EPOXY PAINT

TABULATION OF DELINEATORS						
STATION	SIDE (LT/RT)	SPACING (FEET)	DELINEATOR COLOR		DELINEATOR (TYPE 1) (EACH)	COMMENTS
			LT	RT		
14+75	LT/RT		CRYSTAL	CRYSTAL	2	
15+43.72	RT			CRYSTAL	1	AVOID CONFLICT WITH DRIVEWAY
15+50	LT		CRYSTAL		1	
16+50 to 21+50	LT/RT	100	CRYSTAL	CRYSTAL	12	DELINEATOR AT STA. 18+50 LT SHALL BE MOVED TO STA. 18+26.89 TO AVOID CONFLICT WITH DRIVEWAY
22+50	LT		CRYSTAL		1	
22+60	RT			CRYSTAL	1	
23+50	RT			CRYSTAL	1	
23+80	LT		CRYSTAL		1	
23+93 to 24+38	RT	20		CRYSTAL	4	PC TO PT ON CURVE
24+65 to 25+09	RT	20		CRYSTAL	4	PC TO PT ON CURVE
24+93	LT		CRYSTAL		1	
25+50 to 27+50	LT/RT	100	CRYSTAL	CRYSTAL	6	TANGENT (INDUSTRIAL PKWY)
52+00 to 55+00	LT/RT	100	CRYSTAL	CRYSTAL	8	TANGENT (BRANTNER RD)
TOTAL					43	

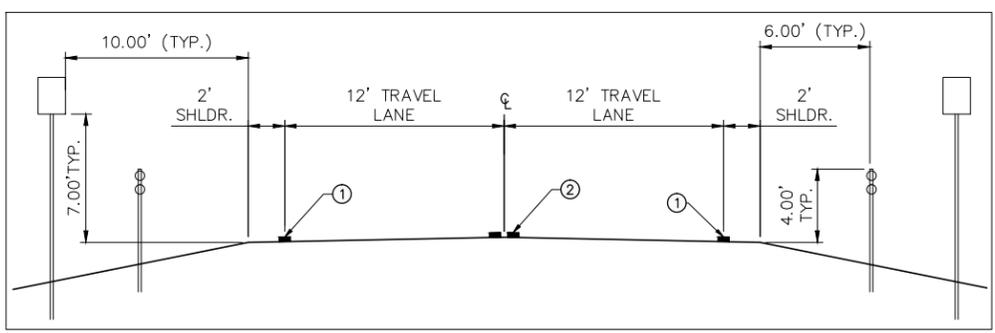
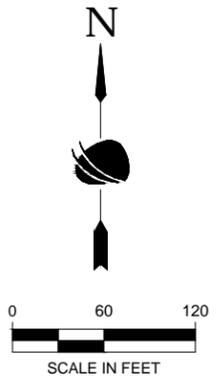
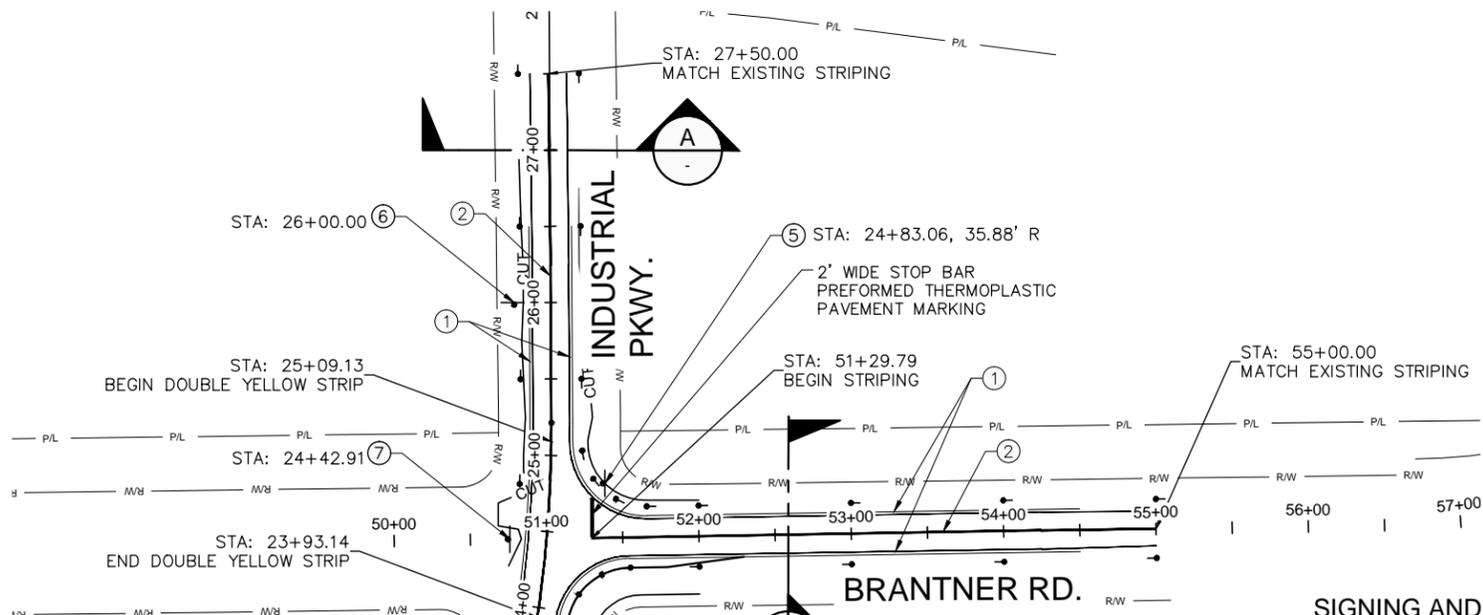
TABULATION OF THERMOPLASTIC PAVEMENT MARKINGS		
LOCATION	DESCRIPTION	PREFORMED THERMOPLASTIC PAVEMENT MARKING (XWALK - STOP LINE) (SF)
BRANTNER RD.		
STA 51+29.79 LEFT	STOP BAR	50



Plot Date: 7/15/2015 11:26 AM Plotted By: Dan Tuttle
 File Name: SN-801- SIGNING & STRIPING.DWG
 Horiz. Scale: N/A Vert. Scale: N/A
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File Name: SN-801- SIGNING & STRIPING.DWG	Date:	Comments	Init.	No Revisions:			PW 00302 /
Horiz. Scale: N/A Vert. Scale: N/A				Revised:	Designer: D.TUTTLE	Structure Numbers	Drawing Number SN-801
				Void:	Detailer: D.GONZALES		Sheet Number 26 of 41
					Sheet Subset: SIGNING & STRIPING	Subset Sheets: 1 of 2	





A TYPICAL STRIPING SECTION
SCALE: NTS

SEE DELINEATOR TABULATION ON DRAWING SN-801 FOR DELINEATOR STATIONING AND SPACING. ALL DELINEATOR OFFSETS SHALL BE 6 LF FROM EDGE OF PAVEMENT UNLESS OTHERWISE NOTED ON THE PLANS.

LEGEND:

- DELINEATOR (TYPE I)
- PROPOSED SIGN
- PROPOSED SIGN (DOUBLE SIDED PLAQUE)
- ① WHITE EDGE LINE - 4 INCH
- ② 2 - 4" DOUBLE YELLOW CENTER LINES
- ③ CHEVRON ALIGNMENT (LEFT)
W1-8 (L)
18" x 24"
- ④ CHEVRON ALIGNMENT (RIGHT)
W1-8 (R)
18" x 24"
- ⑤ STOP (R1-1)
30" x 30"
- ⑥ INTERSECTION WARNING (W2-4)
30" x 30"
- ⑦ TWO-DIRECTION LARGE ARROW (W1-7)
48" x 24"

SIGNING AND STRIPING NOTES:

1. THE CONTRACTOR SHALL ENSURE THAT ALL SIGNING AND STRIPING FOLLOWS THE LATEST VERSION OF THE MUTCD AND CITY OF EVANS STANDARDS. THE CONTRACTOR SHALL VERIFY THE SIGNING AND STRIPING PLANS WITH THE CITY ENGINEER PRIOR TO PLACEMENT.
2. ALL PAVEMENT STRIPING SHALL BE EPOXY PAINT.
3. EPOXY PAINT QUANTITIES WERE OBTAINED BY USING 95 SF/GAL.
4. ALL QUANTITIES ARE BASED ON FINAL STRIPING AS SHOWN ON PLAN.
5. THE CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITIES PRIOR TO PLACING SIGN POSTS.



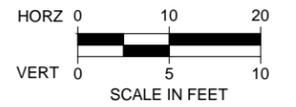
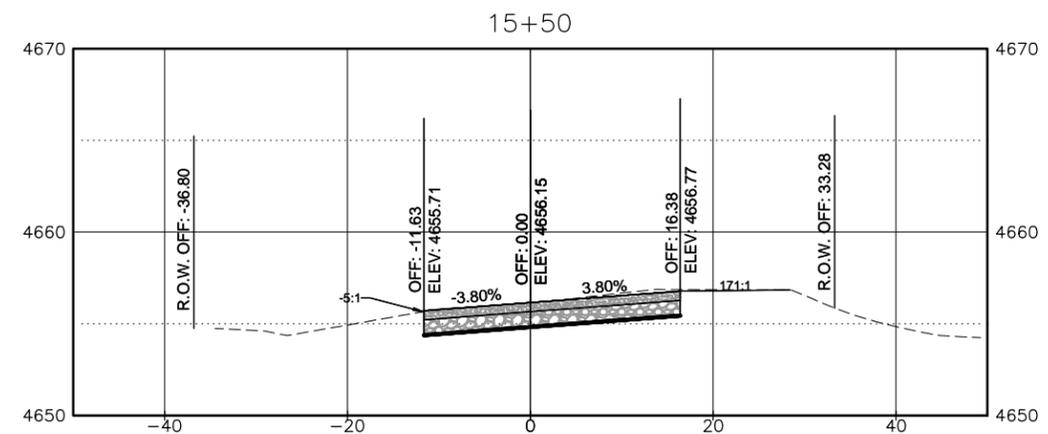
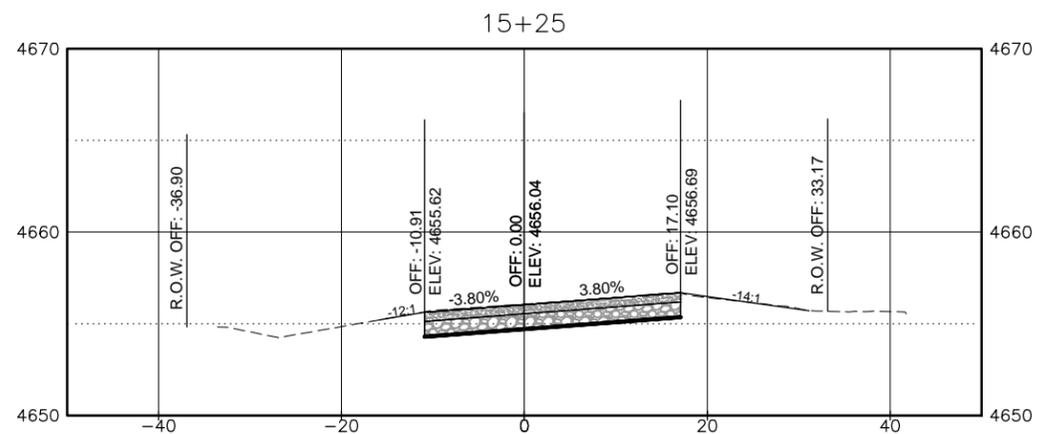
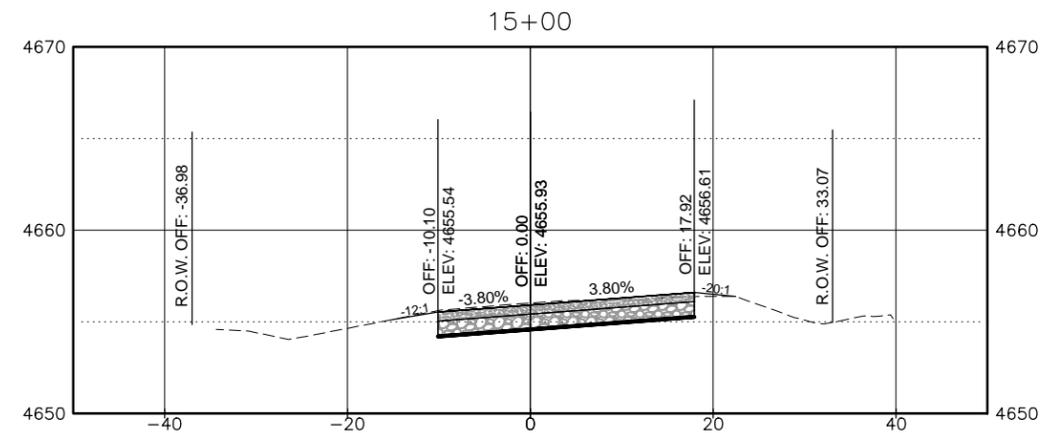
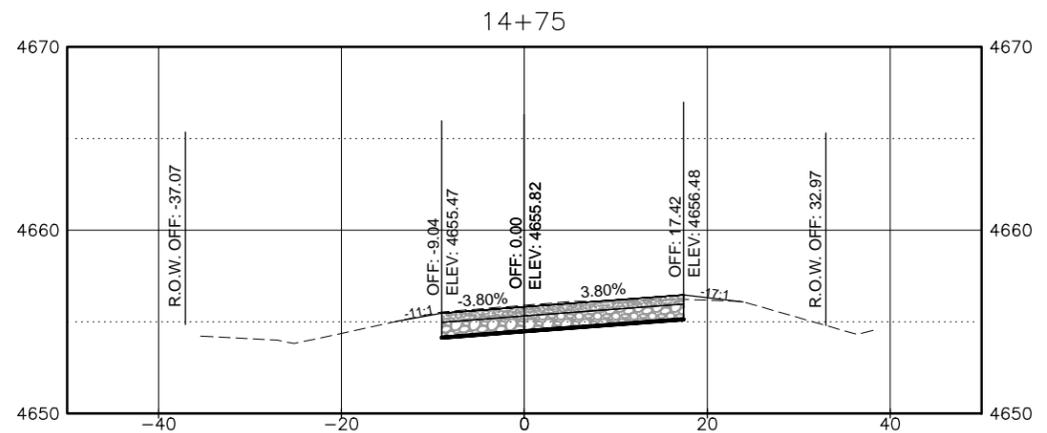
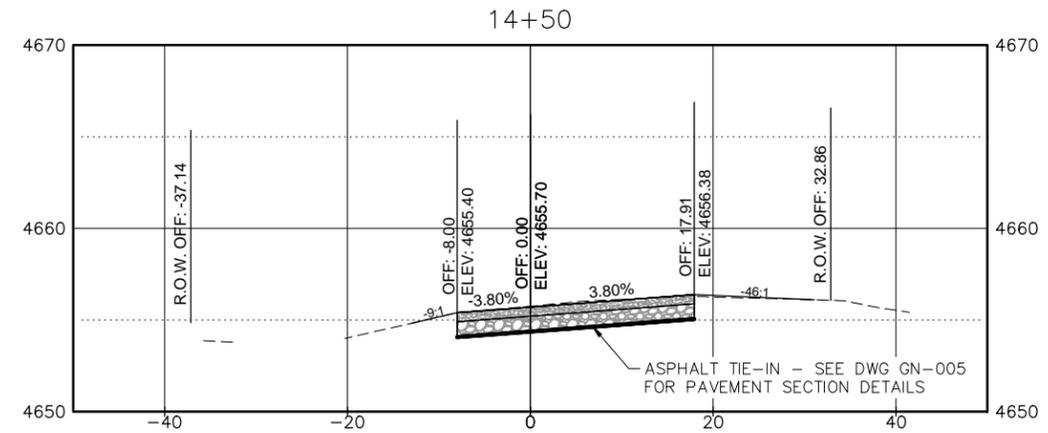
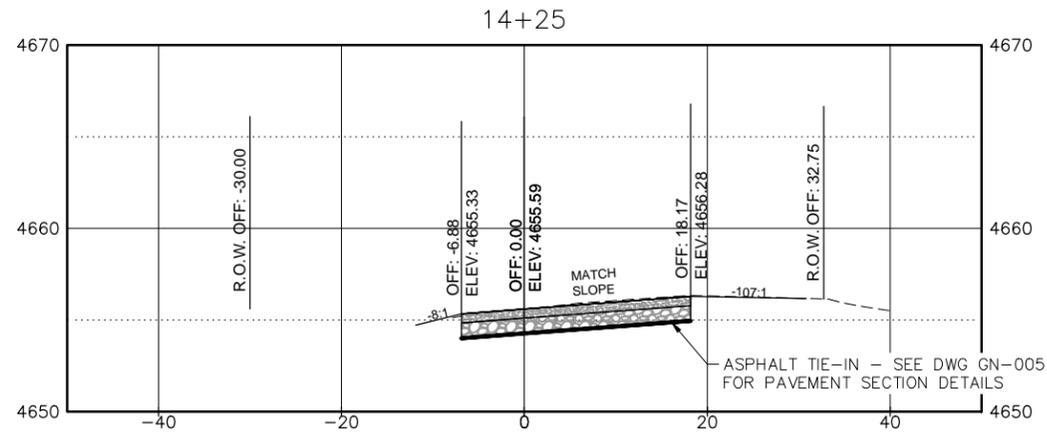
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Sheet Revisions		
Date:	Comments	Init.



As Constructed	49TH/BRANTNER/INDUSTRIAL		Project No./Code
No Revisions:	SIGNING & STRIPING		PW 00302 /
Revised:	Designer: D.TUTTLE	Structure Numbers	Drawing Number SN-802
Void:	Detailer: D.GONZALES	Sheet Subset: SIGNING & STRIPING	Sheet Number 27 of 41
		Subset Sheets: 2 of 2	

Plot Date: 10/26/2015 11:28 AM Plotted By: Dan Tuttle
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Print Date: 10/26/2015	
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Horiz. Scale: N/A	Vert. Scale: N/A
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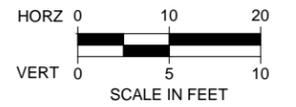
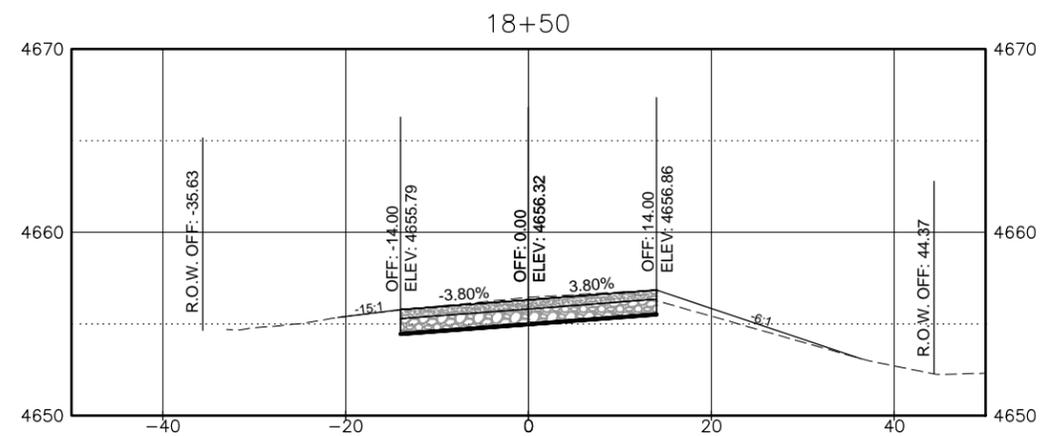
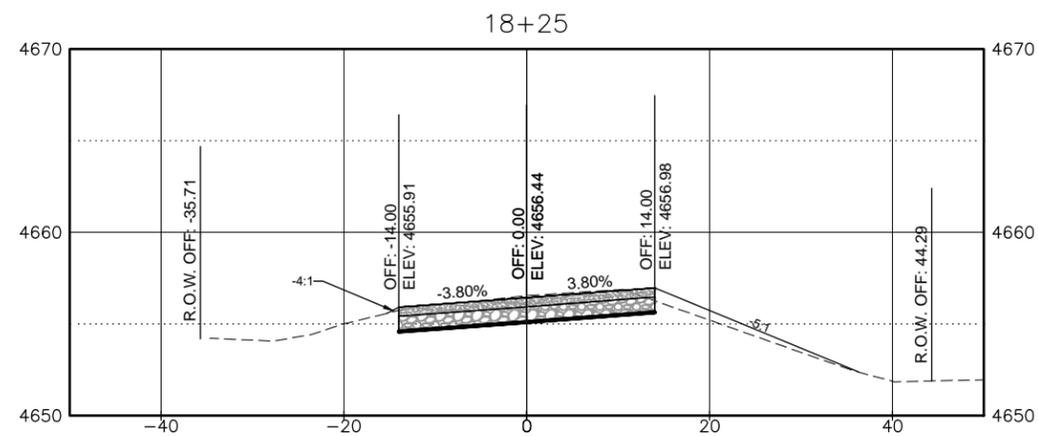
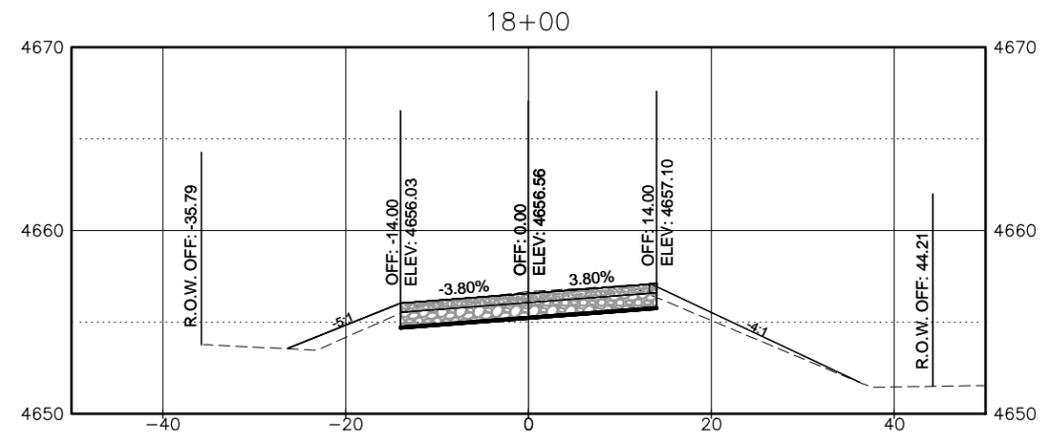
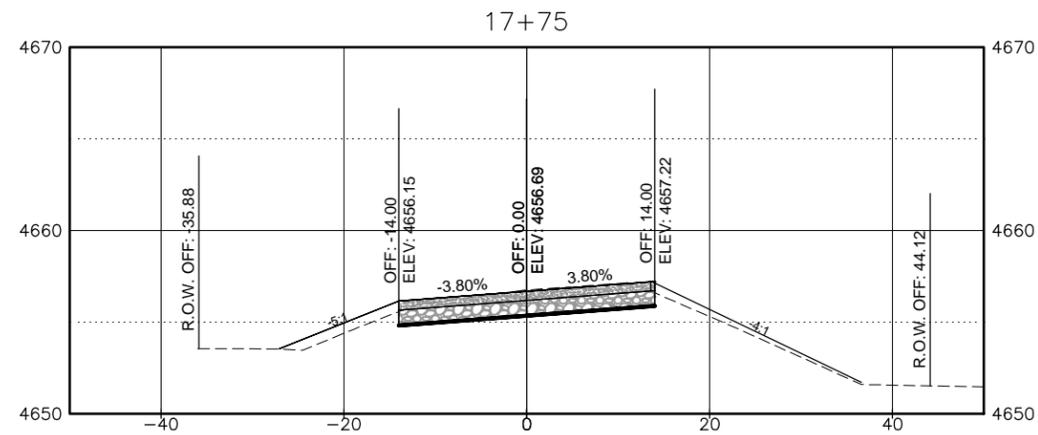
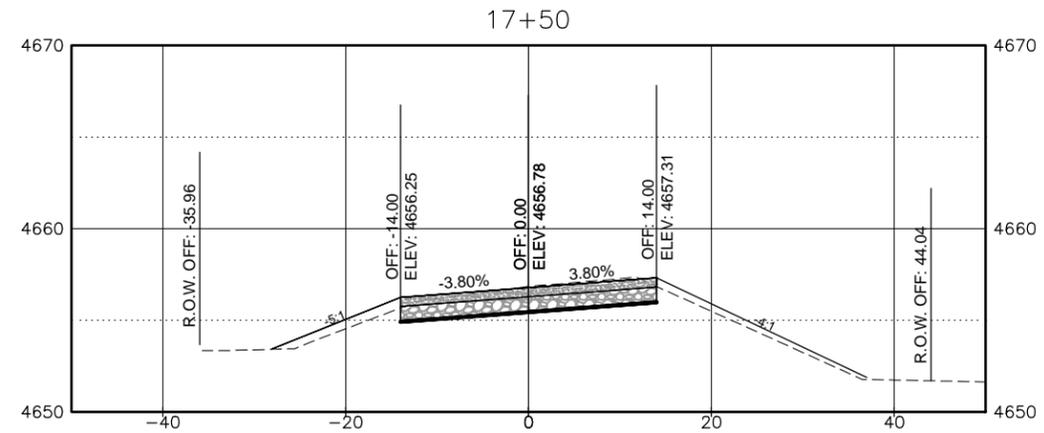
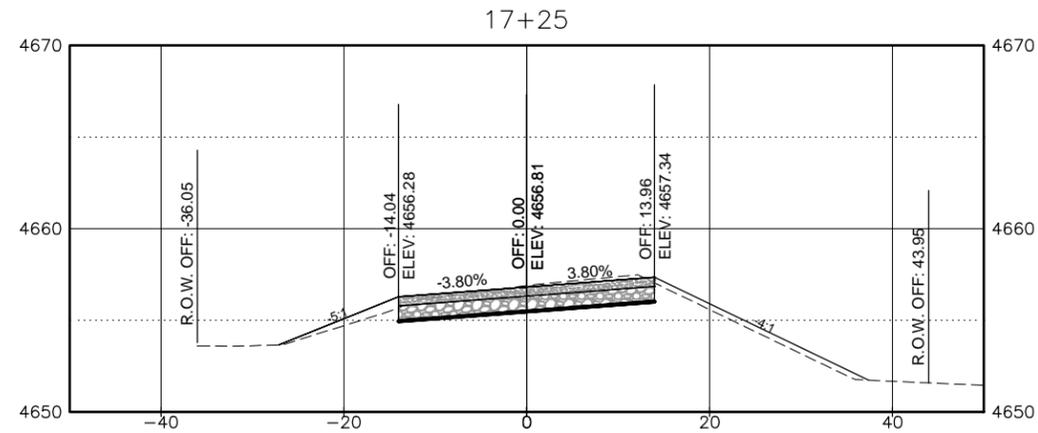
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Date:	Comments	Init.



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No Revisions:
Revised:
Void:

49TH/BRANTNER/INDUSTRIAL CROSS SECTIONS	
Designer: D.TUTTLE	Structure Numbers
Detailer: D.GONZALES	
Sheet Subset: SECTIONS	Subset Sheets: 1 of 13

Project No./Code	PW 00302 /
Drawing Number	XS-901
Sheet Number	28 of 41



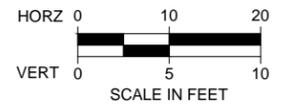
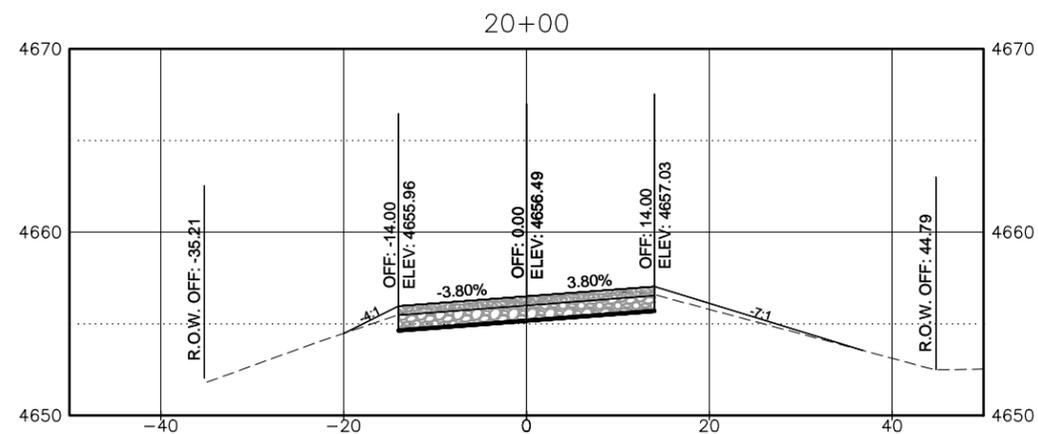
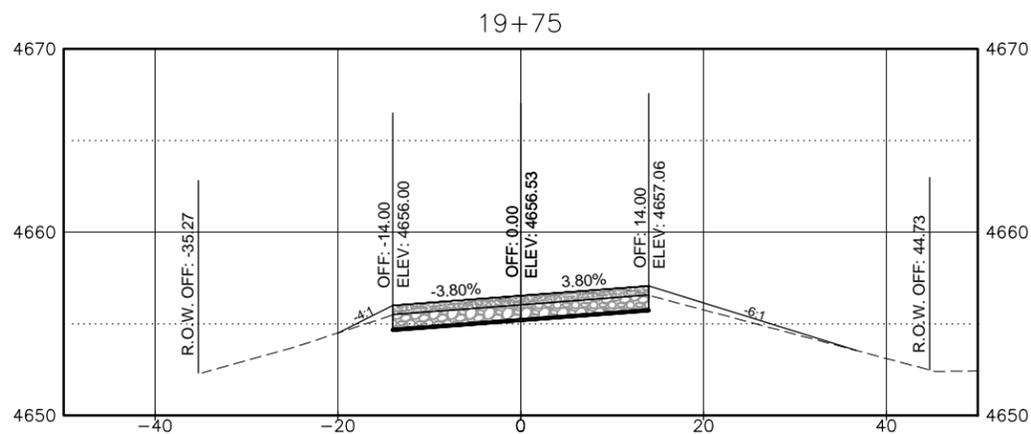
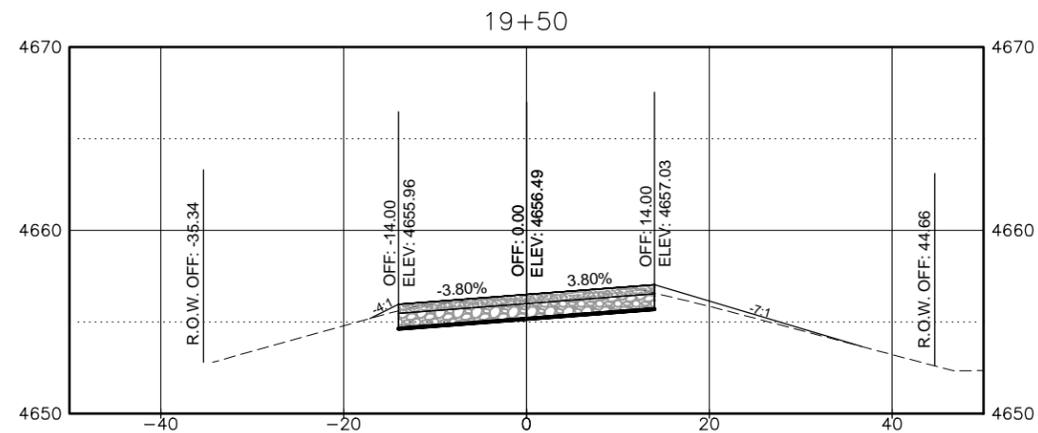
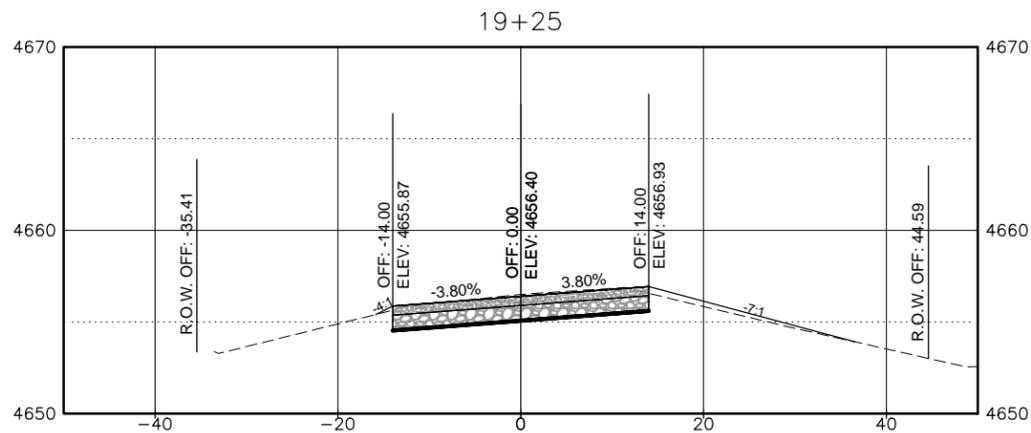
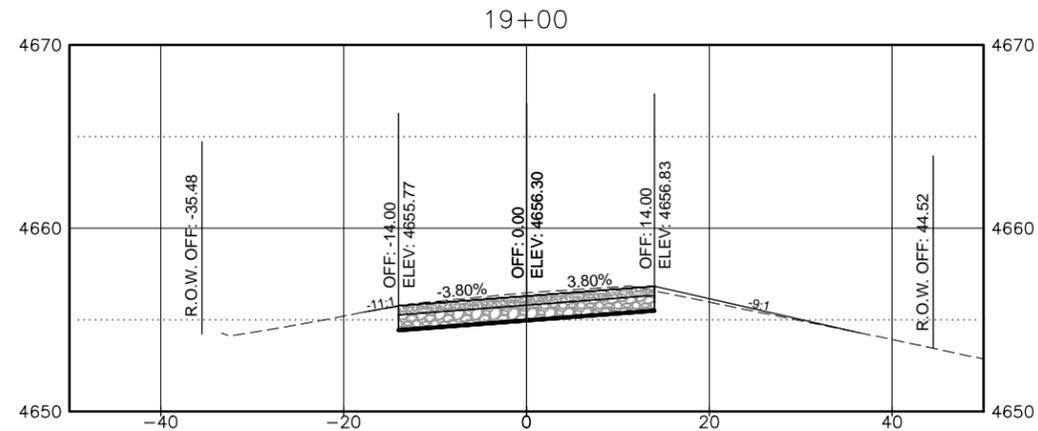
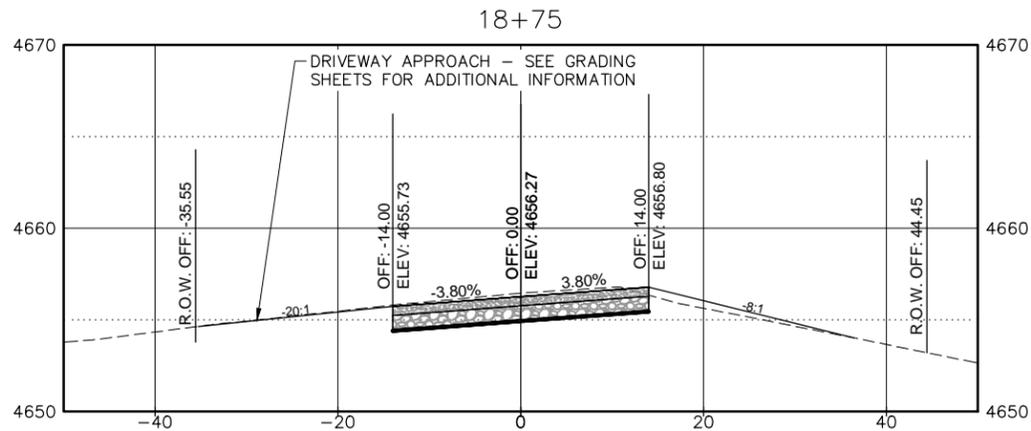
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Print Date: 10/26/2015	
File Name: XS-90X - CROSS SECTIONS.DWG	
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No Revisions:	CROSS SECTIONS		PW 00302 /
Revised:	Designer: D.TUTTLE	Structure Numbers	Drawing Number XS-903
Void:	Detailer: D.GONZALES	Sheet Subset: SECTIONS	Sheet Number 30 of 41
	Sheet Subset: SECTIONS	Subset Sheets: 3 of 13	



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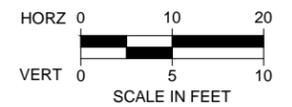
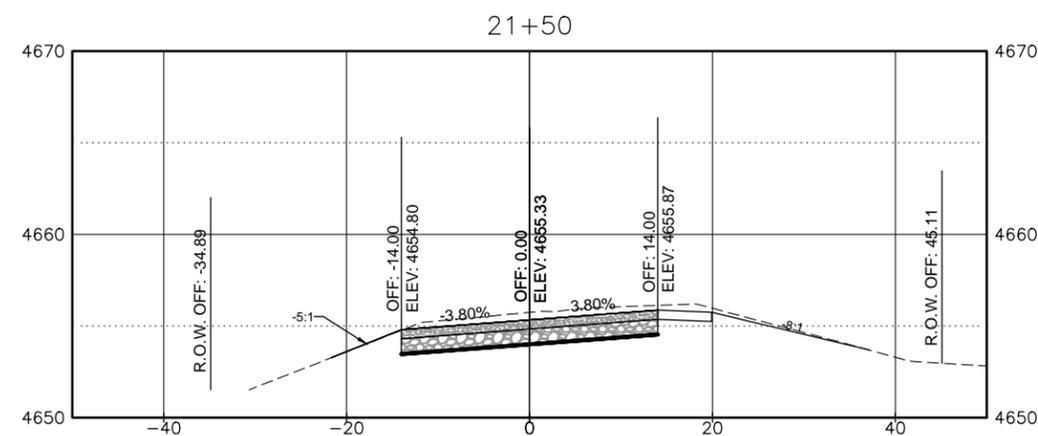
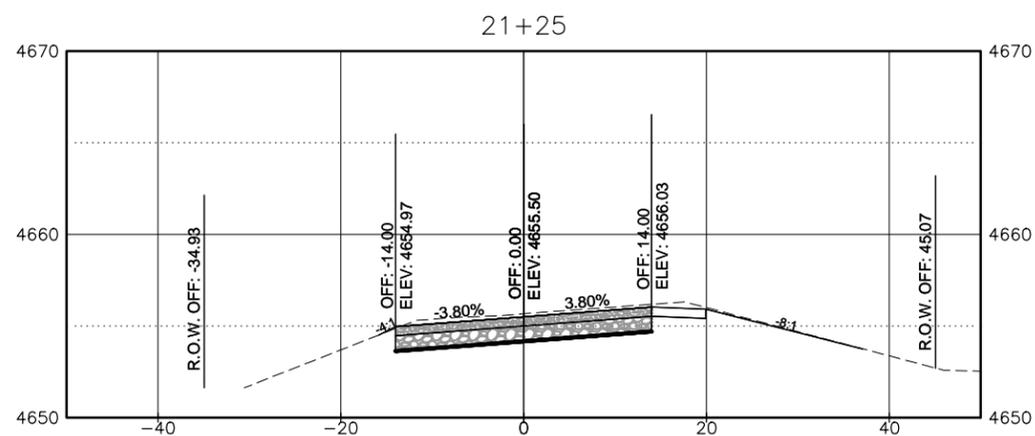
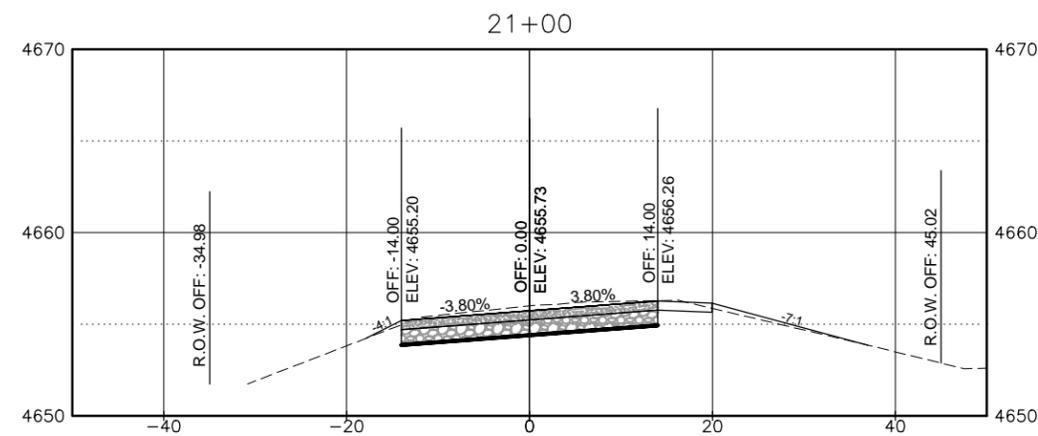
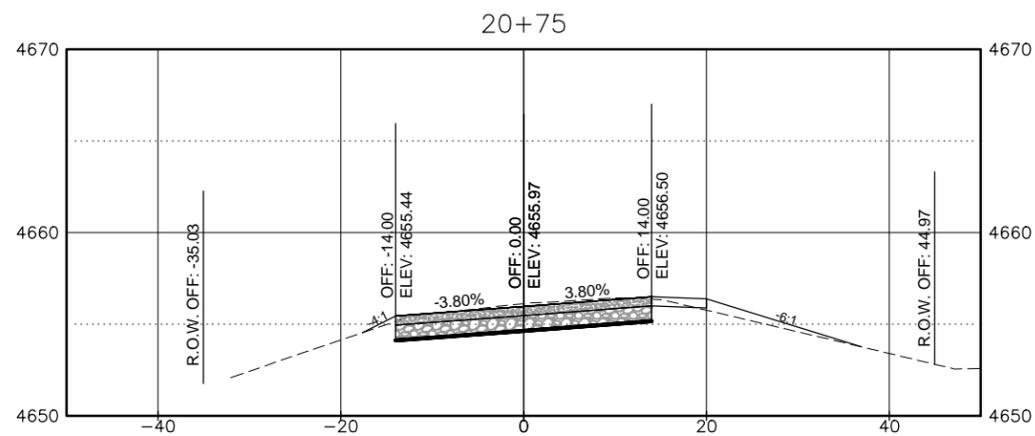
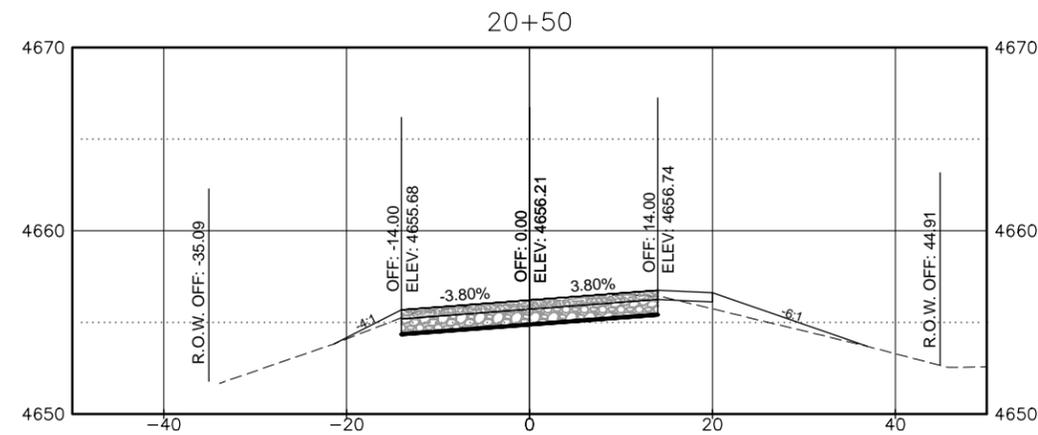
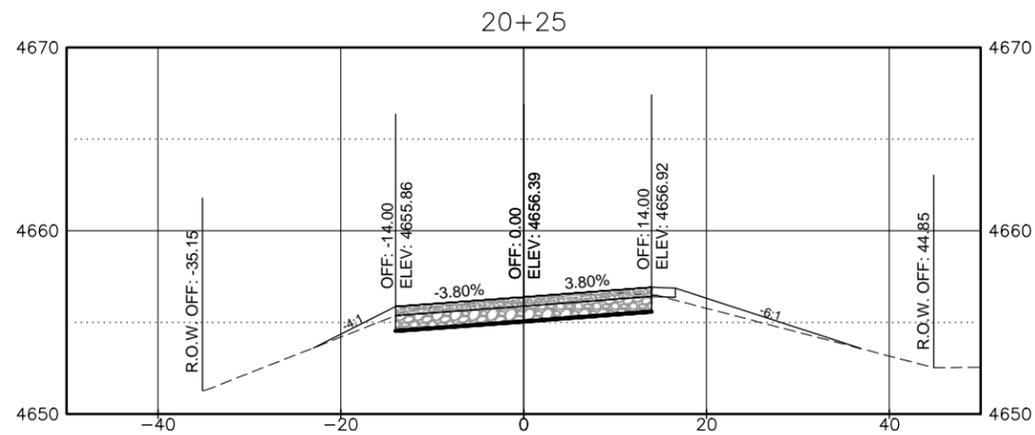


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49TH/BRANTNER/INDUSTRIAL	
CROSS SECTIONS	
Designer: D.TUTTLE	Structure Numbers
Detailer: D.GONZALES	
Sheet Subset: SECTIONS	Subset Sheets: 4 of 13

Project No./Code
PW 00302 /
Drawing Number XS-904
Sheet Number 31 of 41

Plot Date: 10/26/2015 11:31 AM Plotted By: Dan Tuttle
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Sheet Revisions

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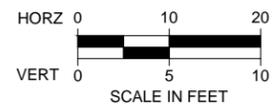
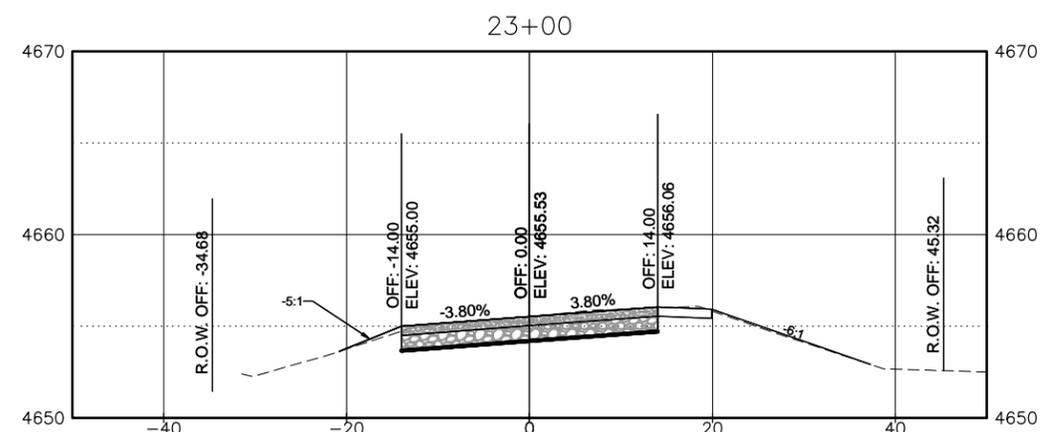
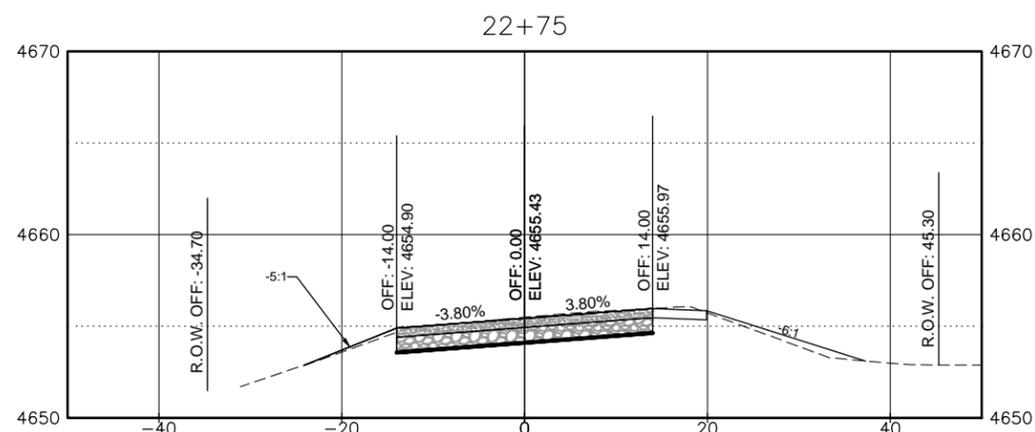
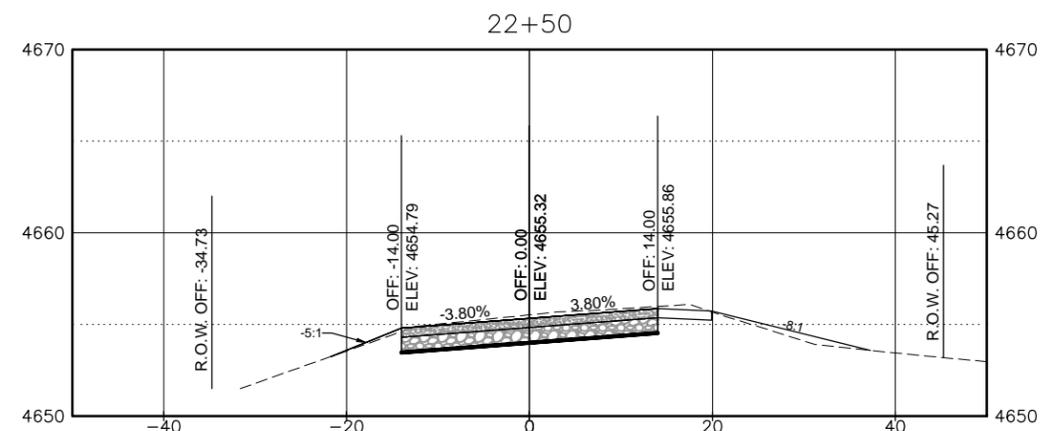
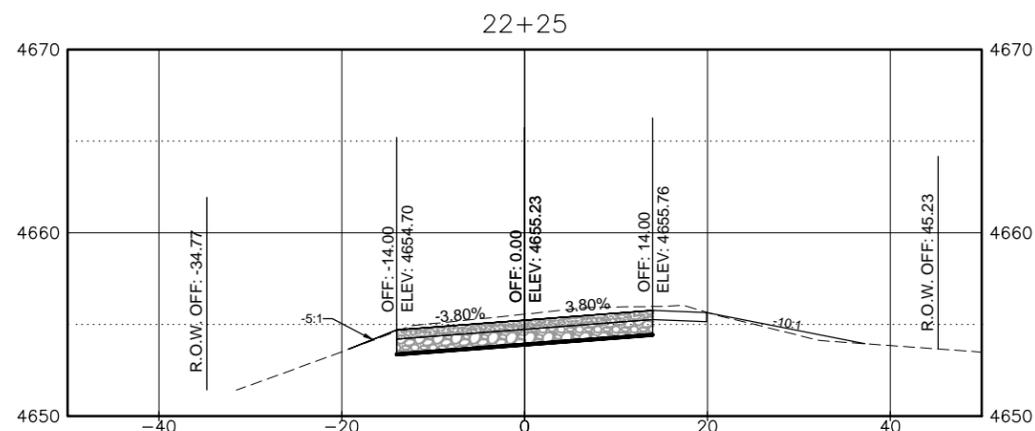
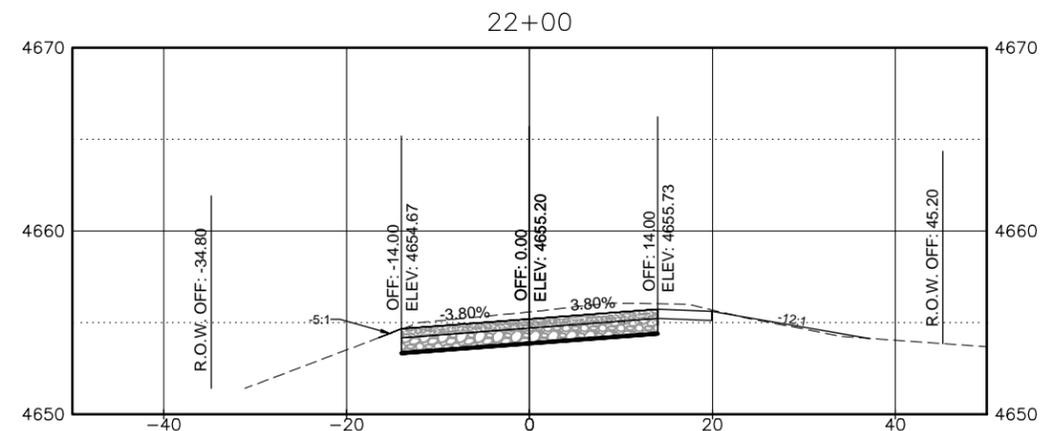
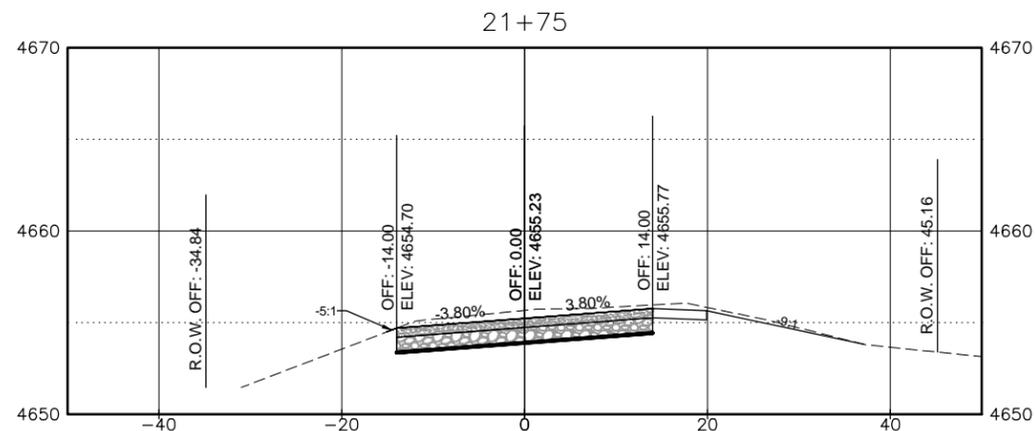
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49TH/BRANTNER/INDUSTRIAL
CROSS SECTIONS

Designer: D.TUTTLE	Structure Numbers
Detailer: D.GONZALES	
Sheet Subset: SECTIONS	Subset Sheets: 5 of 13

Project No./Code

PW 00302 /
 Drawing Number XS-905
 Sheet Number 32 of 41



Plot Date: 10/26/2015 11:31 AM Plotted By: Dan Tuttle
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 Date Created: 7/22/15 Working Files: 37201 CITY OF EVANS BRANTNER RD 800 COMPUTER DESIGN FILES 902 CAD SHEET FILES XS-90X - CROSS SECTIONS.DWG

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Horiz. Scale: N/A	Vert. Scale: N/A
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Sheet Revisions		
Date:	Comments	Init.

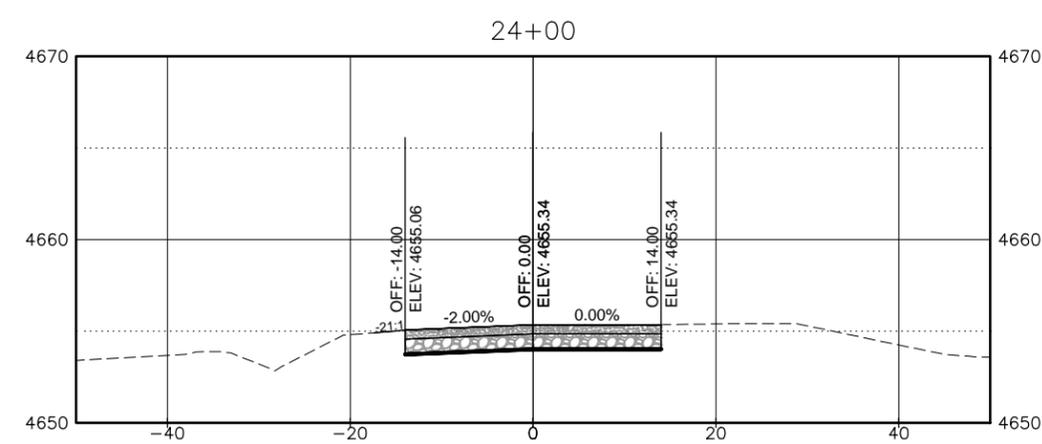
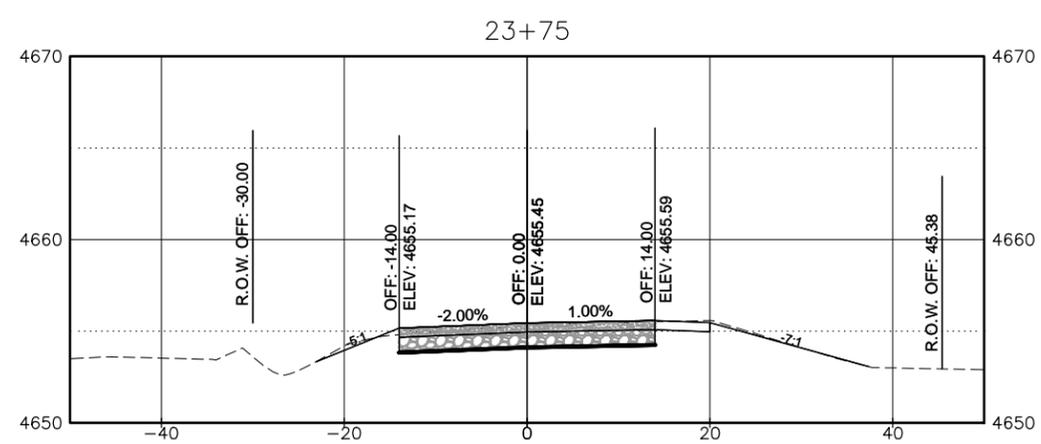
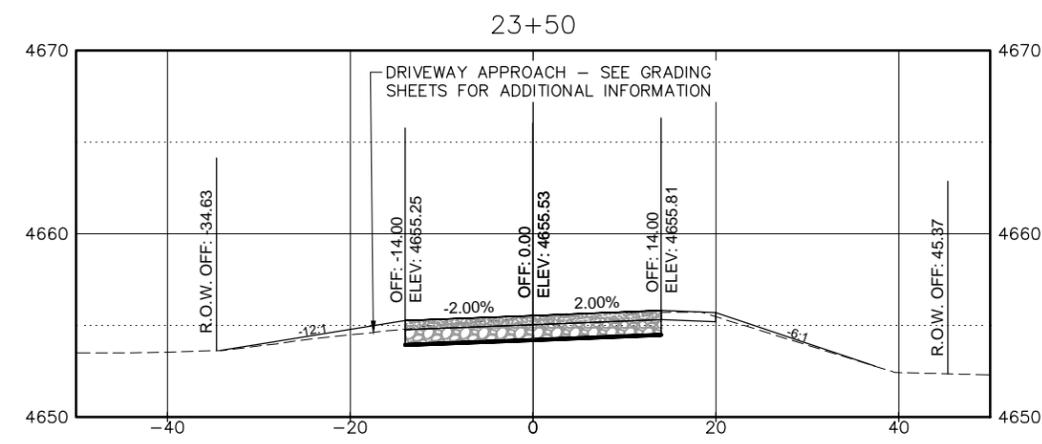
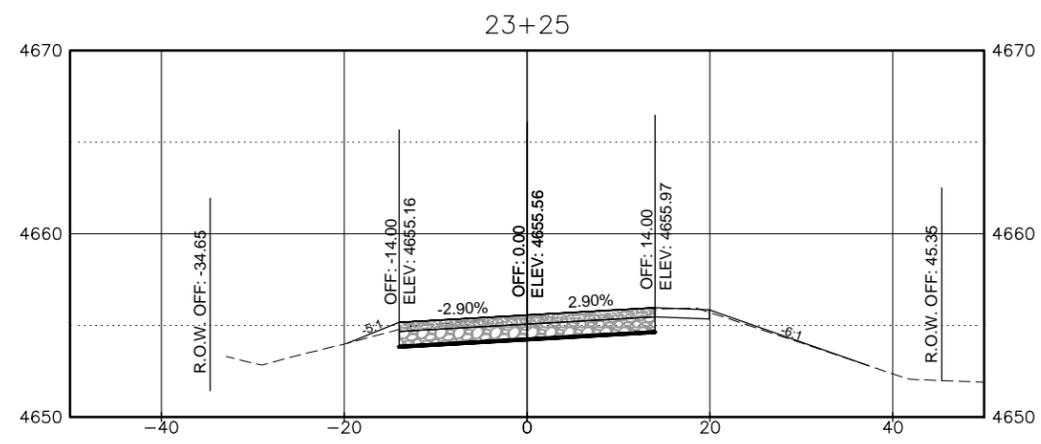
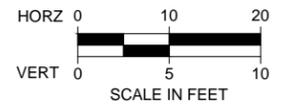


As Constructed
No Revisions:
Revised:
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Detailer: D.GONZALES	
Sheet Subset: SECTIONS	Subset Sheets: 6 of 13

Project No./Code
PW 00302 /
Drawing Number XS-906
Sheet Number 33 of 41

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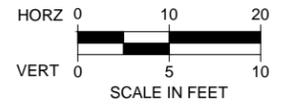
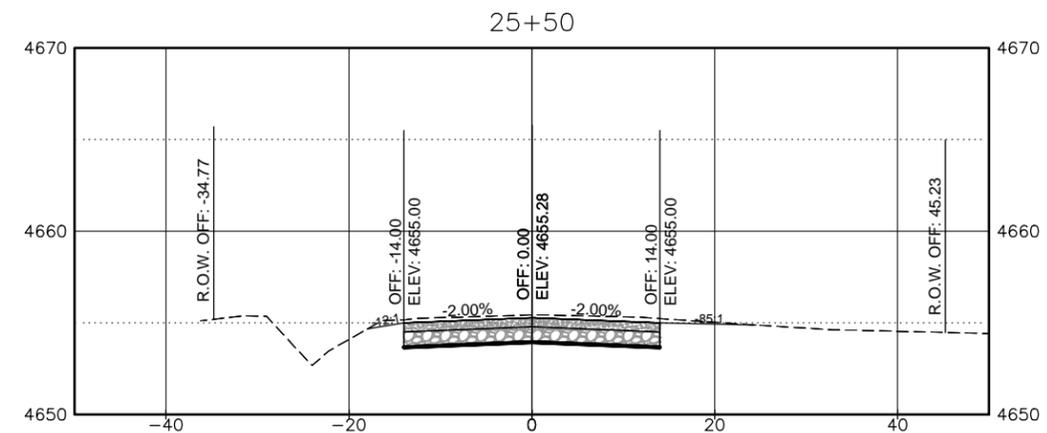
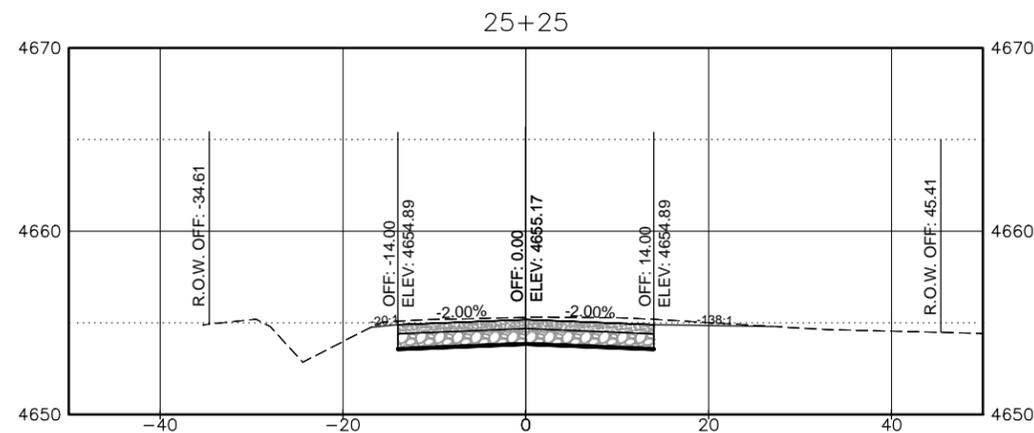
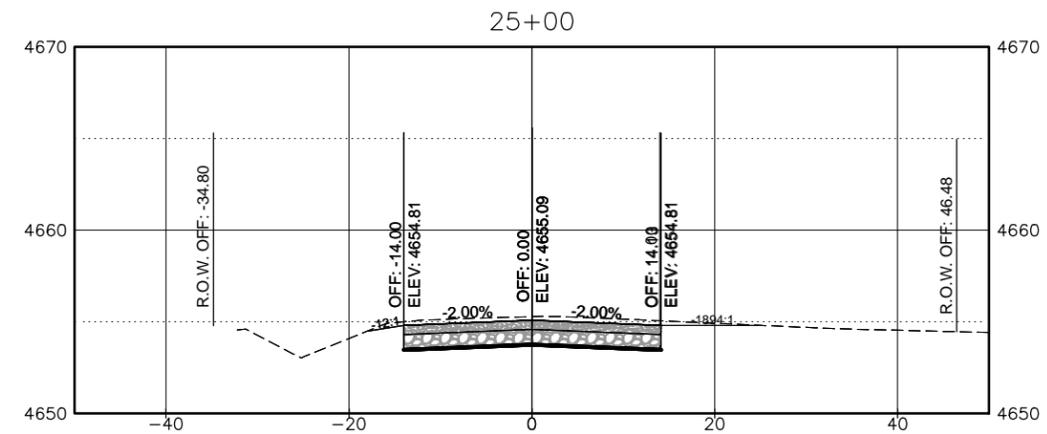
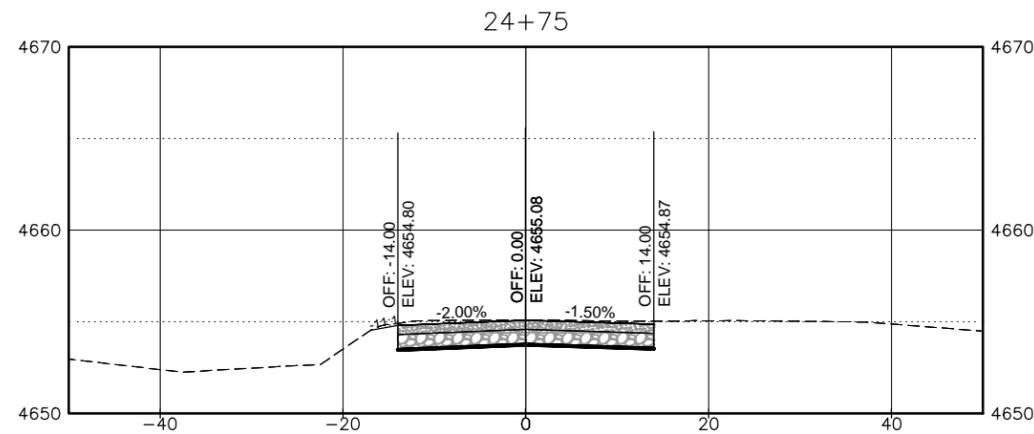
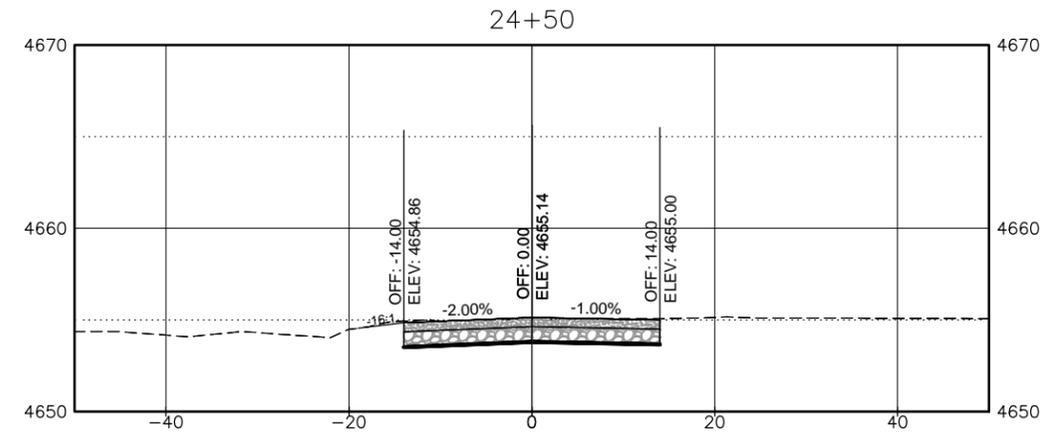
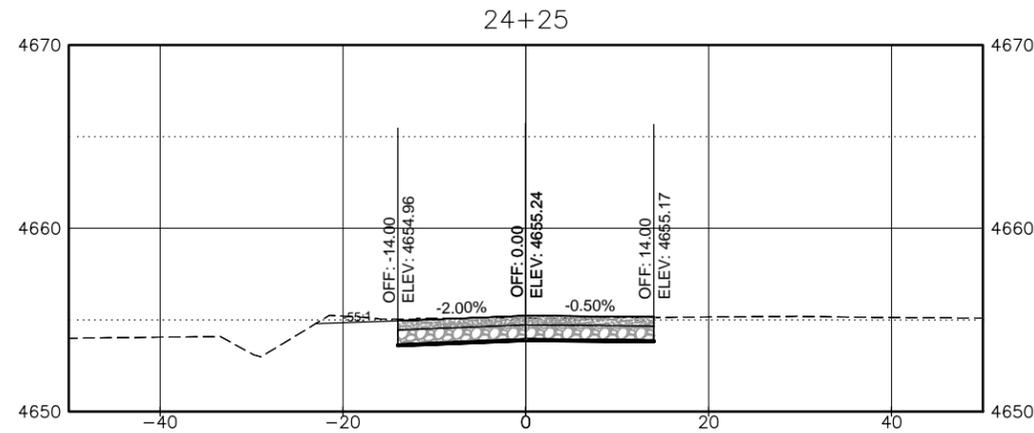


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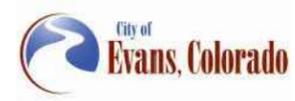
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Void:	Detailer: D.GONZALES	Sheet Subset: SECTIONS	Sheet Number 34 of 41
		Subset Sheets: 7 of 13	



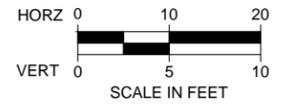
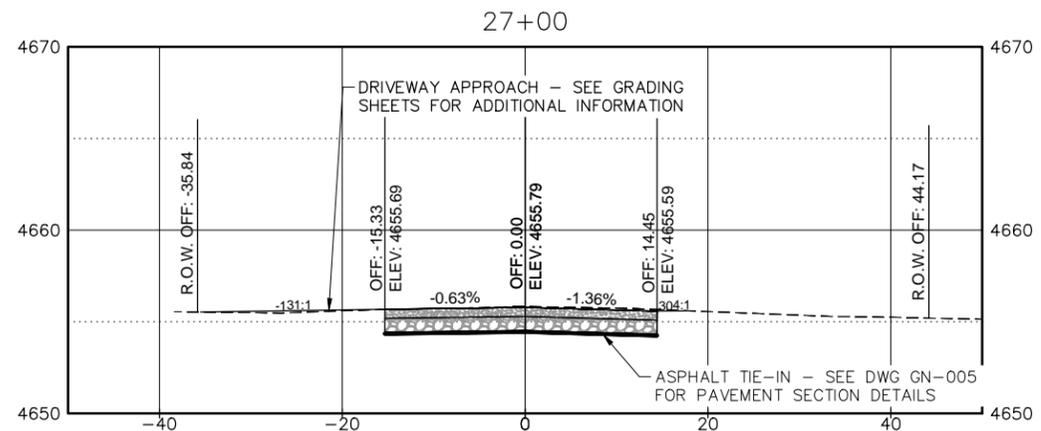
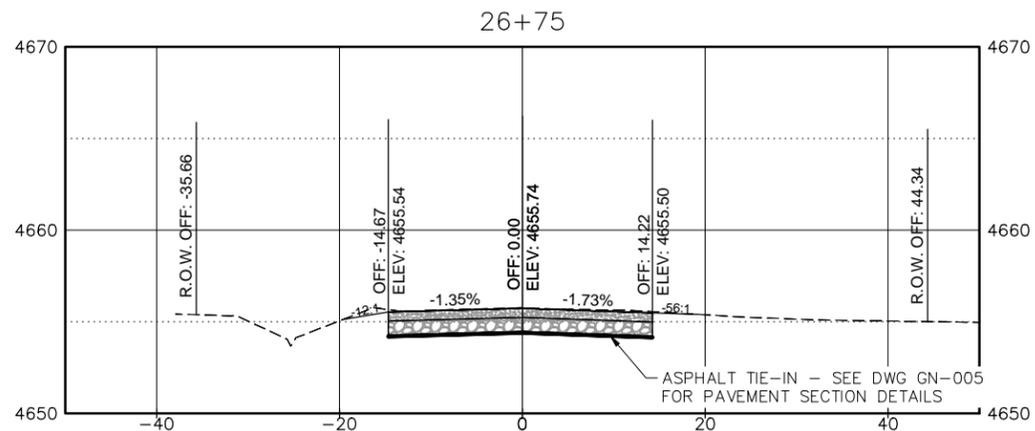
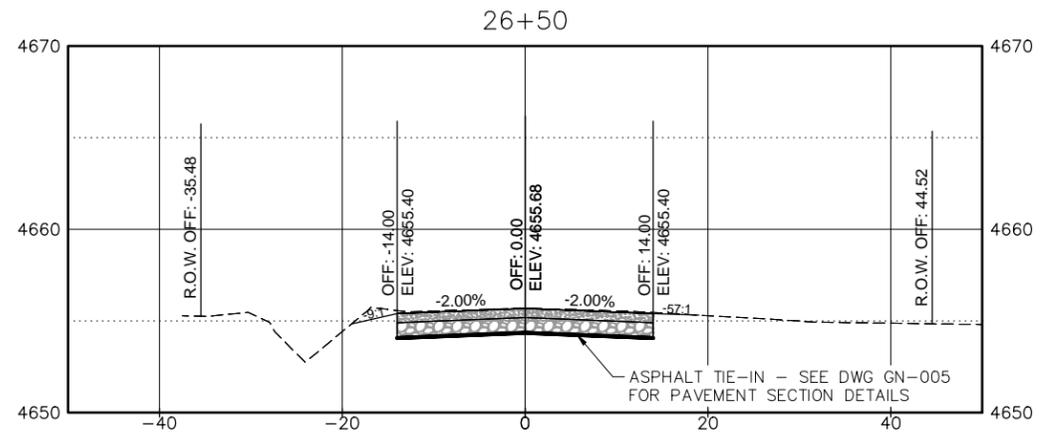
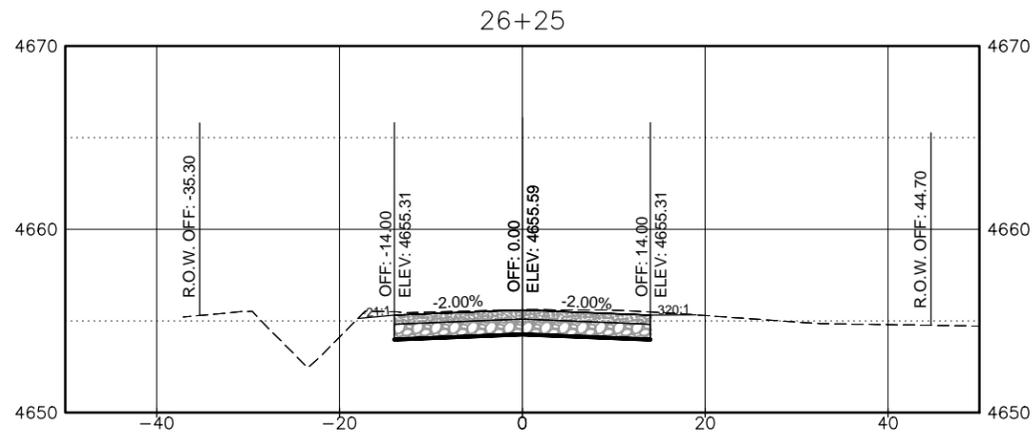
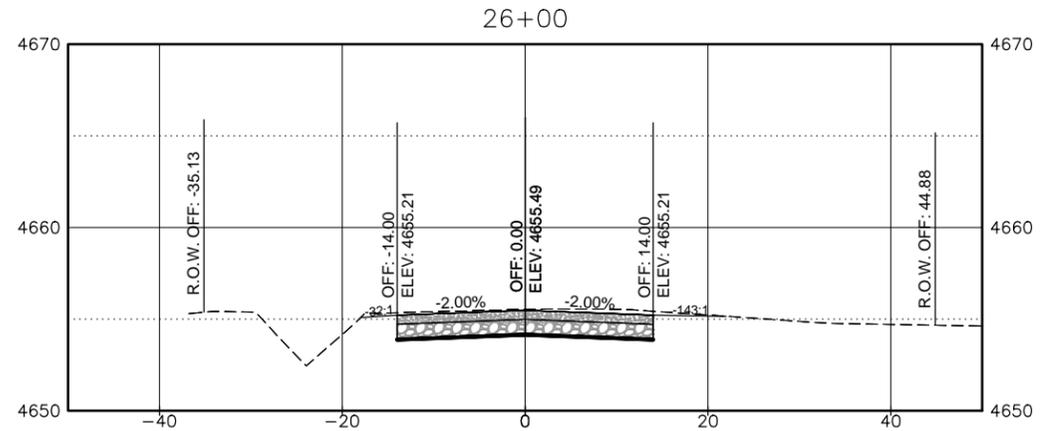
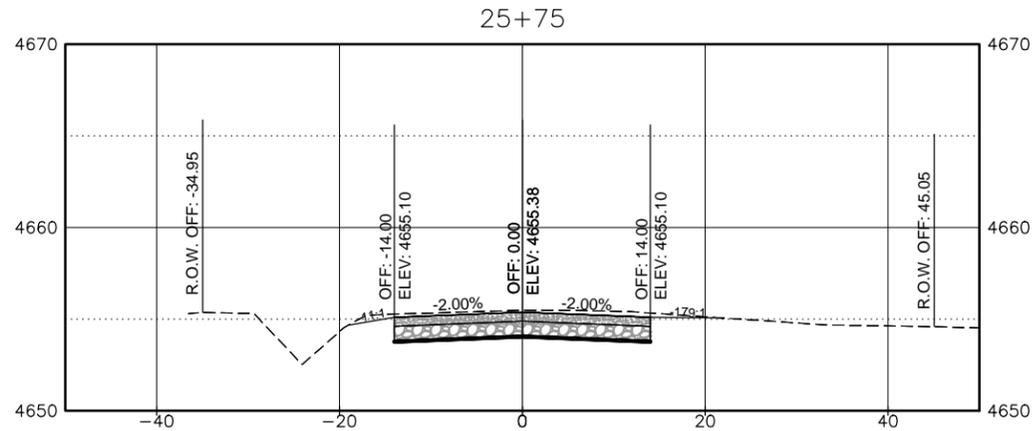
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			Sheet Number 35 of 41



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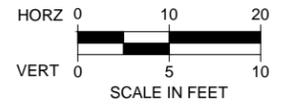
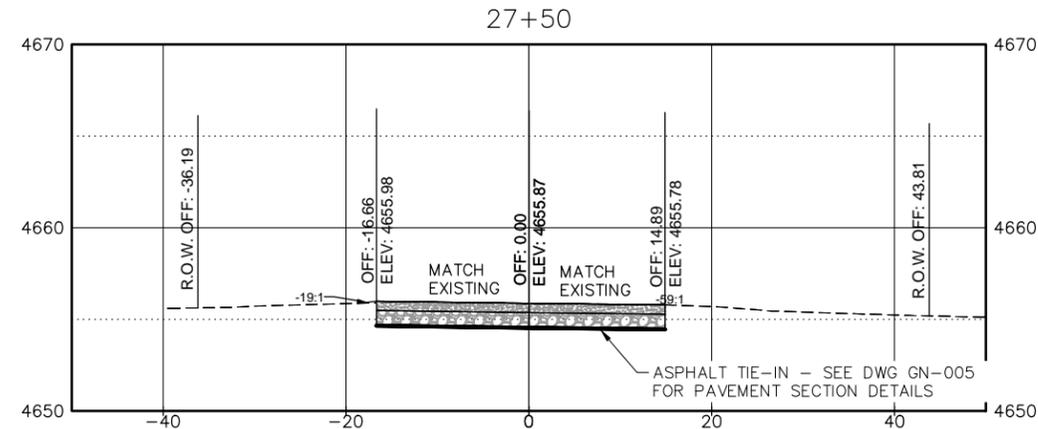
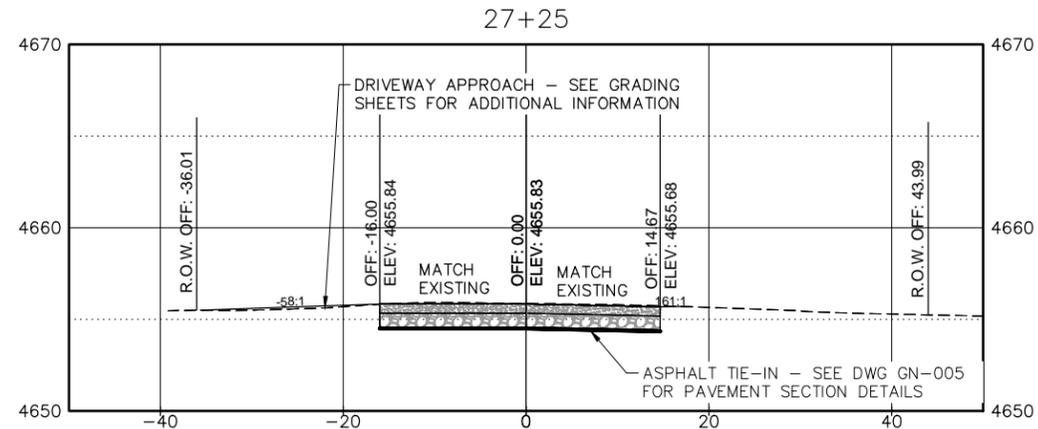


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Project No./Code
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Sheet Number 36 of 41

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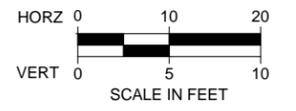
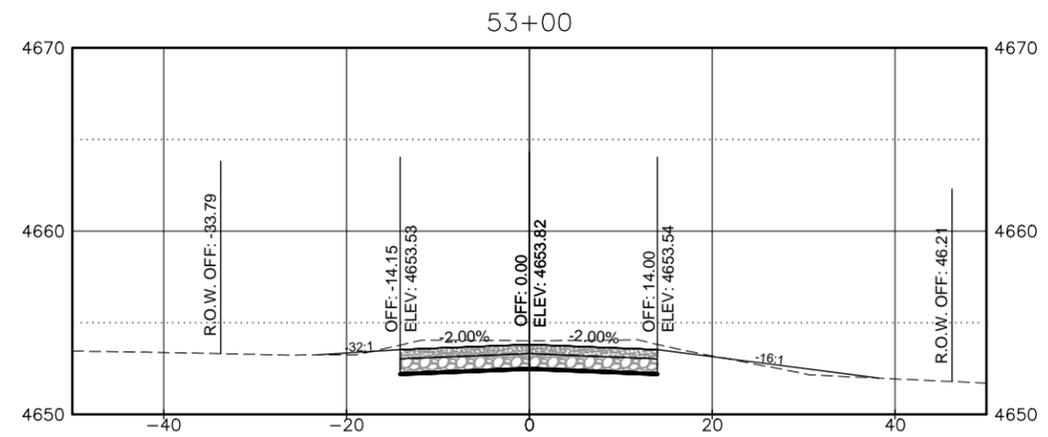
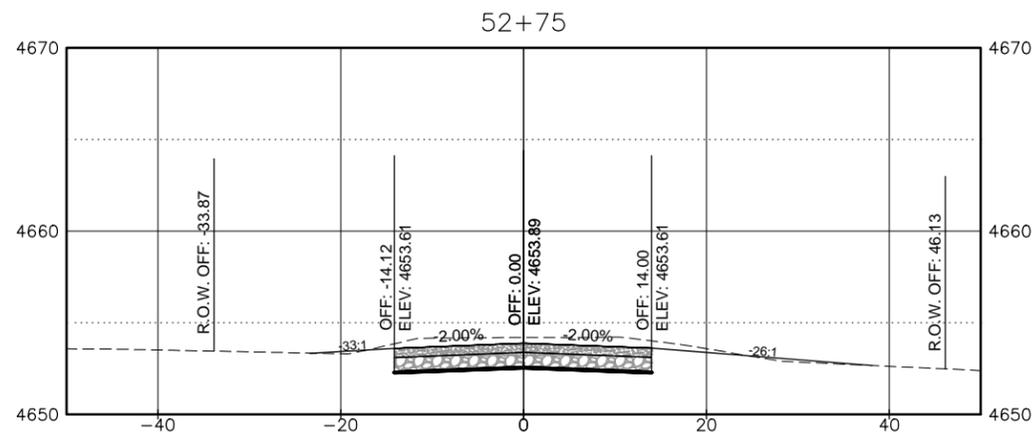
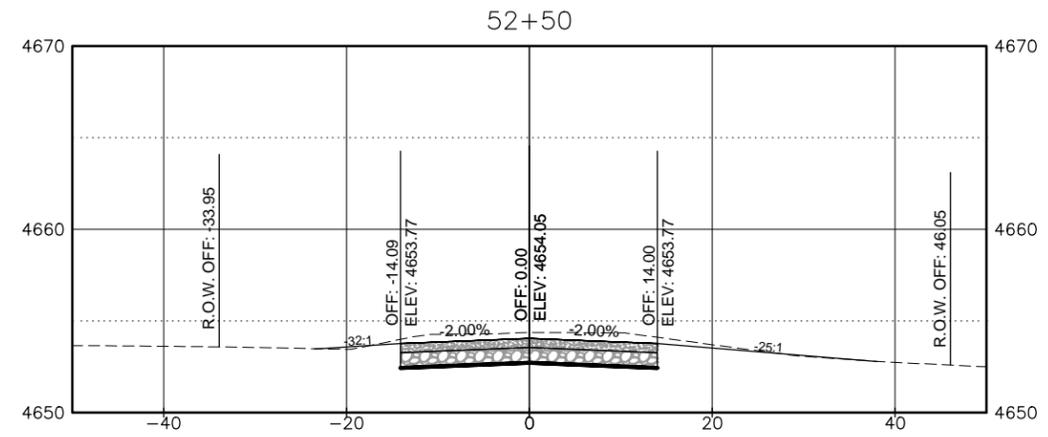
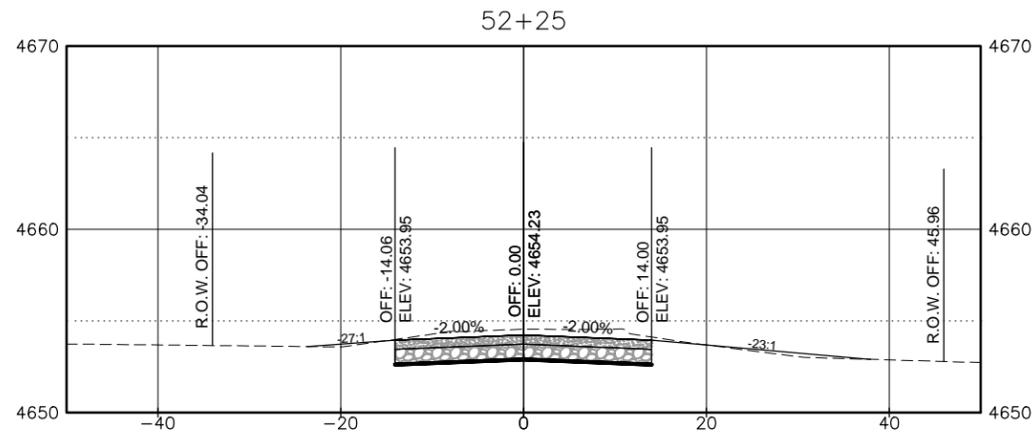
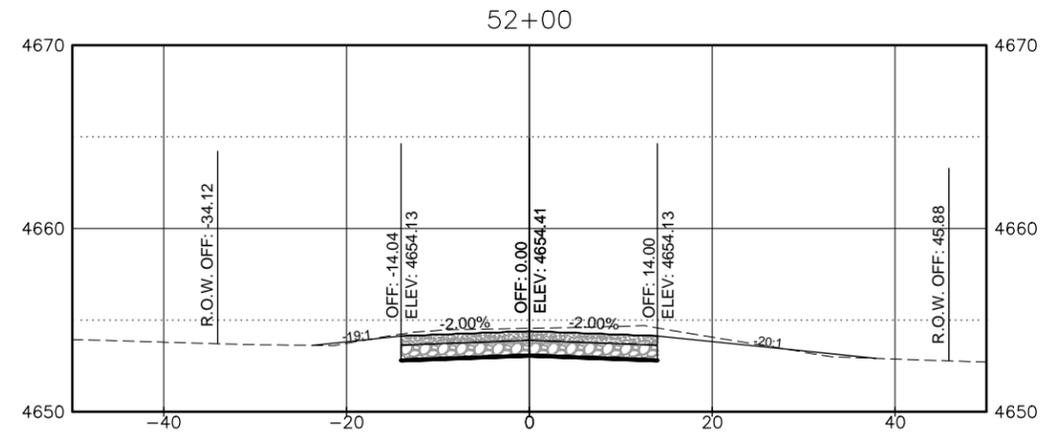
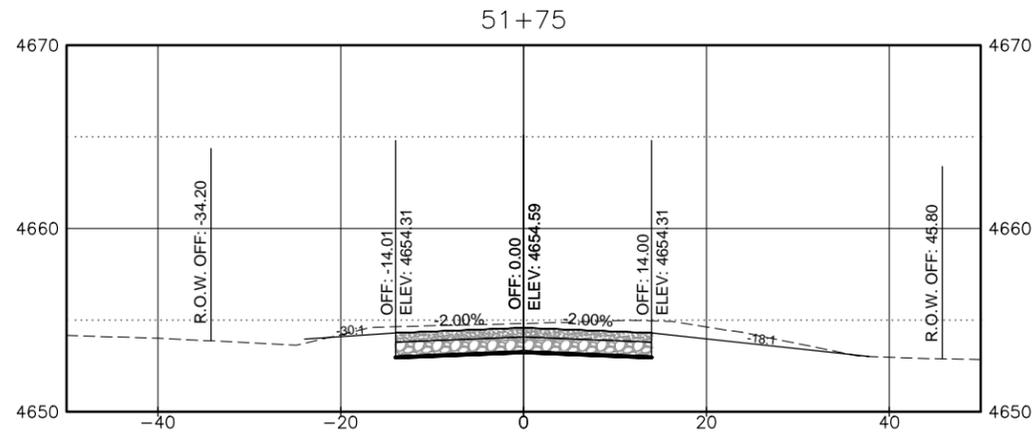


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	Sheet Subset: SECTIONS	Subset Sheets: 10 of 13	



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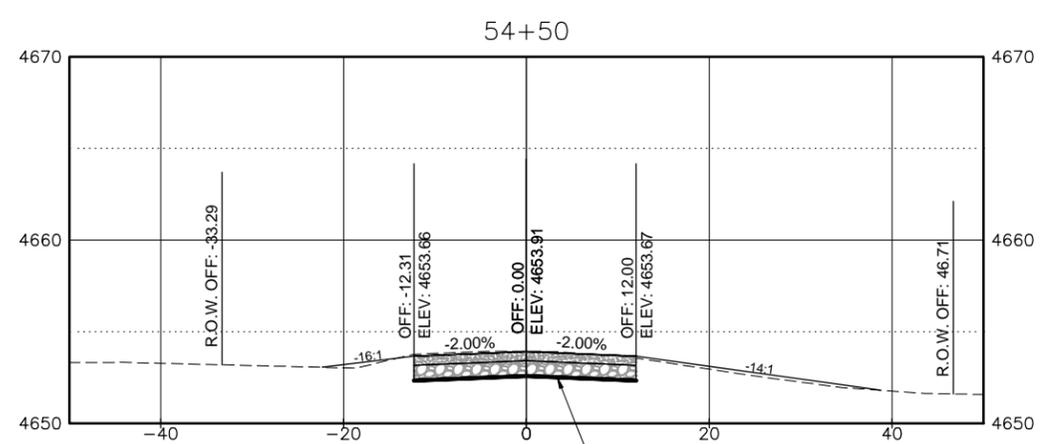
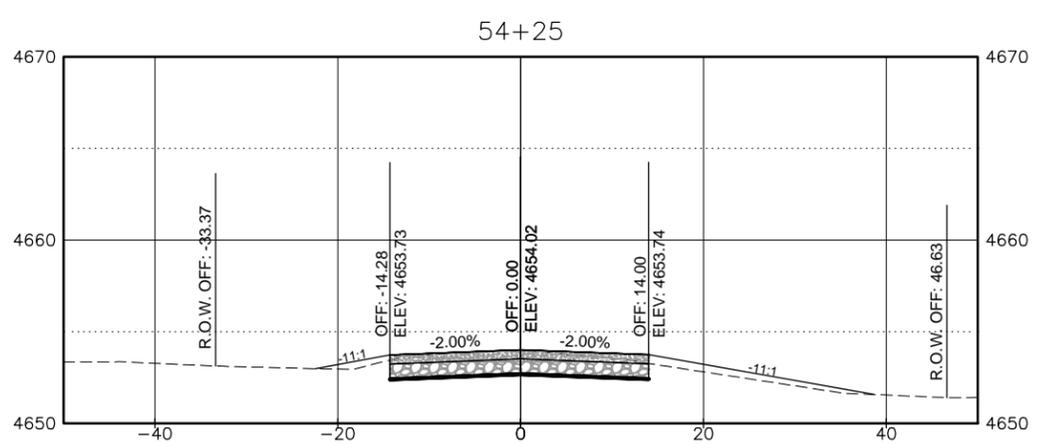
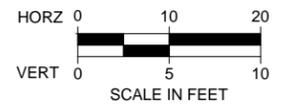
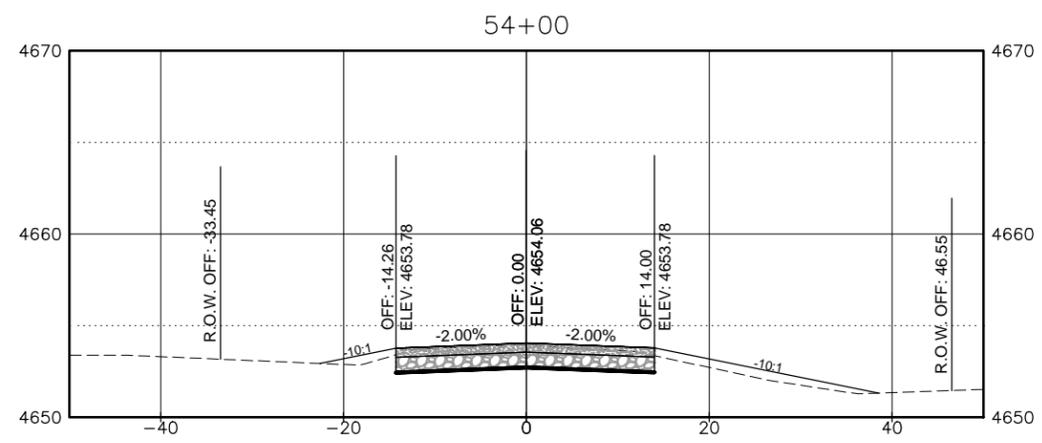
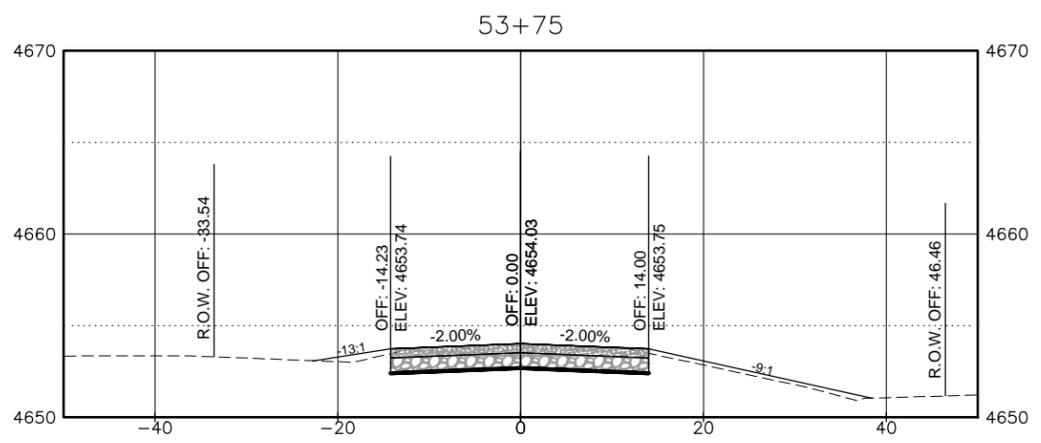
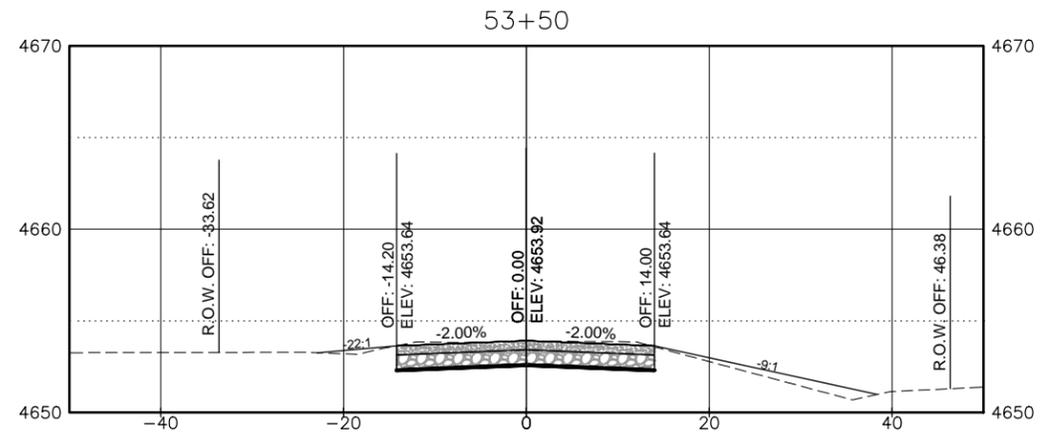
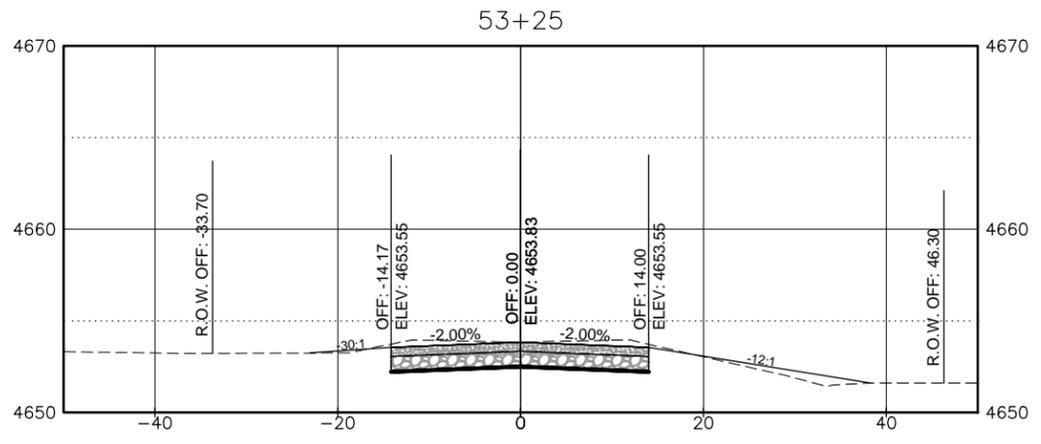
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Project No./Code	PW 00302 /
Drawing Number	XS-911
Sheet Number	38 of 41



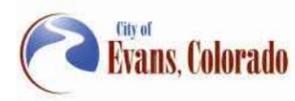
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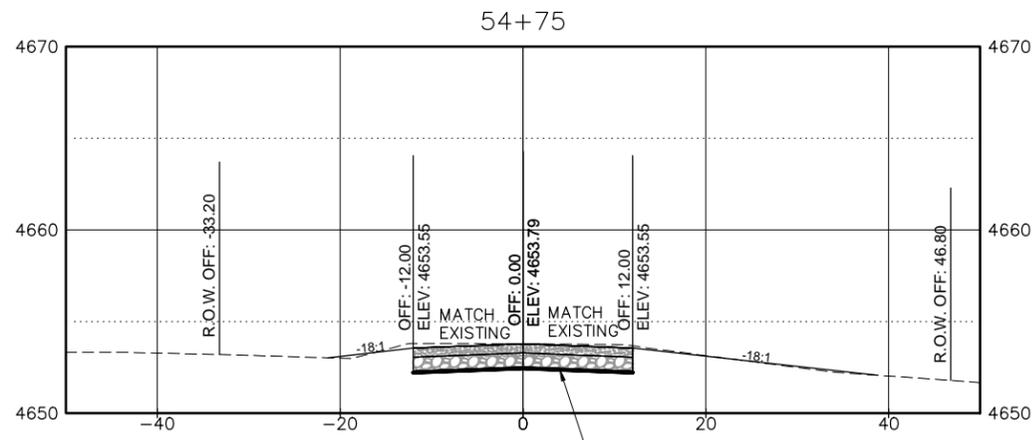
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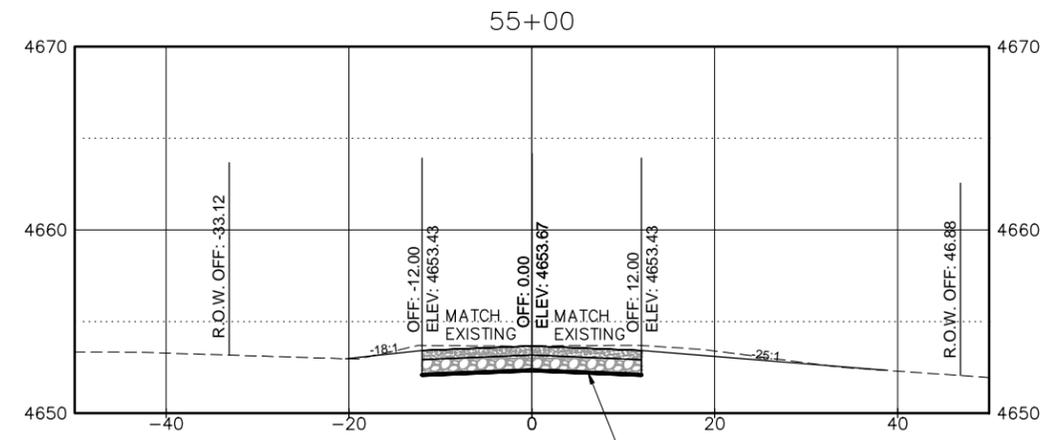
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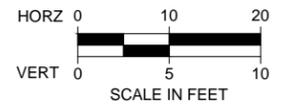
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ASPHALT TIE-IN - SEE DWG GN-005 FOR PAVEMENT SECTION DETAILS



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			Sheet Number 40 of 41

PLAN NUMBER	NEW OR REVISED	M STANDARD TITLE	PAGE NUMBER
M-100-1		STANDARD SYMBOLS (3 SHEETS)	1-3
M-100-2		ACRONYMS AND ABBREVIATIONS (4 SHEETS)	4-7
M-203-1	<input type="checkbox"/>	APPROACH ROADS (REVISED ON JULY 08, 2013)	8
M-203-2		DITCH TYPES	9
M-203-11		SUPERELEVATION CROWNED AND DIVIDED HIGHWAYS (3 SHEETS)	10-12
M-203-12		SUPERELEVATION STREETS (2 SHEETS)	13-14
M-206-1		EXCAVATION AND BACKFILL FOR STRUCTURES (2 SHEETS)	15-16
M-206-2		EXCAVATION AND BACKFILL FOR BRIDGES (2 SHEETS)	17-18
M-208-1	<input checked="" type="checkbox"/>	TEMPORARY EROSION CONTROL (11 SHEETS) (REVISED ON MARCH 29, 2016)	19-30
M-210-1		MAILBOX SUPPORTS (2 SHEETS)	31-32
M-214-1		PLANTING DETAILS	33
M-216-1	<input checked="" type="checkbox"/>	SOIL RETENTION COVERING (2 SHEETS) (NEW ON JULY 16, 2015)	34-38
M-412-1	<input checked="" type="checkbox"/>	CONCRETE PAVEMENT JOINTS (5 SHEETS) (REVISED ON JULY 24, 2012)	34-38
M-510-1		STRUCTURAL PLATE PIPE H-20 LOADING	39
M-601-1	<input type="checkbox"/>	SINGLE CONCRETE BOX CULVERT (2 SHEETS) (REVISED ON NOVEMBER 25, 2015)	40-41
M-601-2	<input type="checkbox"/>	DOUBLE CONCRETE BOX CULVERT (2 SHEETS) (REVISED ON NOVEMBER 25, 2015)	42-43
M-601-3	<input type="checkbox"/>	TRIPLE CONCRETE BOX CULVERT (2 SHEETS) (REVISED ON NOVEMBER 25, 2015)	44-45
M-601-10		HEADWALL FOR PIPES	46
M-601-11		TYPE "S" SADDLE HEADWALLS FOR PIPE	47
M-601-12		HEADWALLS AND PIPE OUTLET PAVING	48
M-601-20		WINGWALLS FOR PIPE OR BOX CULVERTS	49
M-603-1	<input type="checkbox"/>	METAL PIPE (4 SHEETS) (REVISED ON OCTOBER 02, 2014)	50-53
M-603-2	<input type="checkbox"/>	REINFORCED CONCRETE PIPE (REVISED ON OCTOBER 02, 2014)	54
M-603-3		PRECAST CONCRETE BOX CULVERT	55
M-603-4	<input type="checkbox"/>	CORRUGATED POLYETHYLENE PIPE (AASHTO M294) (REVISED ON OCT. 02, 2014)	56
M-603-5	<input type="checkbox"/>	POLYVINYL CHLORIDE (PVC) PIPE (AASHTO M304) (REVISED ON OCT. 02, 2014)	57
M-603-6	<input type="checkbox"/>	STEEL REINFORCED POLYETHYLENE RIBBED PIPE (AASHTO MP 20) (NEW ON APRIL 30, 2015)	
M-603-10		CONCRETE AND METAL END SECTIONS (2 SHEETS)	58-59
M-604-10		INLET, TYPE C	60
M-604-11		INLET, TYPE D	61
M-604-12		CURB INLET TYPE R (2 SHEETS)	62-63
M-604-13		CONCRETE INLET TYPE 13	64
M-604-20		MANHOLES (3 SHEETS)	65-67
M-604-25		VANE GRATE INLET (5 SHEETS)	68-72
M-605-1		SUBSURFACE DRAINS	73
M-606-1	<input type="checkbox"/>	GUARDRAIL TYPE 3 W-BEAM (20 SHEETS) (REVISED ON OCTOBER 27, 2014)	74-92
M-606-1	<input type="checkbox"/>	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 3 W-BEAM 31 INCHES (20 SHEETS) (REVISED ON DECEMBER 29, 2015)	
M-606-13	<input type="checkbox"/>	GUARDRAIL TYPE 7 F-SHAPE BARRIER (4 SHEETS) (REVISED ON AUGUST 30, 2013)	93-96
M-606-14		PRECAST TYPE 7 CONCRETE BARRIER (3 SHEETS)	97-99

PLAN NUMBER	NEW OR REVISED	M STANDARD TITLE	PAGE NUMBER
M-607-1		WIRE FENCES AND GATES (3 SHEETS)	100-102
M-607-2		CHAIN LINK FENCE (3 SHEETS)	103-105
M-607-3		BARRIER FENCE	106
M-607-4	<input type="checkbox"/>	DEER FENCE, GATES, AND GAME RAMPS (5 SHEETS) (REVISED ON APRIL 30, 2015)	107-109
M-607-10		PICKET SNOW FENCE	110
M-607-15		ROAD CLOSURE GATE (9 SHEETS)	111-119
M-608-1	<input type="checkbox"/>	CURB RAMPS (7 SHEETS) (REVISED ON JUNE 16, 2014)	120-125
M-609-1	<input type="checkbox"/>	CURBS, GUTTERS, AND SIDEWALKS (4 SHEETS) (REVISED ON JULY 24, 2012)	126-129
M-611-1		CATTLE GUARD (2 SHEETS)	130-131
M-611-2	<input type="checkbox"/>	DEER GUARD (2 SHEETS) (NEW ON APRIL 30, 2015)	
M-613-1		ROADWAY LIGHTING (4 SHEETS)	132-135
M-614-1		RUMBLE STRIPS (3 SHEETS)	136-138
M-614-2		SAND BARREL ARRAYS (2 SHEETS)	139-140
M-615-1		EMBANKMENT PROTECTOR TYPE 3	141
M-615-2		EMBANKMENT PROTECTOR TYPE 5	142
M-616-1		INVERTED SIPHON	143
M-620-1		FIELD LABORATORY CLASS 1	144
M-620-2		FIELD LABORATORY CLASS 2 (2 SHEETS)	145-146
M-620-11		FIELD OFFICE CLASS 1	147
M-620-12		FIELD OFFICE CLASS 2	148
M-629-1		SURVEY MONUMENTS (2 SHEETS)	149-150

PLAN NUMBER	NEW OR REVISED	S STANDARD TITLE	PAGE NUMBER
S-612-1		DELINEATOR INSTALLATIONS (7 SHEETS)	151-157
S-614-1	<input type="checkbox"/>	GROUND SIGN PLACEMENT (2 SHEETS) (REVISED ON DECEMBER 12, 2014)	158-159
S-614-2	<input checked="" type="checkbox"/>	CLASS I SIGNS (REVISED ON JUNE 24, 2016)	160
S-614-3		CLASS II SIGNS	161
S-614-4	<input type="checkbox"/>	CLASS III SIGNS (3 SHEETS) (REVISED ON DECEMBER 17, 2014)	162-164
S-614-5		BREAK-AWAY SIGN SUPPORT DETAILS FOR GROUND SIGNS (2 SHEETS)	165-166
S-614-6	<input type="checkbox"/>	CONCRETE FOOTINGS AND SIGN ISLANDS FOR CLASS III SIGNS (2 SHEETS) (REVISED ON SEPTEMBER 16, 2013)	167-168
S-614-8	<input type="checkbox"/>	TUBULAR STEEL SIGN SUPPORT DETAILS (6 SHEETS) (REVISED ON OCTOBER 23, 2014)	169-173
S-614-9	<input type="checkbox"/>	PEDESTRIAN PUSH BUTTON POST ASSEMBLY (REVISED ON MAY 24, 2016)	174
S-614-10		MARKER ASSEMBLY INSTALLATIONS	175
S-614-11		MILEPOST SIGN DETAIL FOR HIGH SNOW AREAS	176
S-614-12		STRUCTURE NUMBER INSTALLATION	177
S-614-14		FLASHING BEACON AND SIGN INSTALLATIONS (3 SHEETS)	178-180
S-614-20		TYPICAL POLE MOUNT SIGN INSTALLATIONS	181
S-614-21	<input type="checkbox"/>	CONCRETE BARRIER SIGN POST INSTALLATIONS (REVISED ON MAY 24, 2016)	182
S-614-22		TYPICAL MULTI-SIGN INSTALLATIONS	183
S-614-40	<input type="checkbox"/>	TYPICAL TRAFFIC SIGNAL INSTALLATION DETAILS (5 SHEETS) (REVISED ON JUNE 17, 2016)	184-188
S-614-40A	<input type="checkbox"/>	ALTERNATIVE TRAFFIC SIGNAL INSTALLATION DETAILS (4 SHEETS) (REVISED ON JUNE 17, 2016)	189-192
S-614-41	<input type="checkbox"/>	TEMPORARY SPAN WIRE SIGNALS (REVISED ON APRIL 2, 2015)	193
S-614-42		CABINET FOUNDATION DETAIL (4 SHEETS)	194-197
S-614-43		TRAFFIC LOOP AND MISCELLANEOUS SIGNAL DETAILS (10 SHEETS)	198-207
S-614-44	<input type="checkbox"/>	PEDESTAL POLE SIGNALS (2 SHEETS) (REVISED ON JUNE 17, 2016)	
S-614-50	<input type="checkbox"/>	STATIC SIGN MONOTUBE STRUCTURES (12 SHEETS) (REVISED ON JUNE 17, 2016)	208-219
S-614-60	<input type="checkbox"/>	DYNAMIC SIGN MONOTUBE STRUCTURES (14 SHEETS) (REVISED ON JUNE 17, 2016)	220-233
S-627-1	<input type="checkbox"/>	PAVEMENT MARKINGS (5 SHEETS) (REVISED ON JUNE 10, 2014)	234-238
S-630-1	<input checked="" type="checkbox"/>	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION (24 SHEETS) (REVISED ON JUNE 23, 2016)	239-258
S-630-2	<input checked="" type="checkbox"/>	BARRICADES, DRUMS, CONCRETE BARRIERS (TEMP) AND VERTICAL PANELS (REVISED ON JUNE 23, 2016)	259
S-630-3		FLASHING BEACON (PORTABLE) DETAILS	260
S-630-4		STEEL SIGN SUPPORT (TEMPORARY) INSTALLATION DETAILS (2 SHEETS)	261-262
S-630-5	<input type="checkbox"/>	PORTABLE RUMBLE STRIPS (TEMPORARY) (2 SHEETS) (REVISED ON AUGUST 13, 2015)	263-264
S-630-6		EMERGENCY PULL-OFF AREA (TEMPORARY)	265
S-630-7		ROLLING ROADBLOCKS FOR TRAFFIC CONTROL (3 SHEETS)	266-268

COLORADO
 DEPARTMENT OF TRANSPORTATION
M&S STANDARDS PLANS LIST
 July 04, 2012
 Revised on June 24, 2016

ALL OF THE M&S STANDARD PLANS, AS SUPPLEMENTED AND REVISED, APPLY TO THIS PROJECT WHEN USED BY DESIGNATED PAY ITEM OR SUBSIDIARY ITEM.

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