

DOUGLAS AVENUE ROADWAY & DRAINAGE IMPROVEMENTS

SHEET No. 1



Know what's below.
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Construction Documents Project Number: STE-M026-033 Project Code: 211-50 Town of Palmer Lake, CO.

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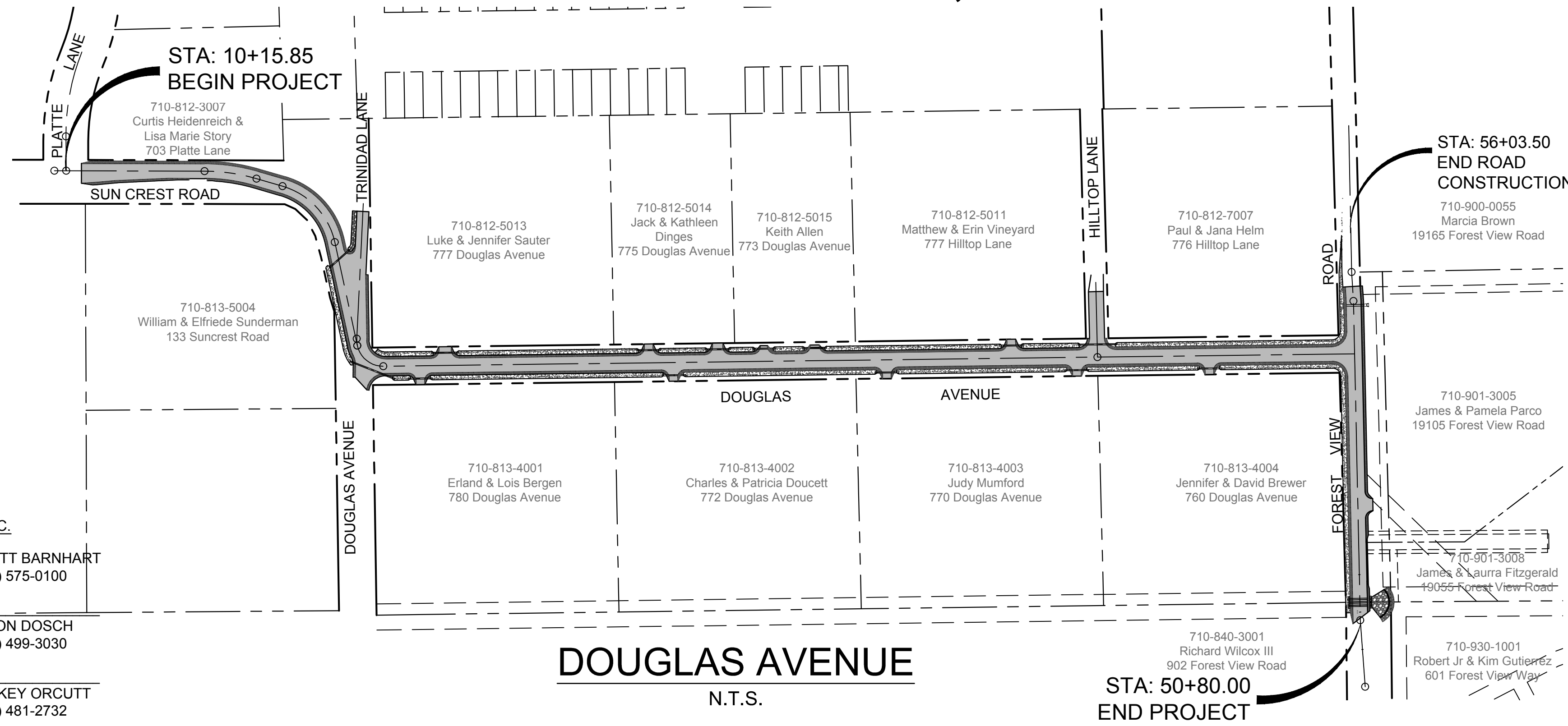
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OWNER INFO.

TOWN OF PALMER LAKE
JASON DOSCH
42 VALLEY CRESCENT
P.O. BOX 208
PALMER LAKE, CO 80133
(719) 481-2953

AGENCIES:

SERVICE	ENTITY	P.O.C.
CIVIL ENGINEER:	MATRIX DESIGN GROUP, INC. 2435 RESEARCH PARKWAY, SUITE 300 COLORADO SPRINGS, COLORADO 80920	SCOTT BARNHART (719) 575-0100
ENGINEERING DIVISION:	PALMER LAKE ROADS DEPARTMENT 42 VALLEY CRESCENT STREET PALMER LAKE, COLORADO 80133	JASON DOSCH (719) 499-3030
WASTEWATER:	PALMER LAKE SANITATION DISTRICT 120 MIDDLE GLENWAY STREET PALMER LAKE, COLORADO 80133	BECKEY ORCUTT (719) 481-2732
WATER:	PALMER LAKE WATER DEPARTMENT 120 MIDDLE GLENWAY STREET PALMER LAKE, COLORADO 80133	STEVE ORCUTT (719) 499-3312
GAS:	BLACK HILLS ENERGY 18965 BASE CAMP ROAD 4-7 MONUMENT, COLORADO 80132	(888) 890-5554
ELECTRIC:	INTERMOUNTAIN RURAL ELECTRIC ASSOCIATION 5496 US-85 SEDALIA, COLORADO 80135	BRIAN HICKS (303) 688-3100
TELEPHONE:	CENTURYLINK 16218 JACKSON CREEK PKWY MONUMENT, COLORADO 80132	MELISSA SPENCER (719) 636-4748
CABLE:	COMCAST 213 N. UNION BOULEVARD COLORADO SPRINGS, COLORADO 80909	DALE STEWART (719) 306-2767

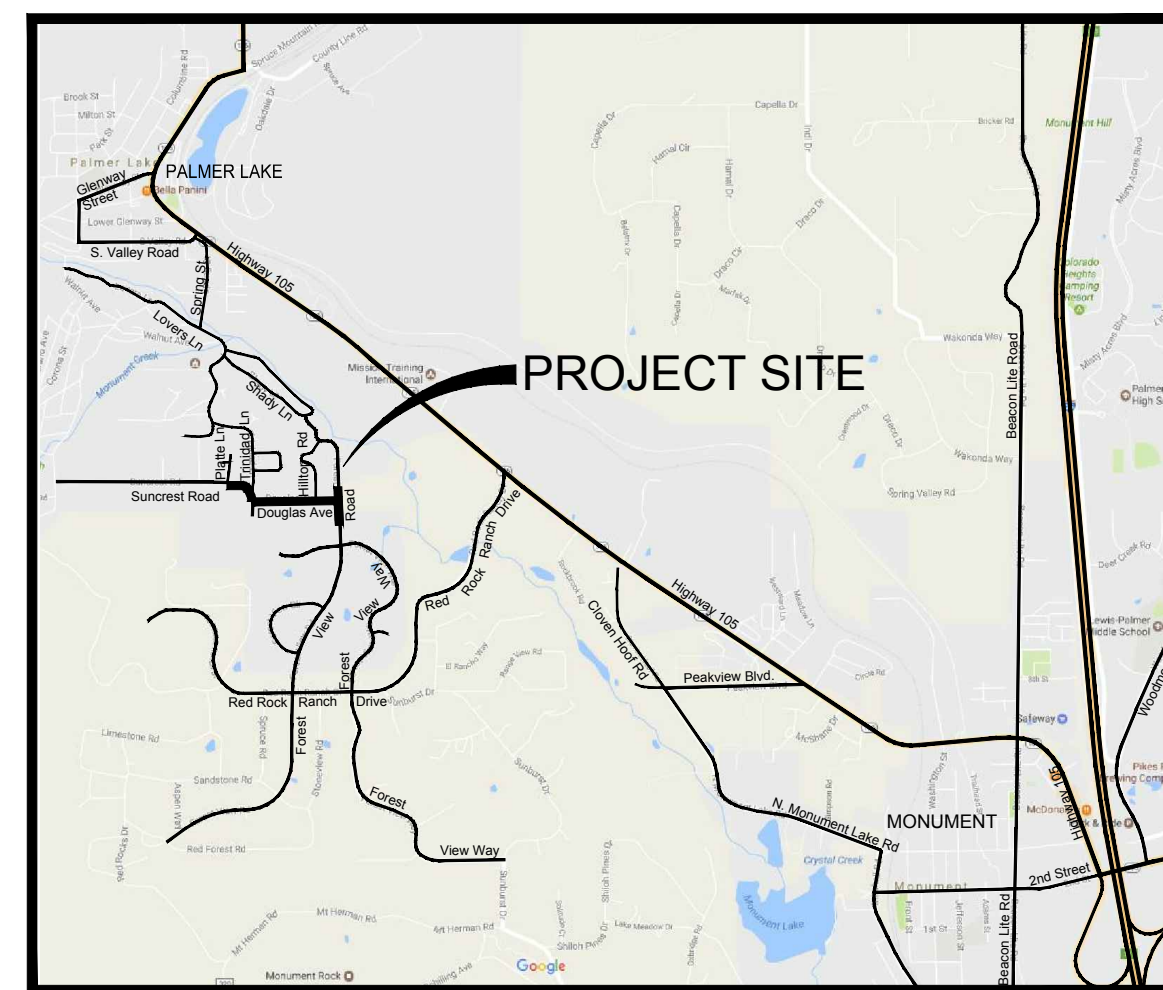


LENGTH & DESIGN DATA

STATION	ROADWAY	MAJOR STR
	LINEAR FT	LINEAR FT
Sun Crest Road Sta. 10+36.05 Begin Project to Sta. 13+06.91	270.86	
Douglas Avenue Sta. 13+06.91 to Sta. 29+00.00	1,593.09	
Trinidad Lane Sta. 30+00.00 to Sta. 31+79.50	179.50	
Hilltop Road Sta. 40+00.00 to Sta. 40+60.00	60.00	
Forest View Road Sta. 50+80.00 to Sta. 56+03.50	523.50	
TOTAL	2,626.95	

DESIGN DATA	Douglas Avenue
MIN. RADIUS OF CURVE	225'
MAX. GRADE	7%
MIN. GRADE	0.50%
MIN. K VALUE	SAG = 26 , CREST = 12
DESIGN SPEED	25 Mph
POSTED SPEED	20 Mph

DOUGLAS AVENUE
N.T.S.



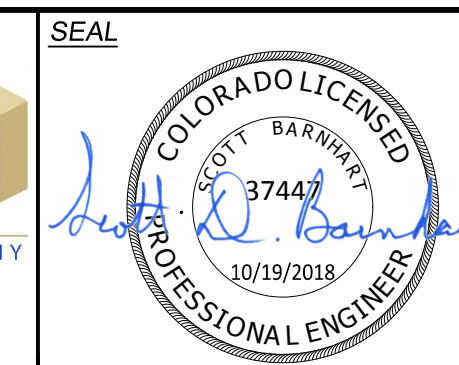
VICINITY MAP
N.T.S.

REFERENCE DRAWINGS	No.	DATE	DESCRIPTION	BY
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PREPARED BY:
Matrix
DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY
2435 RESEARCH PARKWAY
SUITE 300
COLORADO SPRINGS, CO. 80920
PH (719) 575-0100



DOUGLAS AVE ROADWAY AND DRAINAGE IMPROVEMENTS				
TOWN OF PALMER LAKE ROADWAY & DRAINAGE IMPROVEMENT PLAN				
TITLE SHEET				
DESIGNED BY: MHH	SCALE: N/A	DATE ISSUED: OCTOBER 19, 2018	DRAWING No. TS01	
DRAWN BY: MHH	HORIZ			
CHECKED BY: SDB	VERT.			
		SHEET 1 OF 30		

GENERAL NOTES:

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH CDOT STANDARD SPECIFICATIONS, LATEST REVISION INCLUDING GENERAL PROVISIONS, SPECIAL PROVISIONS, STANDARD SPECIFICATIONS, REVISIONS TO STANDARD SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH APPLICABLE STANDARDS AND REGULATIONS AS SET FORTH BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.).
- NO FIELD CHANGES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE FIELD ENGINEER.
- SUBMITTALS SHALL BE MADE FOR ALL MATERIALS TO BE INCORPORATED INTO THE PROJECT.
- UTILITY LINES AS SHOWN ON THE PLAN SHEETS ARE PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION AND PROTECTION OF ALL UTILITIES IN PLACE.
- THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 TWO BUSINESS DAYS IN ADVANCE OF ANY EXCAVATION OR GRADING. FOR A LIST OF SPECIFIC CONTACTS SEE SPECIFICATIONS.
- THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL UTILITY AND STRUCTURES AFFECTED BY THE WORK AND ANY DAMAGE SHALL BE REPAIRED AND RESTORED TO THE SATISFACTION OF THE TOWN OF PALMER LAKE. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UTILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE ALL UTILITY RELOCATIONS AS NECESSARY. THE UTILITY COMPANIES SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WHERE THESE UTILITIES MAY BE AFFECTED.
- IN SOME OF THE PROPOSED AREAS OF CONSTRUCTION EXISTING UNDERGROUND TELEPHONE, FIBER AND CABLE TELEVISION FACILITIES MAY BE LOCATED IN CLOSE PROXIMITY TO THE WORK. THE CONTRACTOR MAY, IF NECESSARY, TEMPORARILY DISPLACE THE CABLES DURING CONSTRUCTION AND REINSTALL THEM IN ACCORDANCE WITH THE APPROPRIATE TELEPHONE, FIBER OR CABLE COMPANY'S GUIDELINES. COORDINATION WITH BOTH THE TELEPHONE AND CABLE TELEVISION COMPANY IS REQUIRED TO BE DONE BY THE CONTRACTOR.
- THE CONTRACTOR SHALL OBTAIN AN APPROVED TRAFFIC CONTROL PLAN PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
- THE PHYSICAL FEATURES WITHIN THE LIMITS OF THE PROJECT HAVE BEEN SHOWN BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE FEATURES SHOWN. THE CONTRACTOR SHALL REVIEW AND VERIFY EXISTING PHYSICAL FEATURES AND ELEVATIONS THEMSELVES OF THE CONDITIONS TO BE ENCOUNTERED DURING THE CONSTRUCTION.
- THE CONTRACTOR SHALL LIMIT ALL WORK AND STORAGE AREAS TO THE PUBLIC RIGHT-OF-WAYS AND EASEMENTS. USE OF ANY PRIVATE AREAS FOR THIS PROJECT BY THE CONTRACTOR MUST BE APPROVED IN WRITING BY THE PROPERTY OWNER WITH A COPY OF THIS APPROVAL PROVIDED TO THE FIELD ENGINEER PRIOR TO USAGE.
- ALL CONSTRUCTION IS TO INCLUDE COMPACTION AND FINISH GRADING IN THE UNIT PRICE RELATED WORK ITEM.
- ALL WORK SHALL BE DONE TO THE LINES, GRADES, SECTIONS, AND ELEVATIONS SHOWN ON THE PLANS UNLESS OTHERWISE NOTED OR APPROVED BY THE FIELD ENGINEER.
- ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE TOWN OF PALMER LAKE AND THE FIELD ENGINEER.
- THE FIELD ENGINEER SHALL BE NOTIFIED WITHIN 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
- PAVEMENT, DIMENSIONS AND RADII ARE SHOWN TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE AND/OR TOES OF SLOPE AS SHOWN ON THE PLANS. ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITIONS BY THE CONTRACTOR AT HIS/HER OWN EXPENSE.
- THE CONTRACTOR SHALL NOT REMOVE AND SHALL PROTECT FROM DAMAGE ALL TREES, BUSHES, AND EXISTING IMPROVEMENTS INSIDE AND OUTSIDE THE LIMITS OF WORK. SPECIFIC PROVISIONS ARE SHOWN ON THE PLANS.
- NO TREES SHALL BE REMOVED OR TRIMMED WITHOUT PRIOR ACKNOWLEDGEMENT OF THE PROPERTY OWNER AND/OR PROJECT FIELD ENGINEER.
- THE CONTRACTOR SHALL PROTECT THE EXISTING DRAINAGE STRUCTURES TO REMAIN IN PLACE AND REROUTE ANY RUNOFF AS NECESSARY DURING CONSTRUCTION ACTIVITIES TO PREVENT SEDIMENT FROM DAMAGING THE EXISTING DRAINAGE SYSTEM.
- THE CONTRACTOR SHALL CLOSELY MONITOR ACCESS FOR HEAVY CONSTRUCTION EQUIPMENT THROUGH THE PROJECT AND RESIDENTIAL AREAS.
- WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. LOCATIONS SHALL BE AS ORDERED. THE COST OF WATER SHALL BE INCIDENTAL TO OTHER BID ITEMS.
- THE PHYSICAL FEATURES REQUIRING REMOVAL OR OBLITERATION WITHIN THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF OFF-SITE. EXCEPTIONS ARE ITEMS NOTED IN THE PLANS TO BE RESET.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING ANY MONUMENT, RANGE POINTS, TIES, BENCHMARKS AND/OR SURVEY CONTROL POINTS WHICH MAY BE DISTURBED OR DESTROYED BY CONSTRUCTION. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENT BY A REGISTERED PROFESSIONAL LAND SURVEYOR AUTHORIZED TO PRACTICE LAND SURVEYING IN THE STATE OF COLORADO.
- THE CONTRACTOR SHALL HAVE A COPY OF ALL APPLICABLE STANDARDS AND PLANS ON SITE FOR THE DURATION OF THE PROJECT.
- THE CONTRACTOR SHALL NOT STOCKPILE MATERIAL WITHIN 10 FEET OF THE EDGE OF TRAVELED WAY.

GENERAL NOTES con't.:

- WHERE PAVEMENT IS TO ABUT EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE REMOVED TO A NEAT VERTICAL LINE BY FULL DEPTH SAWING. SAWING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCIDENTAL TO "REMOVAL OF ASPHALT PAVEMENT". THE CONTRACTOR WILL BE REQUIRED TO PAINT THE EDGE OF CUT PAVEMENT WITH DILUTED EMULSIFIED ASPHALT (SLOW SETTING) PRIOR TO PAVING OPERATIONS. VERTICAL EDGES SHALL NOT REMAIN OVERNIGHT. DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF ONE PART EMULSIFIED ASPHALT AND ONE PART WATER.
- ASPHALT JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 401.16 OF THE STANDARD SPECIFICATIONS. A LONGITUDINAL JOINT AND PAVEMENT MARKING PLAN SHALL BE SUBMITTED AT LEAST 3 DAYS PRIOR TO THE PRE-PAVE CONFERENCE.
- ANY LAYER OF HOT MIX ASPHALT THAT IS TO HAVE SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED FULL WIDTH BEFORE SUCCEEDING LAYER IS PLACED.
- BEFORE PLACEMENT OF THE TACK COAT, THE CONTRACTOR SHALL CLEAN THE PRESENT ROADWAY AS DIRECTED. CLEANING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE PROJECT.
- A TACK COAT OF EMULSIFIED ASPHALT (SLOW SETTING) IS TO BE APPLIED BETWEEN PAVEMENT COURSES TO IMPROVE BOND. DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF 1 PART EMULSIFIED ASPHALT AND 1 PART WATER.
- THE FOLLOWING SHALL BE FURNISHED WITH EACH BITUMINOUS PAVER:
 - A SKI TYPE DEVICE AT LEAST 30 FEET IN LENGTH.
 - SHORT SKI OR SHOE.
- THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN TEMPORARY TRAFFIC CONTROL DEVICES NECESSARY THROUGHOUT THE DURATION OF CONSTRUCTION.
- THE CONTRACTOR SHALL AT THEIR EXPENSE, SUPPORT AND PROTECT ALL WATER MAINS SO THAT THEY WILL FUNCTION CONTINUOUSLY DURING CONSTRUCTION. TEMPORARY WATER SERVICE DISRUPTION SHALL BE DONE TO MINIMIZE THE EFFECTS ON UTILITIES CUSTOMERS. SHOULD A WATER MAIN FAIL AS A RESULT OF THE CONTRACTOR'S OPERATIONS, IT WILL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR.
- ANY DISCREPANCY WITHIN THESE PLANS SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND WORK SHALL STOP UNTIL THE DISCREPANCY IS DISCUSSED AND DECISIONS/AGREEMENTS HAVE BEEN MADE.

EARTHWORK:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LEGAL DISPOSAL OF ANY EXCESS SOIL, DEBRIS AND WASTE MATERIAL OFF OF THE PROJECT SITE.
- ANY MATERIAL NOT SUITABLE FOR BACKFILL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF, BY AND AT THE EXPENSE OF THE CONTRACTOR.
- ANY SOIL LYING BELOW THE SUBGRADE ELEVATION WHICH IS DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE REMOVED AND REPLACED WITH STRUCTURAL FILL IN ACCORDANCE WITH THE SPECIFICATION REQUIREMENTS.

BENCHMARK AND SURVEY CONTROL:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION STAKING OF BOTH HORIZONTAL AND VERTICAL LAYOUT ON THIS PROJECT. COORDINATES ARE REFERENCED IN THE COORDINATE LIST SHOWN ON THESE PLANS. THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT ENGINEER FOR INTERPRETATION AND INFORMATION IN STAKING OF THE PROJECT FOR CONSTRUCTION.
- PRIOR TO PROJECT COMPLETION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY PROPERTY MONUMENTATION DISTURBED OR REMOVED BY CONSTRUCTION OPERATIONS. THIS WORK SHALL BE PERFORMED BY A LAND SURVEYOR LICENSED IN THE STATE OF COLORADO. PROPERTY CORNERS WHICH FALL WITHIN NEW CONCRETE FLATWORK SHALL BE DURABLE AND SET FLUSH. THIS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

TRAFFIC GENERAL NOTES:

- THE CONTRACTOR SHALL PREPARE A DETAILED TRAFFIC CONTROL PLAN, SUBMIT TO CDOT FOR APPROVAL AND OBTAIN APPROPRIATE PERMITS IN ACCORDANCE WITH THE "TRAFFIC CONTROLS FOR STREET CONSTRUCTION, UTILITY WORK AND MAINTENANCE OPERATIONS", M.U.T.C.D. SUPPLEMENT, 2010.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL, INCLUDING DETOURS IF REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, AND MAINTAINING THE TEMPORARY TRAFFIC CONTROL DEVICES THROUGHOUT THE DURATION OF THE PROJECT.
- APPROVAL OF THESE PLANS DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
- THE APPROVAL OF THESE PLANS DOES NOT AUTHORIZE THE OWNER OR CONTRACTOR TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES.
- ALL TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL MEET OR EXCEED M.U.T.C.D. STANDARDS.
- THE CONTRACTOR SHALL NOT REMOVE ANY EXISTING SIGNS OR PAVEMENT MARKINGS DURING THE PROJECT WITHOUT SIGNED AUTHORIZATION OF THE FIELD ENGINEER ASSIGNED TO THE PROJECT.

STORM WATER GENERAL NOTES:

- ALL STORM DRAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROJECT DRAWINGS.
- IF AN UNKNOWN UTILITY IS ENCOUNTERED DURING EXCAVATION THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY IN WRITING AND WILL NOT PROCEED WITH CONSTRUCTION UNTIL FURTHER NOTICE.
- STORM SEWER PIPE SHALL BE CLASS III RCP, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL BE AWARE THAT WHEN DEBRIS IS DROPPED INTO THE STORM SYSTEM AND STRUCTURES, THEY ARE TO IMMEDIATELY REMOVE THE DEBRIS TO ELIMINATE THE POSSIBILITY OF PROPERTY DAMAGE DUE TO THE DEBRIS-CAUSING BACKUP INTO PRIVATE PROPERTIES. IF AND WHEN IT IS DETERMINED THAT DEBRIS CAUSED A BACKUP, THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR DAMAGES.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING, AND MAINTAINING, THE COLORADO DISCHARGE PERMIT SYSTEM (CDPS) STORMWATER CONSTRUCTION PERMIT FOR THIS PROJECT.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY NECESSARY DEWATERING PERMITS FOR THIS PROJECT.

GENERAL CONSTRUCTION NOTES:

- PAY ITEMS LISTED IN THE BID SCHEDULE ARE THE ONLY PAY ITEMS FOR THE PROJECT. ANY OTHER ITEMS NECESSARY FOR A COMPLETE PROJECT, BUT NOT SHOWN IN THE BID SCHEDULE SHALL BE CONSIDERED AN INCIDENTAL ITEM AND ITS COST IS TO BE INCLUDED IN OTHER ITEMS. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO BIDDING PROJECT. ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE EXCEPT AS NOTED.
- ANY CONTRACTOR-CAUSED DAMAGE TO UTILITY AND/OR SERVICE LINES SHOWN OR NOT SHOWN ON THE PLANS, SHALL BE REPAIRED OR REPLACED AT NO COST TO CDOT AND/OR THE TOWN OF PALMER LAKE AND SHALL BE ACCOMPLISHED BY THE CONTRACTOR, SUBCONTRACTOR OR AS APPROVED BY THE PROJECT ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO COMMENCING WORK IN THE PROJECT AREA. LIKEWISE, THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK AND THAT OF THE INVOLVED UTILITIES IN THE PROJECT AREA.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL LABOR, MATERIAL, EQUIPMENT AND INCIDENTAL ITEMS NEEDED TO PROVIDE ADEQUATE CONSTRUCTION SIGNING, BARRICADES, TRAFFIC CONTROL DEVICES AND OTHER RELATED ITEMS FOR THE PROJECT AREAS, DURING THE CONSTRUCTION PERIOD. THIS WORK SHALL BE INCLUDED IN THE CONSTRUCTION PHASING/MAINTENANCE OF TRAFFIC PAY ITEM.
- THE CONTRACTOR SHALL CAREFULLY REMOVE, STORE AND REINSTALL ALL SIGNS WHOSE REMOVAL IS REQUIRED BY THIS CONSTRUCTION WORK IN THE PROJECT AREAS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR CDOT AND/OR THE TOWN OF PALMER LAKE TO INSPECT ALL SIGNS SCHEDULED FOR REMOVAL PRIOR TO THEIR REMOVAL. ONCE SAID SIGNS HAVE BEEN REMOVED, IT WILL BE ASSUMED THAT THEY WERE IN GOOD CONDITION AT THE TIME OF REMOVAL. ANY SIGNS DAMAGED OR LOST BY THE CONTRACTOR SHALL BE REPLACED AT NO COST TO CDOT AND/OR THE TOWN OF PALMER LAKE. MATERIALS SHALL BE APPROVED BY THE PROJECT ENGINEER. ALL POST-MOUNTED SIGNS SHALL BE RESET AT THE PROPER HEIGHT AND LOCATION AS SHOWN WITHIN THESE PLANS.
- ALL PAVED DRIVEWAY REMOVALS SHALL BE BOUNDED BY JOINTS OR SAWCUTS. SAWCUTS ARE TO BE CONSIDERED AN INCIDENTAL ITEM AND THE COST OF THIS ITEM IS TO BE INCLUDED IN OTHER PAY ITEMS.
- THE CONTRACTOR SHALL TAKE SPECIAL CARE NOT TO DAMAGE TREES AND SHRUBS UNLESS SO DIRECTED BY THE PROJECT ENGINEER.
- APPROXIMATELY 120 L.F. OF ORANGE PLASTIC SAFETY FENCE WILL BE REQUIRED TO BE PLACED AROUND TREES THAT ARE MARKED IN THE PLANS FOR PROTECTION. THE ORANGE PLASTIC SAFETY FENCE SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO THE START OF WORK. THIS WORK IS TO BE CONSIDERED AN INCIDENTAL ITEM AND THE COST OF THIS ITEM IS TO BE INCLUDED IN OTHER PAY ITEMS.
- ANY SURPLUS EXCAVATION TO INCLUDE BUT NOT LIMITED TO THE REMOVAL OF LANDSCAPING FOR ROADWAY AND DITCH INSTALLATION SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND DISPOSAL SHALL BE THE CONTRACTOR'S RESPONSIBILITY AT NO ADDITIONAL COST.
- EXCAVATION REQUIRED FOR COMPACTION OF BASES OF CUTS AND FILLS WILL BE CONSIDERED AS SUBSIDIARY TO THAT OPERATION AND WILL NOT BE PAID FOR SEPARATELY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SURVEYING AND CONSTRUCTION STAKING FOR THE PROJECT. ALL GRADING AND SURFACING SHALL BE IN ACCORDANCE WITH THE PLAN SHEETS AND THE PROJECT SPECIFICATIONS.
- THE CONTRACTOR SHALL REMOVE AND STOCKPILE ALL SALVAGED TOPSOIL TO BE USED LATER AS BACKFILL IN THE RESTORATION OF DISTURBED AREAS. THIS WORK IS TO BE CONSIDERED AN INCIDENTAL ITEM AND THE COST OF THIS ITEM IS TO BE INCLUDED IN OTHER PAY ITEMS.
- THE CONTRACTOR SHALL LEVEL ALL DISTURBED AREAS WITH TOPSOIL AND HAND-RAKE TO A UNIFORM APPEARANCE. THE AREA SHALL BE SEEDED WITH PROTECTIVE STRAW MAT COVER. THIS WORK IS TO BE CONSIDERED AN INCIDENTAL ITEM.
- CAUTION: FOR UNDERGROUND UTILITY LOCATIONS, CONTACT 811 PRIOR TO EXCAVATION. ALL COSTS ASSOCIATED WITH THE LOCATION AND VERIFICATION OF EXISTING UTILITIES SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL DRIVEWAY CLOSINGS WITH THE RESPECTIVE PROPERTY OWNERS AND TENANTS IF PROPERTY IS RENTED. REMOVED PORTIONS OF EXISTING DRIVES SHALL BE REPLACED IN KIND.
- PROPERTY OWNERS WILL BE NOTIFIED BY THE TOWN OF PALMER LAKE PRIOR TO CONSTRUCTION THAT IT WILL BE THE OWNER'S RESPONSIBILITY TO REMOVE TREES, SHRUBS OR OTHER PROPERTY WHICH THEY INTEND TO KEEP. IF THE ITEMS ARE NOT REMOVED AT THE TIME OF CONSTRUCTION AND ARE WITHIN THE PROPOSED CONSTRUCTION AREAS, THE MISC. ITEMS AND/OR VEGETATION REMOVED SHALL BE PLACED ON THE PROPERTY OWNER'S LAND OR DISPOSED OF OFFSITE AS DIRECTED BY THE PROJECT ENGINEER. THIS WORK SHALL BE INCLUDED IN THE CLEARING AND GRUBBING PAY ITEM.
- AT THE COMPLETION OF CONSTRUCTION, AND PRIOR TO PROJECT CLOSEOUT, THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF PLANS MARKED "AS-BUILT". THE PLANS SHALL SHOW ANY VARIATIONS FROM THE APPROVED PLAN SET.

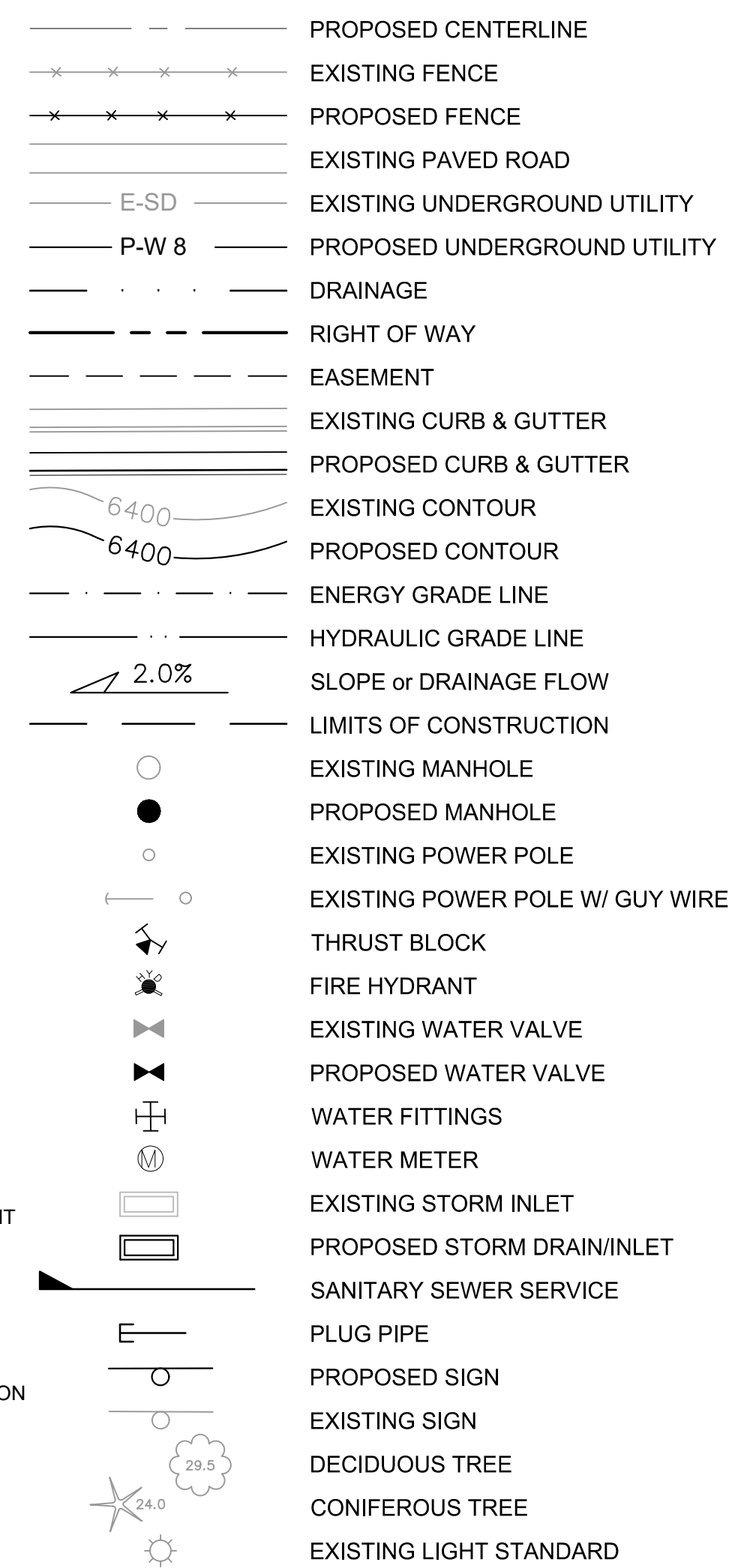
ABBREVIATIONS:

AD	ALGEBRAIC DIFFERENCE
ASSY	ASSEMBLY
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
APPROX	APPROXIMATE or APPROXIMATELY
AVE	AVENUE
AVG	AVERAGE
B/C	BACK OF CURB
¢ or B/L	BASELINE
BLVD	BOULEVARD
BTM	BOTTOM
CI	CAST IRON
CEN	CENTER
¢ or CL	CENTERLINE
CFS	CUBIC FEET PER SECOND
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
EA	EACH
EGL	ENERGY GRADE LINE
ELEV or EL	ELEVATION
ELL	ELBOW
ESMT	EASEMENT
EW	EACHWAY
EX or EXIST	EXISTING
FES	FLARED END SECTION
FIN	FINISHED
¢ or FL	FLOWLINE
FLG	FLANGE
FT	FOOT / FEET
FRP	FIBERGLASS REINFORCED PIPE
GAL	GALLON
GALV	GALVANIZED
GAU	GAUGE (MATERIAL)
GV	GATE VALVE
GW	GROUNDWATER
HBP	HOT BITUMINOUS PAVEMENT
HGL	HYDRAULIC GRADE LINE
HP	HIGH POINT
HORIZ	HORIZONTAL
HCL	HORIZONTAL CONTROL LINE
HR	HOUR
INV	INVERT
K	VERTICAL CURVE FACTOR
LBS	POUNDS
LF	LINEAR FEET
LN	LANE
LP	LOW POINT
LS	LANDSCAPING
LT	LEFT
MAX MFR	MAXIMUM MANUFACTURER
MH	MANHOLE
MID	MIDDLE or MIDPOINT
MIN	MINIMUM
MJ	MECHANICAL JOINT
MSL	MEAN SEA LEVEL
NC	NORMAL CROWN
NO	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
O/S	OFFSET
P	PROPOSED
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PCR	POINT OF CURB RETURN
PE	PLAIN END
PIE	PUBLIC IMPROVEMENT EASEMENT
PGL	PROFILE GRADE LINE
¢ or PL	PROPERTY LINE
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVE or POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVT	POINT OF VERTICAL TANGENT

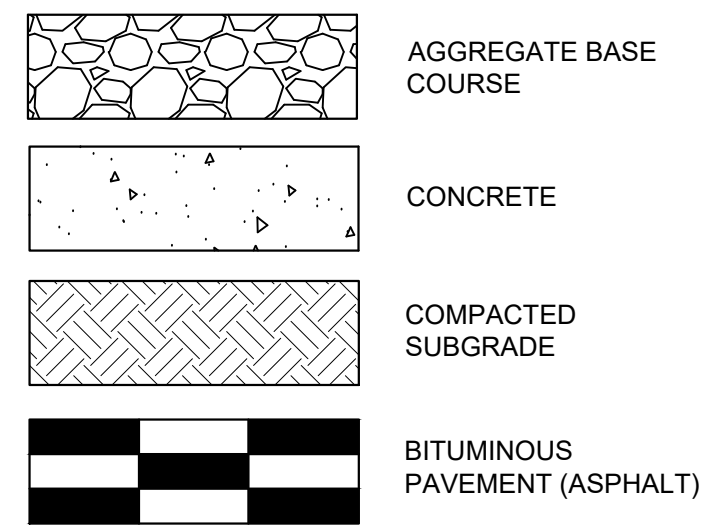
ABBREVIATIONS con't.:

R or RAD	RADIUS
RC	REVERSE CROWN
RCP	REINFORCED CONCRETE PIPE
RED	REDUCER
REF	REFERENCE
REINF	REINFORCING
REQ	REQUIRED
REV	REVISION
ROW	RIGHT-OF-WAY
RT	RIGHT
SCH	SCHEDULE
SD	STORM SEWER
SQ	SQUARE
ST	STREET
STA	STATION
STD	STANDARD
STL	STEEL
SS or SAN	SANITARY SEWER
SW or S/W	SIDEWALK
TAN	TANGENT
TB	THRUST BLOCK
TBC	TOP BACK OF CURB
TFC	TOP FACE OF CURB
THD	THREADED
THK or THICK	THICKNESS
TYP	TYPICAL
UG	UNDERGROUND
UTIL	UTILITY
VC	VERTICAL CURVE
VERT	VERTICAL
W	WIDTH
W/	WITH

SYMBOLS:

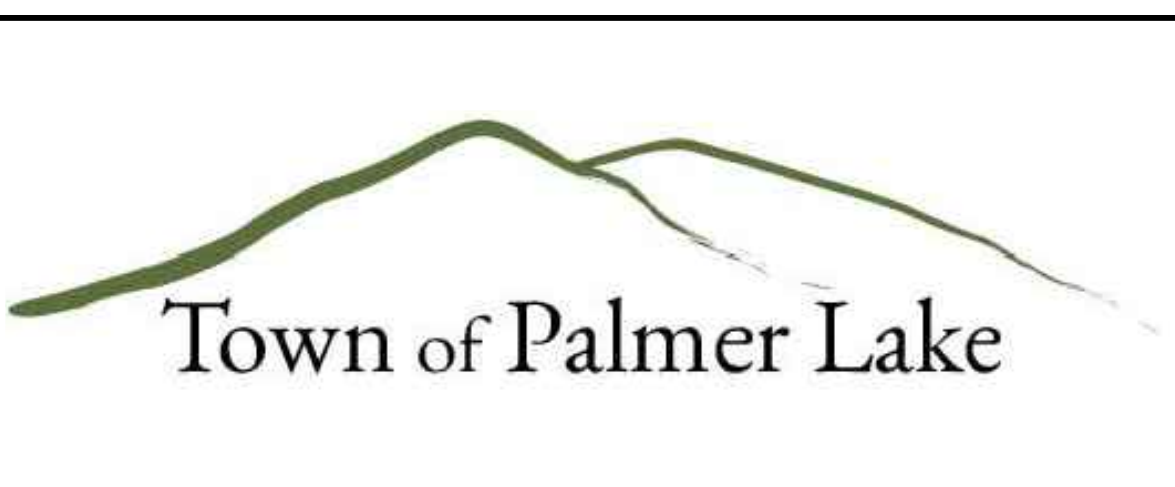


MATERIALS LEGEND



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PLOT DATE: 11/19/2018 4:03 PM				
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PREPARED BY:

 Matrix DESIGN GROUP
 AN EMPLOYEE-OWNED COMPANY
 2435 RESEARCH PARKWAY
 SUITE 300
 COLORADO SPRINGS, CO. 80920
 PH (719) 575-0100

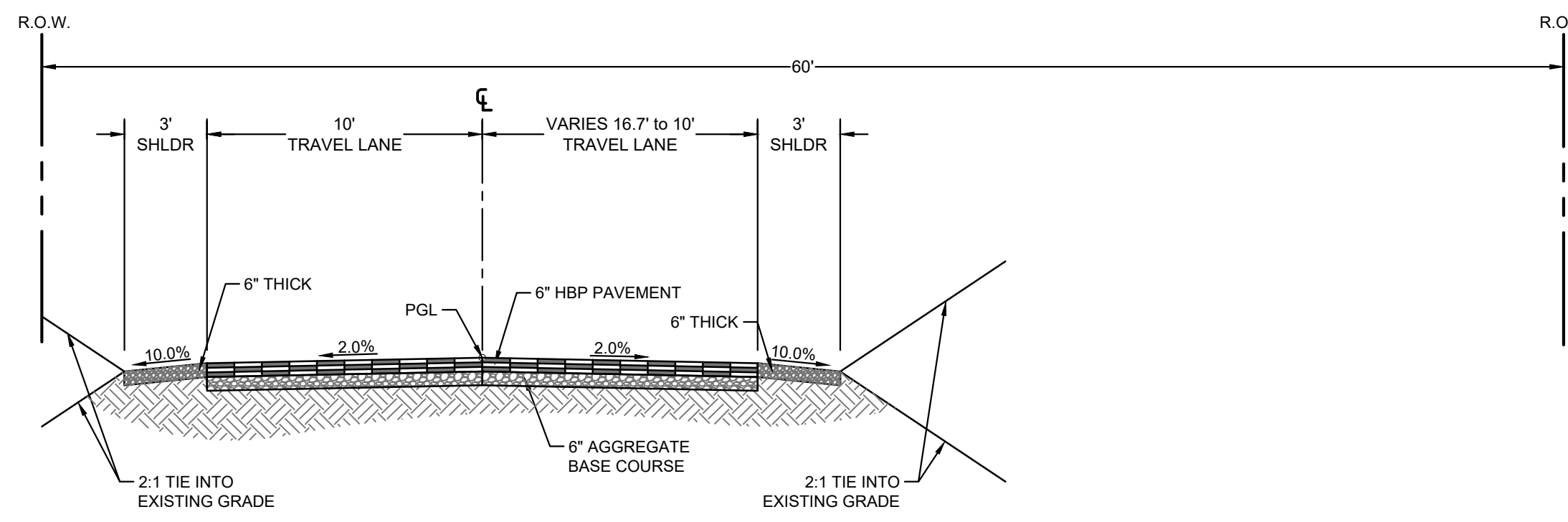
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DOUGLAS AVE ROADWAY AND DRAINAGE IMPROVEMENTS

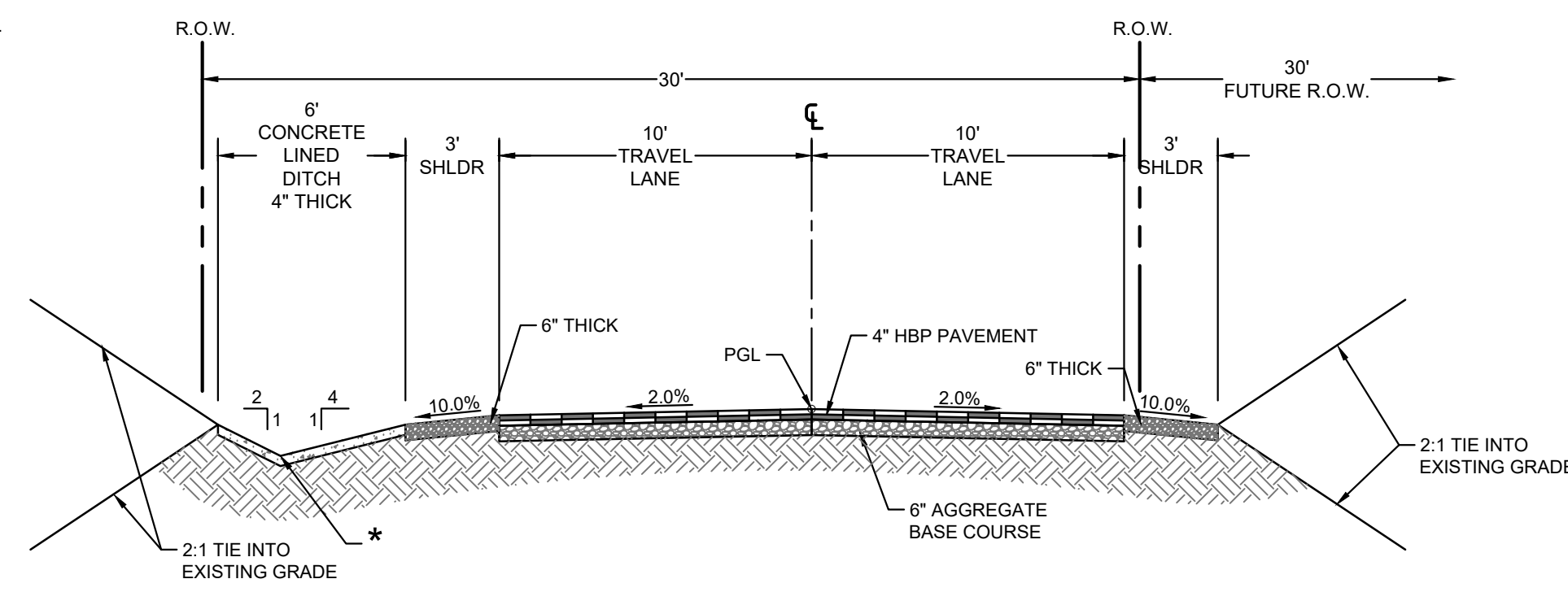
TOWN OF PALMER LAKE
 ROADWAY & DRAINAGE IMPROVEMENT PLAN

GENERAL NOTES

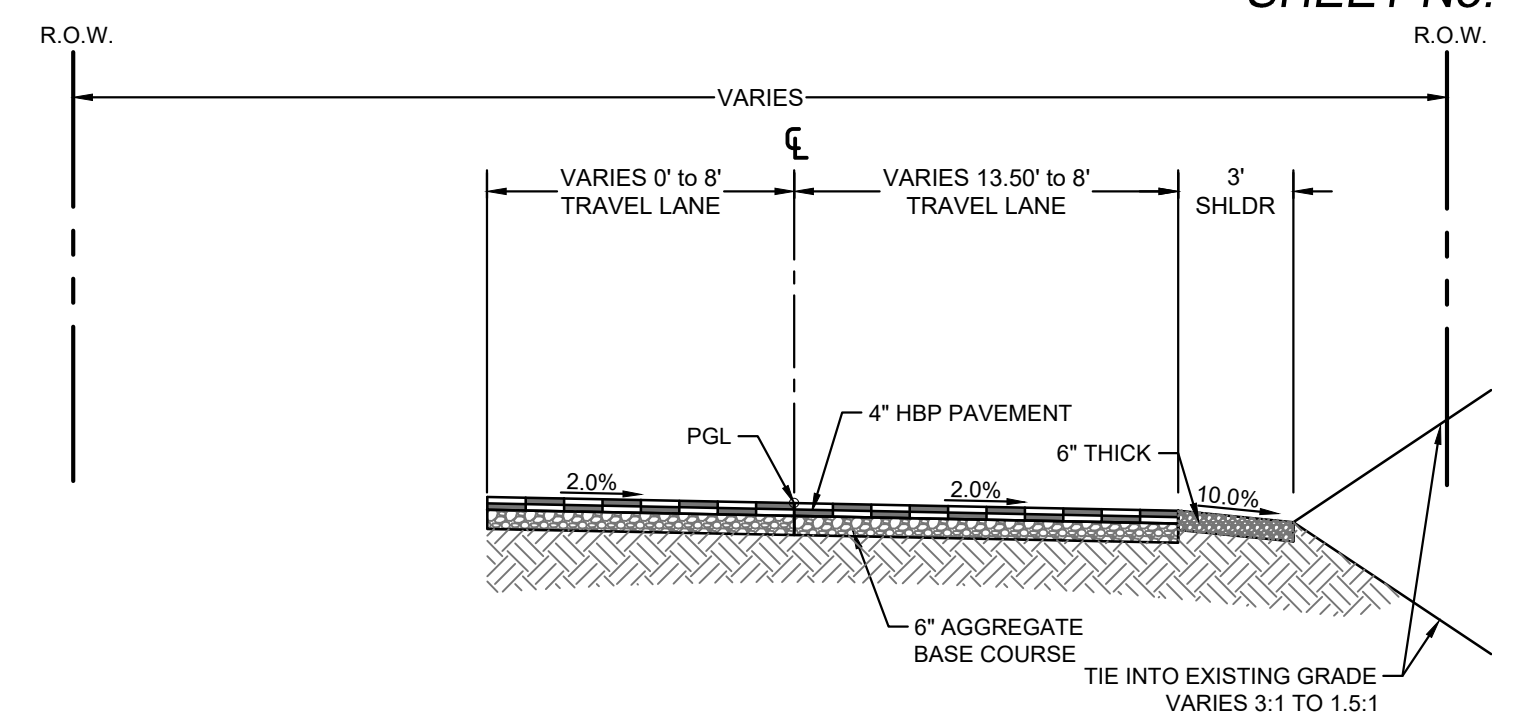
DESIGNED BY: MHH	SCALE	DATE ISSUED: OCTOBER 19, 2018	DRAWING No.
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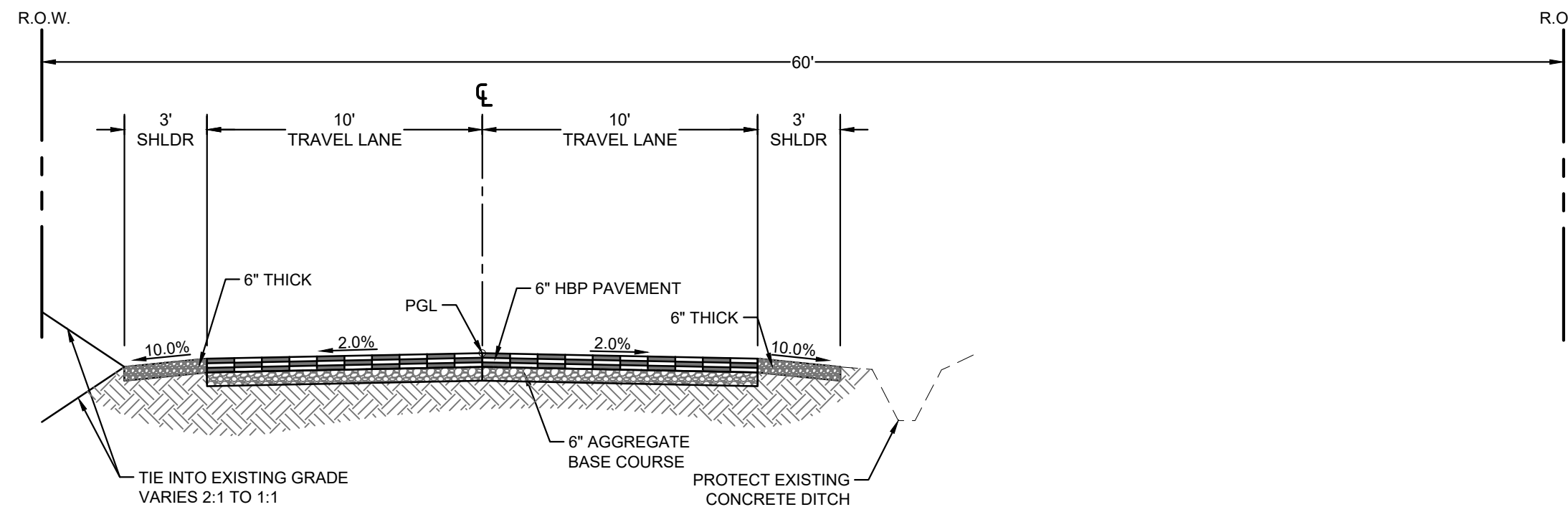
SUN CREST ROAD
STA. 10+36.07 to STA. 11+52.10
NTS



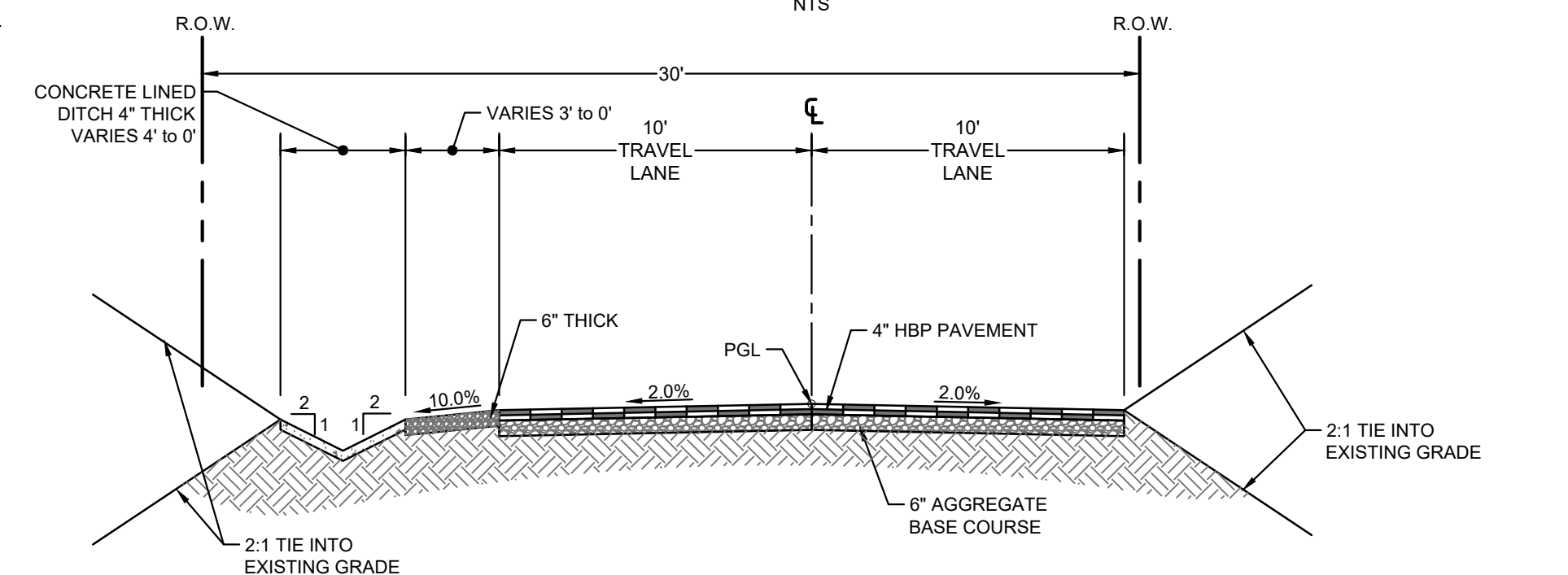
FOREST VIEW ROAD
STA. 51+00.00 to STA. 54+15.25
STA. 54+75.25 to STA. 55+27.85
NTS



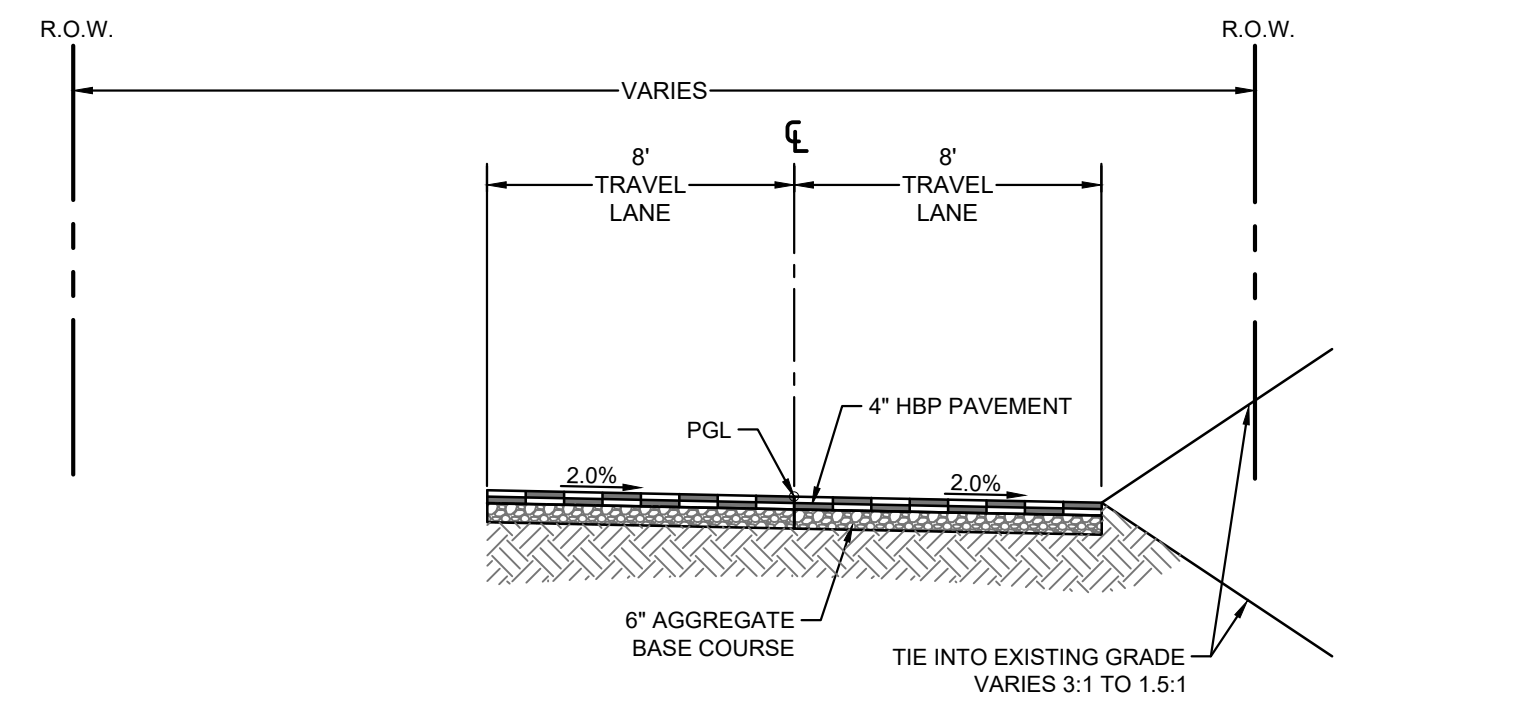
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STA. 30+00.00 to STA. 30+95.12
NTS



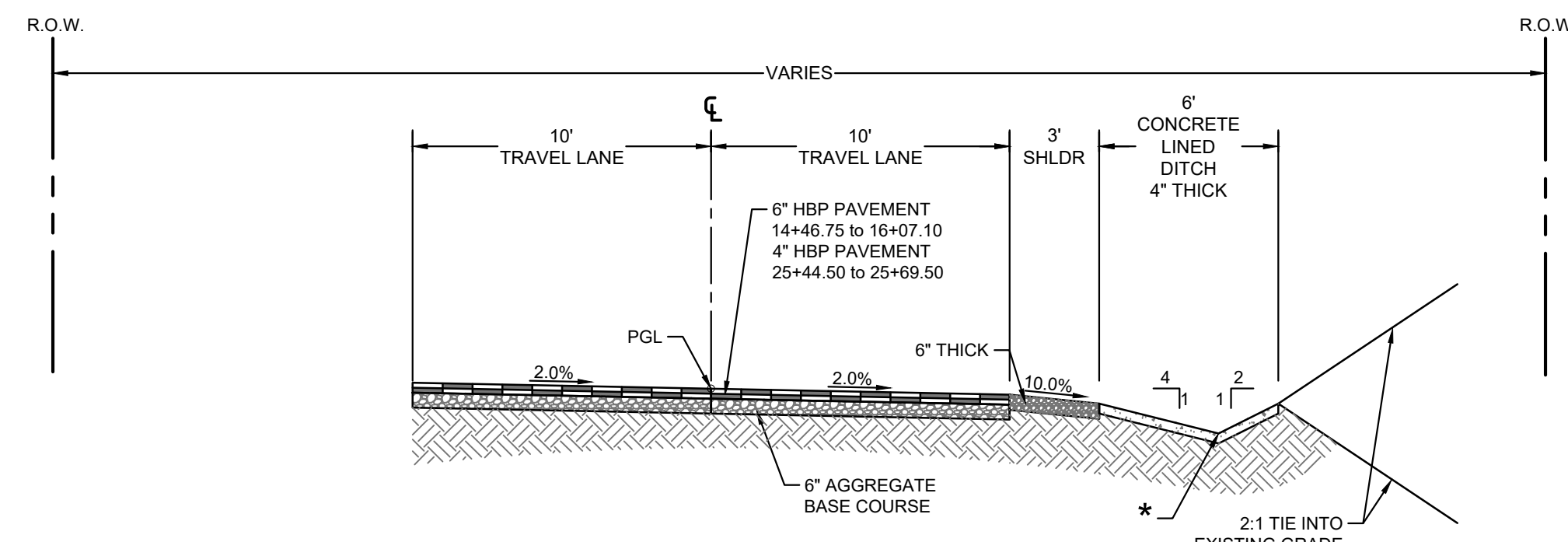
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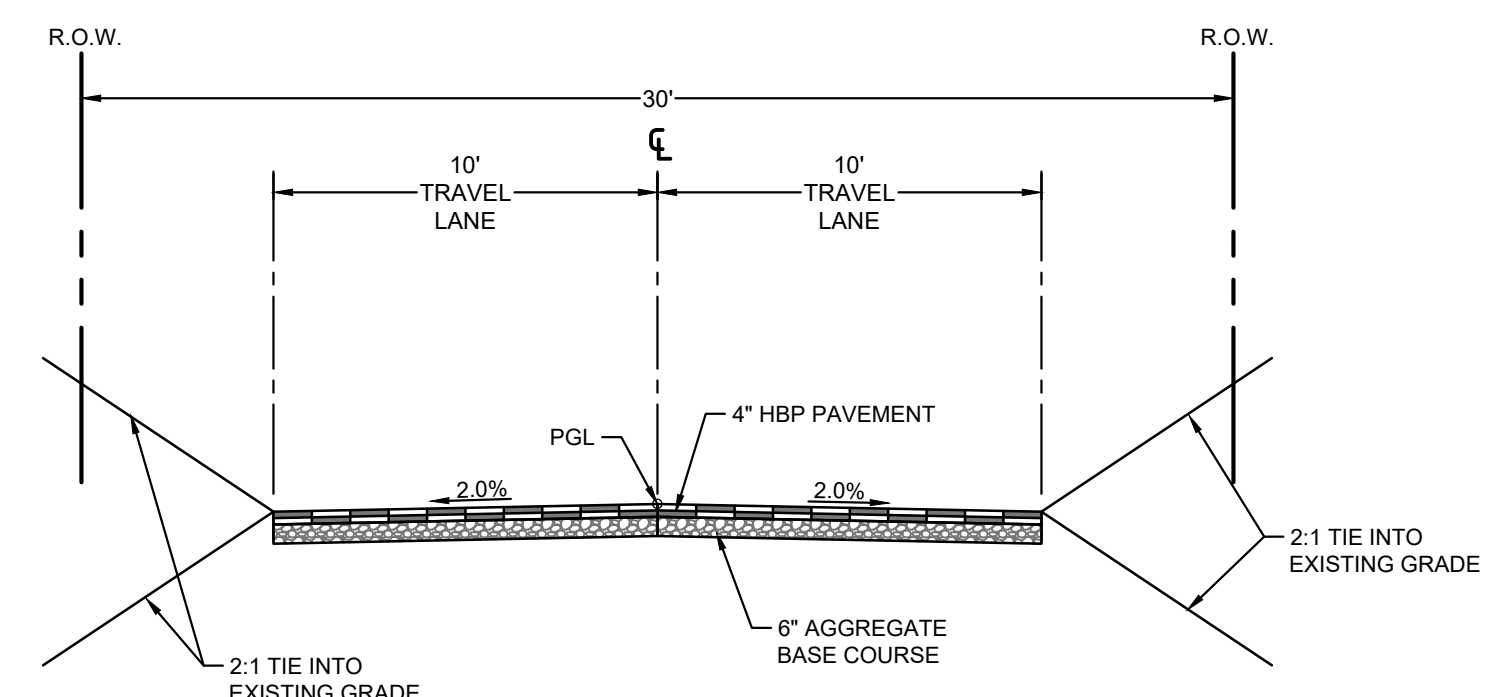
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NTS



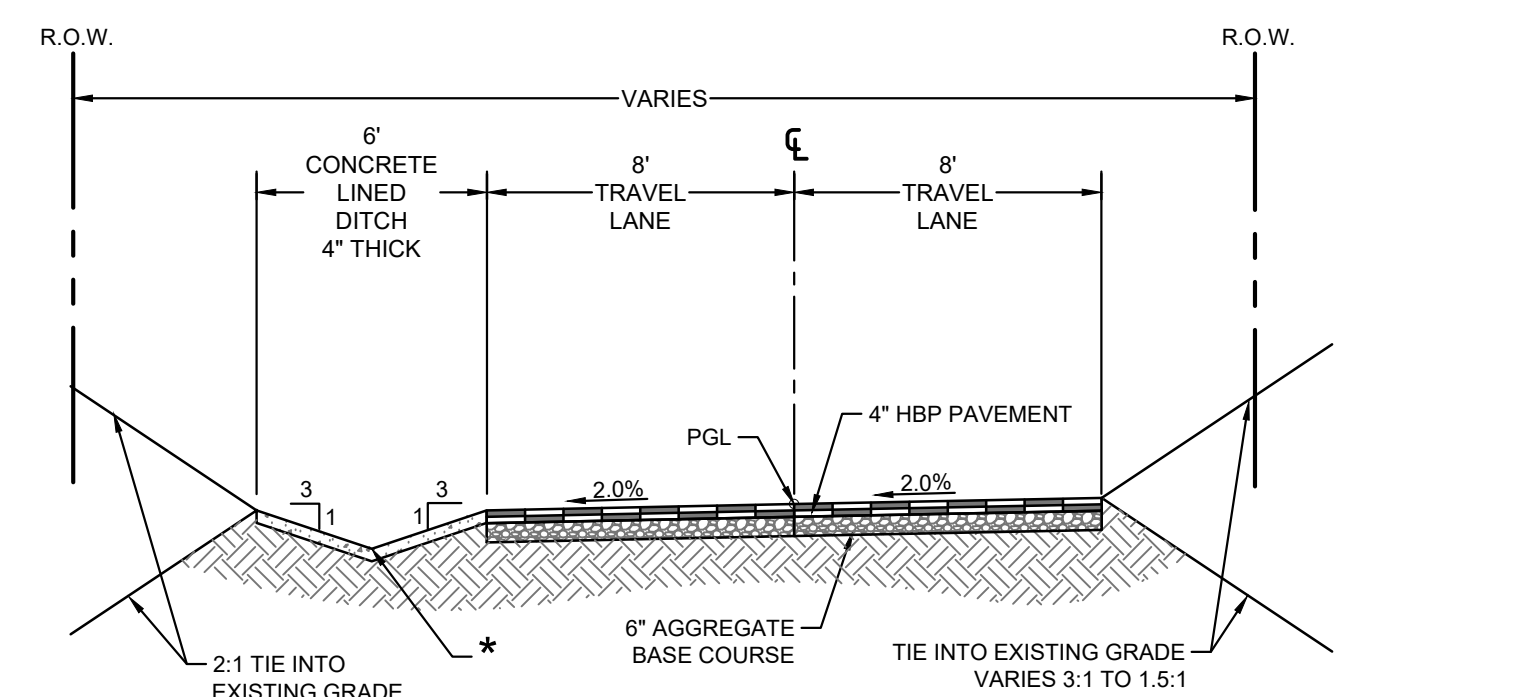
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NTS



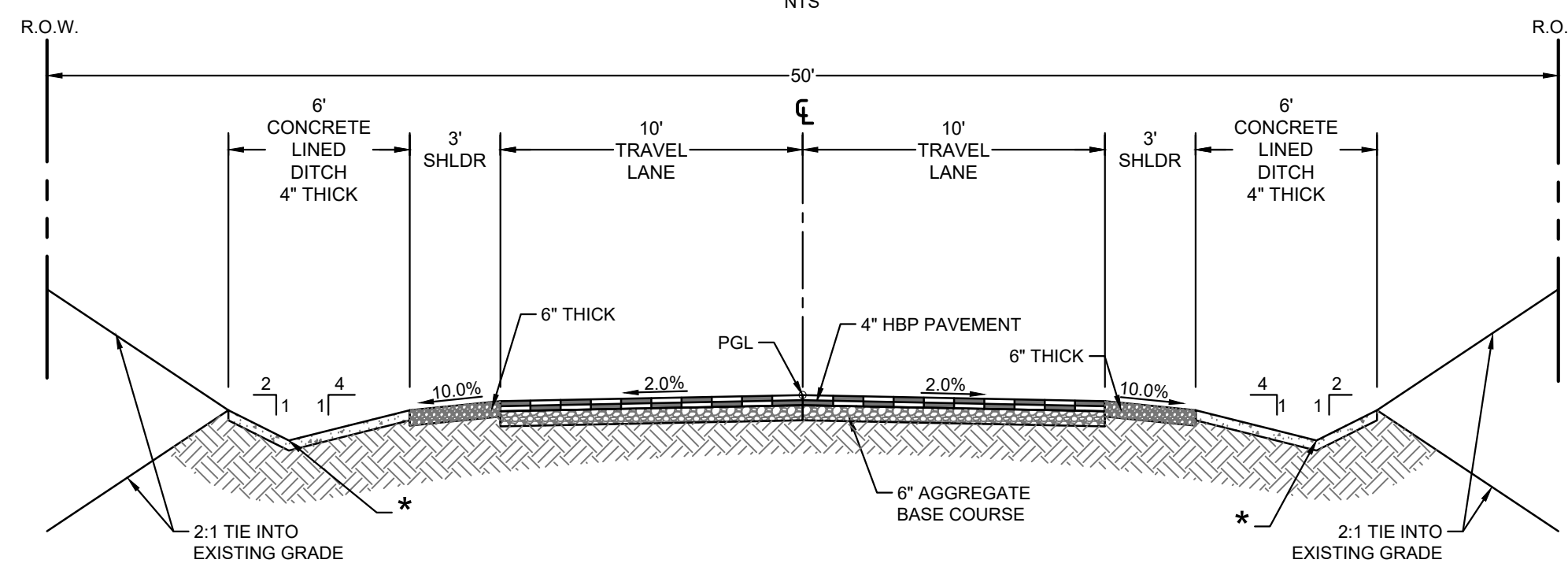
DOUGLAS AVENUE
STA. 14+46.75 to STA. 15+65.09
STA. 25+44.50 to STA. 25+69.50
NTS



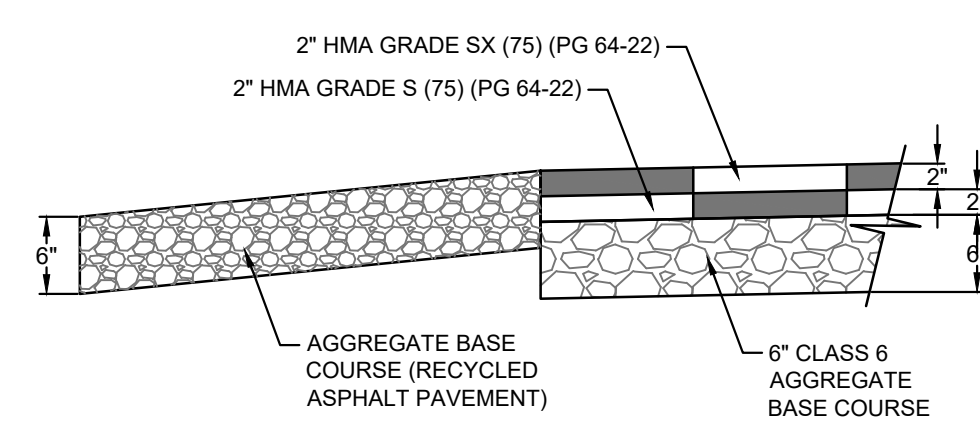
HILLTOP ROAD
STA. 40+29.69 to STA. 40+60.08
NTS



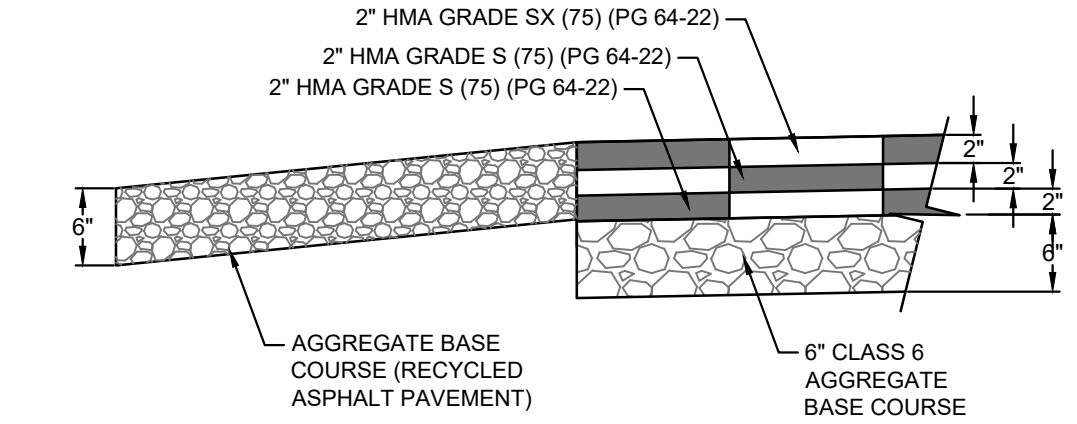
TRINIDAD LANE
STA. 31+41.68 to STA. 31+79.50
NTS



DOUGLAS AVENUE
STA. 16+07.10 to STA. 25+30.50
STA. 25+83.50 to STA. 28+70.26
NTS



4" PAVEMENT SECTION
NTS



6" PAVEMENT SECTION
NTS

- NOTE:**
- ABC (RAP) (SHOULDER MIX) (6 INCH) SHALL CONFORM TO THE GRADATION REQUIREMENTS OF SECTION 703-03 OF THE STANDARD SPECIFICATIONS.
 - SEE CULVERT PLAN AND PROFILE SHEETS FOR DEPTH AT THE PIPE CROSSINGS

REFERENCE DRAWINGS	No.	DATE	DESCRIPTION REVISIONS	BY
X-MD622x34				

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Town of Palmer Lake

PREPARED BY:
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SEAL

FOR AND ON BEHALF OF
 MATRIX DESIGN GROUP, INC.
 PROJECT No. 16.675.005

DOUGLAS AVE ROADWAY AND DRAINAGE IMPROVEMENTS

TOWN OF PALMER LAKE
ROADWAY & DRAINAGE IMPROVEMENT PLAN

TYPICAL SECTION

DESIGNED BY: MHH	SCALE: N/A	DATE ISSUED: OCTOBER 19, 2018	DRAWING No. TY01
CHECKED BY: SDB	VERT. N/A	SHEET 3 OF 30	



Know what's below.
Call before you dig.

PROJECT SUMMARY OF APPROXIMATE QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	PROJECT	
			PLAN	AS CONST.
201-00000	CLEARING AND GRUBBING	LS	1	
202-00026	REMOVE CONCRETE DITCH PAVEMENT	SY	160	
202-00035	REMOVE PIPE	LF	310	
202-00047	REMOVE ELECTRICAL EQUIPMENT	LS	1	
202-00210	REMOVE CONCRETE PAVEMENT	SY	3	
202-00220	REMOVE ASPHALT MAT	SY	44	
203-00010	UNCLASSIFIED EXCAVATION	CY	879	
206-00200	STRUCTURAL BACKFILL (CLASS 2)	CY	43	
206-01000	BED COURSE MATERIAL	CY	38	
208-00001	SILT DIKE	LF	55	
208-00008	EROSION LOG TYPE 1 (9 INCH)	LF	55	
208-00011	EROSION BALES (WEED FREE)	EA	10	
208-00020	SILT FENCE	LF	1,610	
208-00033	SEDIMENT TRAP	EA	2	
208-00041	ROCK CHECK DAM	EA	50	
208-00045	CONCRETE WASHOUT STRUCTURE	EA	1	
208-00051	STORM DRAIN INLET PROTECTION (TYPE 1)	EA	20	
208-00070	VEHICLE TRACKING PAD	EA	1	
208-00103	REMOVAL AND DISPOSAL OF SEDIMENT (LABOR)	HR	120	
208-00207	EROSION CONTROL MANAGEMENT	DAY	20	
210-00011	RESET MAILBOX STRUCTURE (TYPE 1)	EA	2	
210-01000	RESET FENCE	LF	120	
210-02900	RELAY RIPRAP	CY	8	
210-04010	ADJUST MANHOLE (SAN SEWER)	EA	6	
210-04050	ADJUST VALVE BOX (WATER)	EA	5	
212-00006	SEEDING NATIVE	AC	0.27	
213-00002	MULCHING (WEED FREE HAY)	AC	0.27	
216-00201	SOIL RETENTION BLANKET (CLASS 1)	SY	232	
304-06007	AGGREGATE BASE COURSE (CLASS 6) (6 INCH)	CY	1,009	
304-09100	AGGREGATE BASE COURSE (RECYCLED ASPHALT PAVEMENT)	TN	501	
403-33742	HOT MIX ASPHALT PAVEMENT (GRADING S) (75) (pg 64-22) (2 INCH)	SY	7,482	
403-34742	HOT MIX ASPHALT PAVEMENT (GRADING SX) (75) (pg 64-22) (2 INCH)	SY	6,020	
506-00212	RIPRAP (12 INCH)	CY	89	
507-00100	CONCRETE SLOPE AND DITCH PAVING (REINF) (4 INCH)	CY	214	
601-01050	CONCRETE CLASS B (HEADWALL)	CY	4	
602-00000	REINFORCING STEEL (HEADWALL)	LB	166	
603-01185	18 INCH RCP (CIP)	LF	100	
603-01245	24 INCH RCP (CIP)	LF	118	
603-05024	24 INCH RCES	EA	1	
603-50018	18 INCH HDPE (CIP)	LF	412	
620-00020	SANITARY FACILITY	EA	1	
625-00000	CONSTRUCTION SURVEYING	LS	1	
626-00000	MOBILIZATION	LS	1	
627-00005	EPOXY PAVEMENT MARKING	GAL	40	
627-30410	PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP LINE)	SF	32	
630-80000	TRAFFIC CONTROL	LS	1	
700-70380	EROSION CONTROL	FA	1	
700-70010	F/A MINOR CONTRACT REVISIONS	FA	1	

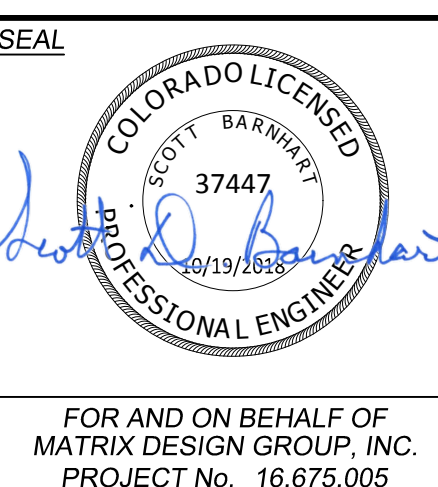
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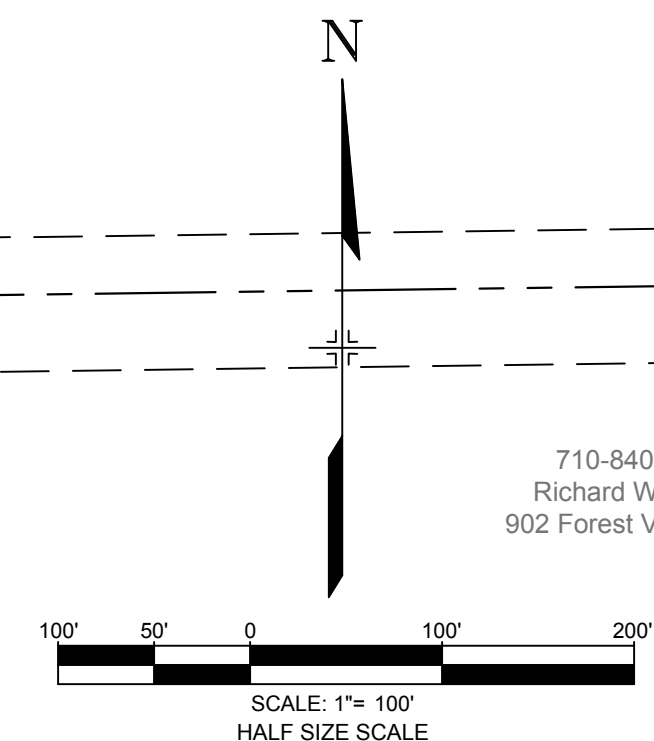
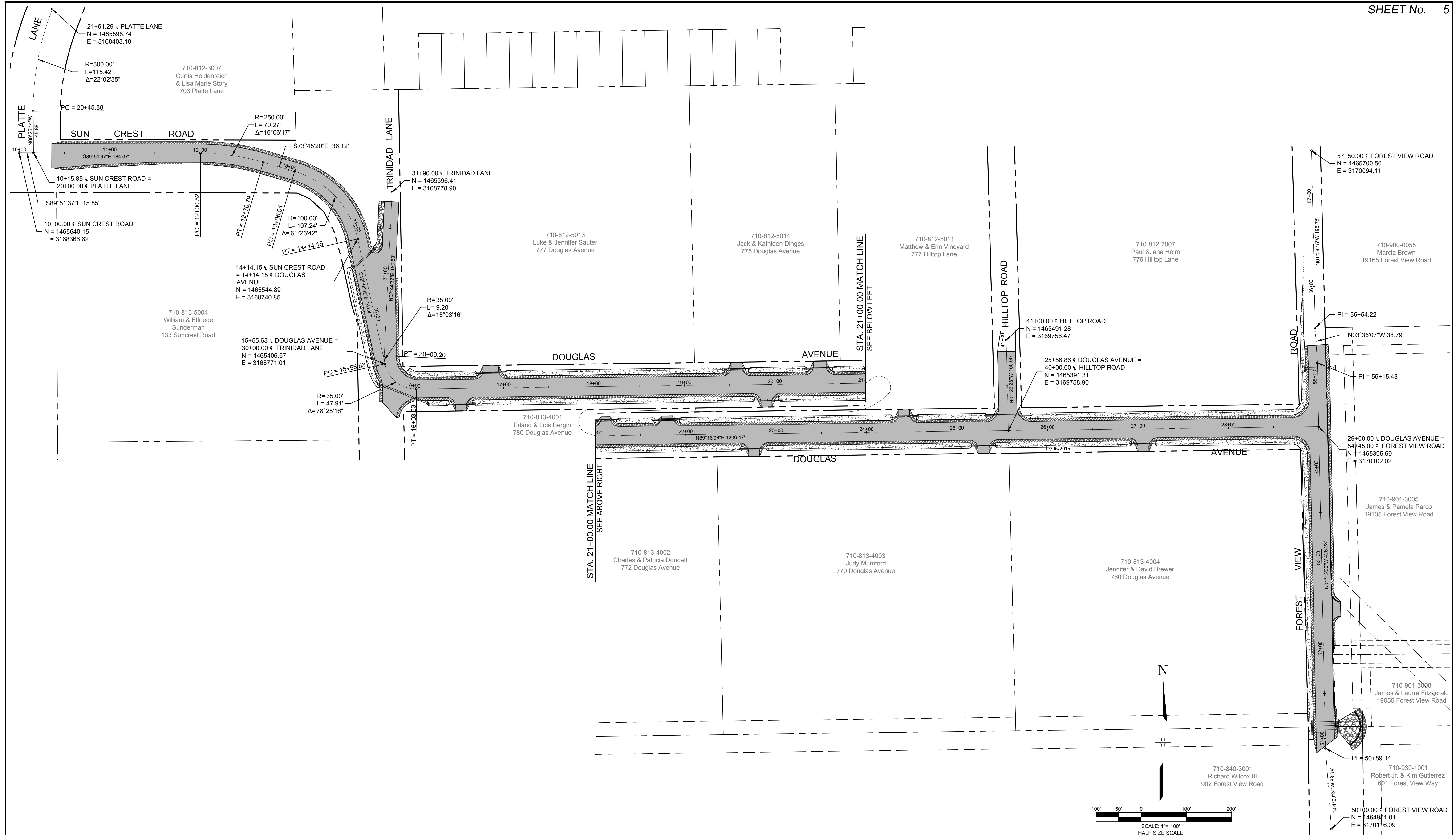


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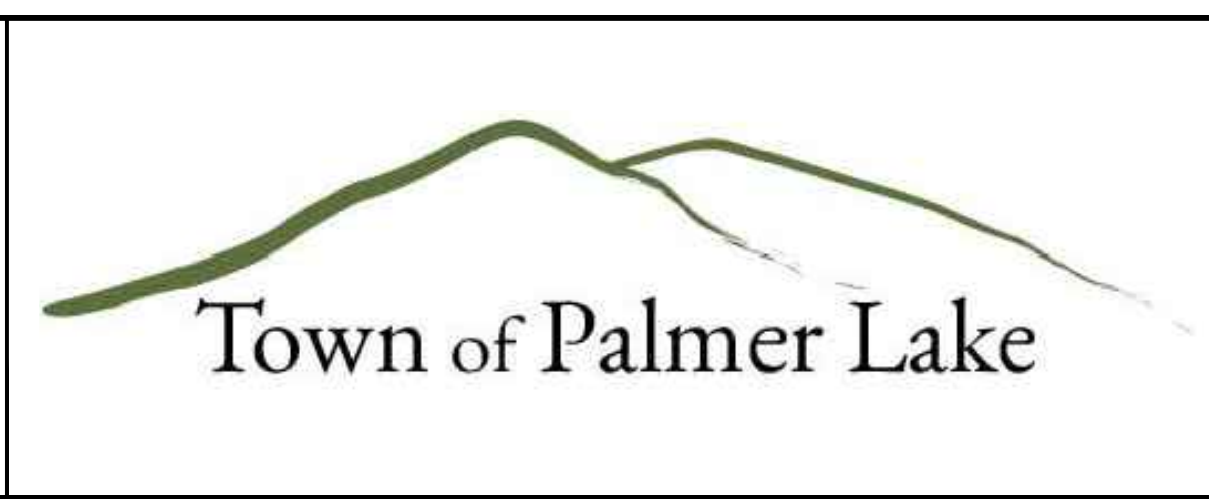


DOUGLAS AVE ROADWAY AND DRAINAGE IMPROVEMENTS			
TOWN OF PALMER LAKE ROADWAY & DRAINAGE IMPROVEMENT PLAN			
SUMMARY OF APPROXIMATE QUANTITIES			
DESIGNED BY: MHH	SCALE	DATE ISSUED: OCTOBER 19, 2018	DRAWING No.
DRAWN BY: MHH	HORIZ N/A		
CHECKED BY: SDB	VERT. N/A	SHEET 4 OF 30	SQ01

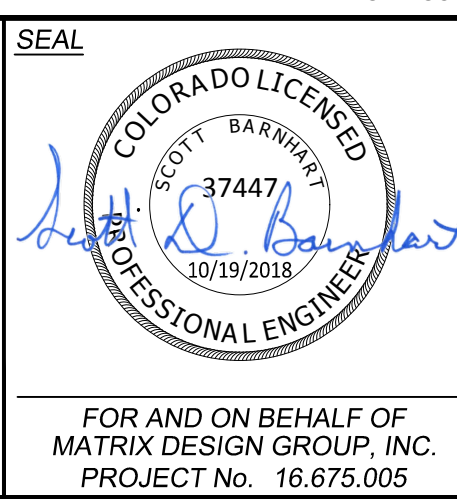


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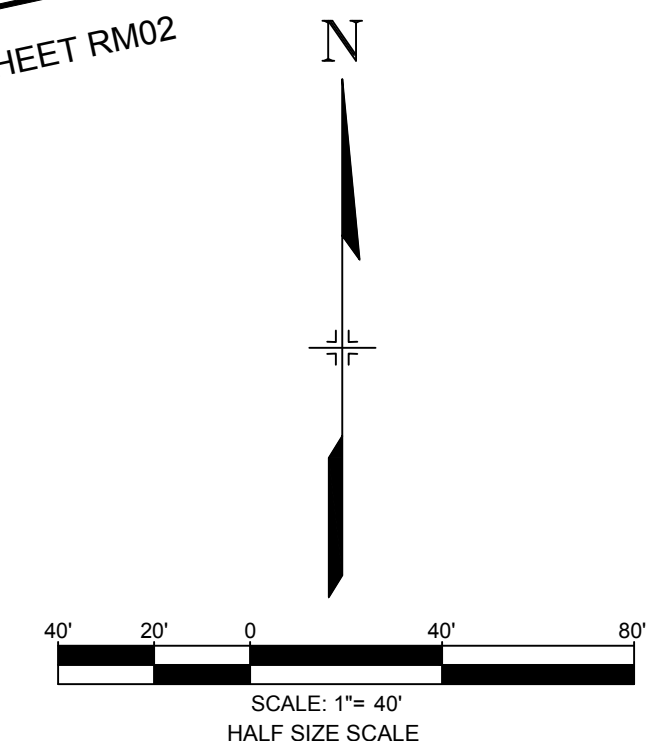
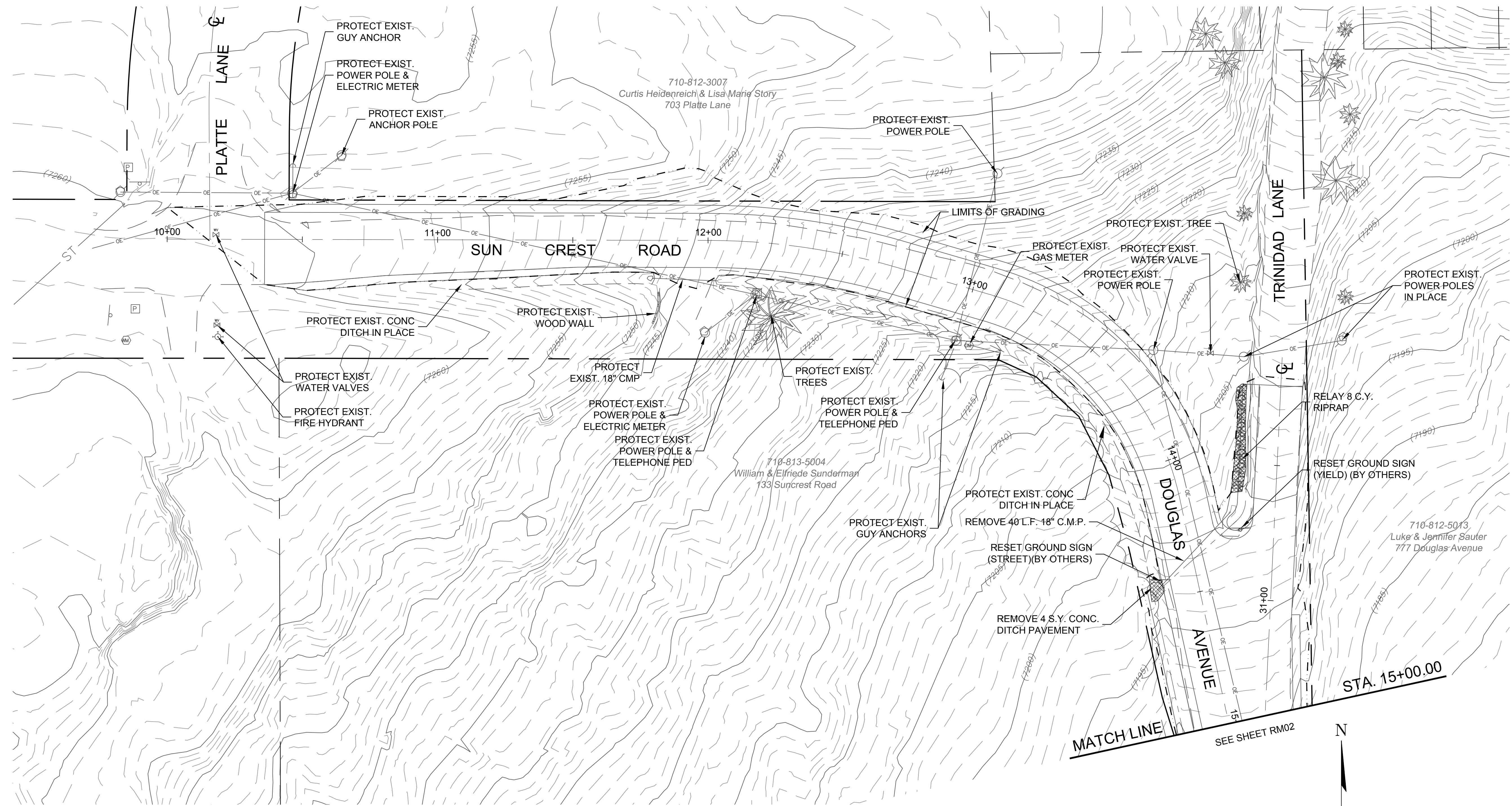
PREPARED BY:
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 COLORADO SPRINGS, CO. 80920
 PH (719) 575-0100



DOUGLAS AVE ROADWAY AND DRAINAGE IMPROVEMENTS				
TOWN OF PALMER LAKE ROADWAY & DRAINAGE IMPROVEMENT PLAN				
ROADWAY GEOMETRIC PLAN				
DESIGNED BY: MHH	SCALE: N/A	DATE ISSUED: OCTOBER 19, 2018	DRAWING No. GP01	
CHECKED BY: SDB	HORIZ: N/A	SHEET: 5 OF 30		

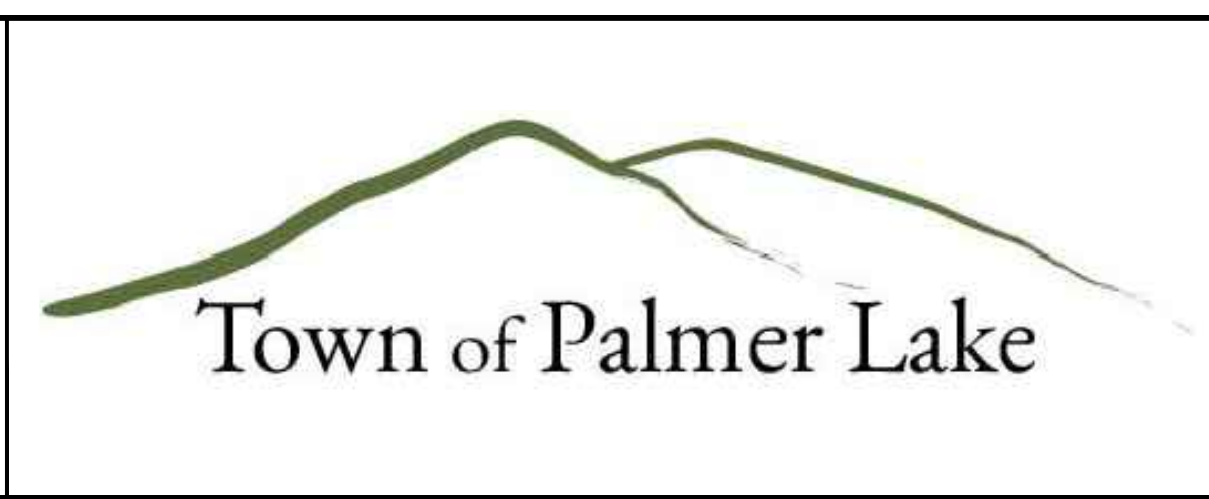


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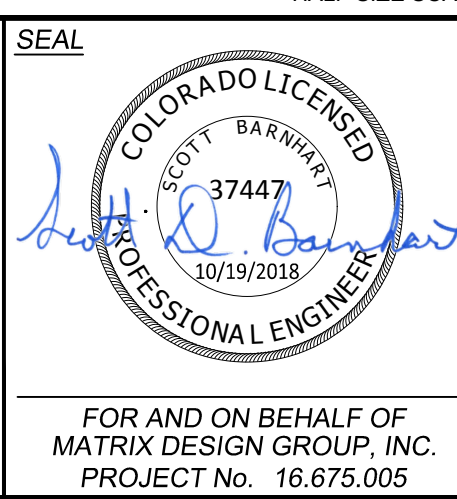


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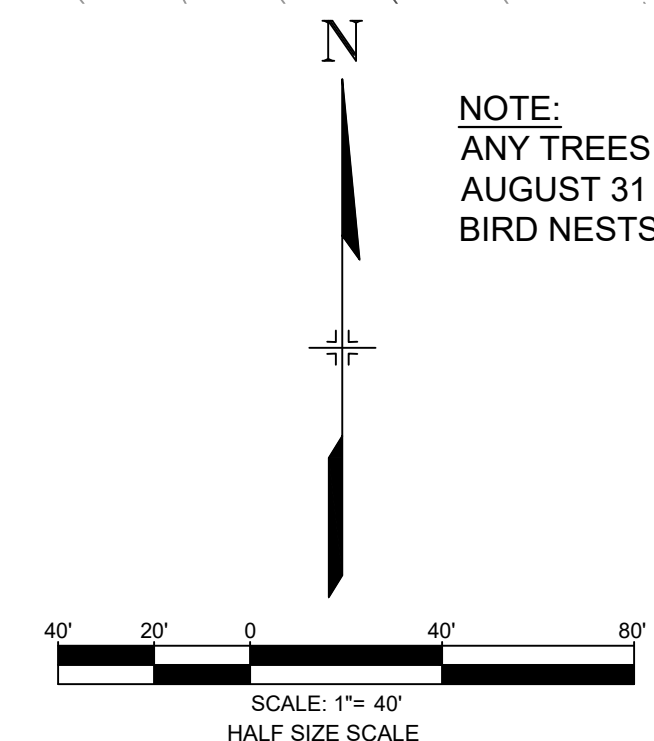
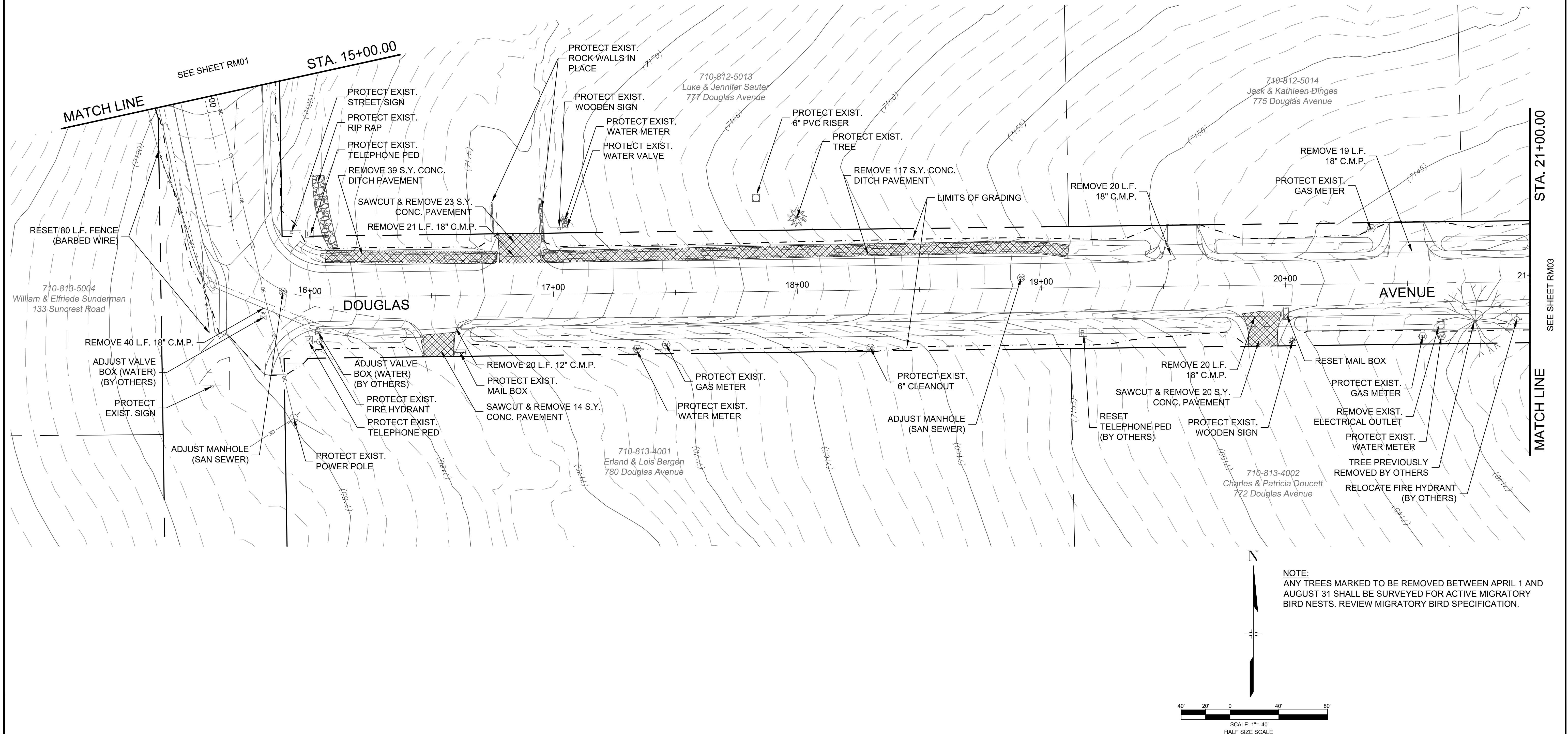
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PH (719) 575-0100



DOUGLAS AVE ROADWAY AND DRAINAGE IMPROVEMENTS			
TOWN OF PALMER LAKE ROADWAY & DRAINAGE IMPROVEMENT PLAN			
DEMOLITION & REMOVAL PLAN			
DESIGNED BY: MHH	SCALE: 1"=20'	DATE ISSUED: OCTOBER 19, 2018	DRAWING No. RM01
CHECKED BY: SDB	HORIZ: N/A	SHEET: 6 OF 30	



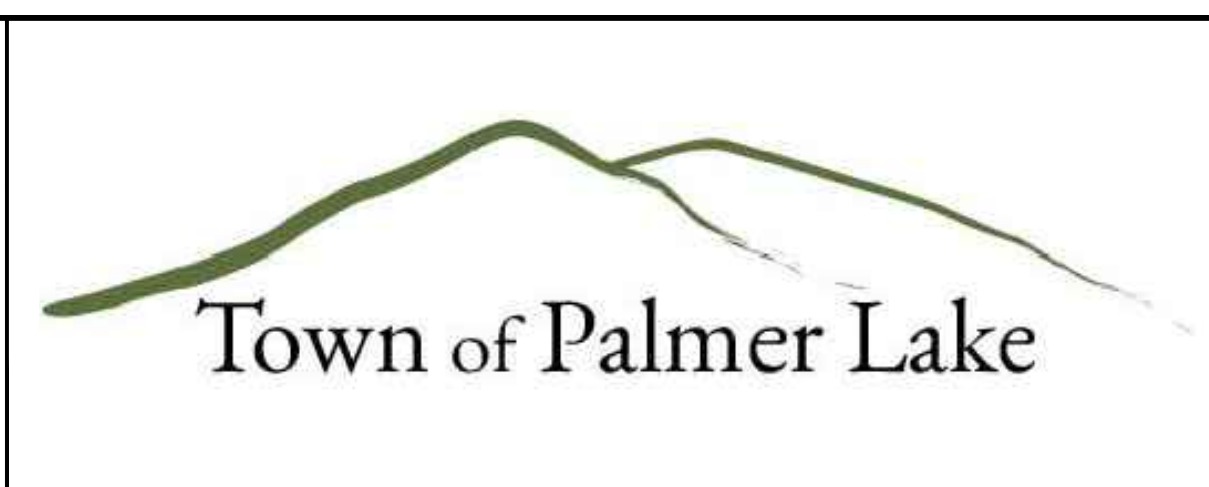
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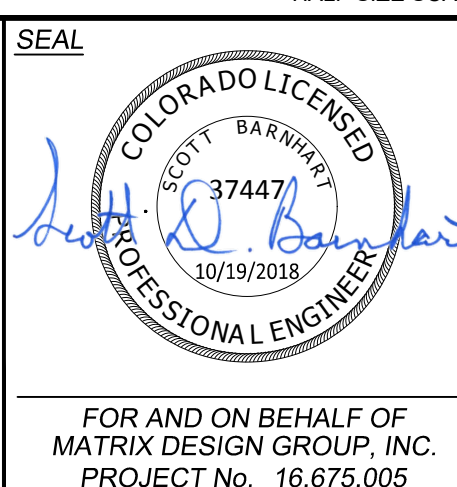
NOTE:
ANY TREES MARKED TO BE REMOVED BETWEEN APRIL 1 AND AUGUST 31 SHALL BE SURVEYED FOR ACTIVE MIGRATORY BIRD NESTS. REVIEW MIGRATORY BIRD SPECIFICATION.

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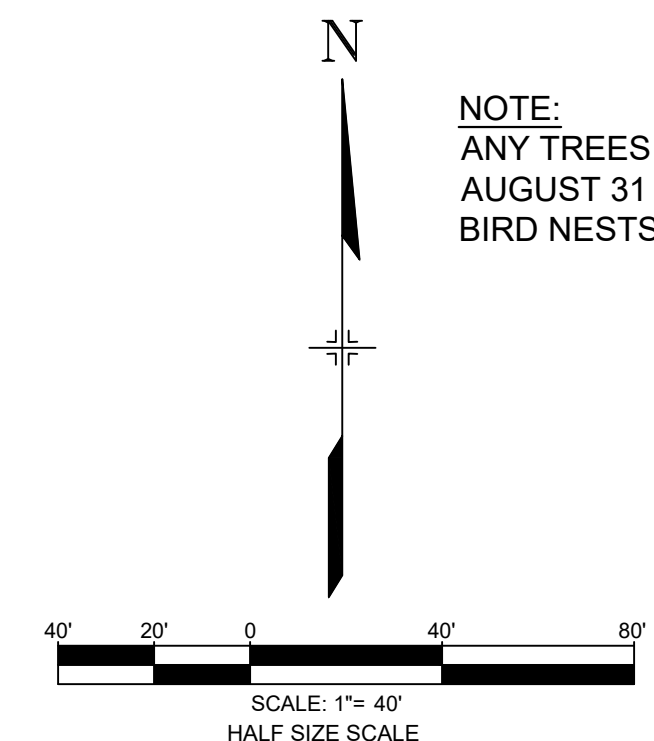
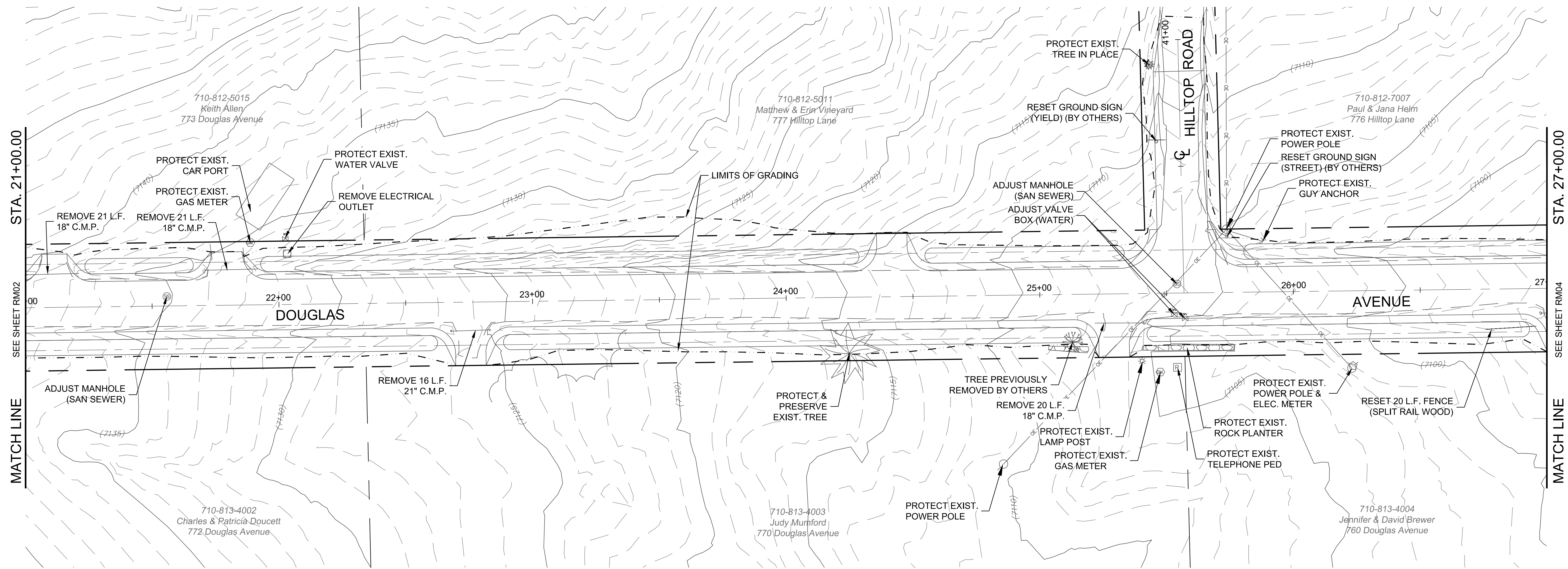
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AN EMPLOYEE-OWNED COMPANY
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SUITE 300
COLORADO SPRINGS, CO. 80920
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DOUGLAS AVE ROADWAY AND DRAINAGE IMPROVEMENTS			
TOWN OF PALMER LAKE ROADWAY & DRAINAGE IMPROVEMENT PLAN			
DEMOLITION & REMOVAL PLAN			
DESIGNED BY: MHH	SCALE: 1"=20'	DATE ISSUED: OCTOBER 19, 2018	DRAWING No. RM02
DRAWN BY: MHH	HORIZ: N/A	SHEET 7 OF 30	
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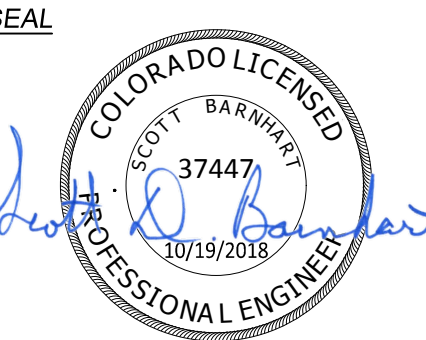
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ANY TREES MARKED TO BE REMOVED BETWEEN APRIL 1 AND AUGUST 31 SHALL BE SURVEYED FOR ACTIVE MIGRATORY BIRD NESTS. REVIEW MIGRATORY BIRD SPECIFICATION.

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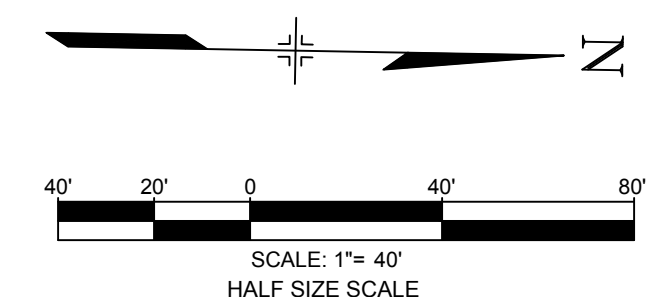
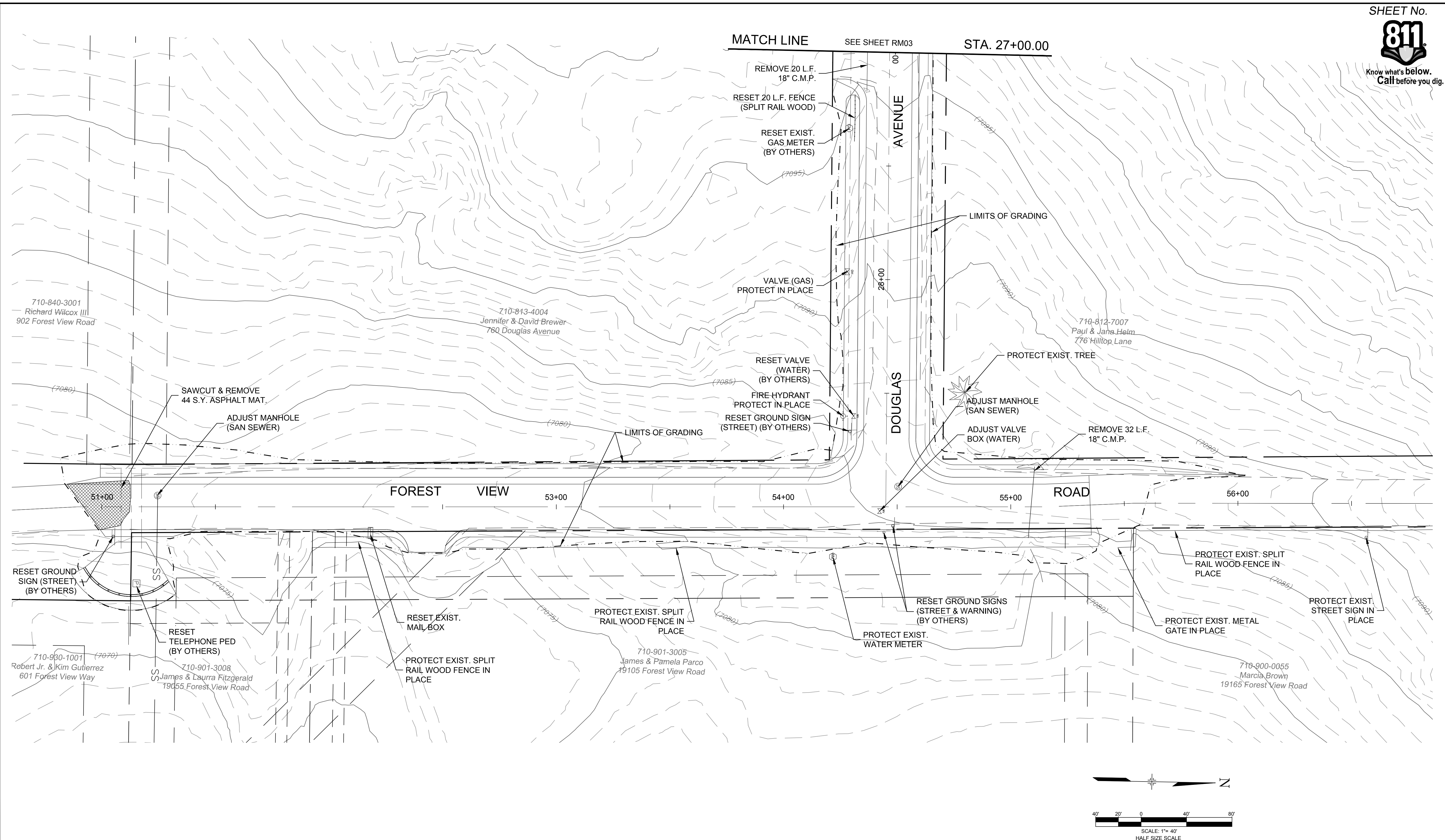
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COLORADO SPRINGS, CO. 80920
PH (719) 575-0100



DOUGLAS AVE ROADWAY AND DRAINAGE IMPROVEMENTS			
TOWN OF PALMER LAKE ROADWAY & DRAINAGE IMPROVEMENT PLAN			
DEMOLITION & REMOVAL PLAN			
DESIGNED BY: MHH	SCALE: 1"=20'	DATE ISSUED: OCTOBER 19, 2018	DRAWING No. RM03
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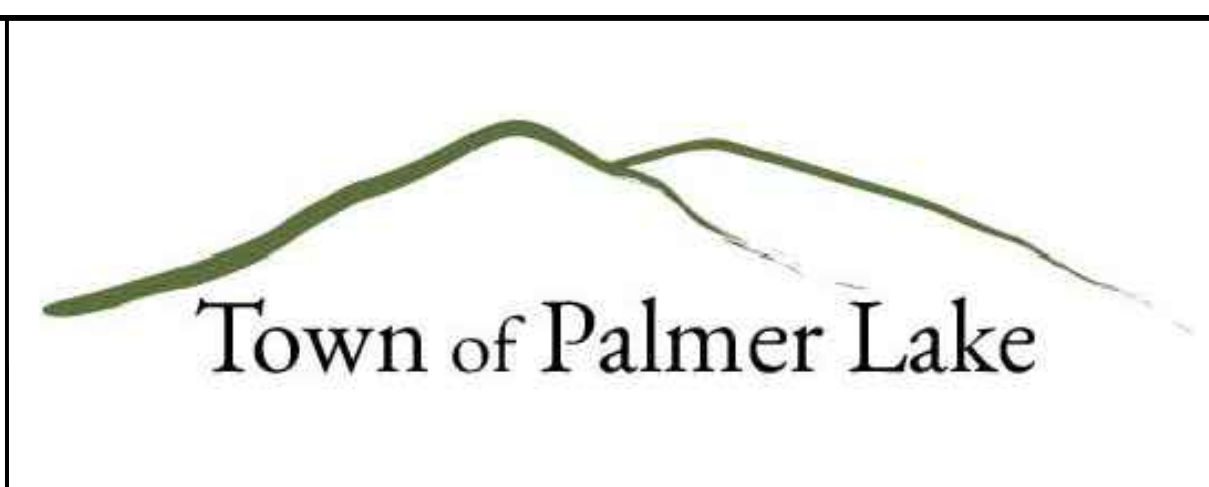
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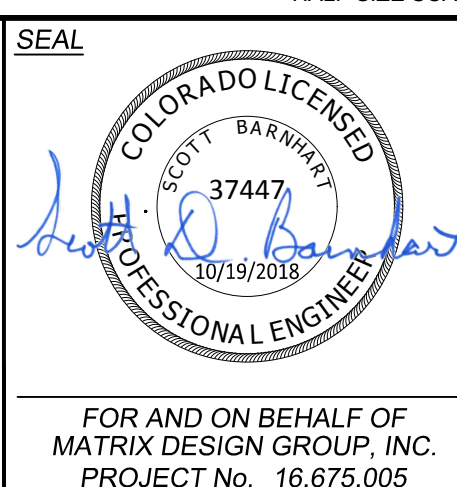
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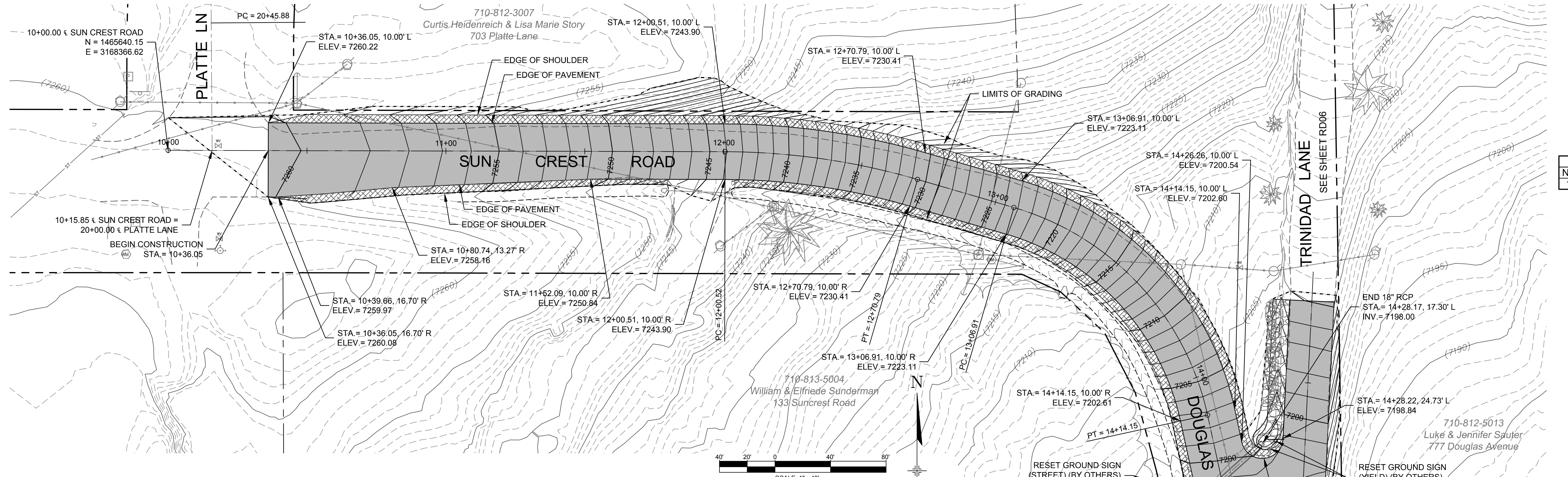
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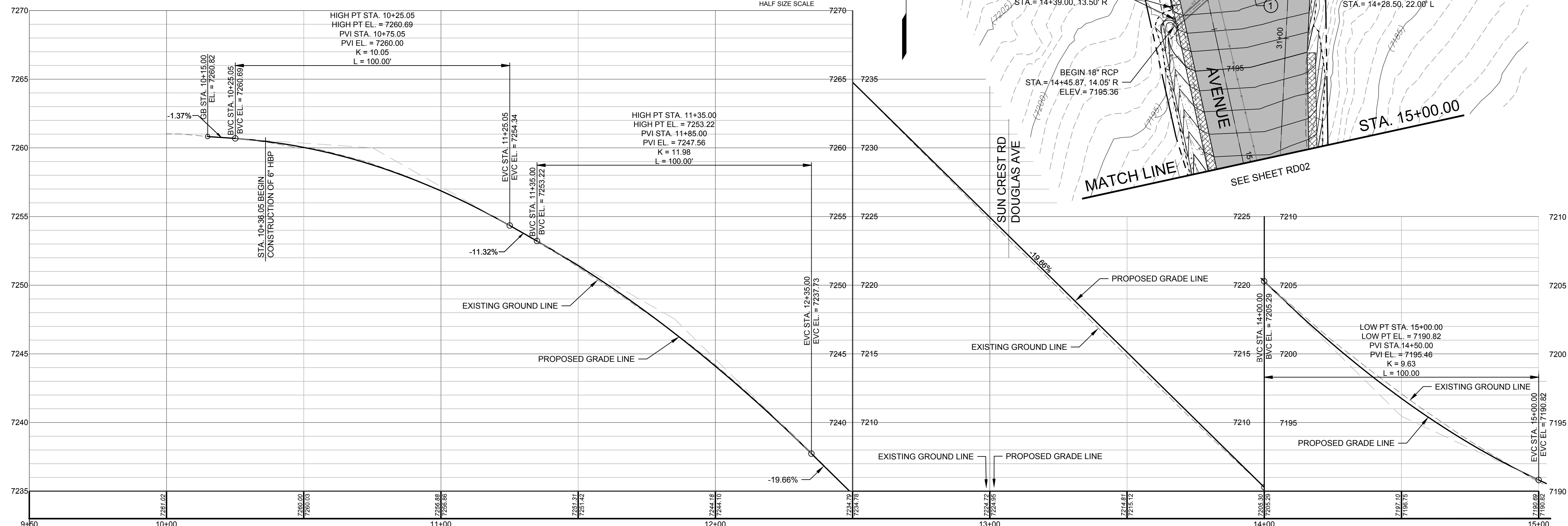
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DOUGLAS AVE ROADWAY AND DRAINAGE IMPROVEMENTS			
TOWN OF PALMER LAKE ROADWAY & DRAINAGE IMPROVEMENT PLAN			
DEMOLITION & REMOVAL PLAN			
DESIGNED BY:	MHH	SCALE:	DATE ISSUED:
CHECKED BY:	SDB	HORIZ 1"=20' VERT. N/A	OCTOBER 19, 2018
DRAWING No.			RM04
SHEET			9 OF 30

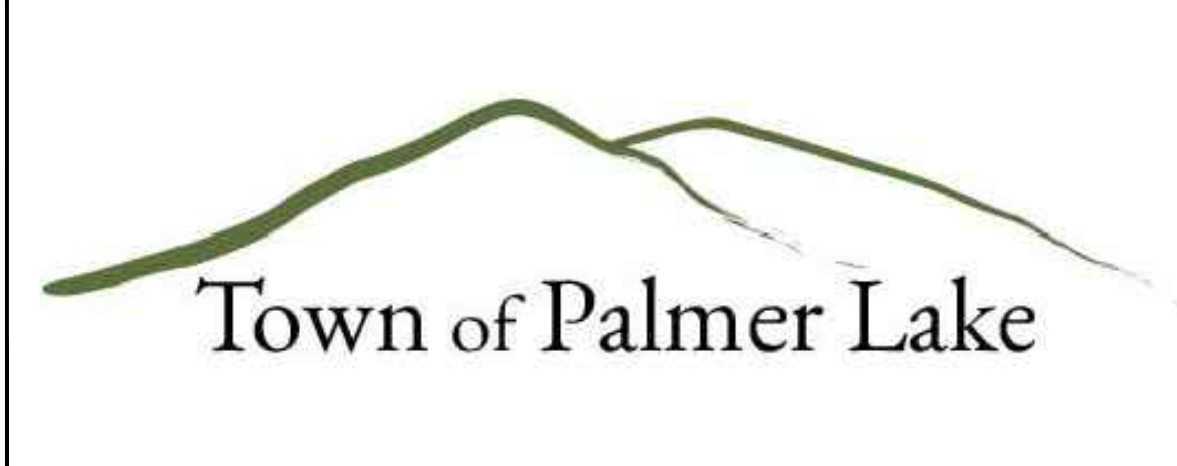


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No.	R	L	Δ
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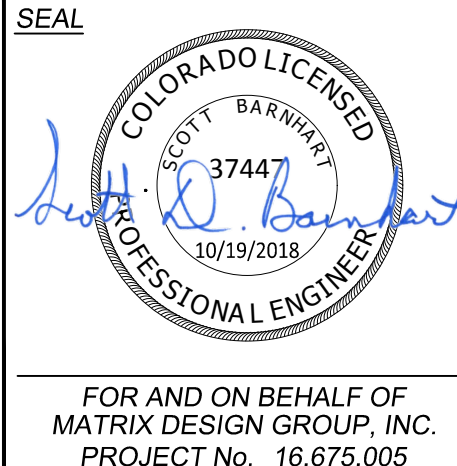


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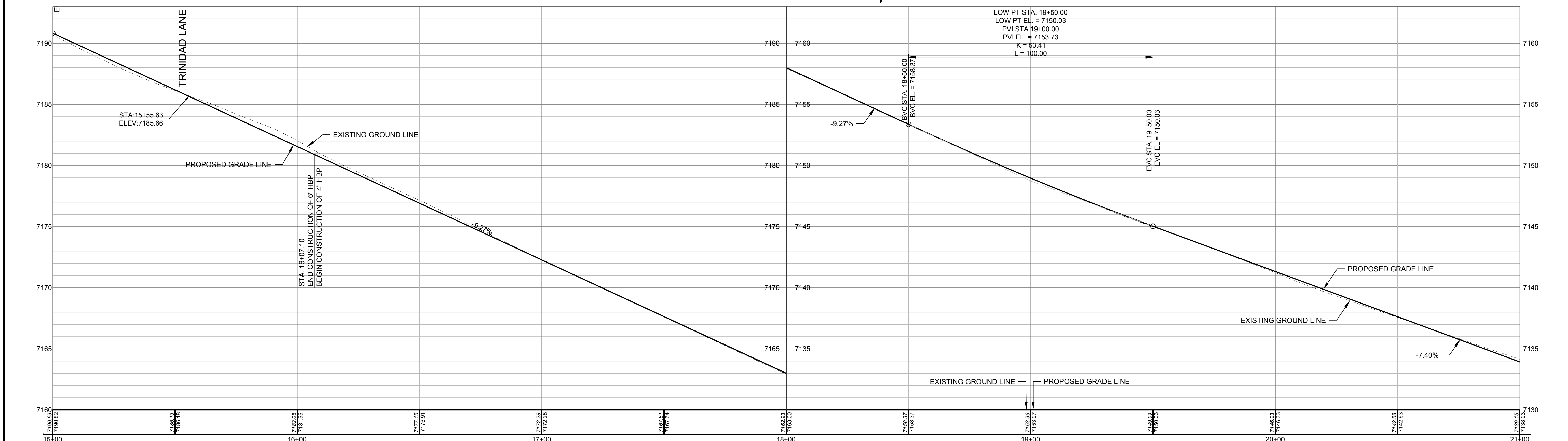
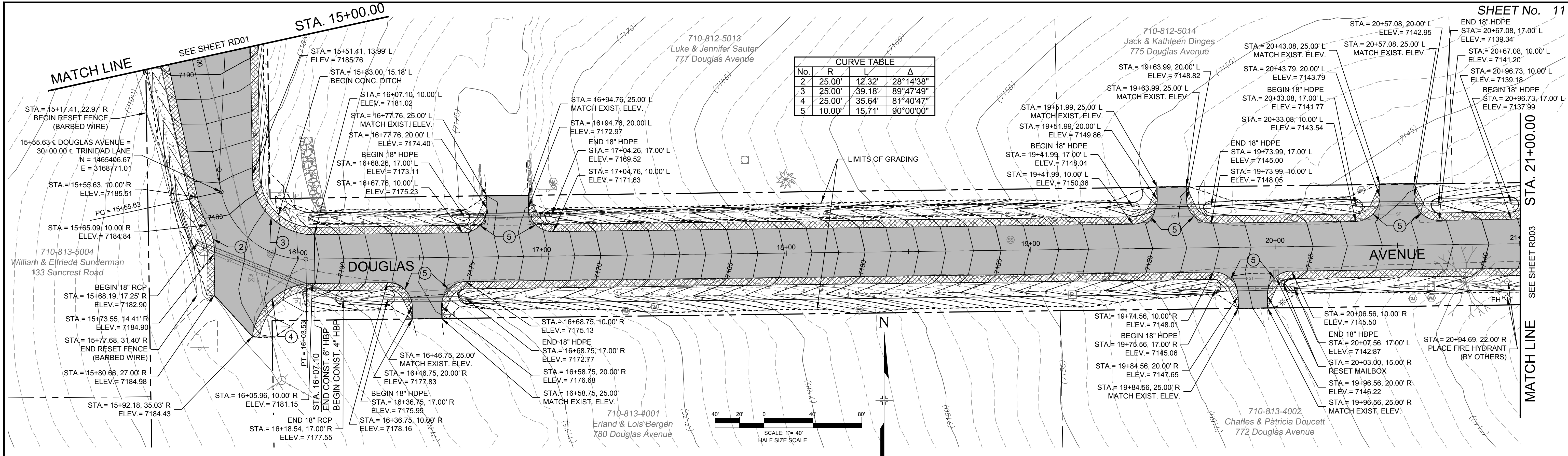
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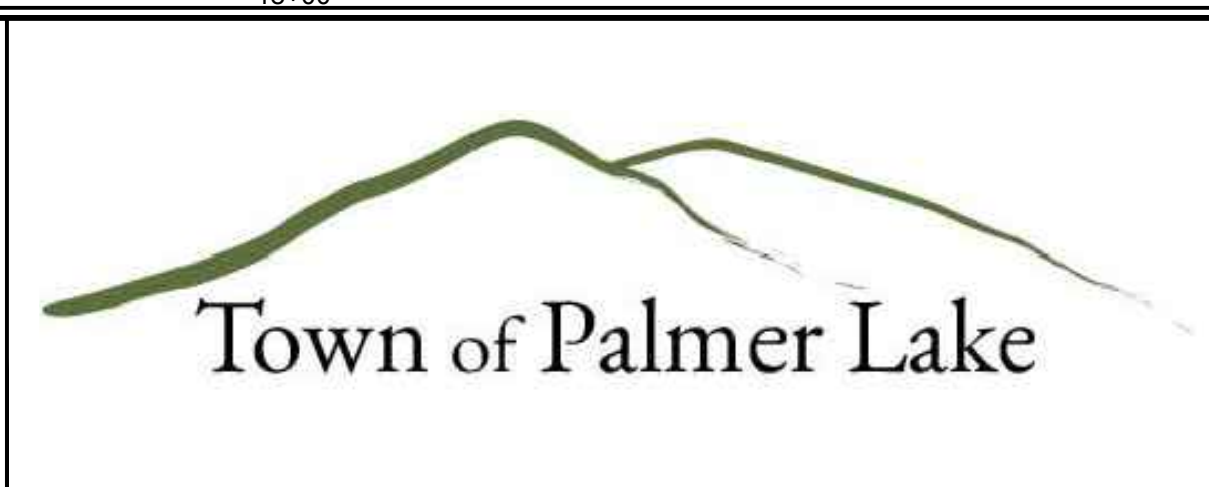
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TOWN OF PALMER LAKE ROADWAY & DRAINAGE IMPROVEMENT PLAN			
ROADWAY PLAN & PROFILE			
DESIGNED BY: MHH	SCALE: HORIZ 1" = 20'	DATE ISSUED: OCTOBER 19, 2019	DRAWING No. RD01
CHECKED BY: SDB	VERT. 1" = 5'	SHEET 10 OF 30	



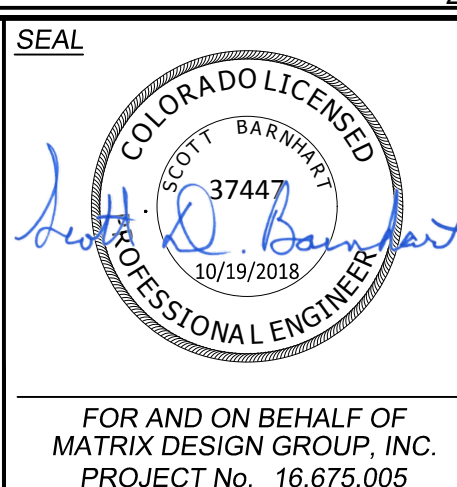
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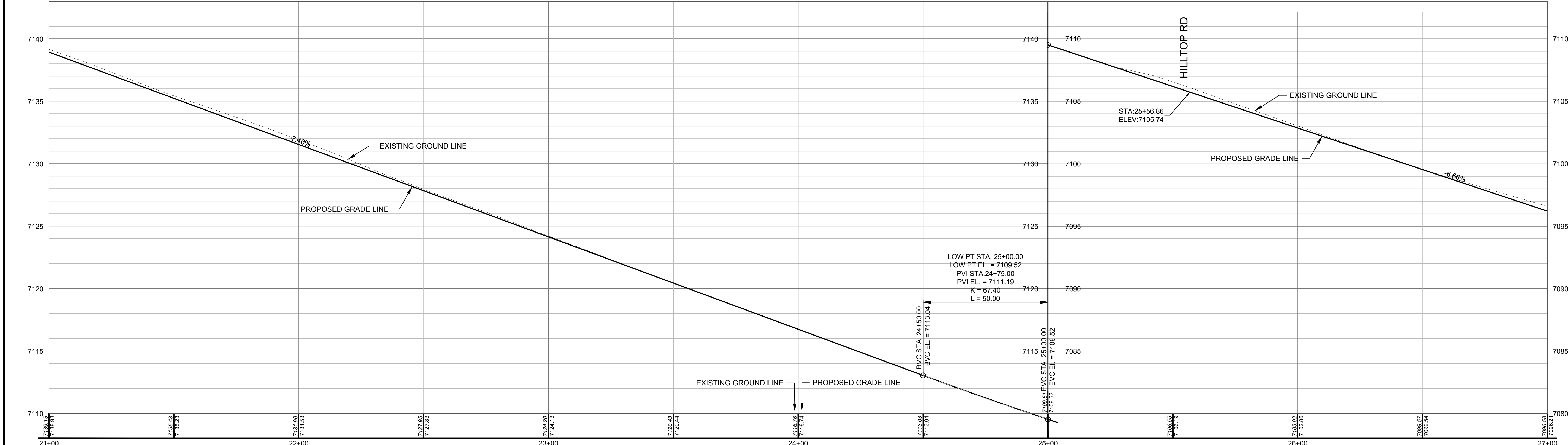
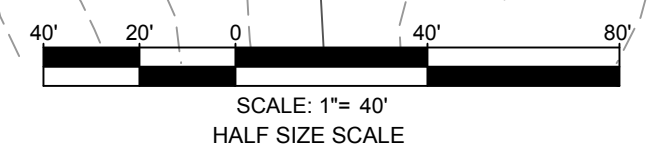
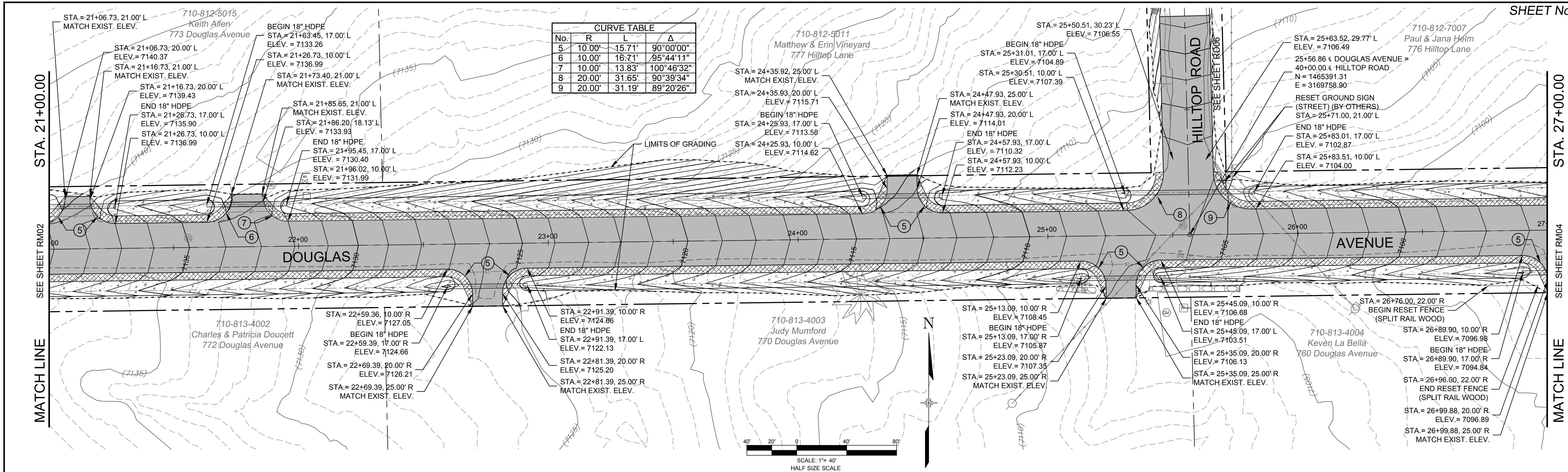


PREPARED BY:
Matrix
 DESIGN GROUP
 AN EMPLOYEE-OWNED COMPANY
 2435 RESEARCH PARKWAY
 SUITE 300
 COLORADO SPRINGS, CO. 80920
 PH (719) 575-0100



DOUGLAS AVE ROADWAY AND DRAINAGE IMPROVEMENTS
 TOWN OF PALMER LAKE
 ROADWAY & DRAINAGE IMPROVEMENT PLAN
 ROADWAY PLAN & PROFILE

DESIGNED BY: MHH SCALE: HORIZ 1" = 20'
 CHECKED BY: SDB VERT. 1" = 5' SHEET: 11 OF 30
 DATE ISSUED: OCTOBER 19, 2018
 DRAWING No. RD02



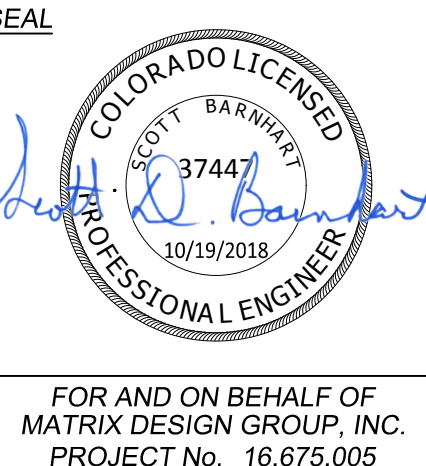
No.	DATE	DESCRIPTION REVISIONS	BY

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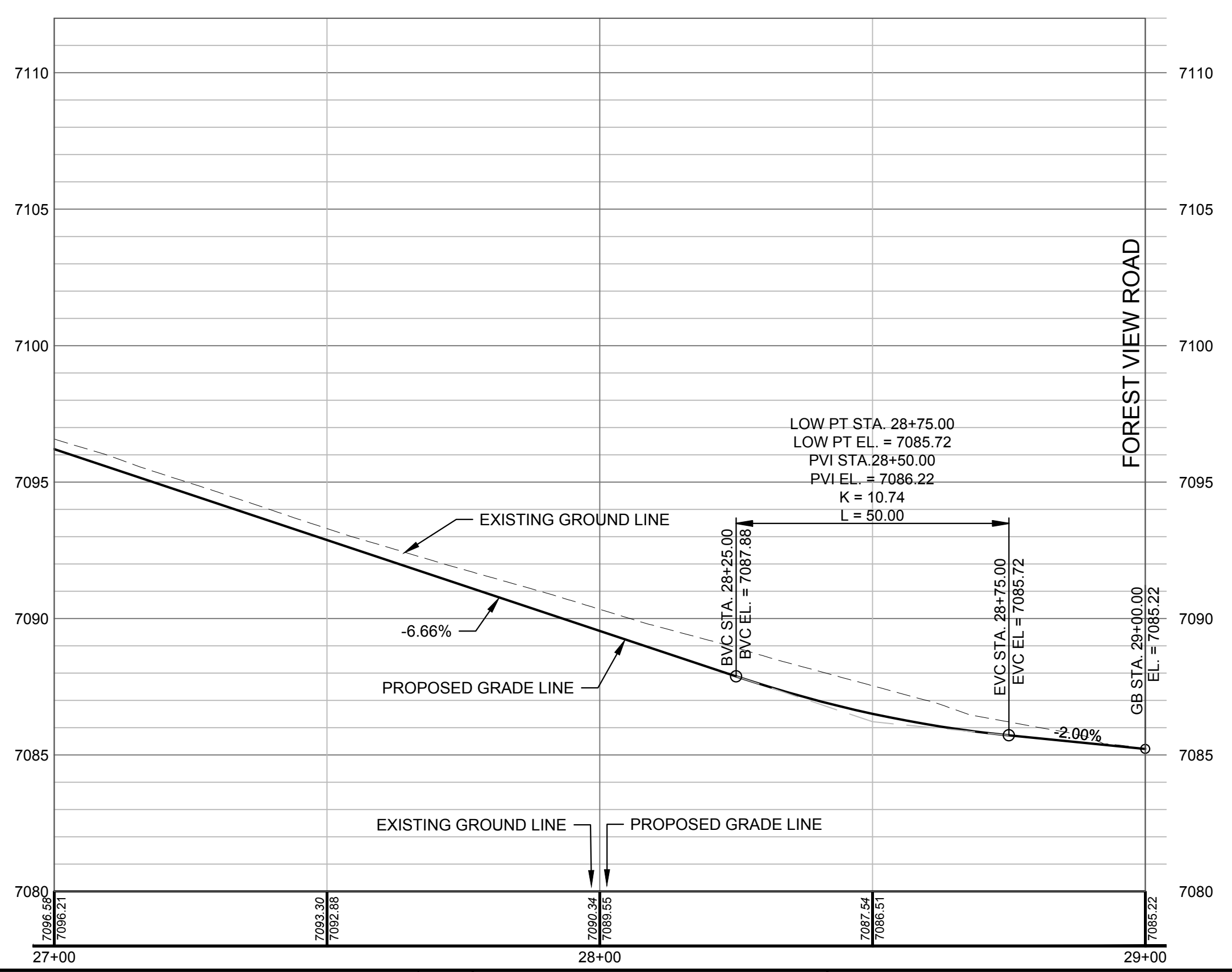
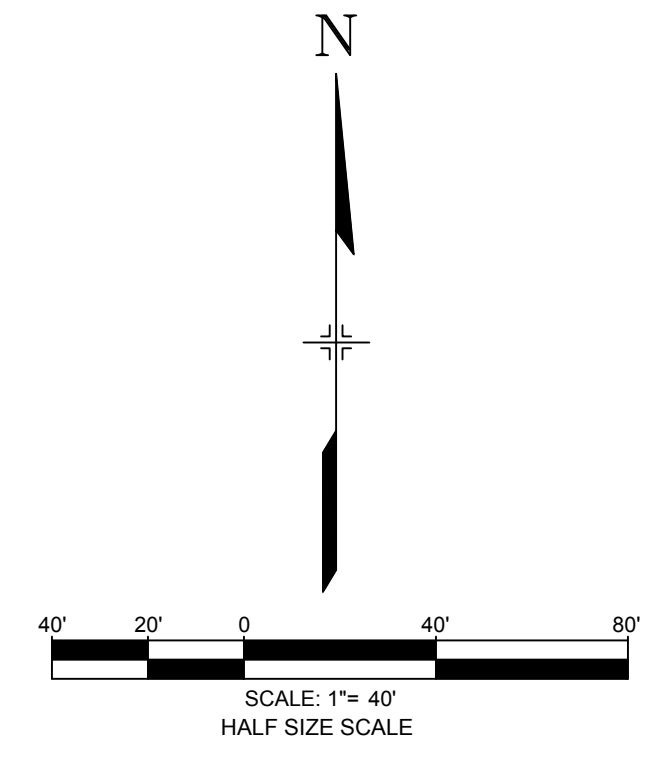
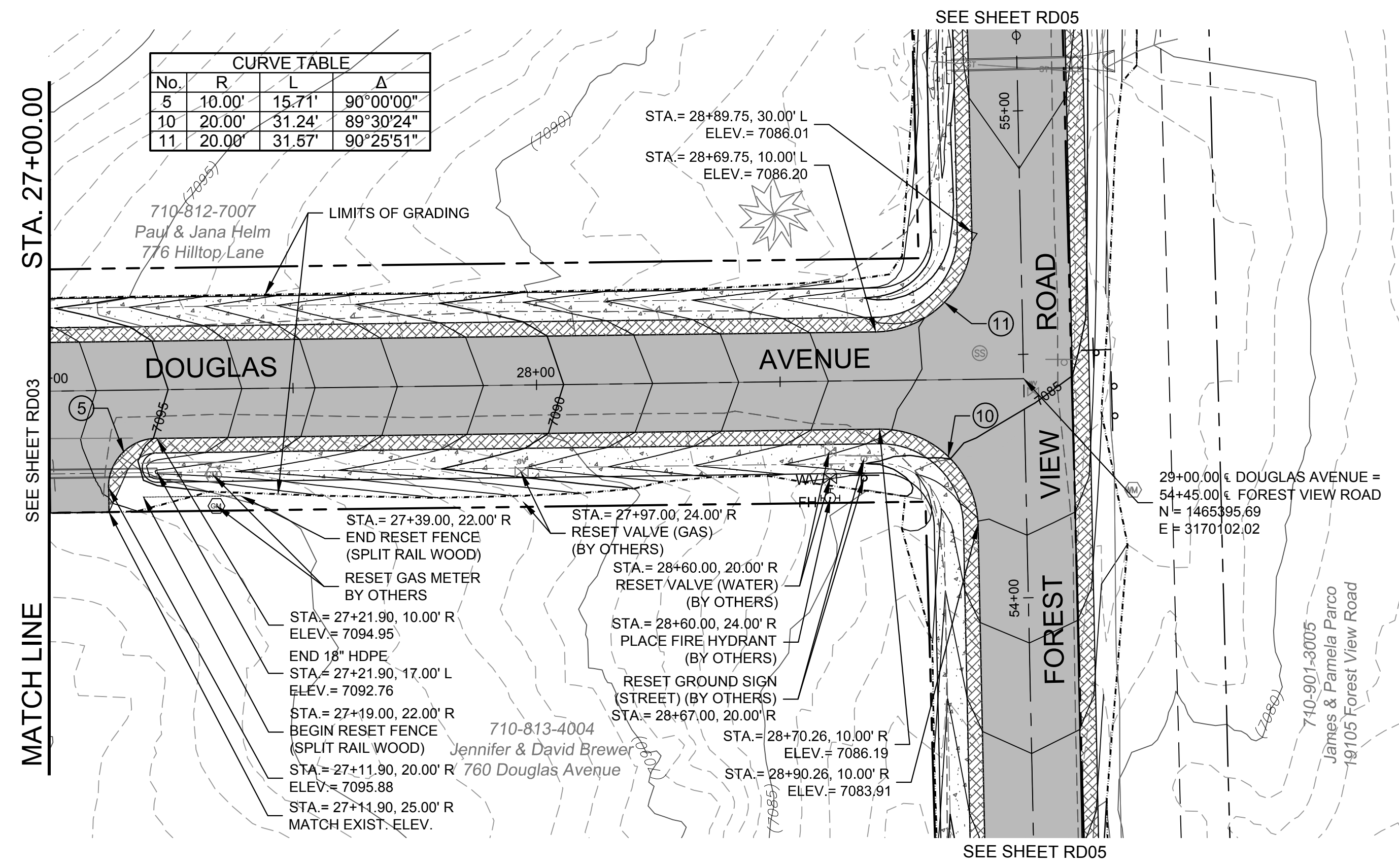


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DOUGLAS AVE ROADWAY AND DRAINAGE IMPROVEMENTS
 TOWN OF PALMER LAKE
 ROADWAY & DRAINAGE IMPROVEMENT PLAN
 ROADWAY PLAN & PROFILE

DESIGNED BY: MHH SCALE: HORIZ 1" = 20', VERT 1" = 5'
 DRAWN BY: MHH
 CHECKED BY: SDB
 DATE ISSUED: OCTOBER 19, 2018
 SHEET 12 OF 30
 DRAWING No. RD03



REFERENCE DRAWINGS			
No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\16.675.005 (Douglas Av)\Dwg\RD01-06.dwg			
CTB FILE: ----			
PLOT DATE: 10/19/2018 9:32 AM			
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Town of Palmer Lake

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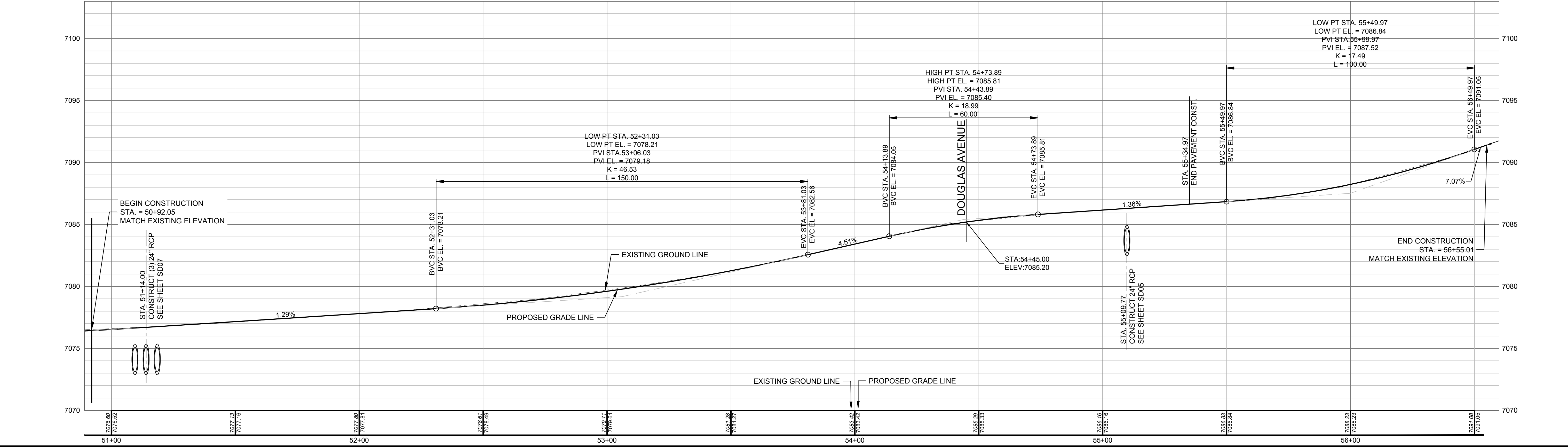
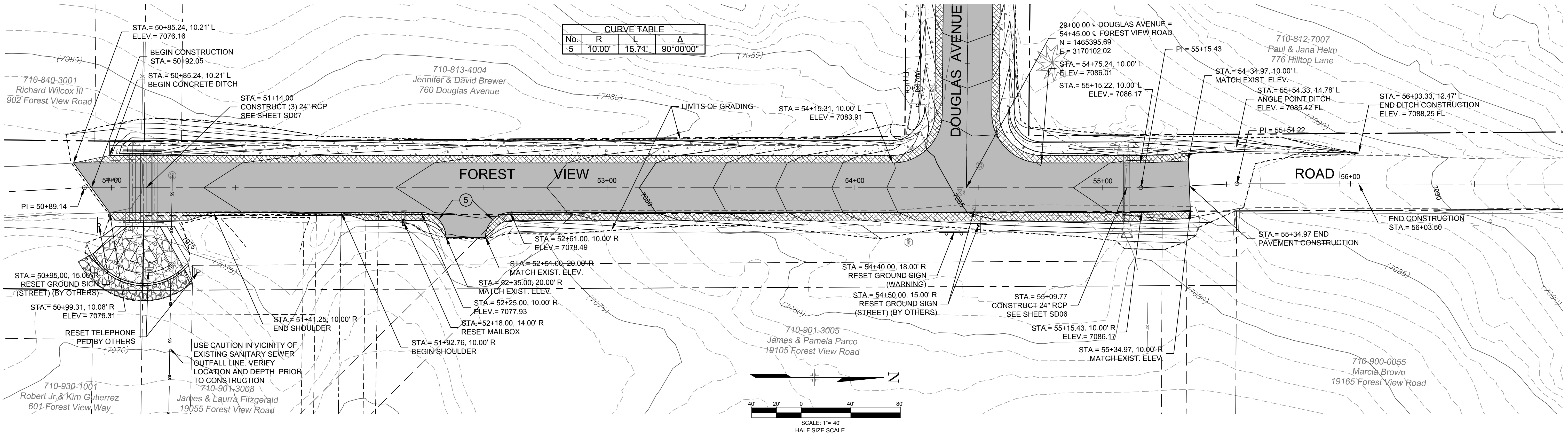
Matrix
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 AN EMPLOYEE-OWNED COMPANY
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 PH (719) 575-0100

SEAL

FOR AND ON BEHALF OF
 MATRIX DESIGN GROUP, INC.
 PROJECT No. 16.675.005

DOUGLAS AVE ROADWAY AND DRAINAGE IMPROVEMENTS			
TOWN OF PALMER LAKE ROADWAY & DRAINAGE IMPROVEMENT PLAN			
ROADWAY PLAN & PROFILE			
DESIGNED BY: MHH	SCALE: 1" = 20'	DATE ISSUED: OCTOBER 19, 2018	DRAWING No. RD04
DRAWN BY: MHH	HORIZ 1" = 20'	SHEET 13 OF 30	
CHECKED BY: SDB	VERT. 1" = 5'		

SEE SHEET RD04



No.	DATE	DESCRIPTION REVISIONS	BY

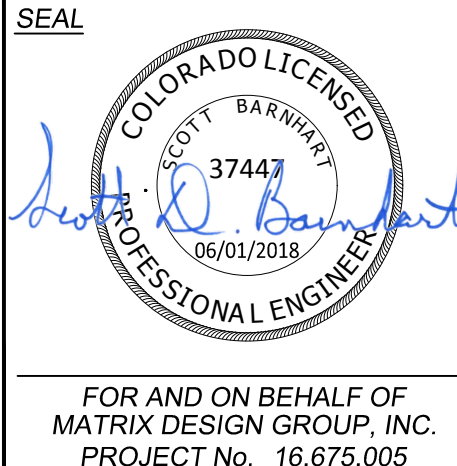
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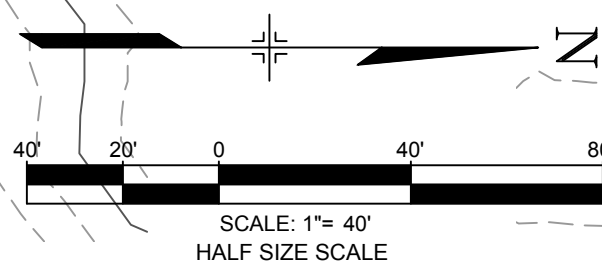
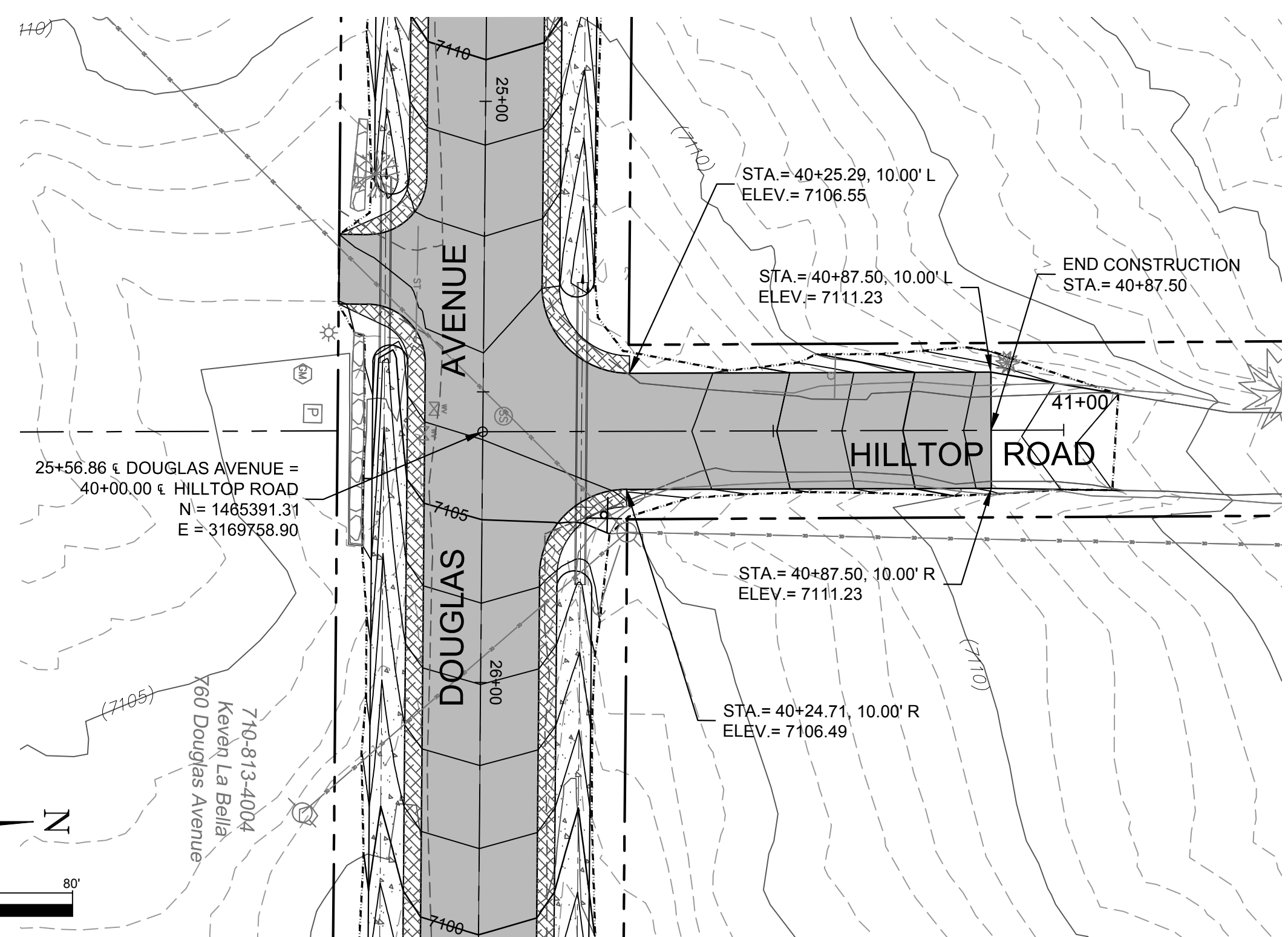
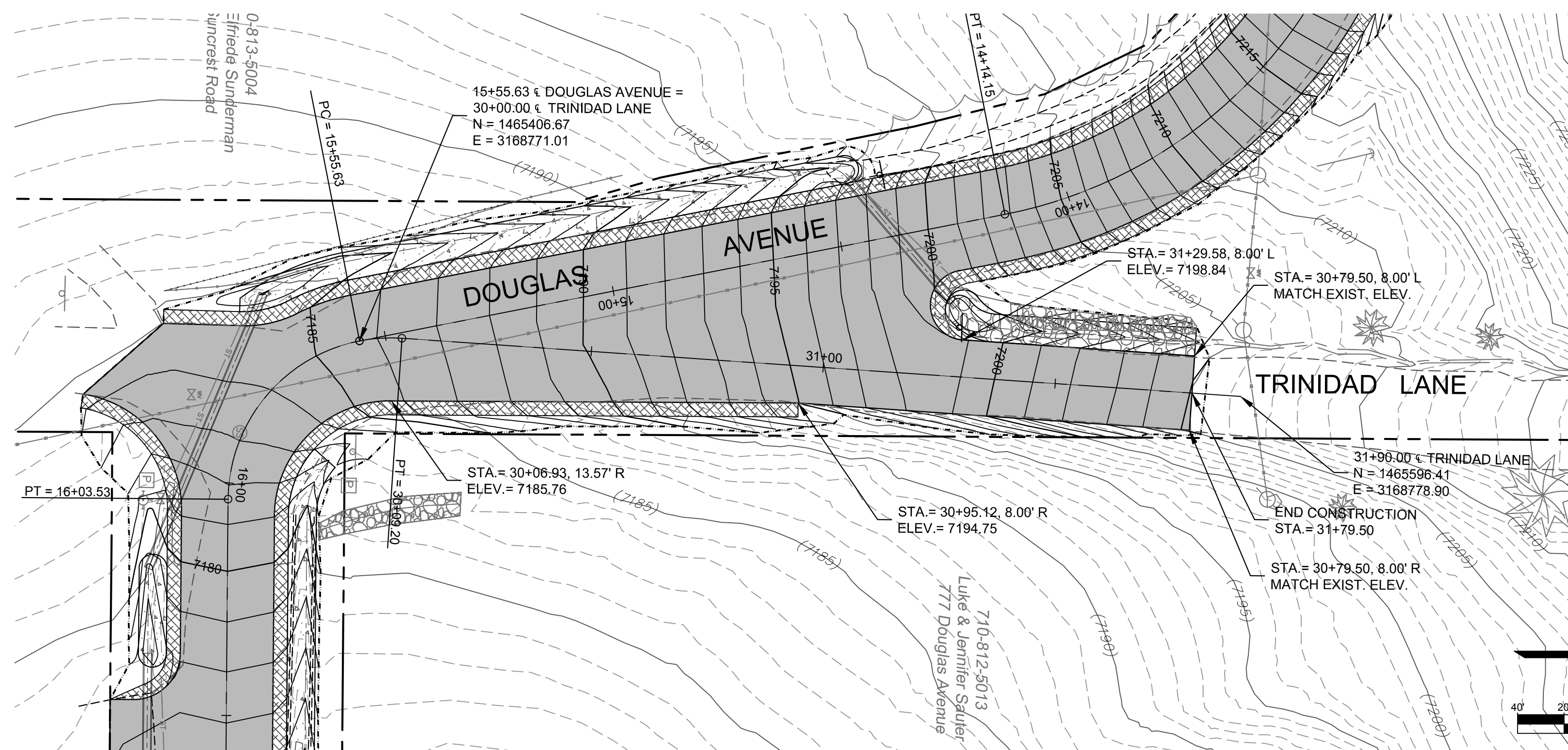
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DOUGLAS AVE ROADWAY AND DRAINAGE IMPROVEMENTS			
TOWN OF PALMER LAKE ROADWAY & DRAINAGE IMPROVEMENT PLAN			
ROADWAY PLAN & PROFILE			
DESIGNED BY: MHH	SCALE: HORIZ 1"=20'	DATE ISSUED: SEPTEMBER 28, 2018	DRAWING No. RD05
CHECKED BY: SDB	VERT. 1"=5'	SHEET 14 OF 30	

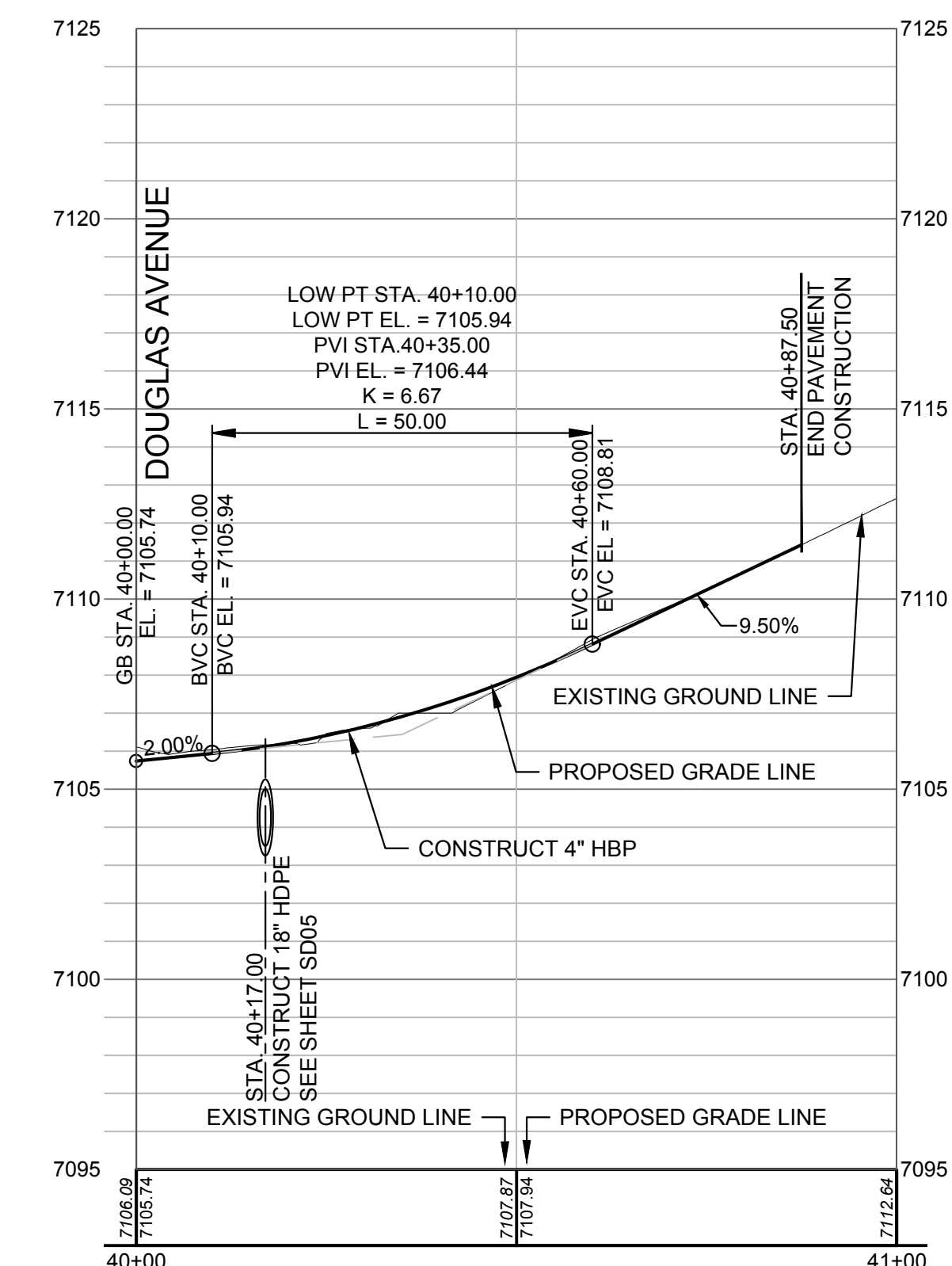
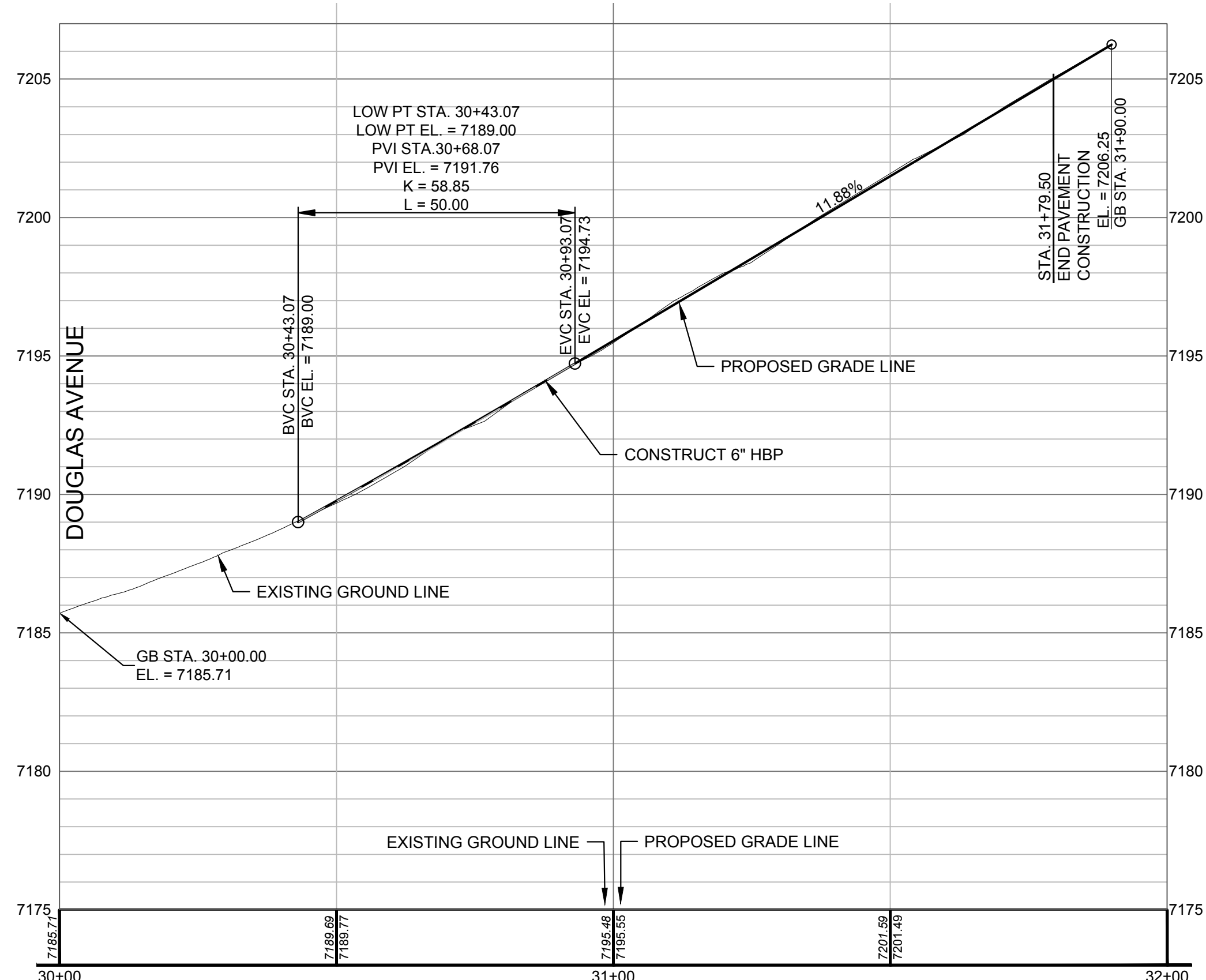
SEE SHEET RD01

SEE SHEET RD03



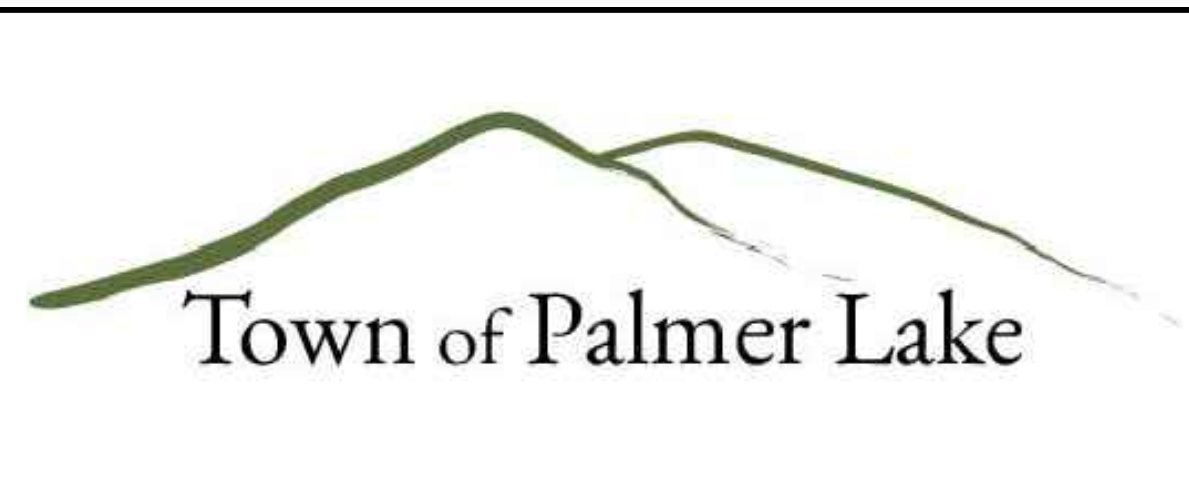
SEE SHEET RD02

SEE SHEET RD03

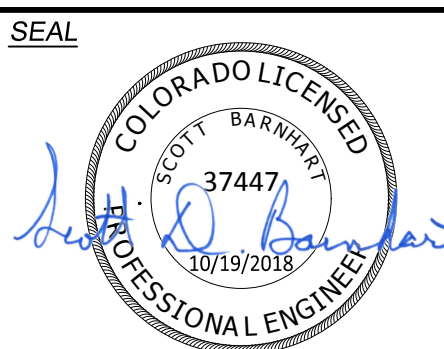


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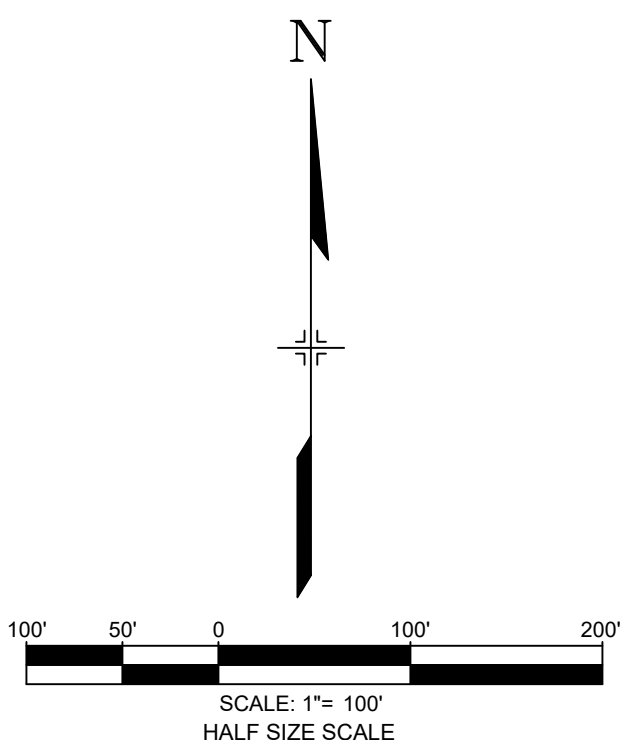
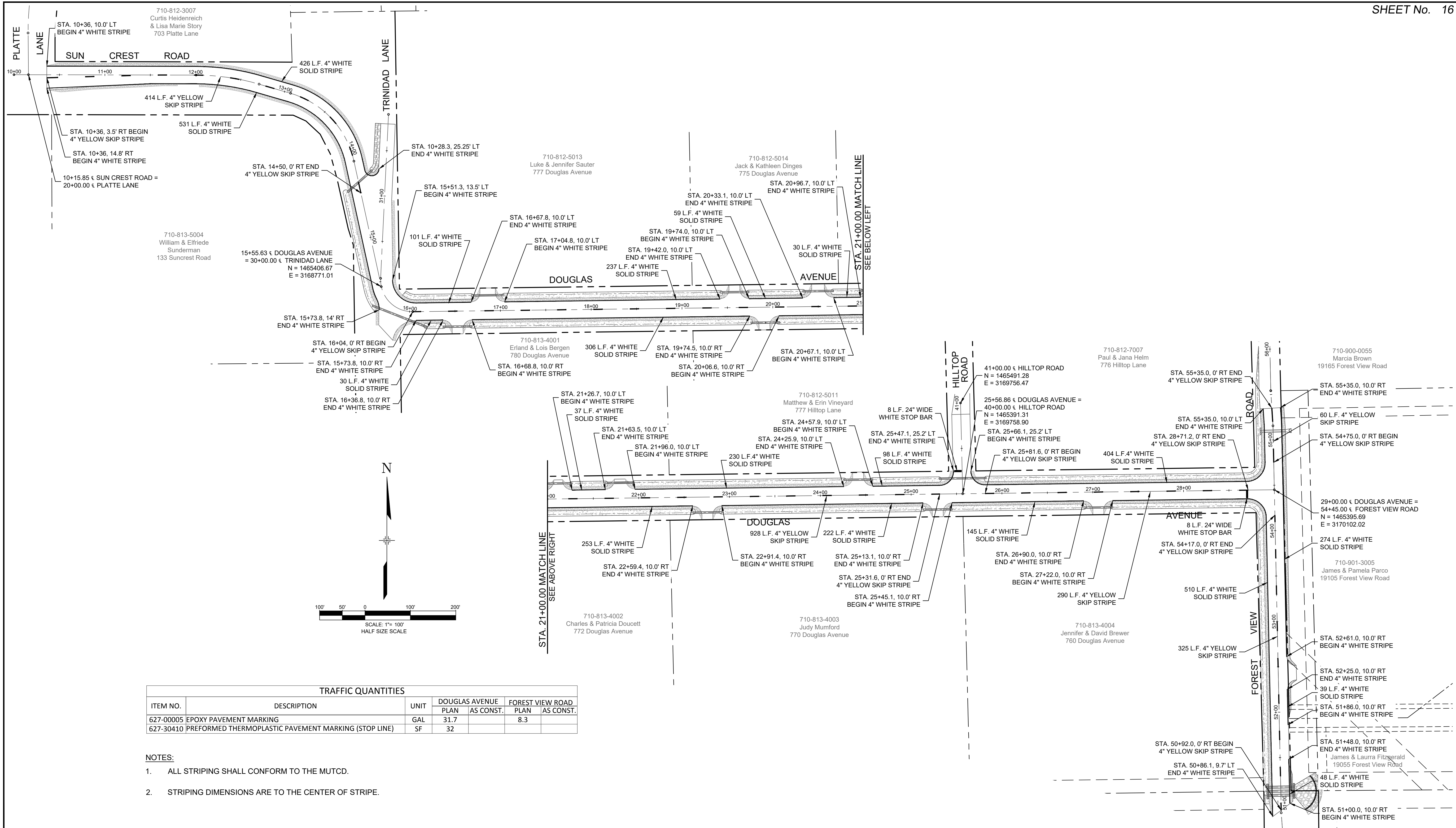
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DOUGLAS AVE ROADWAY AND DRAINAGE IMPROVEMENTS			
TOWN OF PALMER LAKE ROADWAY & DRAINAGE IMPROVEMENT PLAN			
ROADWAY PLAN & PROFILE			
DESIGNED BY: MHH	SCALE: 1" = 20'	DATE ISSUED: OCTOBER 19, 2018	DRAWING No. RD06
CHECKED BY: SDB	HORIZ 1" = 20'	SHEET 15 OF 30	
	VERT. 1" = 5'		



TRAFFIC QUANTITIES						
ITEM NO.	DESCRIPTION	UNIT	DOUGLAS AVENUE		FOREST VIEW ROAD	
			PLAN	AS CONST.	PLAN	AS CONST.
627-00005	EPOXY PAVEMENT MARKING	GAL	31.7		8.3	
627-30410	PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP LINE)	SF	32			

- NOTES:**
- ALL STRIPING SHALL CONFORM TO THE MUTCD.
 - STRIPING DIMENSIONS ARE TO THE CENTER OF STRIPE.

No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\16.675.005 (Douglas Av)\Dwg\SN01.dwg			
CTB FILE: ---			
PLOT DATE: 11/6/2018 9:57 AM			
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Town of Palmer Lake

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SEAL

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 16.675.005

DOUGLAS AVE ROADWAY AND DRAINAGE IMPROVEMENTS

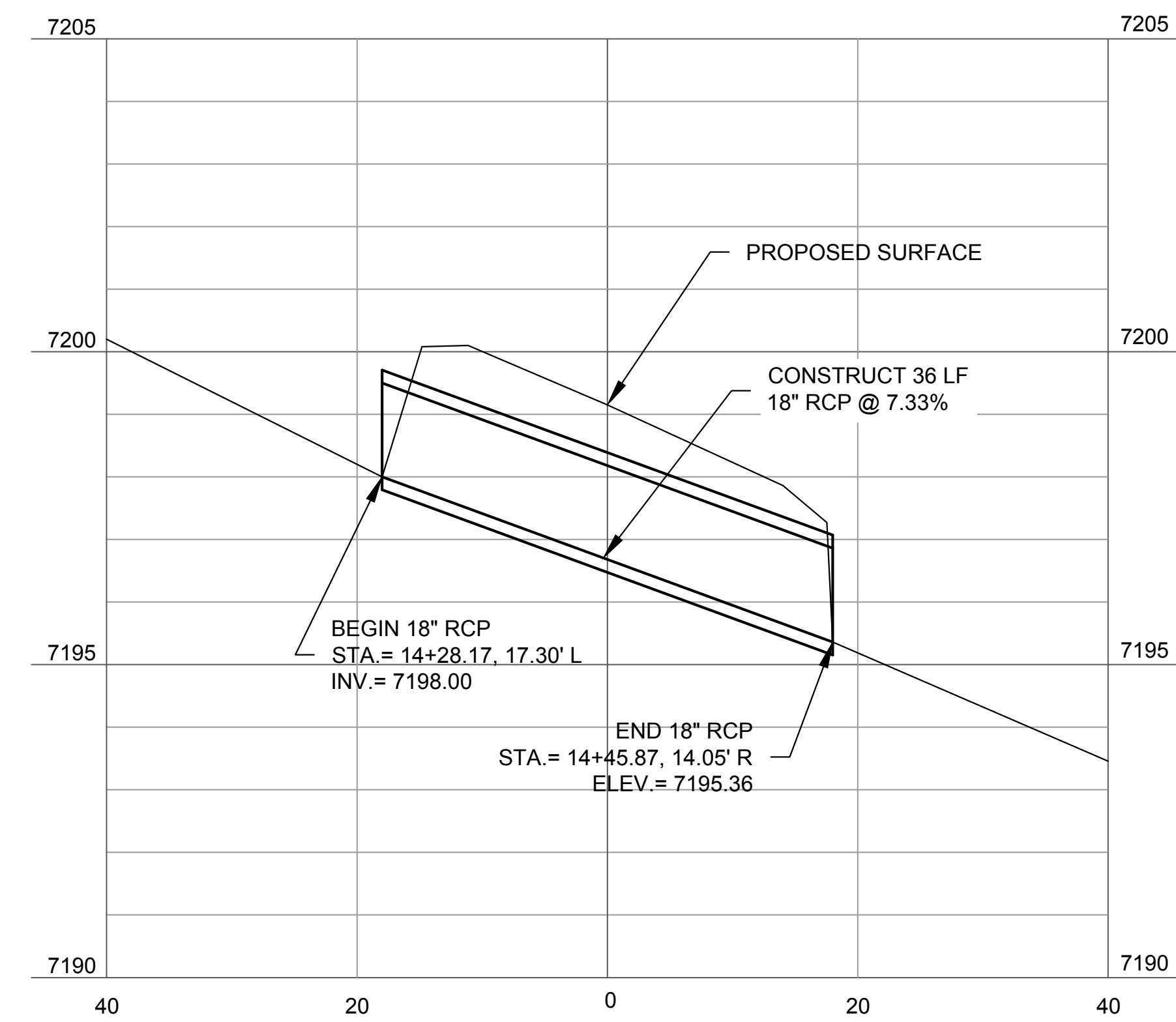
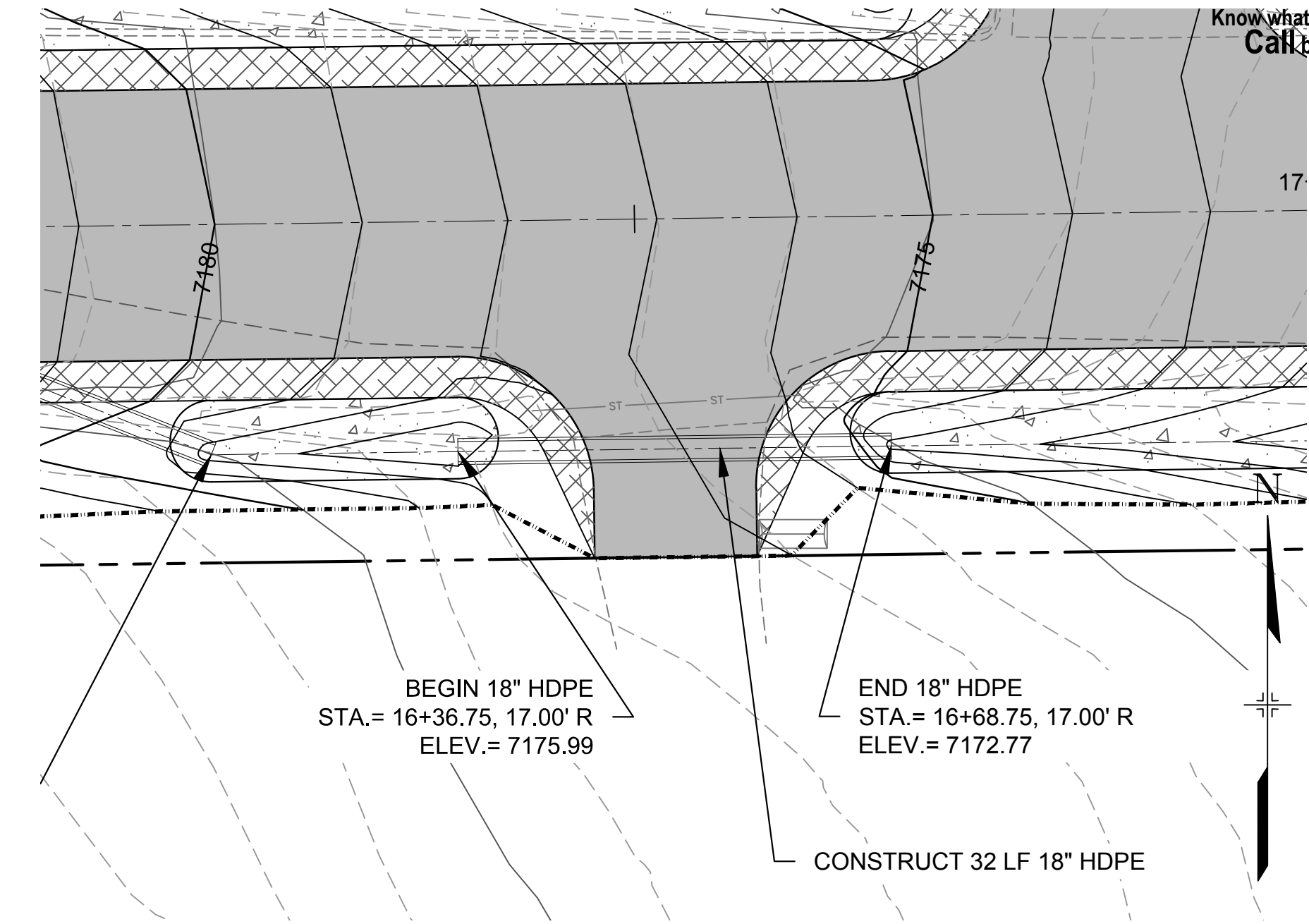
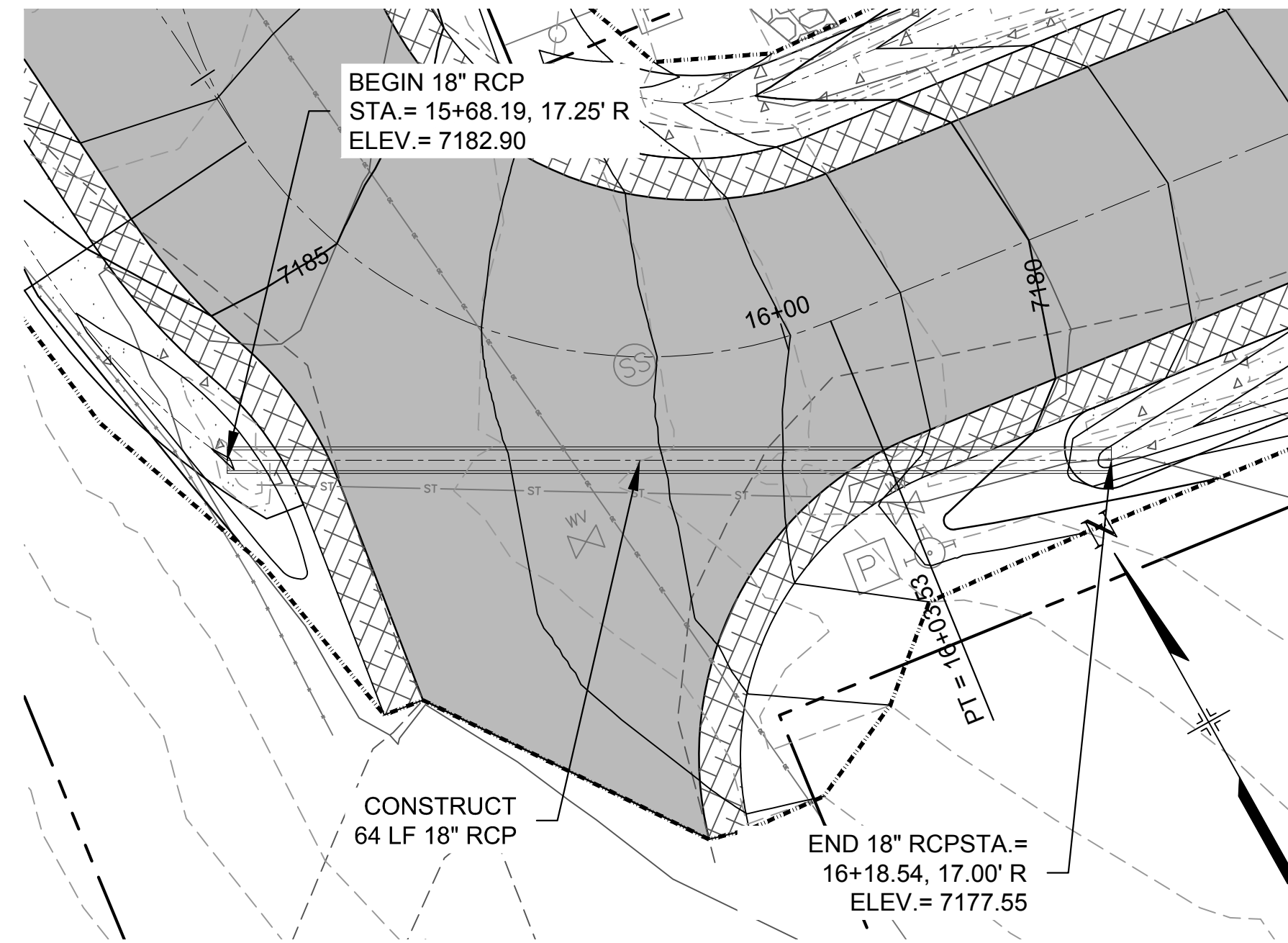
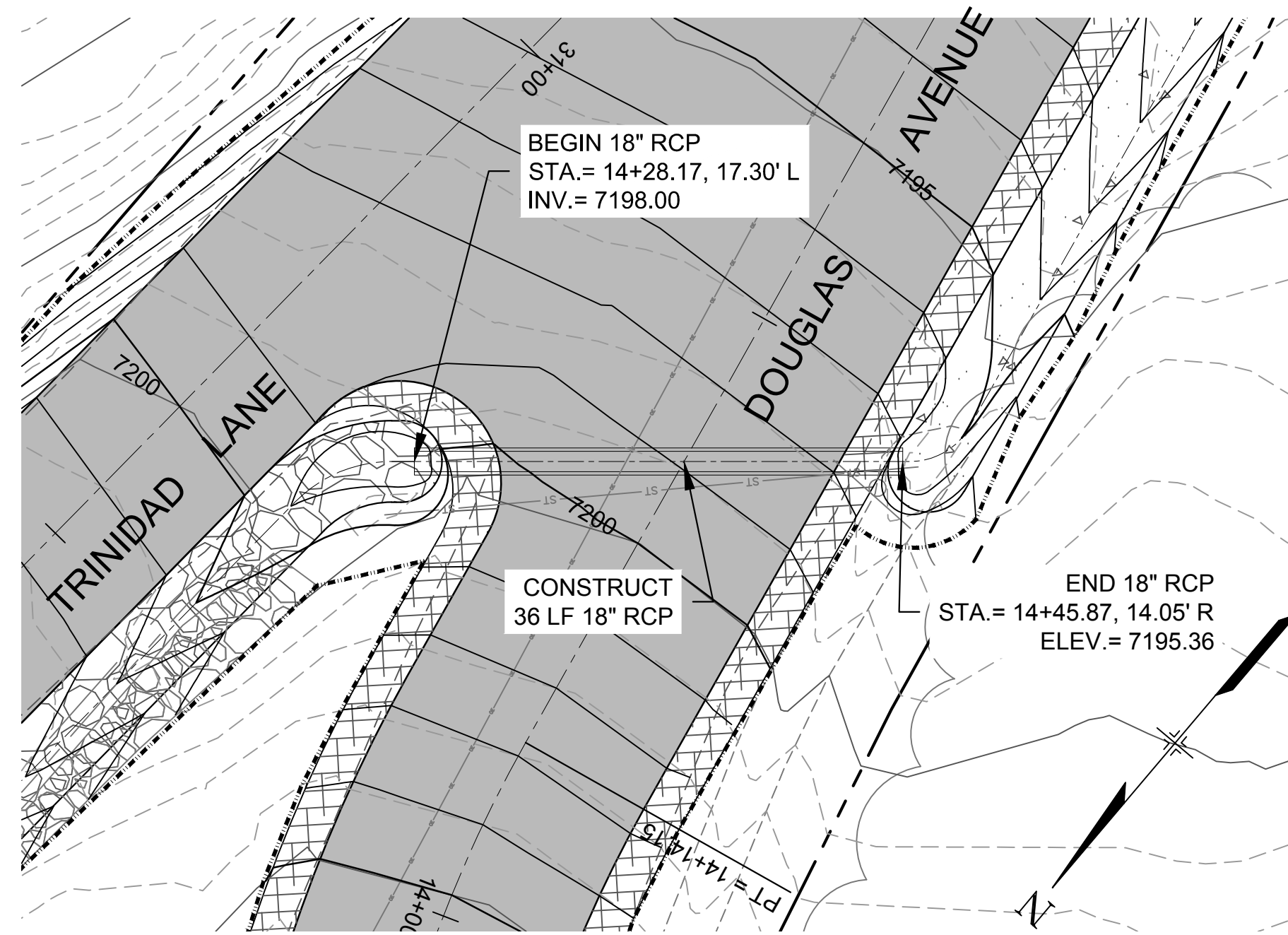
TOWN OF PALMER LAKE
ROADWAY & DRAINAGE IMPROVEMENT PLAN

SIGN & STRIPING PLAN

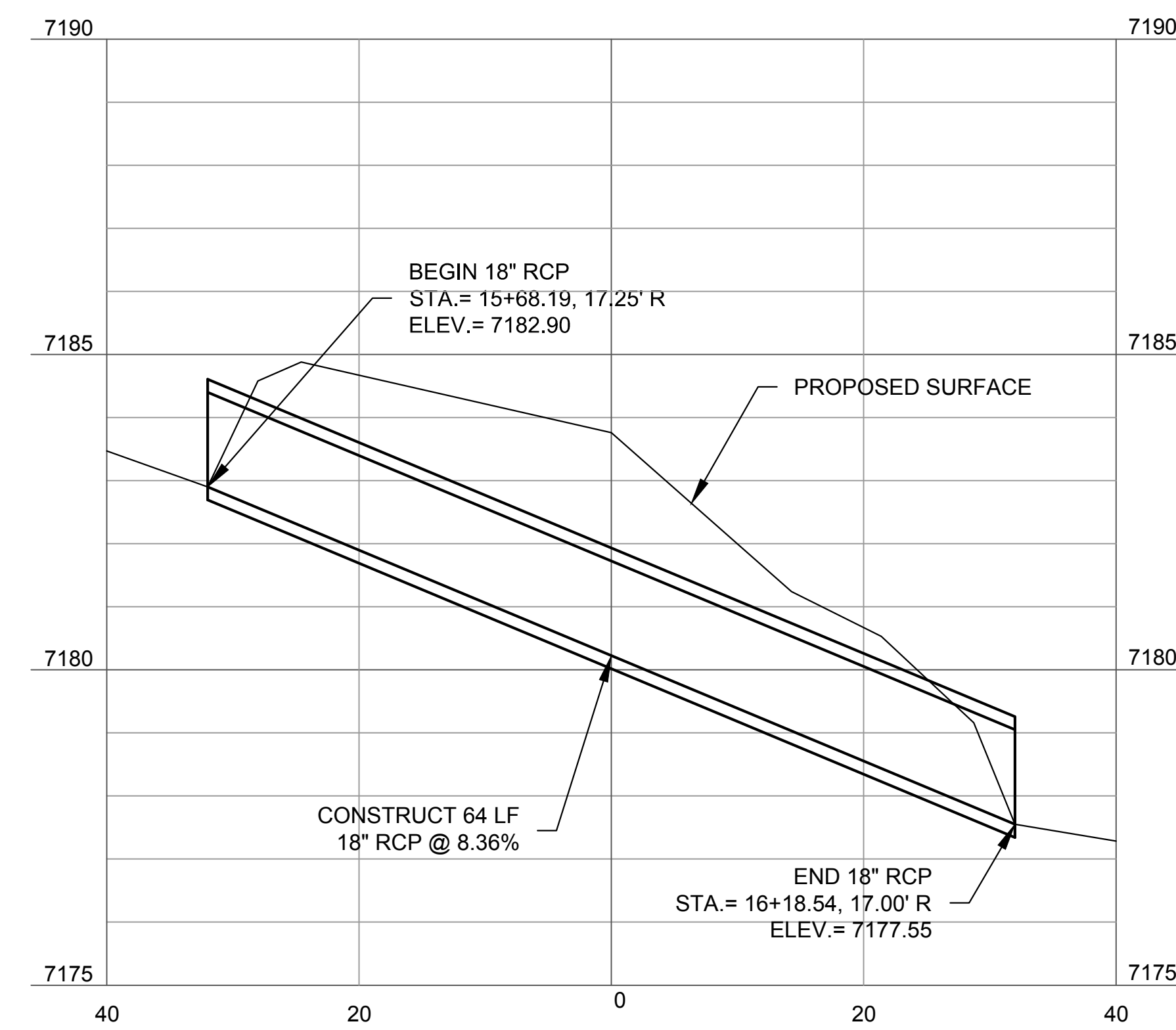
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CHECKED BY: SDB	VERT. N/A	SHEET 16 OF 30	



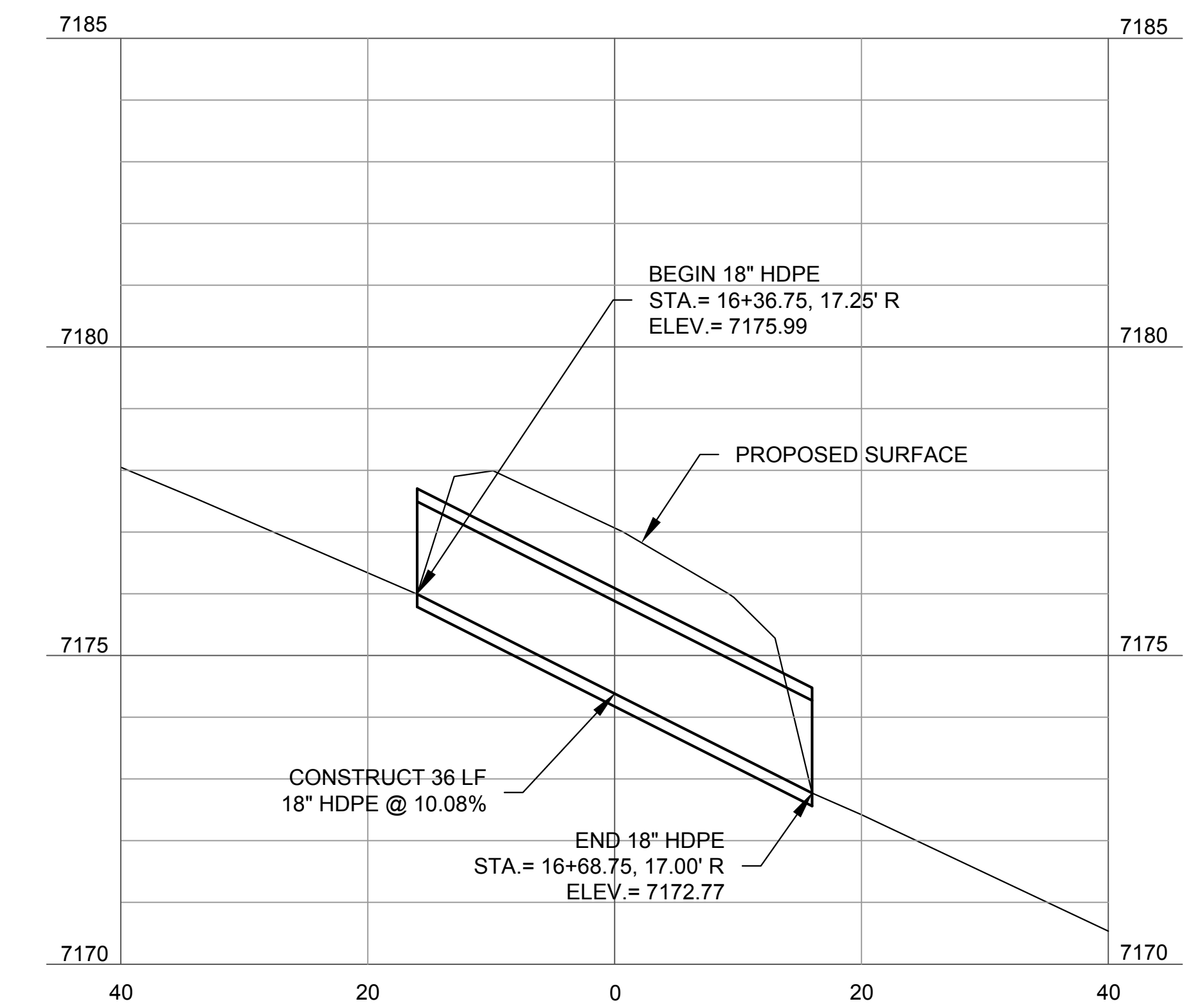
Know what's below. Call before you dig.



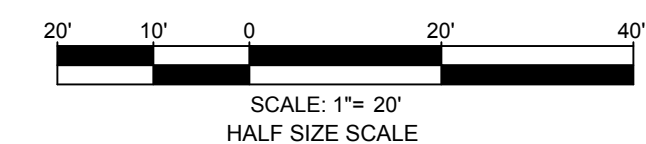
18" RCP DOUGLAS AVENUE
STA. 14+28.17 to STA. 14+45.87



18" RCP DOUGLAS AVENUE
STA. 15+68.10 to STA. 16+18.54



18" HDPE DOUGLAS AVENUE
STA. 16+36.75 to STA. 16+68.75

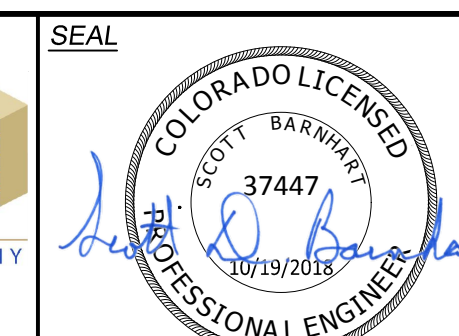


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SUITE 300
COLORADO SPRINGS, CO. 80920
PH (719) 575-0100



DOUGLAS AVE ROADWAY AND DRAINAGE IMPROVEMENTS

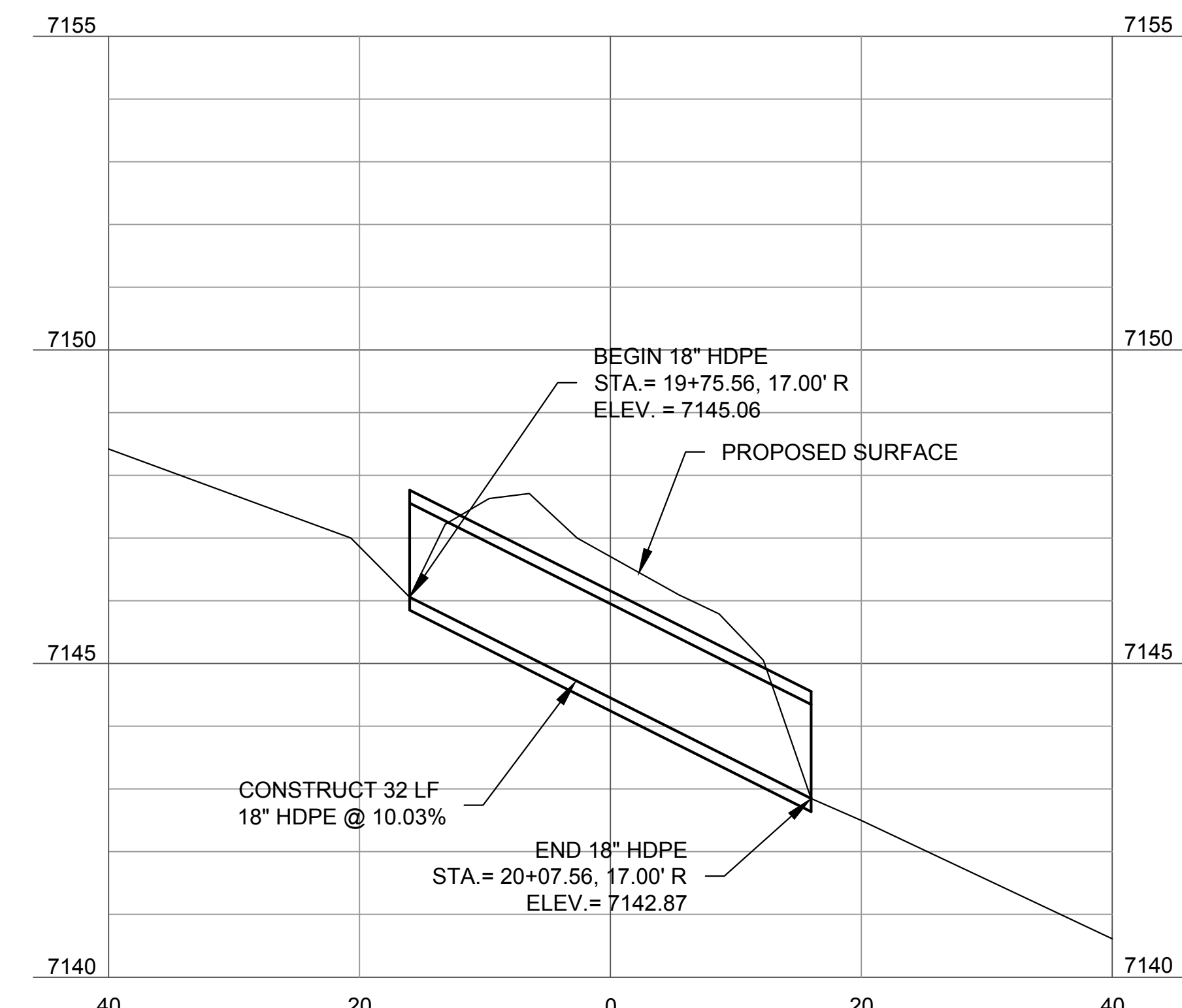
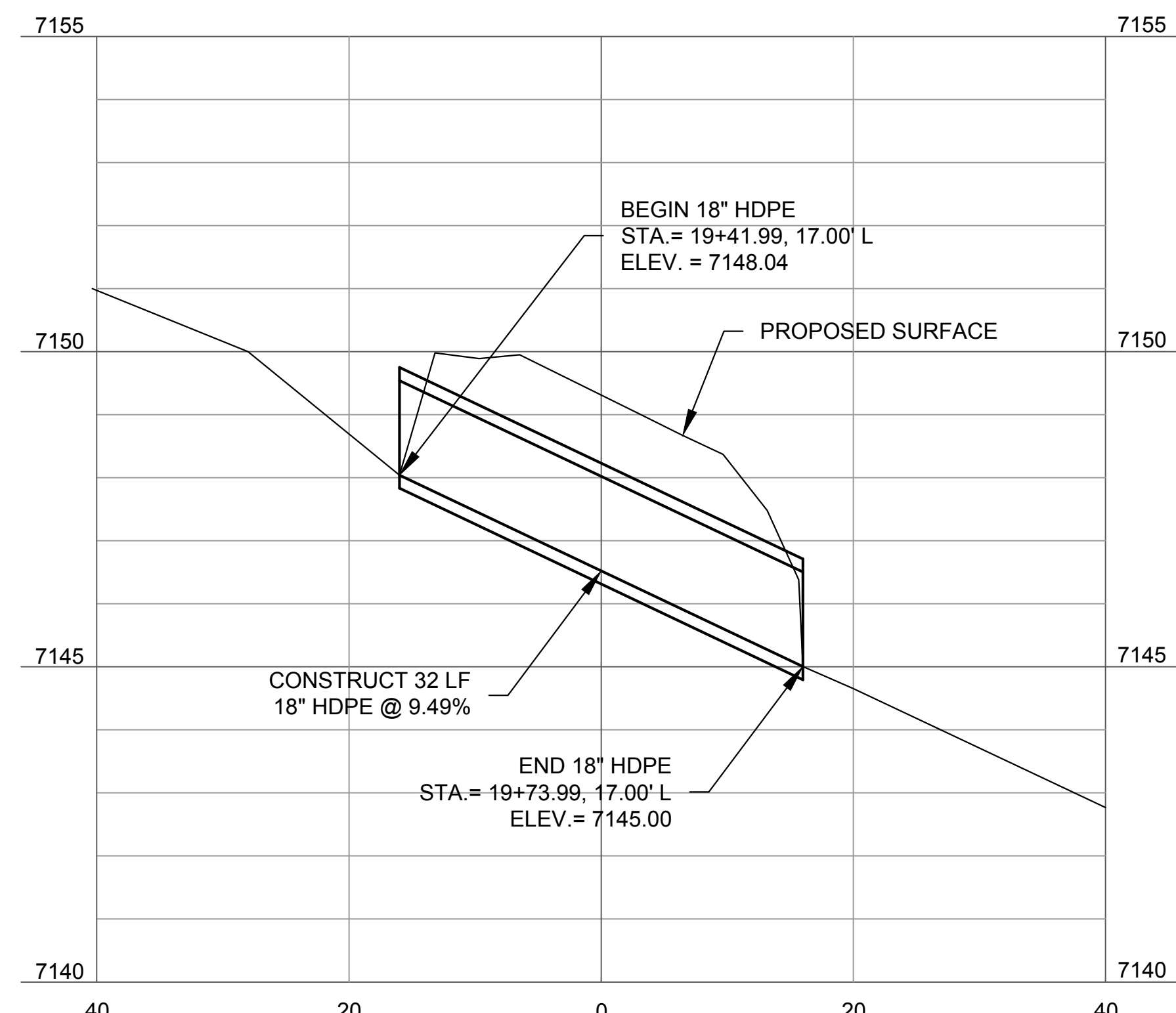
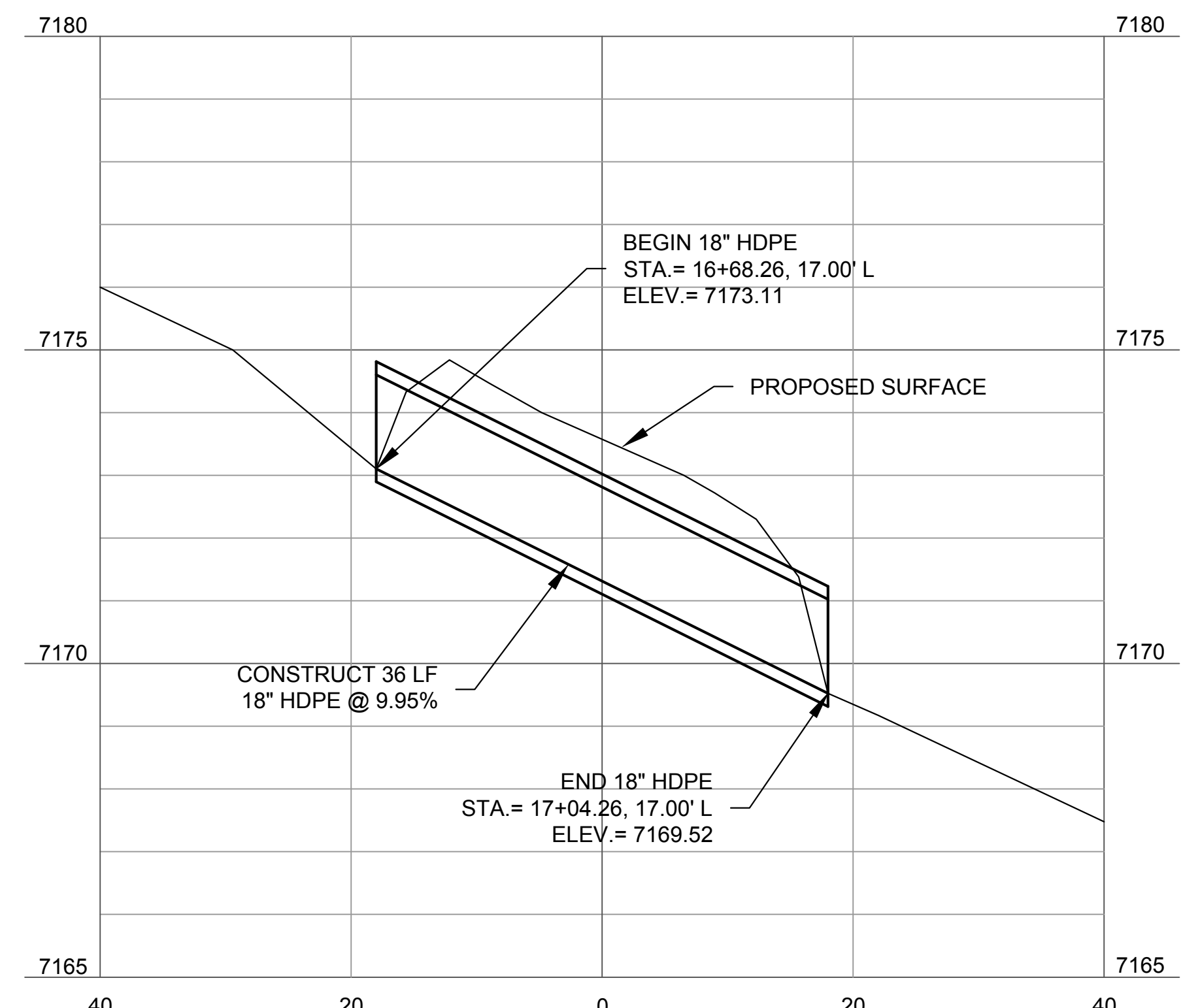
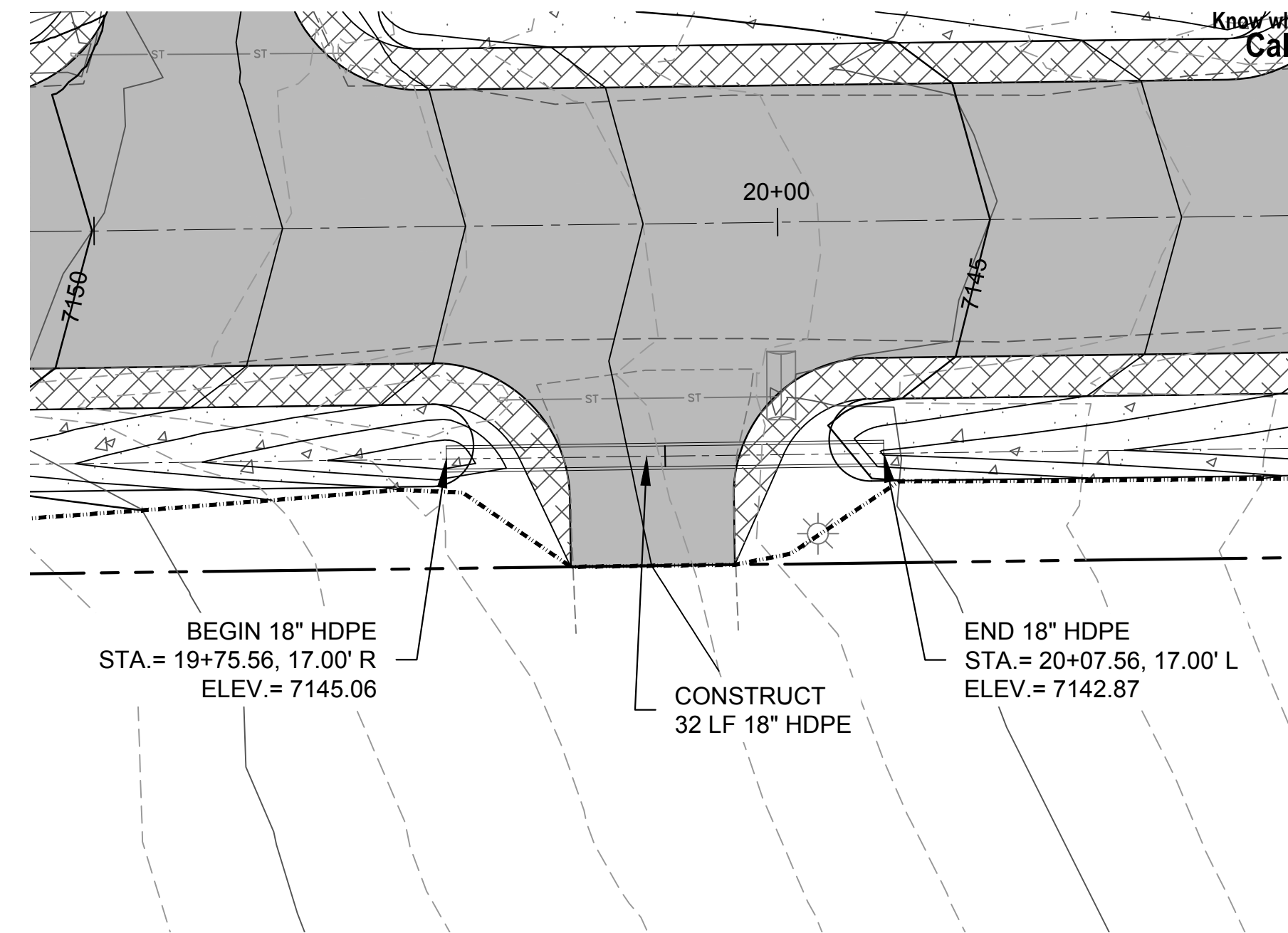
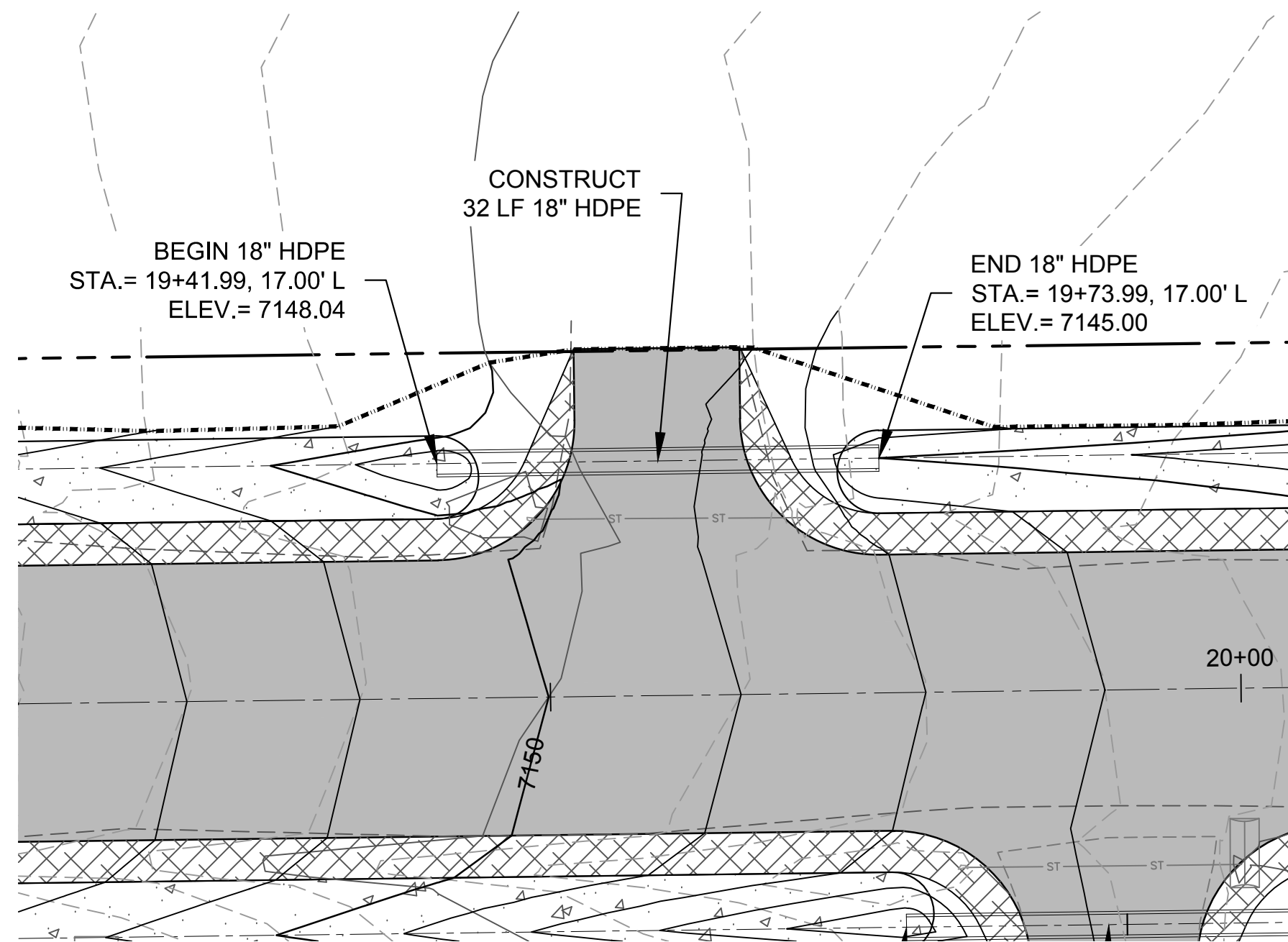
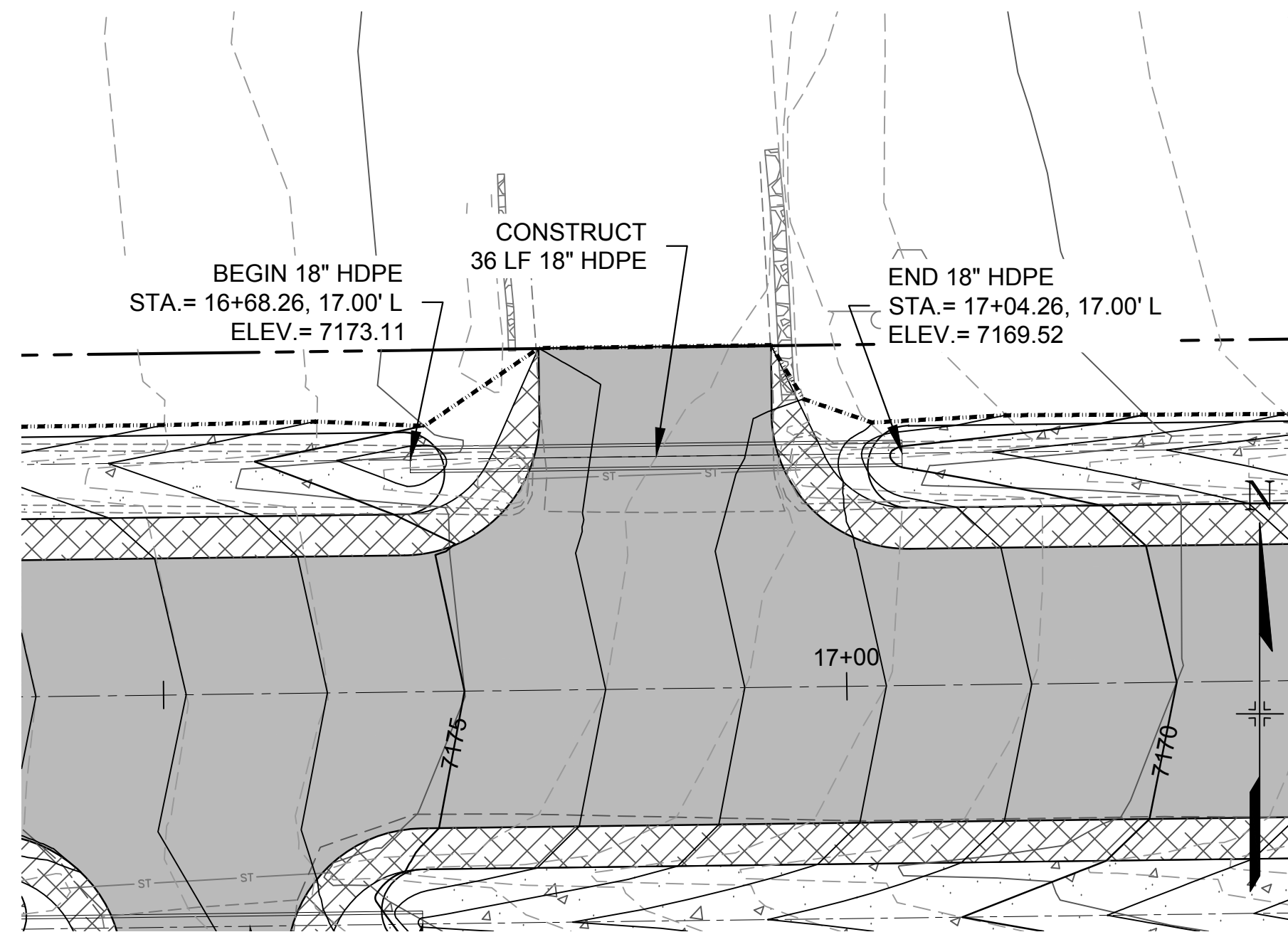
TOWN OF PALMER LAKE
ROADWAY & DRAINAGE IMPROVEMENT PLAN

CULVERT PLAN & PROFILE

DESIGNED BY: MHH	SCALE: HORIZ 1" = 10'	DATE ISSUED: OCTOBER 19, 2018	DRAWING No. SD01
CHECKED BY: SDB	VERT. 1" = 2'	SHEET 17 OF 30	



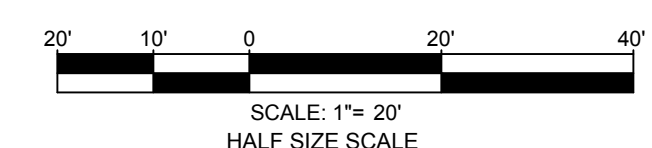
Know what's below.
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18" HDPE DOUGLAS AVENUE
16+68.26 to STA.17+04.26

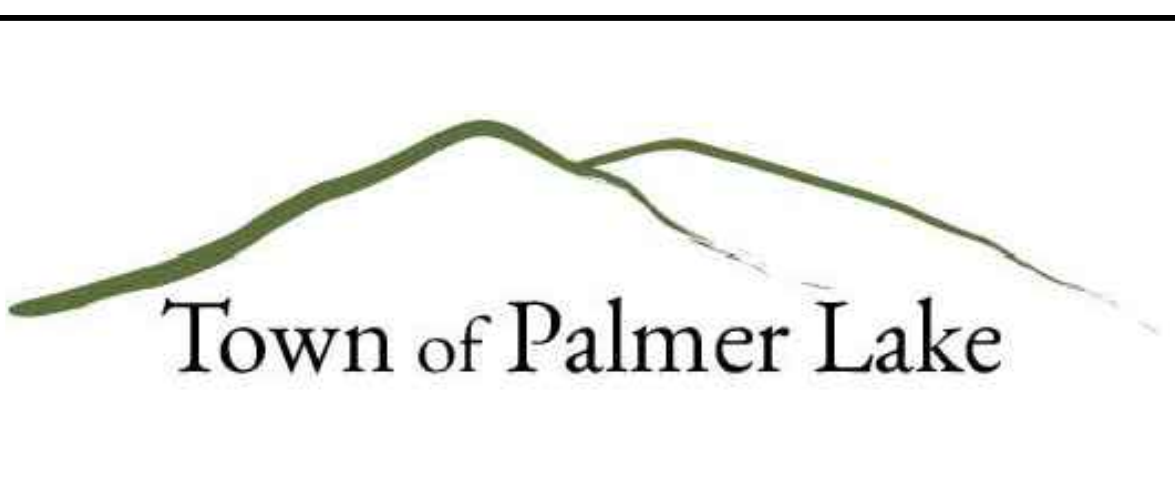
18" HDPE DOUGLAS AVENUE
STA.19+41.99 to STA.19+73.99

18" HDPE DOUGLAS AVENUE
STA.19+75.56 to STA.20+07.56

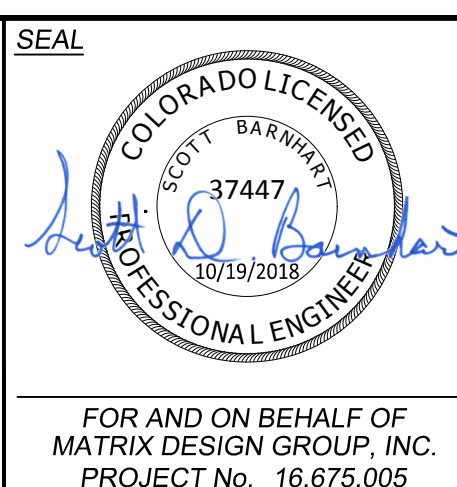


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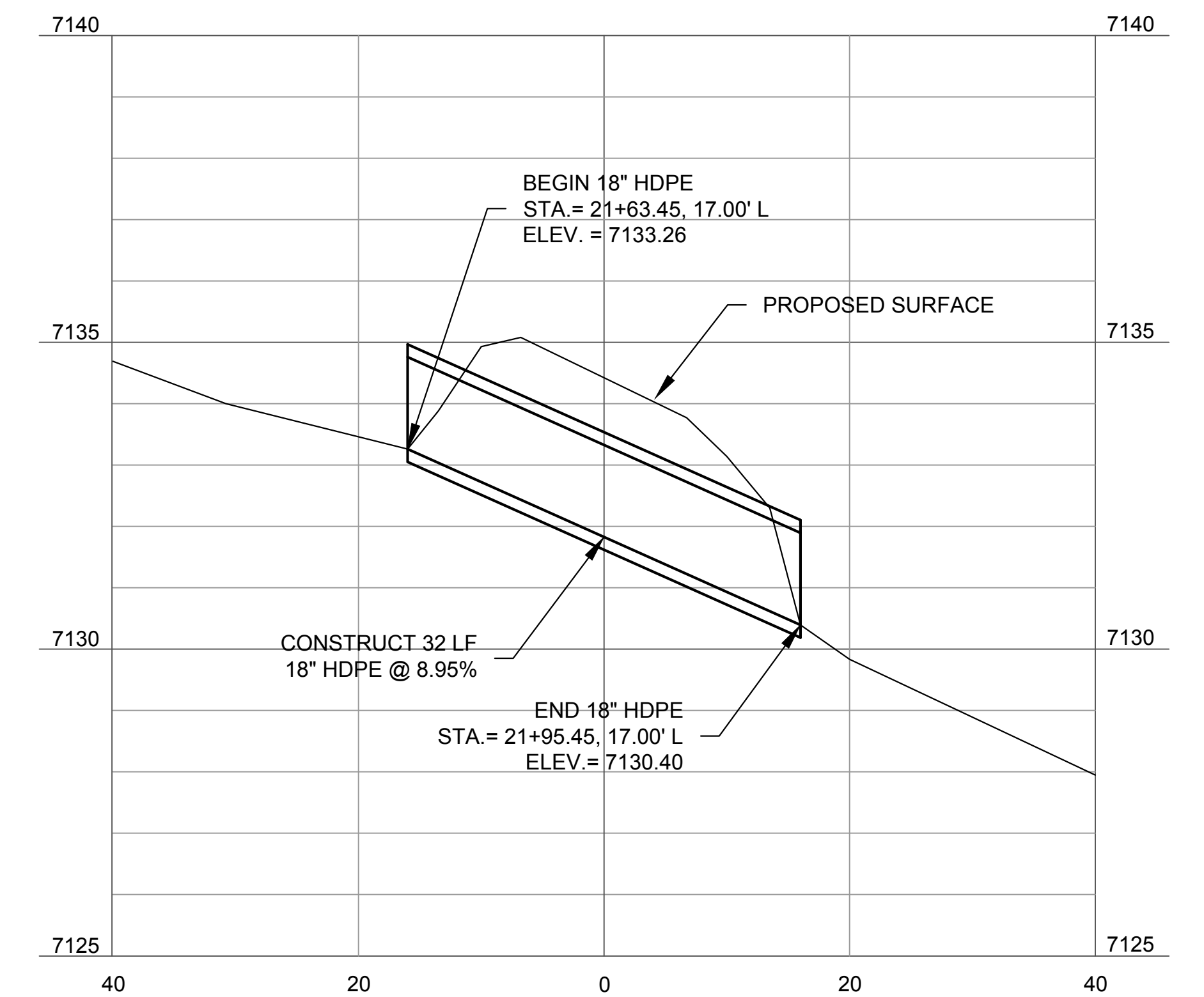
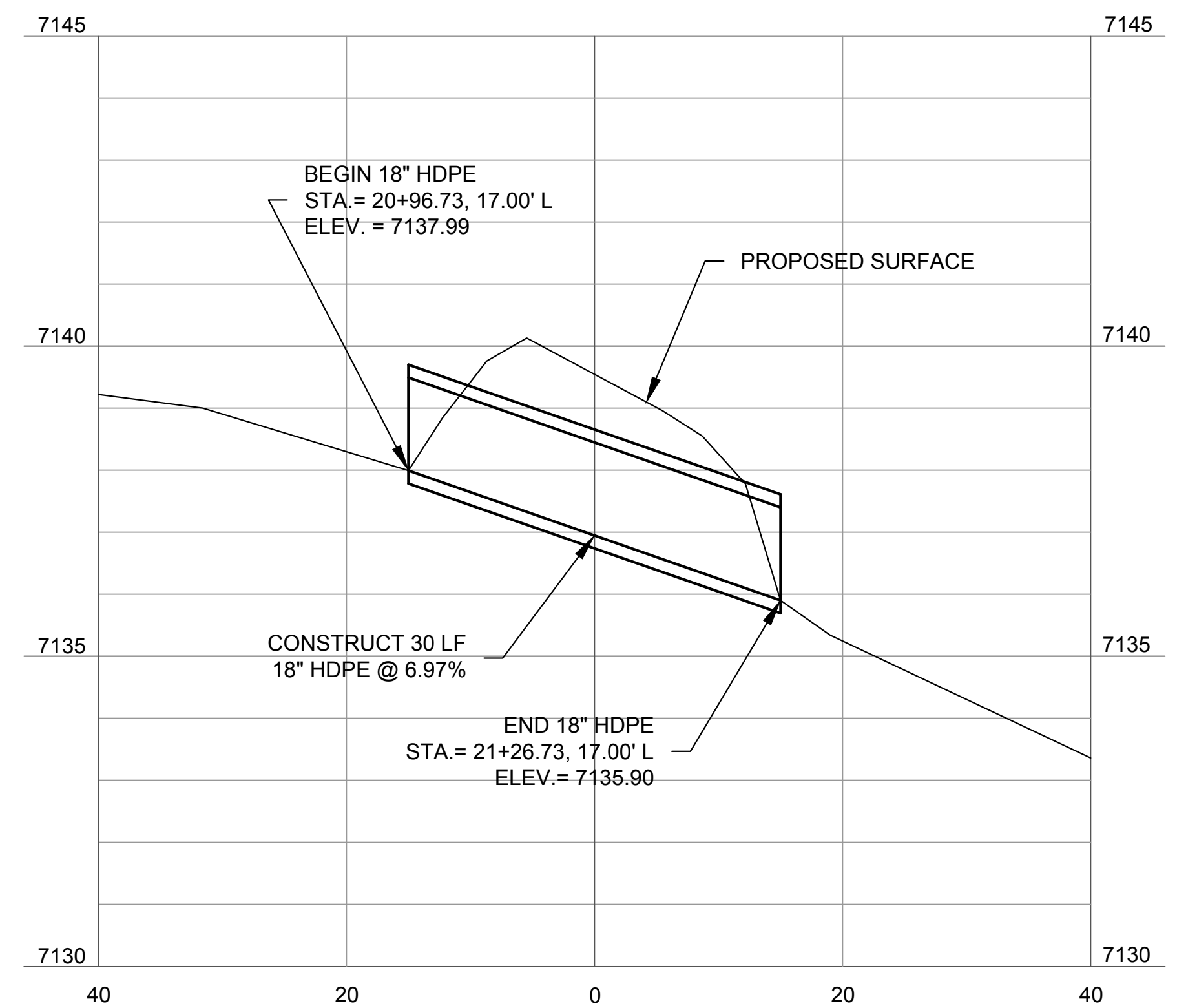
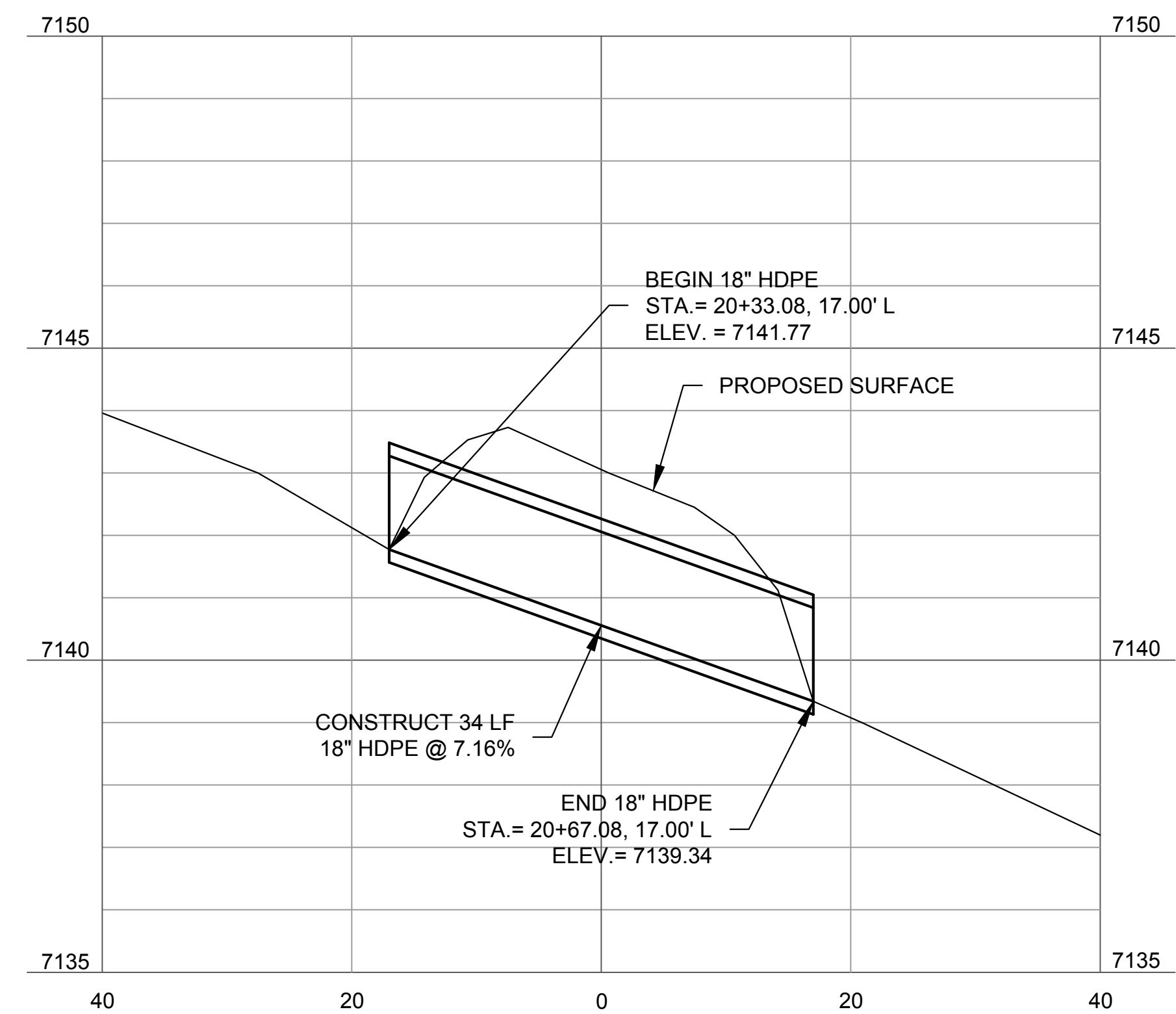
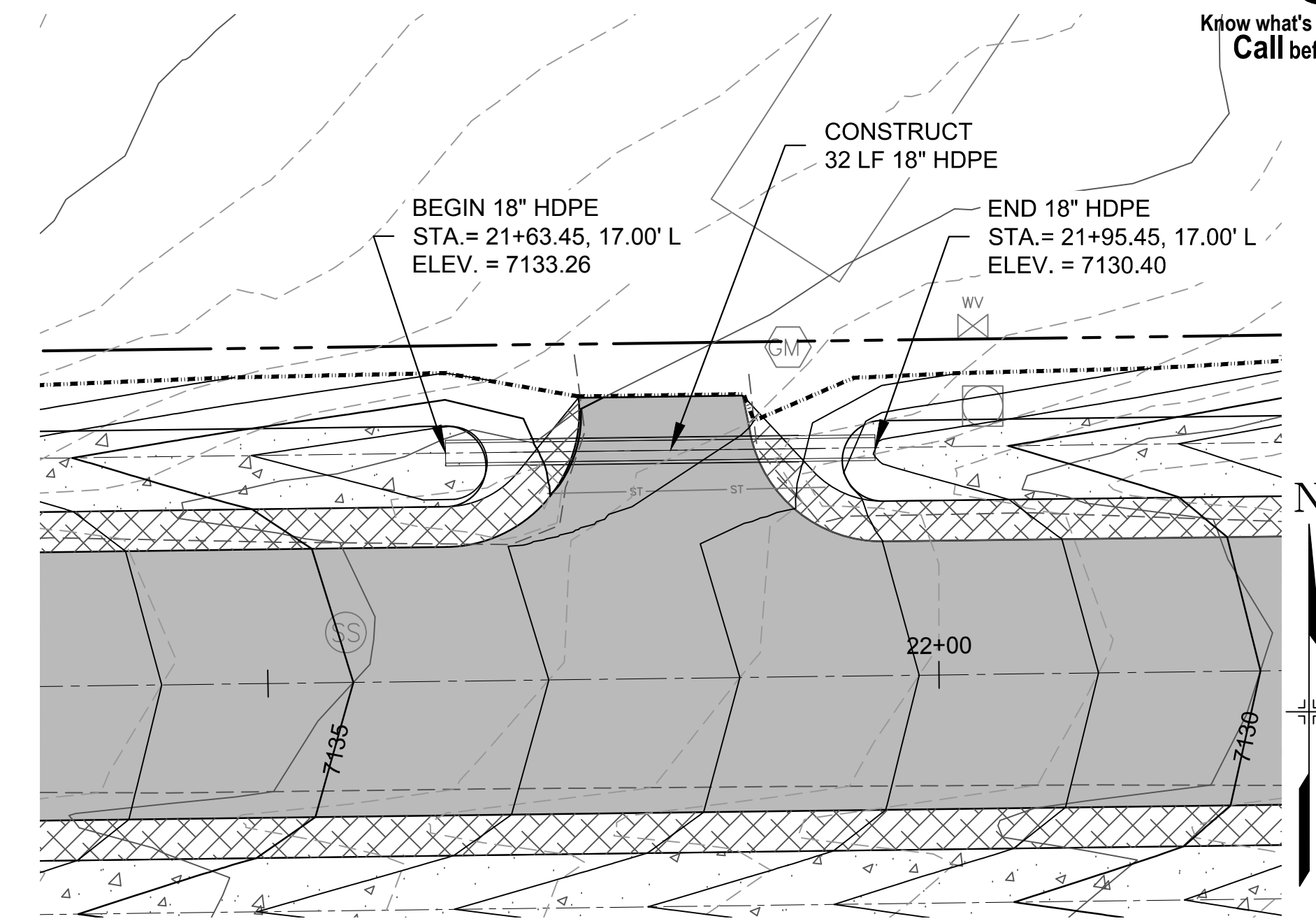
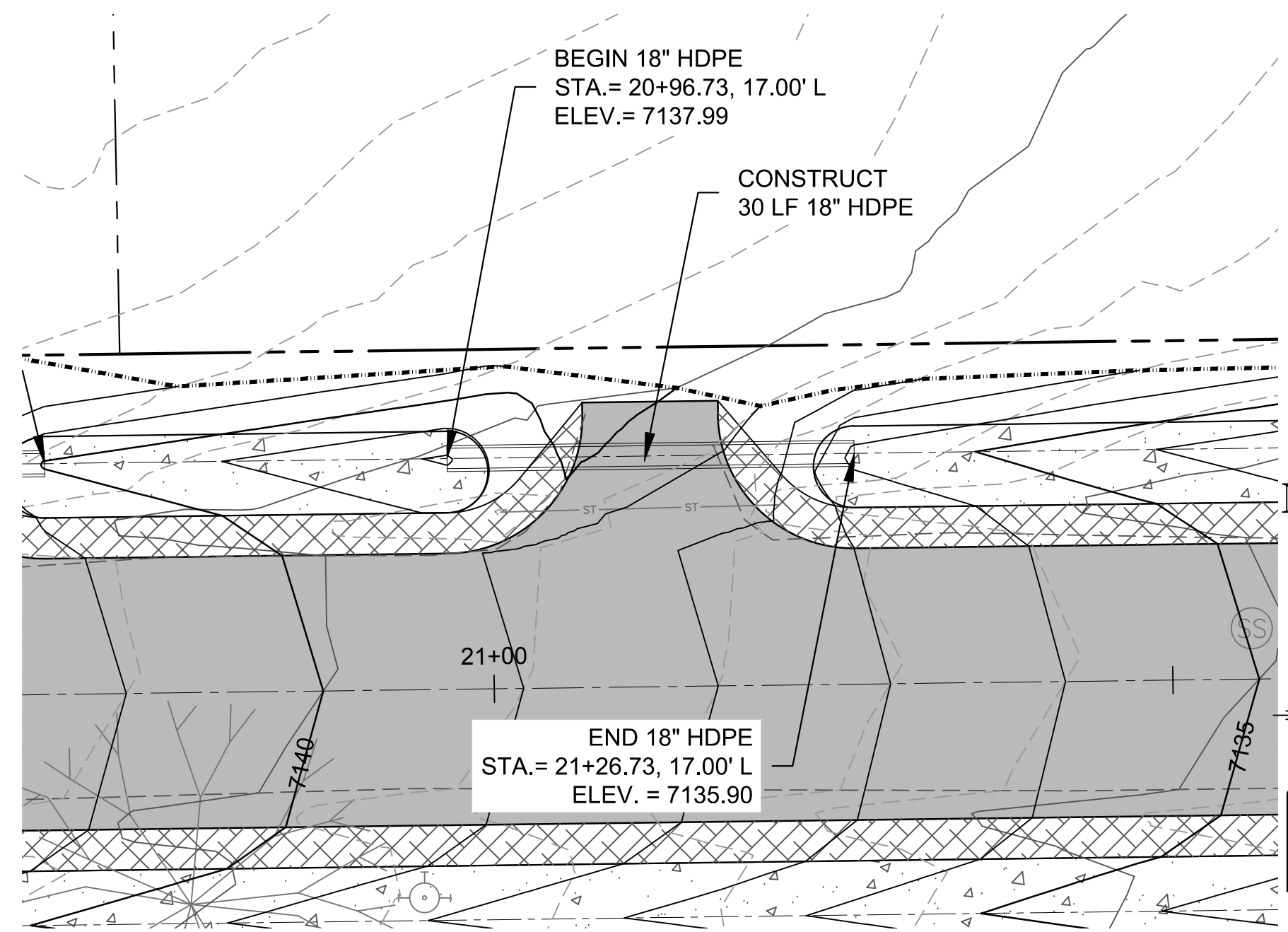
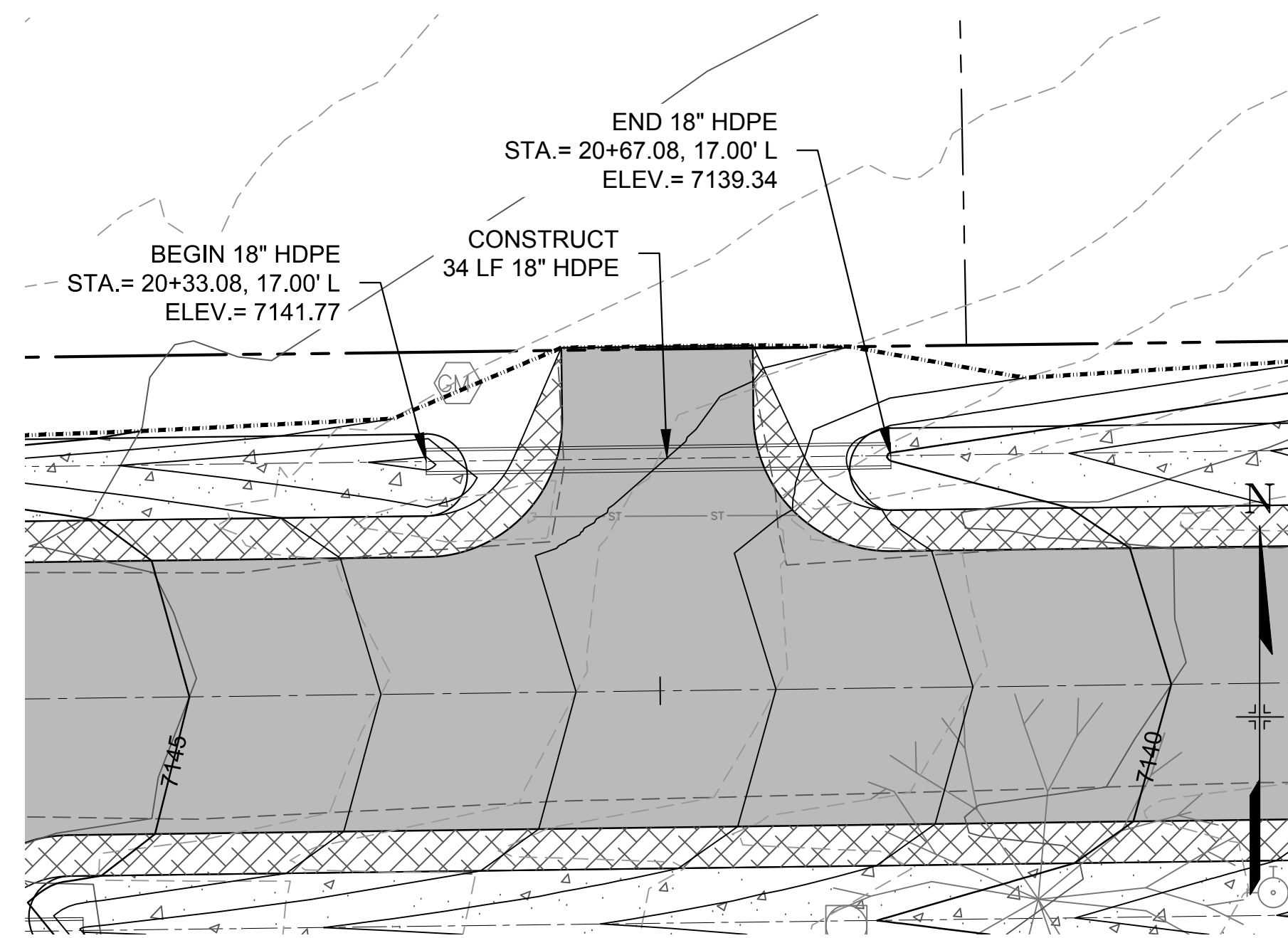
PREPARED BY:
Matrix
DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY
2435 RESEARCH PARKWAY
SUITE 300
COLORADO SPRINGS, CO. 80920
PH (719) 575-0100



DOUGLAS AVE ROADWAY AND DRAINAGE IMPROVEMENTS			
TOWN OF PALMER LAKE ROADWAY & DRAINAGE IMPROVEMENT PLAN			
CULVERT PLAN & PROFILE			
DESIGNED BY: MHH	SCALE: 1" = 10'	DATE ISSUED: OCTOBER 19, 2018	DRAWING No.
CHECKED BY: SDB	HORIZ 1" = 10'	SHEET 18 OF 30	SD02
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 16.675.005		SEAL	



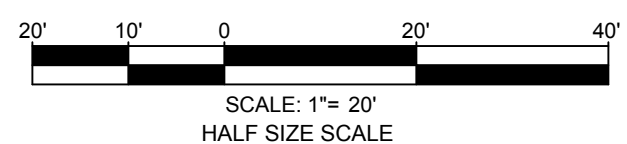
Know what's below.
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18" HDPE DOUGLAS AVENUE
STA.20+33.08 to STA.20+67.08

18" HDPE DOUGLAS AVENUE
STA.20+96.73 to STA.21+26.73

18" HDPE DOUGLAS AVENUE
STA.21+63.45 to STA.21+95.45

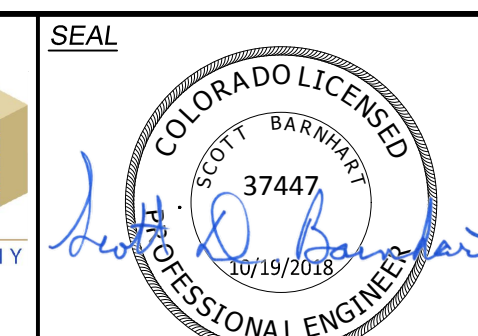


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FILE NAME: S:\16.675.005 (Douglas Av)\Dwg\SD01-06.dwg			
CTB FILE: ---			
PLOT DATE: 10/19/2018 9:37 AM			
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DOUGLAS AVE ROADWAY AND DRAINAGE IMPROVEMENTS

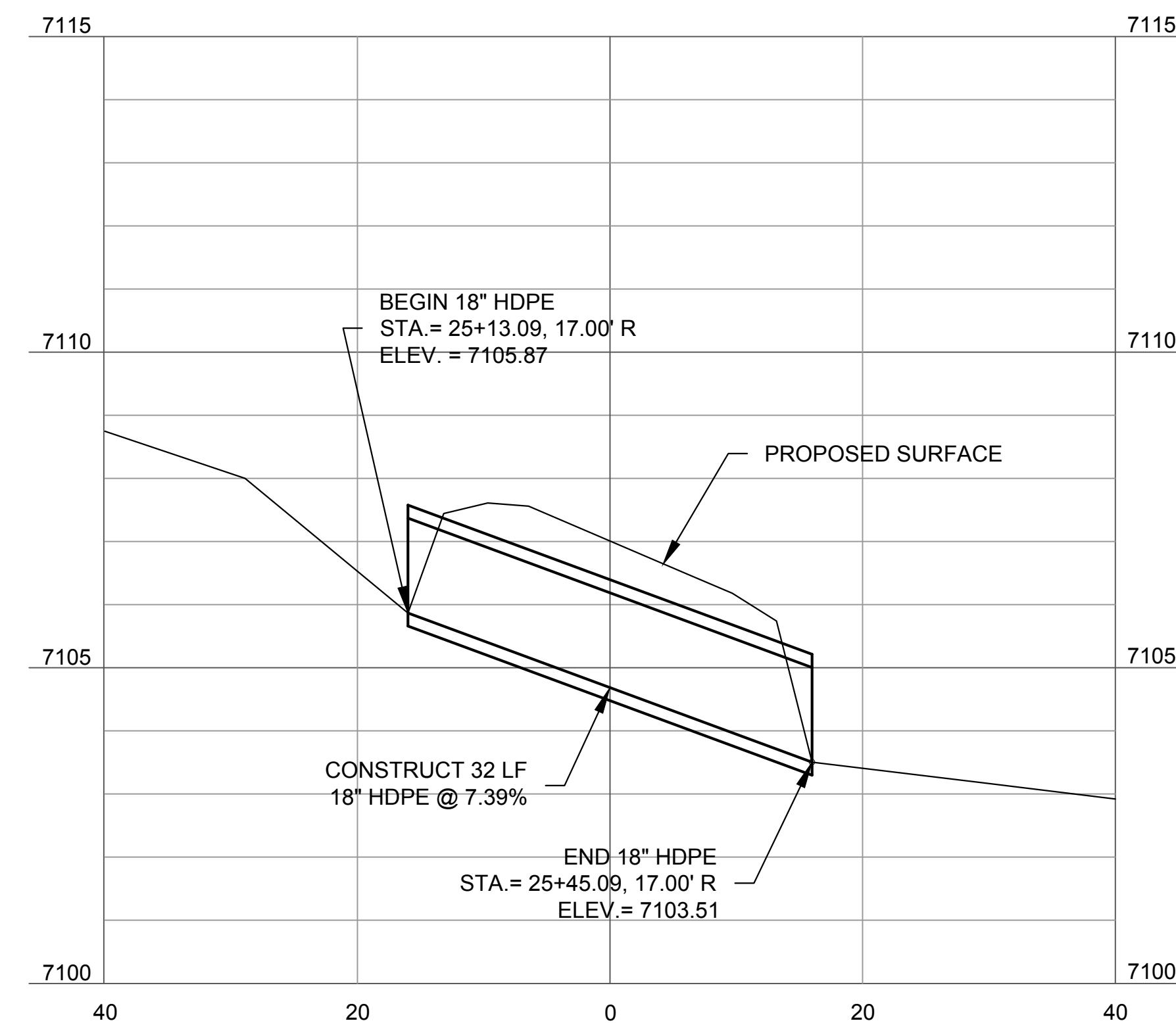
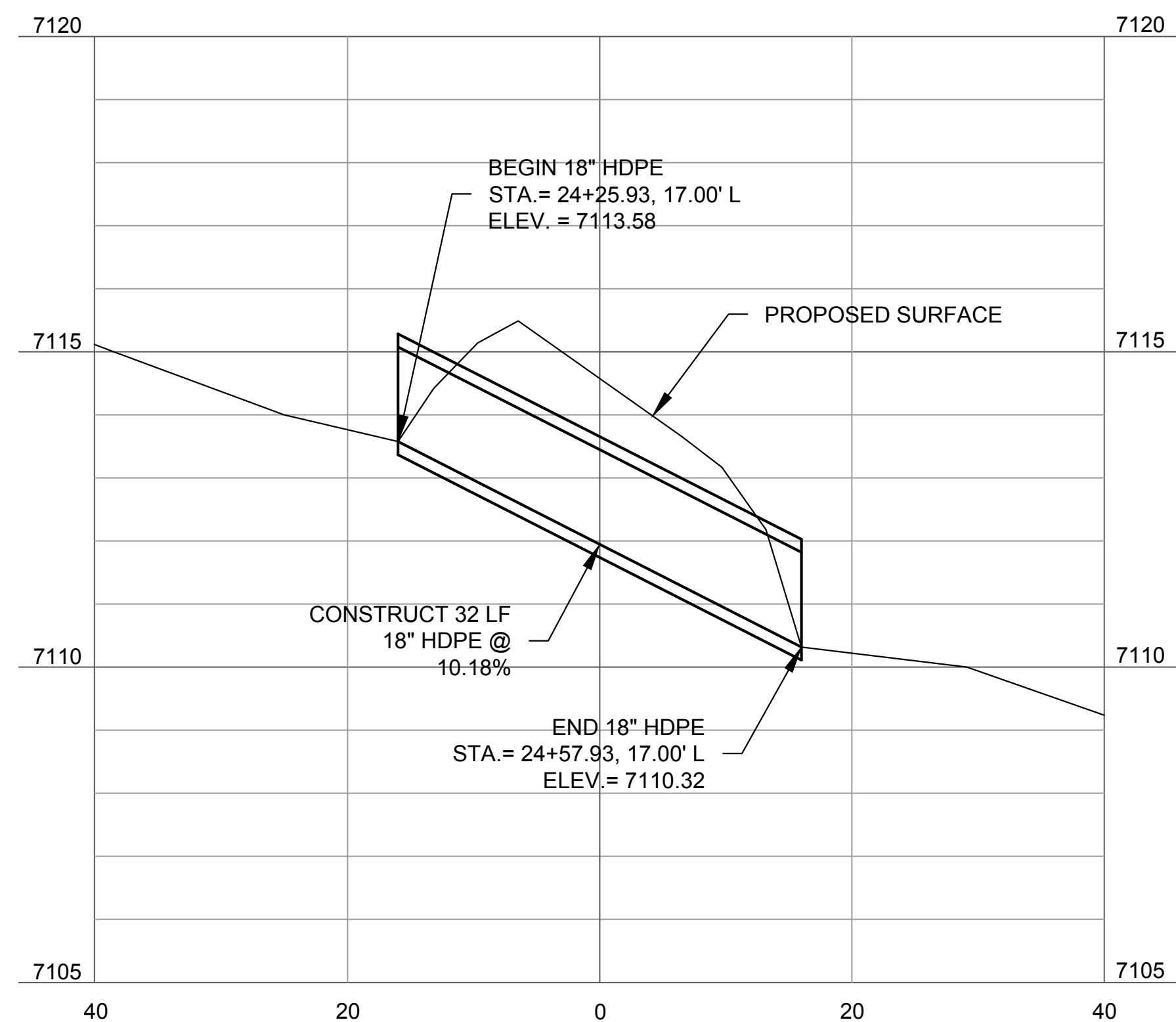
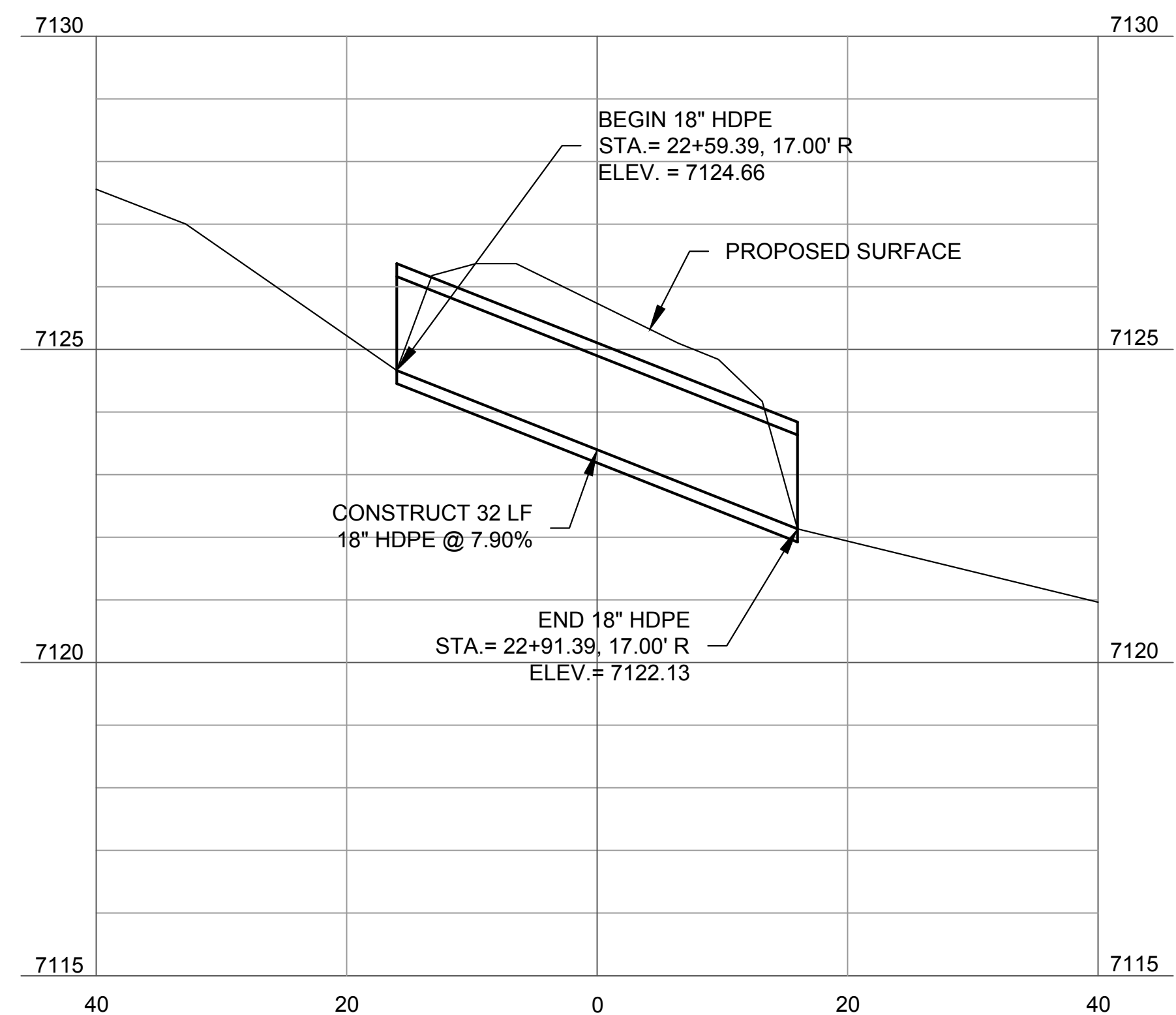
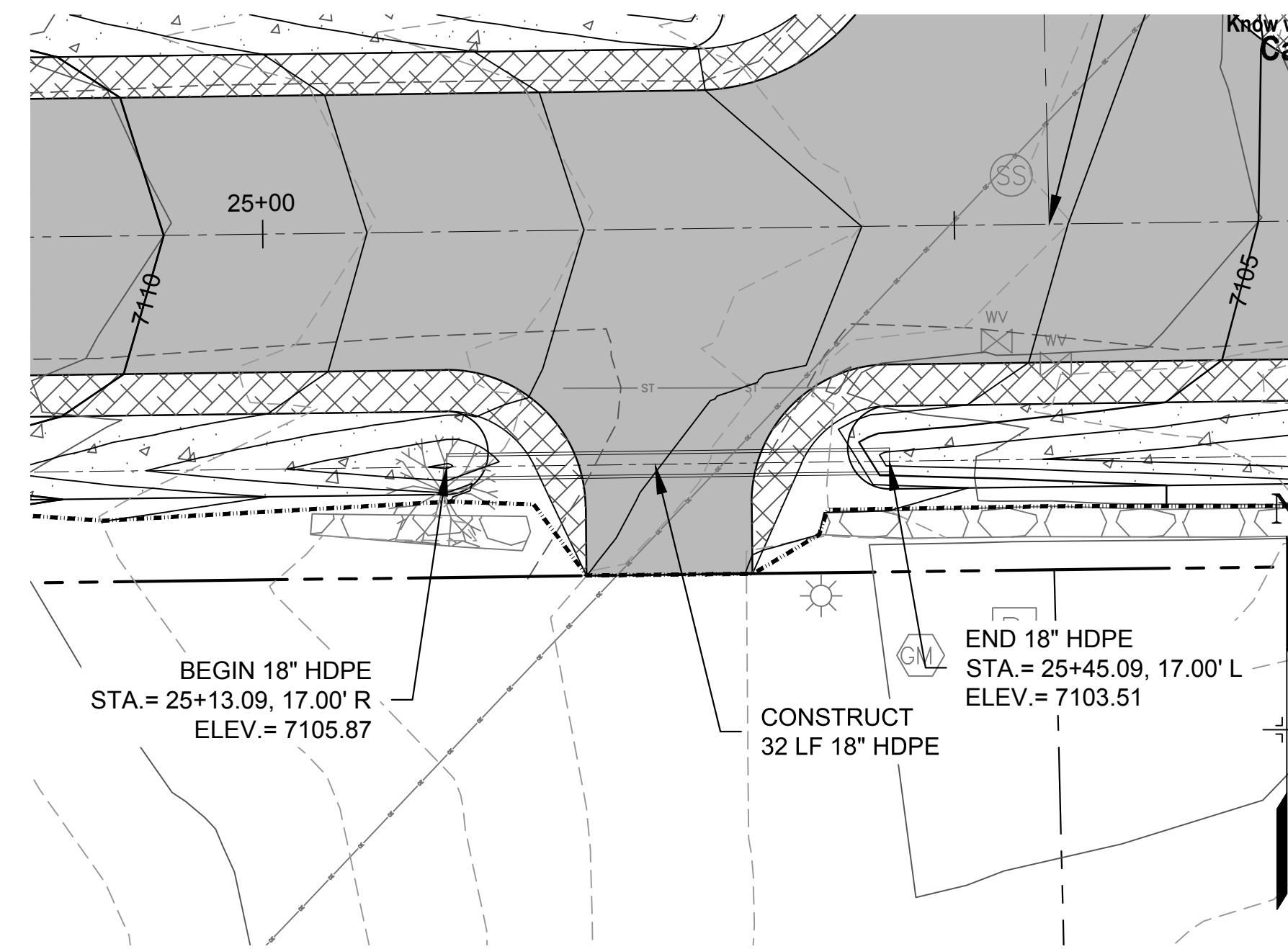
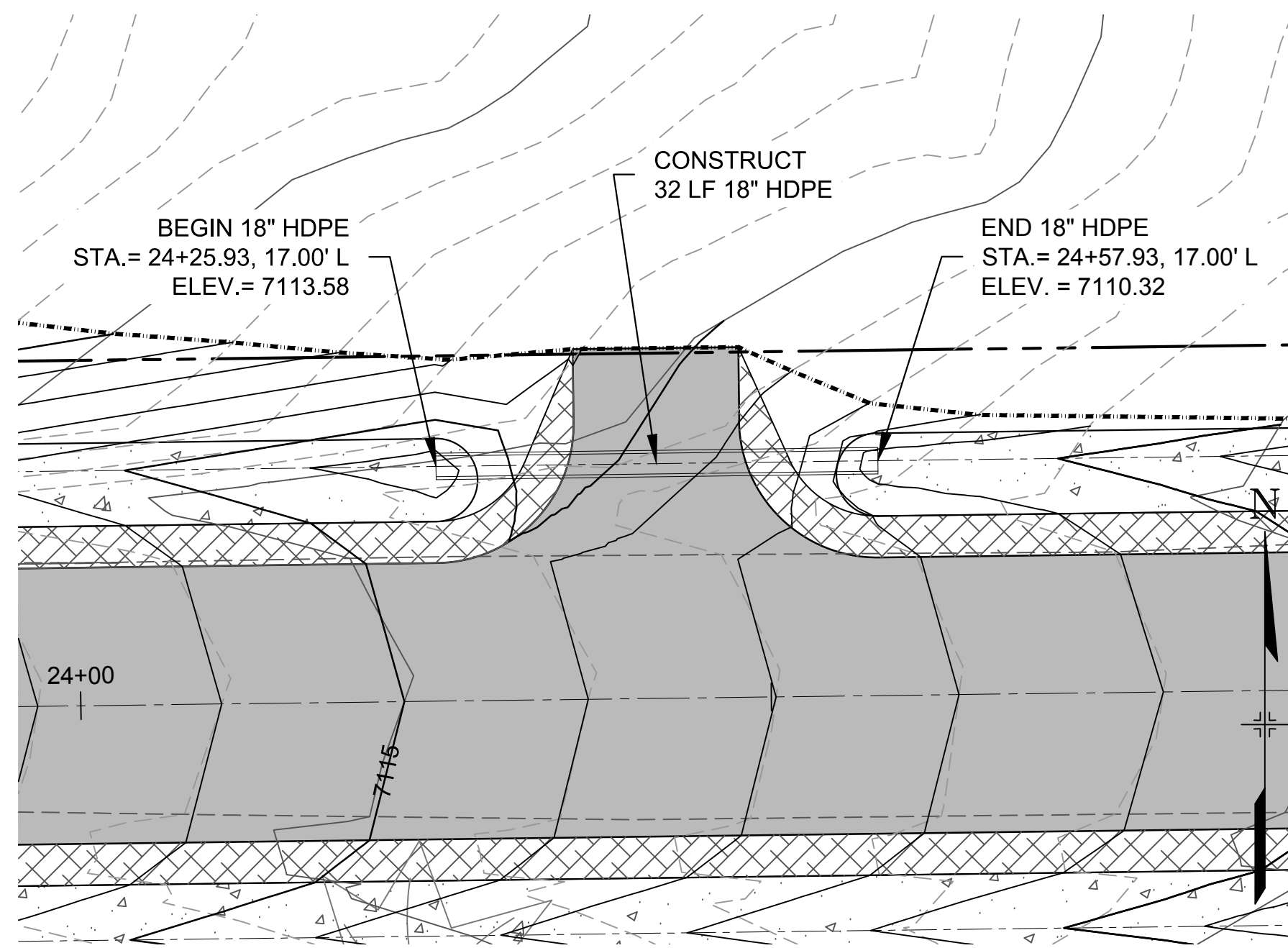
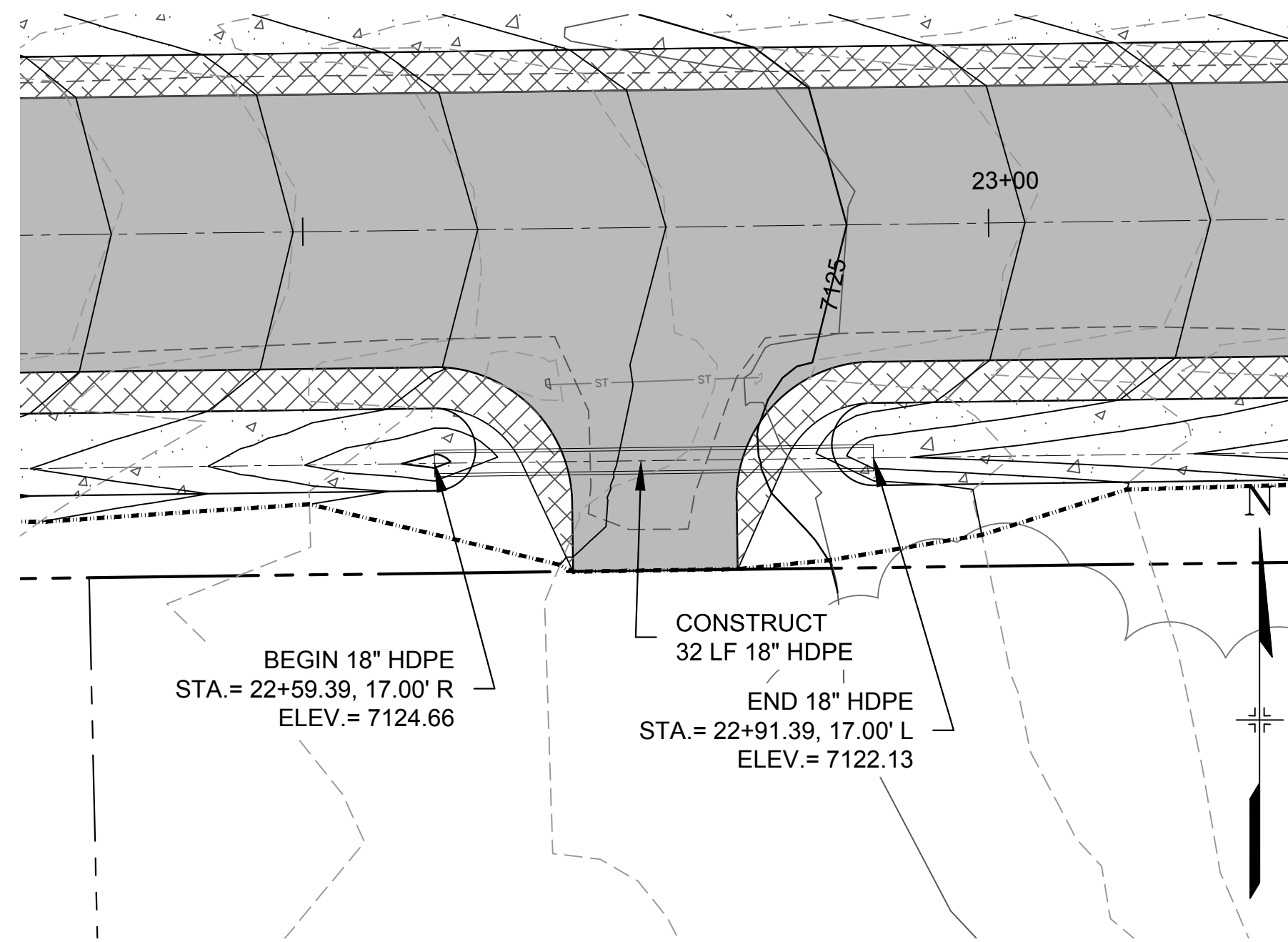
TOWN OF PALMER LAKE
ROADWAY & DRAINAGE IMPROVEMENT PLAN

CULVERT PLAN & PROFILE

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 16.675.005	DESIGNED BY: MHH DRAWN BY: MHH CHECKED BY: SDB	SCALE HORIZ 1" = 10' VERT 1" = 2'	DATE ISSUED: OCTOBER 19, 2018 SHEET 19 OF 30	DRAWING No. SD03
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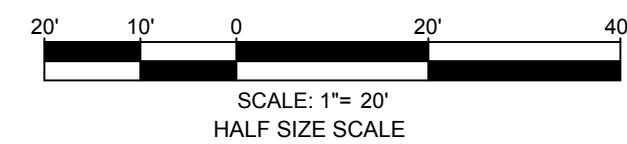
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18" HDPE DOUGLAS AVENUE
STA. 22+59.39 to STA. 22+91.39

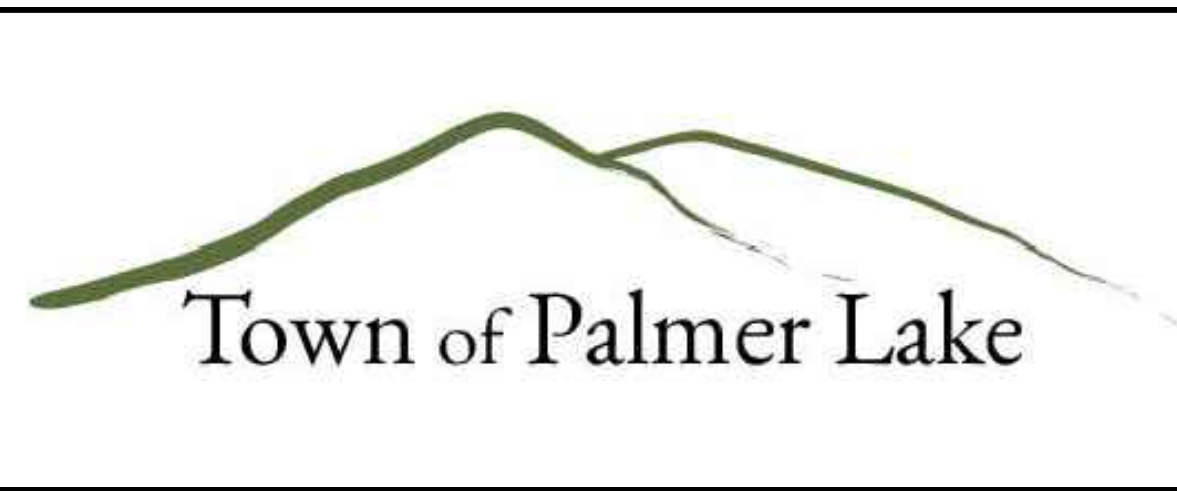
18" HDPE DOUGLAS AVENUE
STA. 24+25.93 to STA. 24+57.93

18" HDPE DOUGLAS AVENUE
STA. 25+13.09 to STA. 25+45.09



REFERENCE DRAWINGS			
No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\16.675.005 (Douglas Av)\Dwg\SD01-06.dwg			
CTB FILE: ---			
PLOT DATE: 10/19/2018 9:37 AM			
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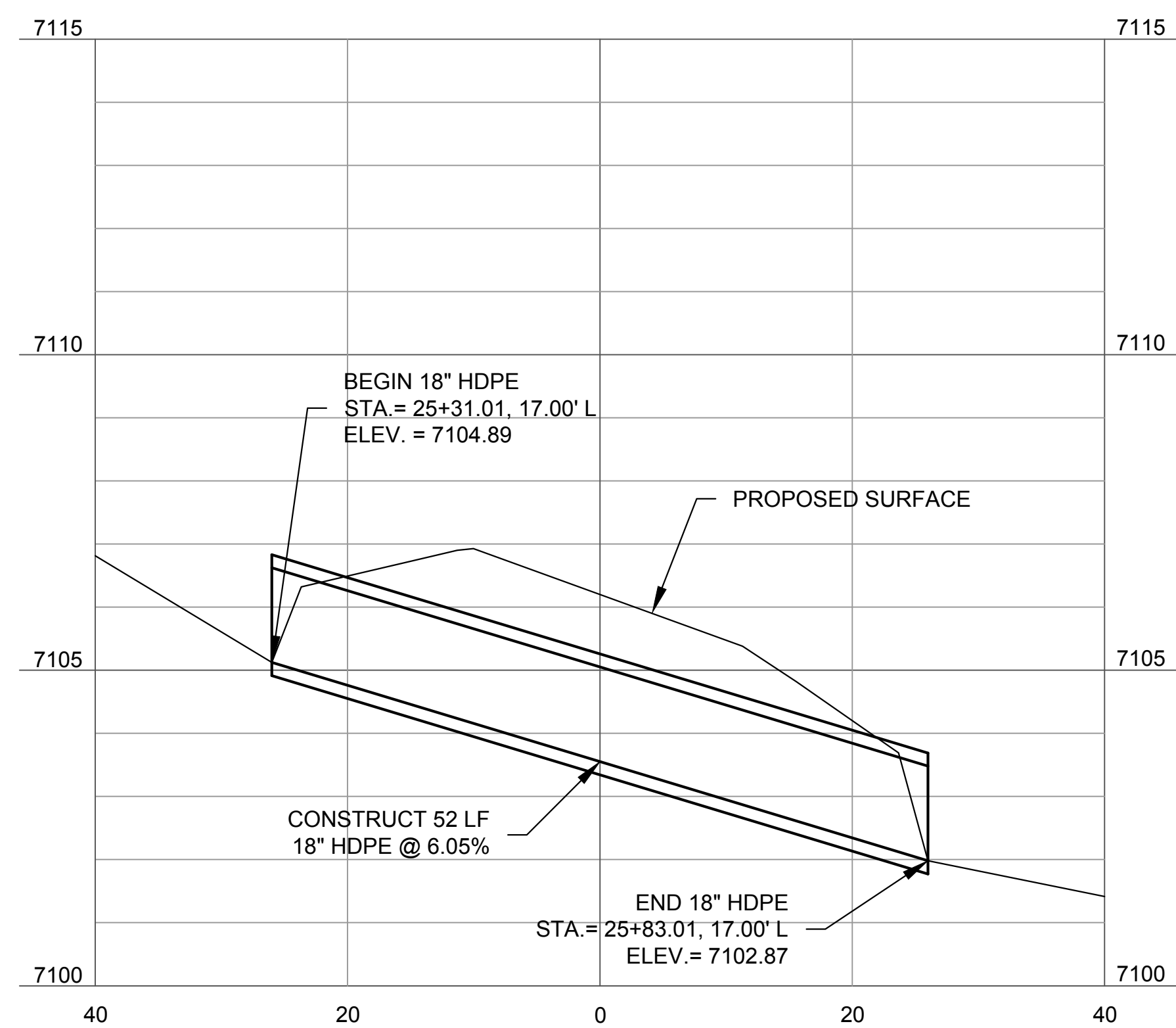
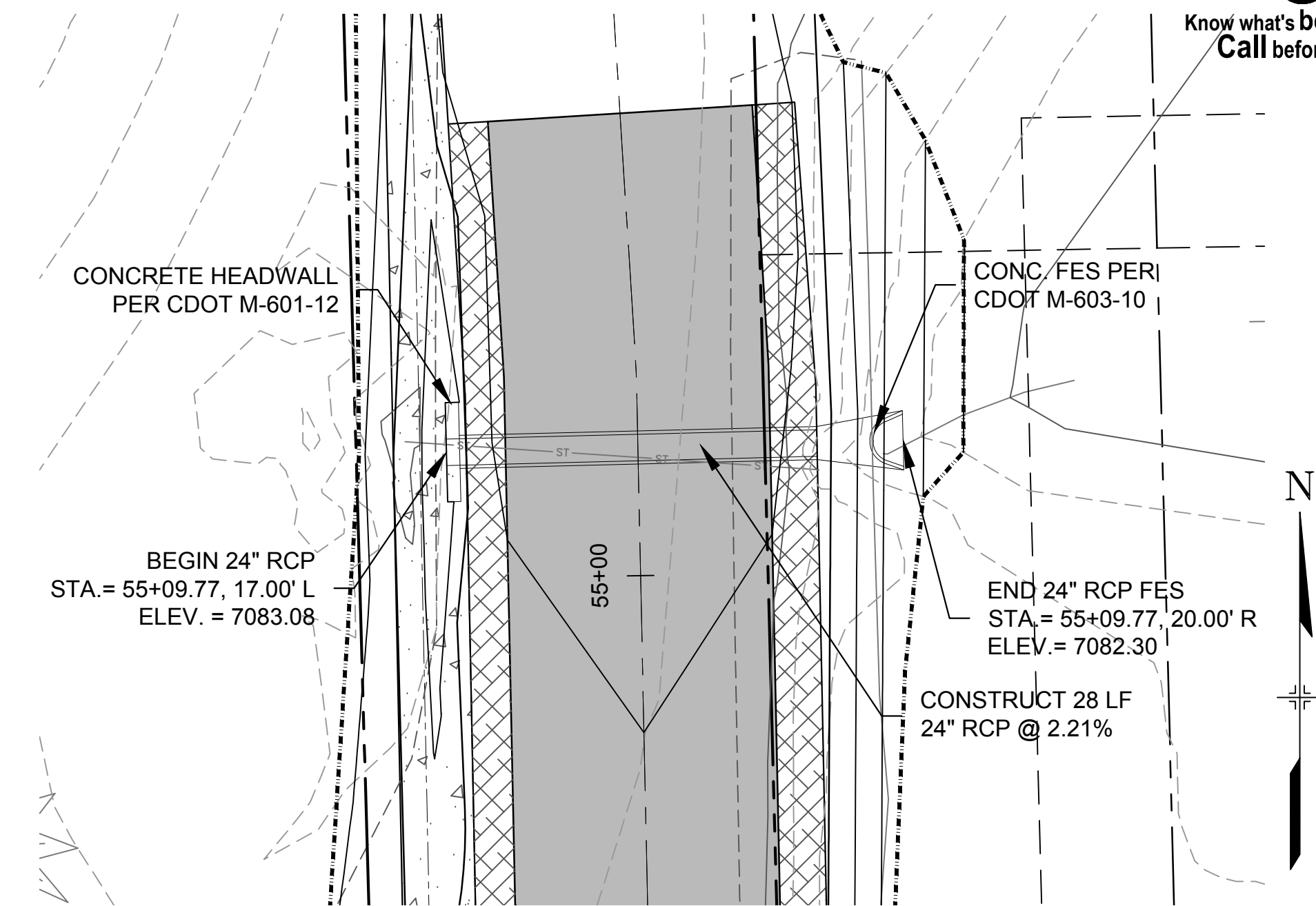
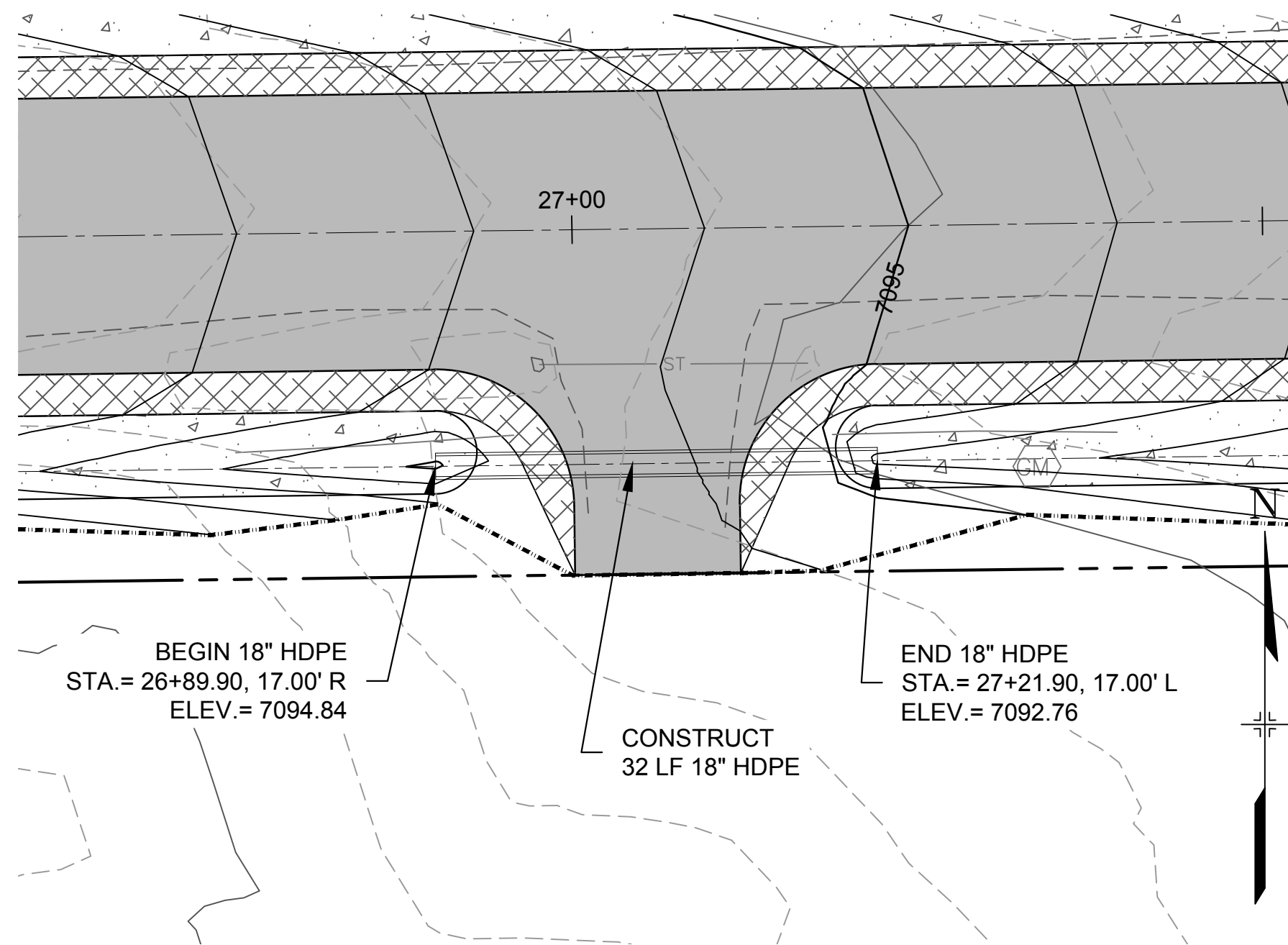
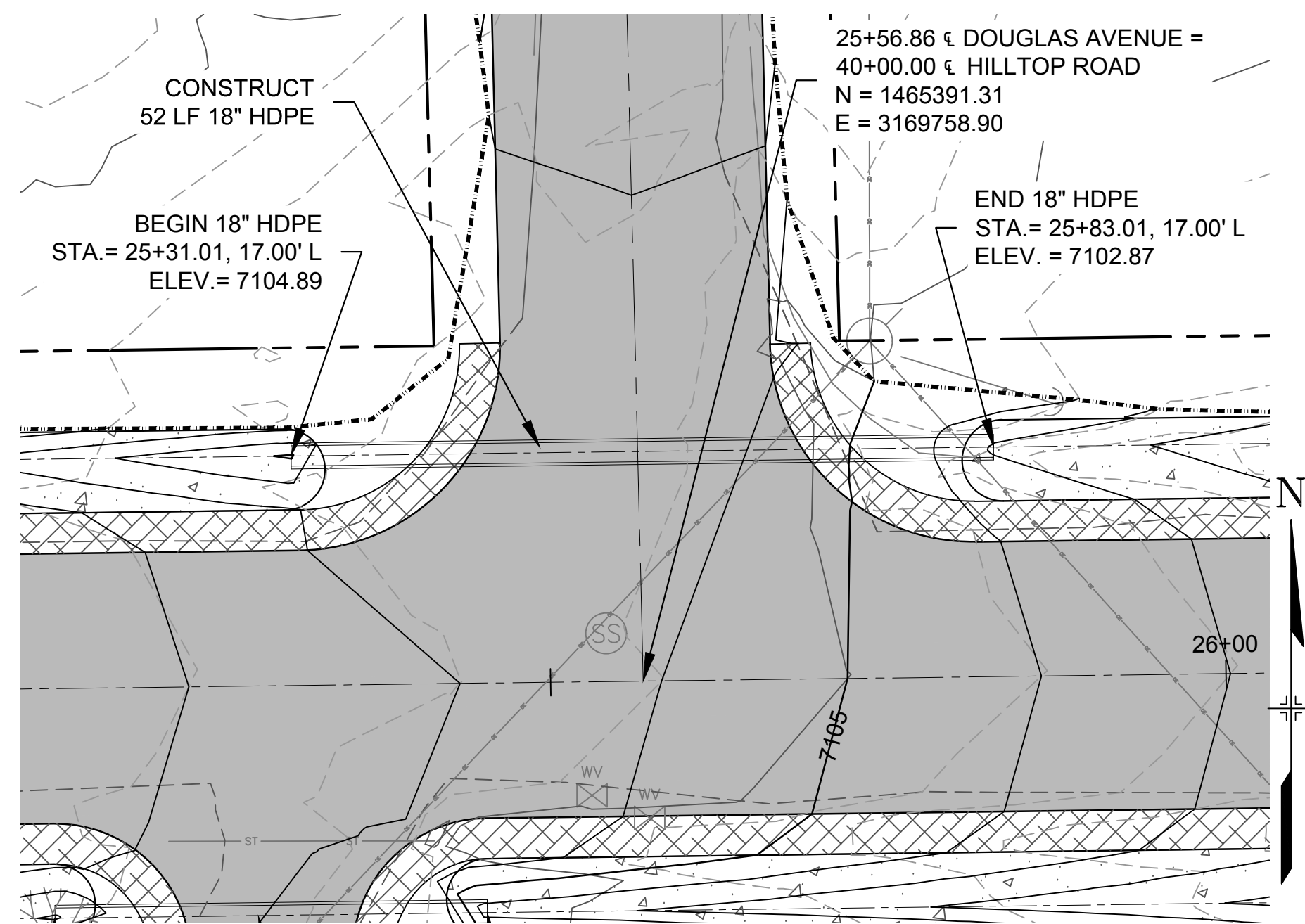
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37447
10/19/2018
PROFESSIONAL ENGINEER

DOUGLAS AVE ROADWAY AND DRAINAGE IMPROVEMENTS
TOWN OF PALMER LAKE
ROADWAY & DRAINAGE IMPROVEMENT PLAN
CULVERT PLAN & PROFILE

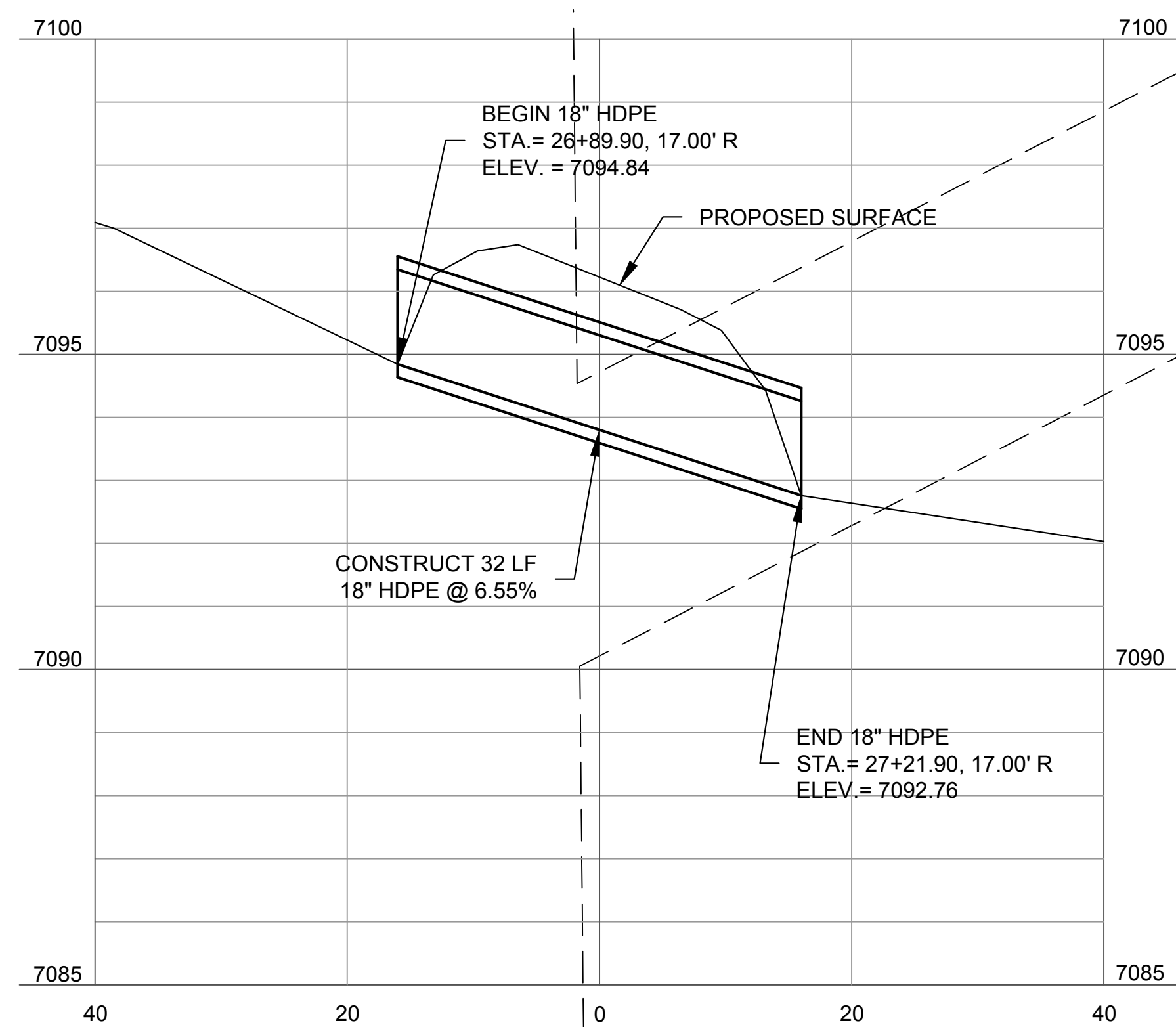
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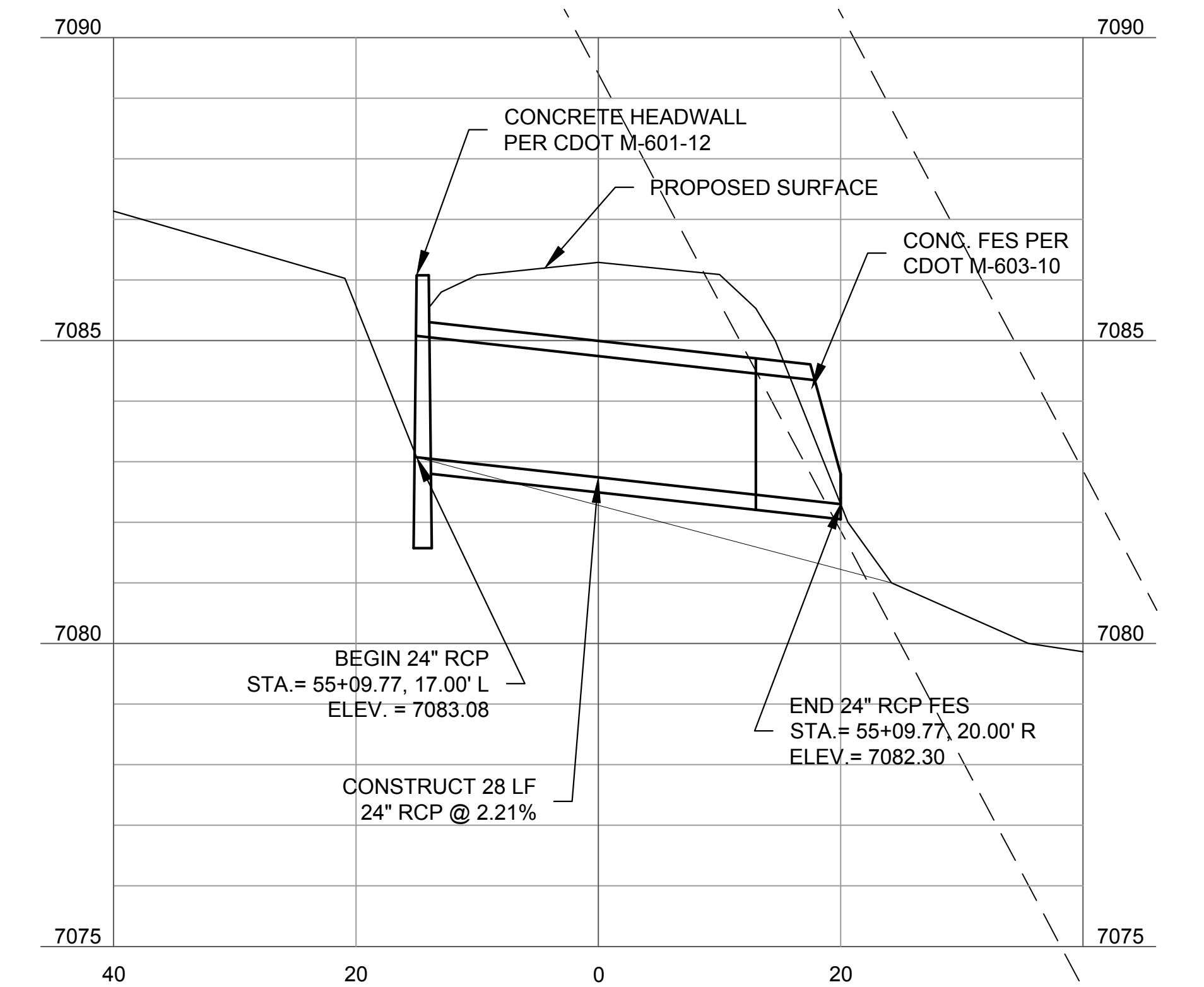
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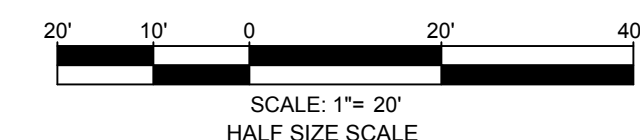
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STA.25+31.01 to STA.25+83.01



18" HDPE DOUGLAS AVENUE
STA.26+89.90 to STA.27+21.90



24" RCP FOREST VIEW ROAD
STA.55+09.77



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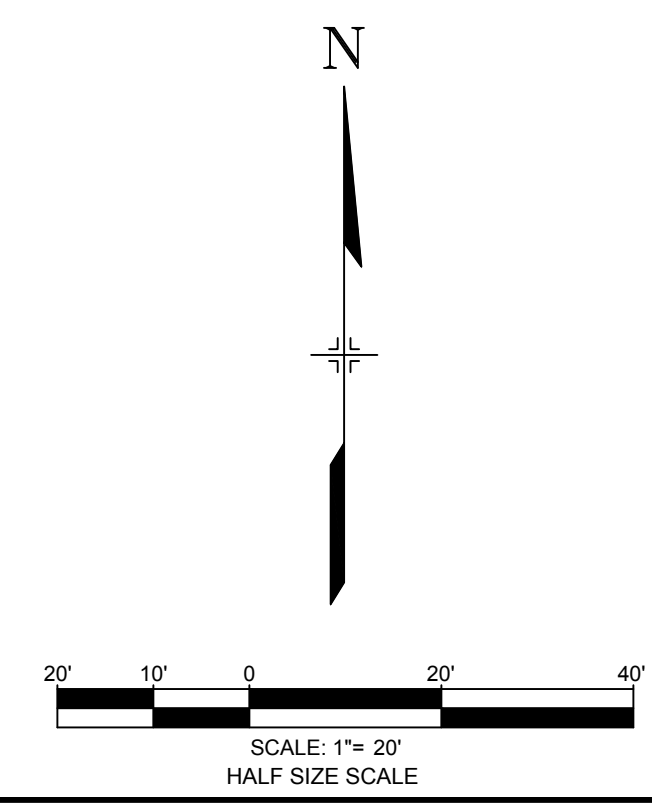
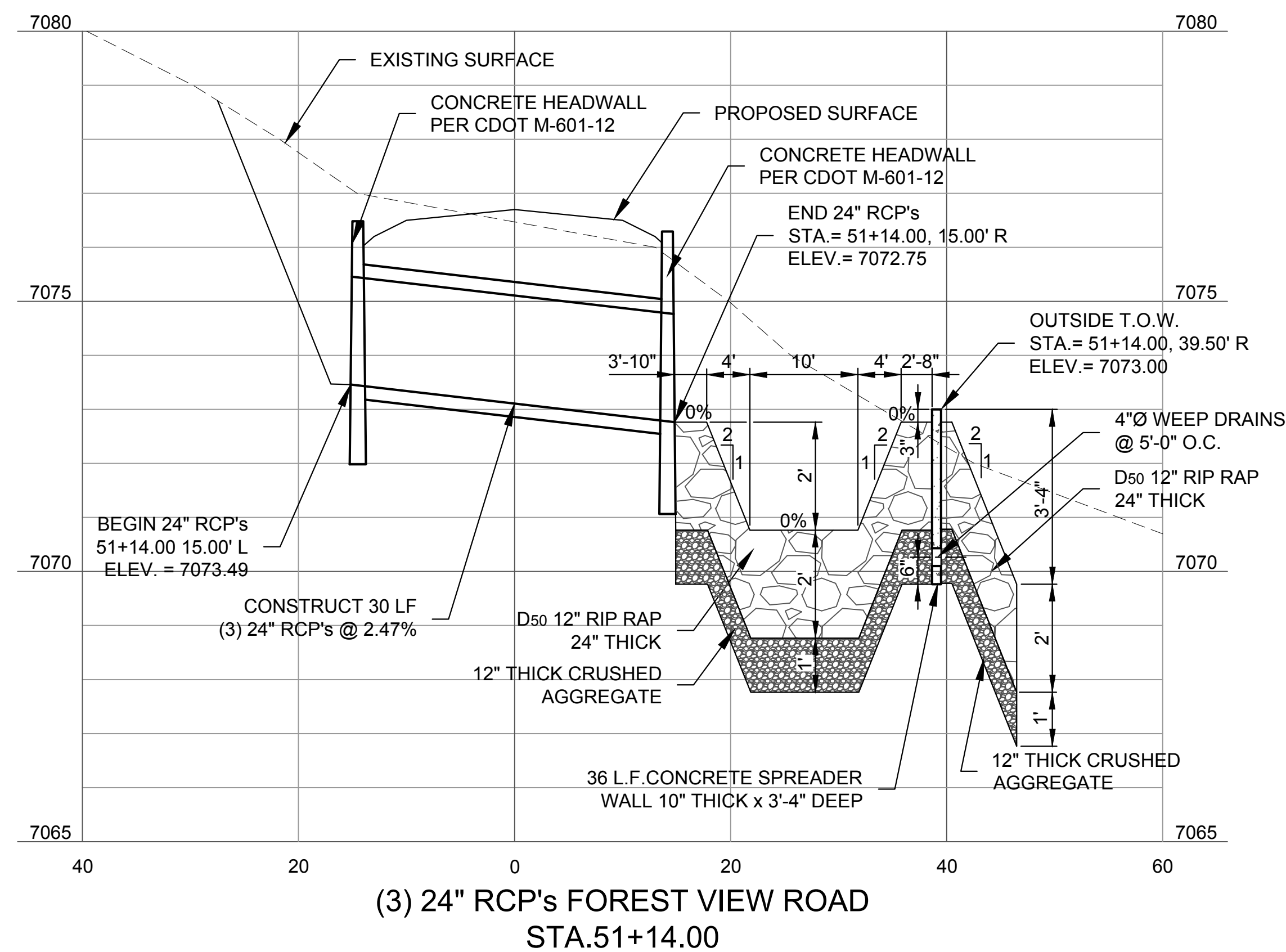
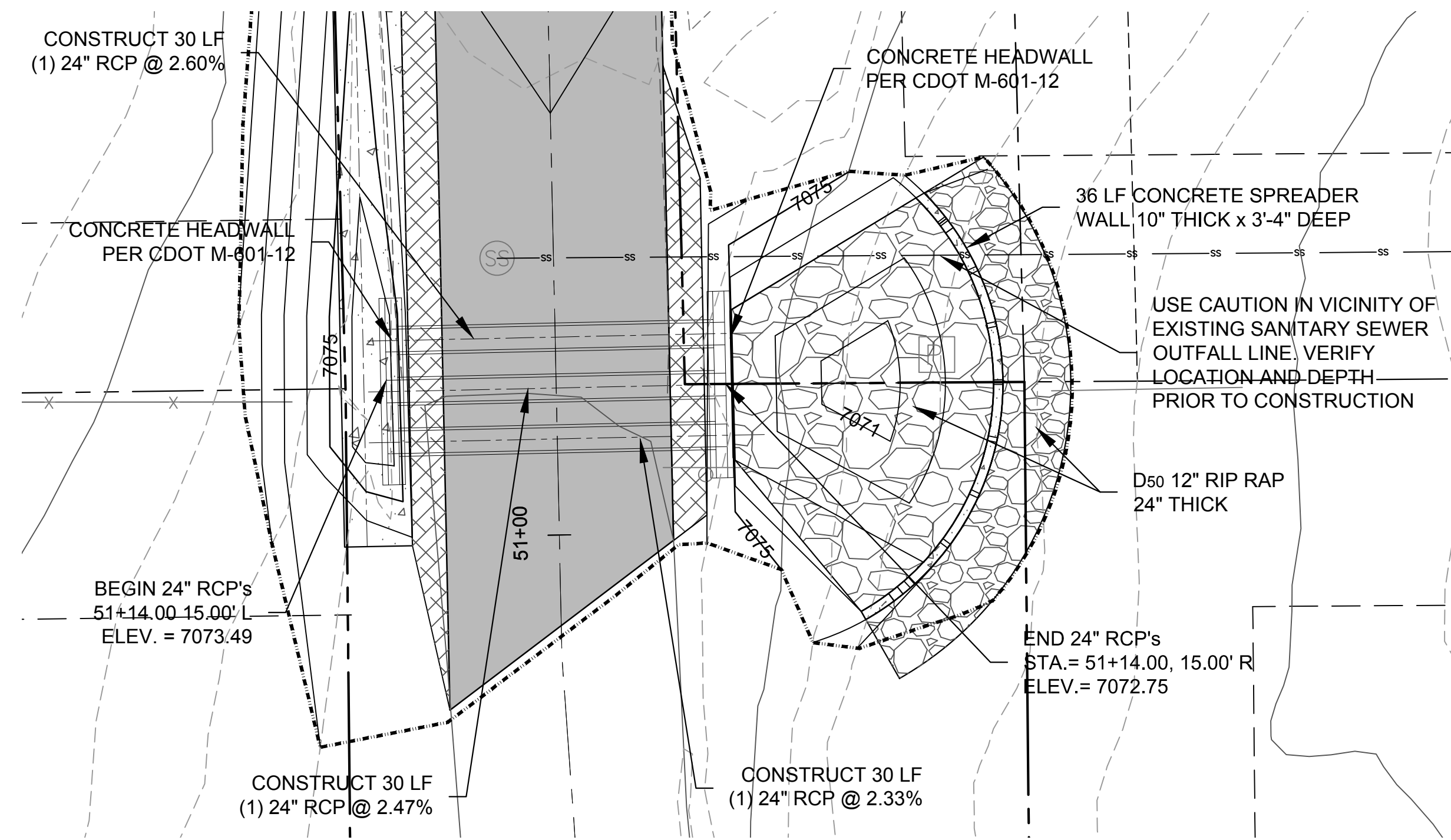
DOUGLAS AVE ROADWAY AND DRAINAGE IMPROVEMENTS
TOWN OF PALMER LAKE
ROADWAY & DRAINAGE IMPROVEMENT PLAN

CULVERT PLAN & PROFILE

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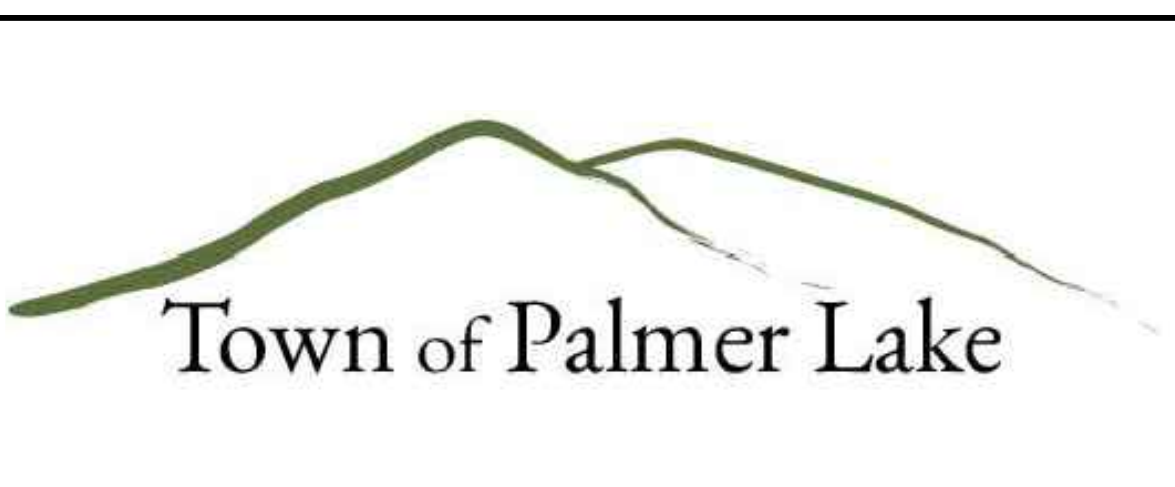


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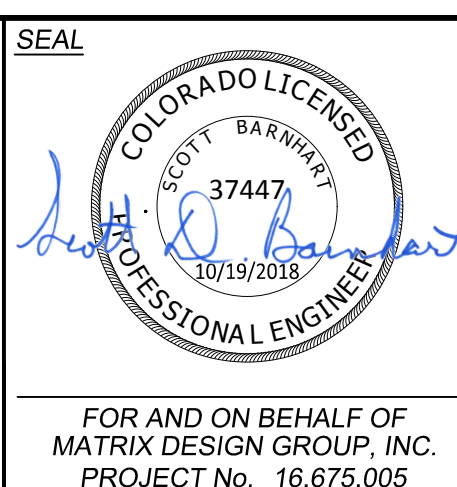


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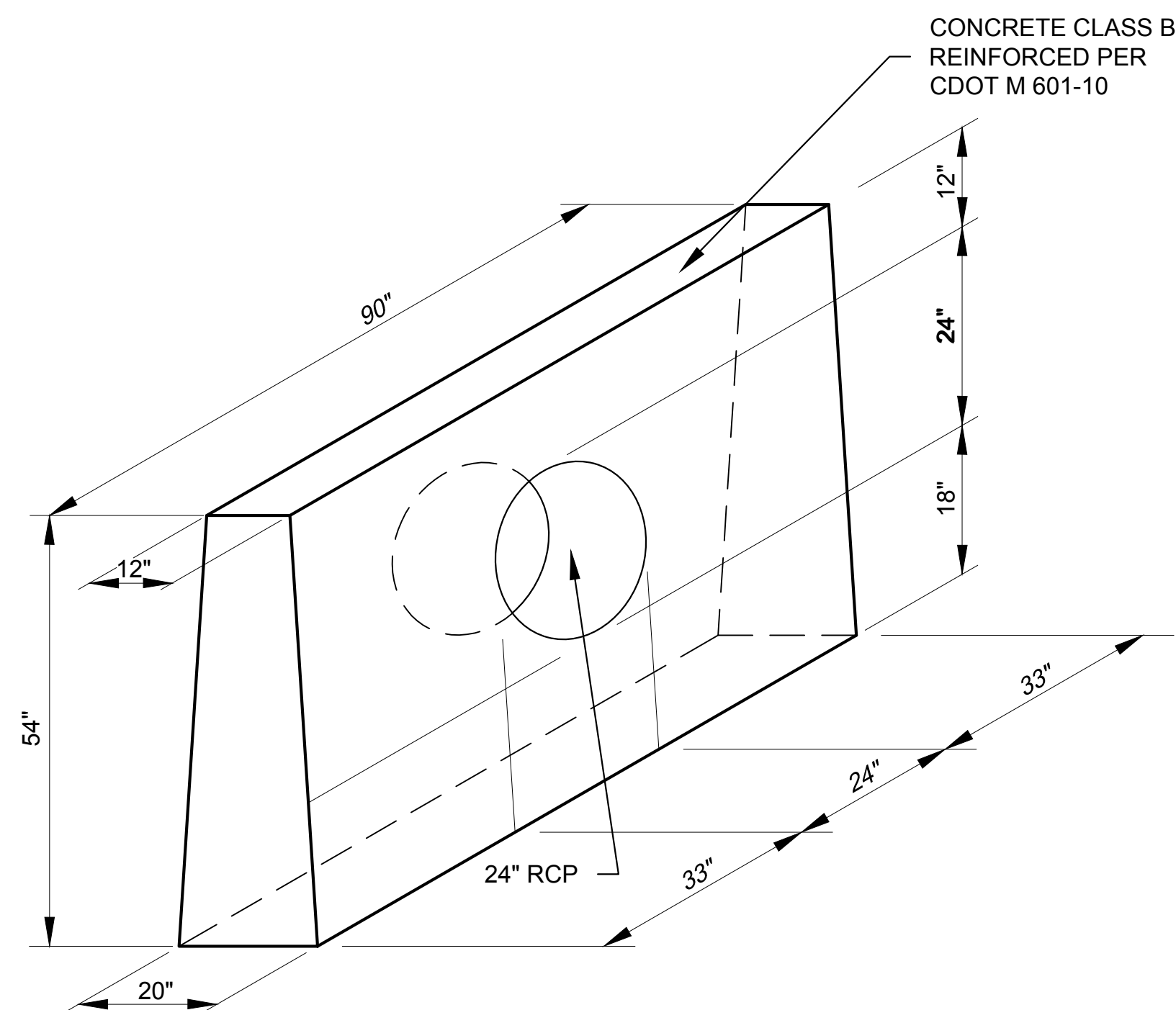
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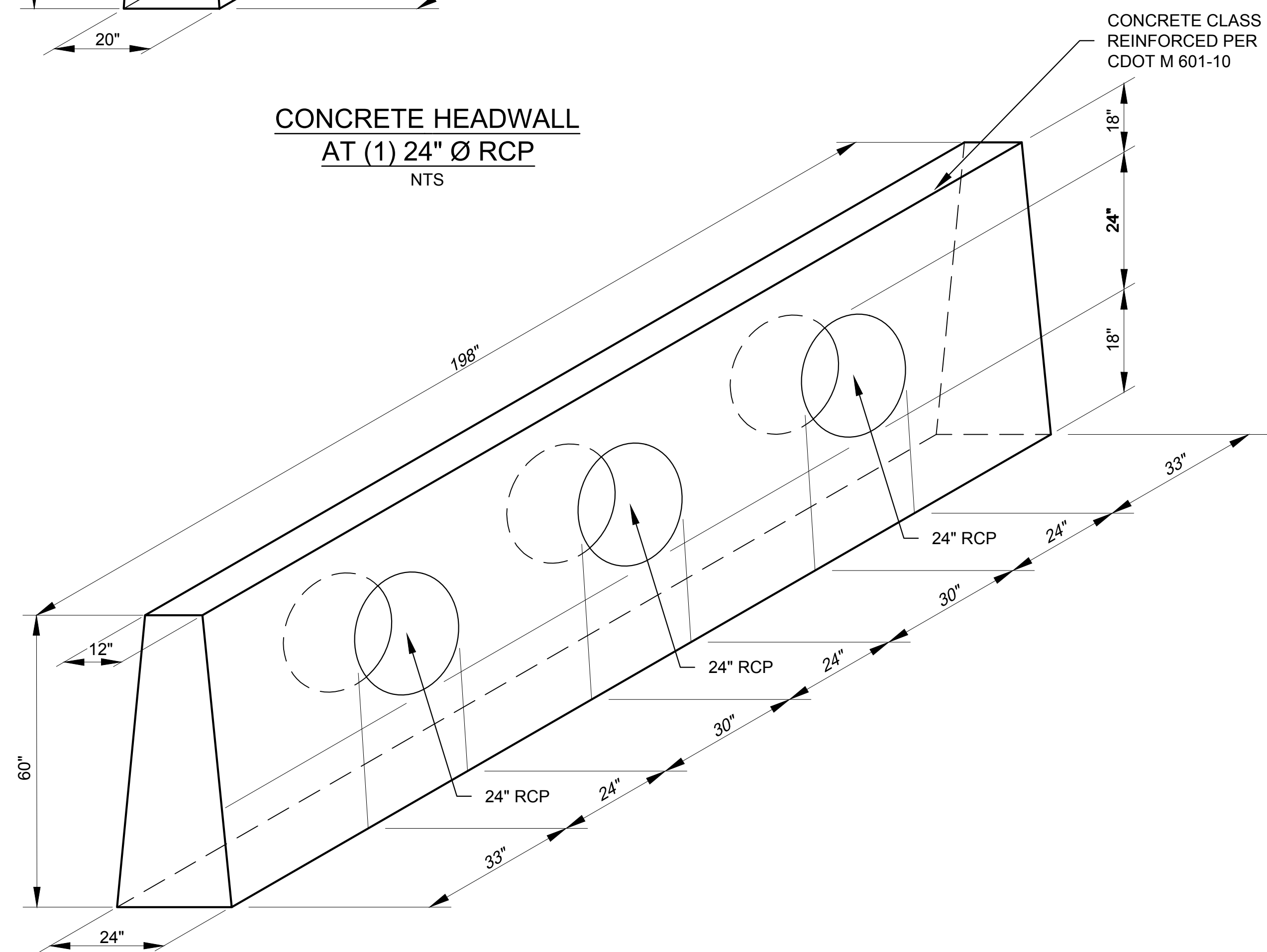
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TOWN OF PALMER LAKE ROADWAY & DRAINAGE IMPROVEMENT PLAN			
CULVERT PLAN & PROFILE			
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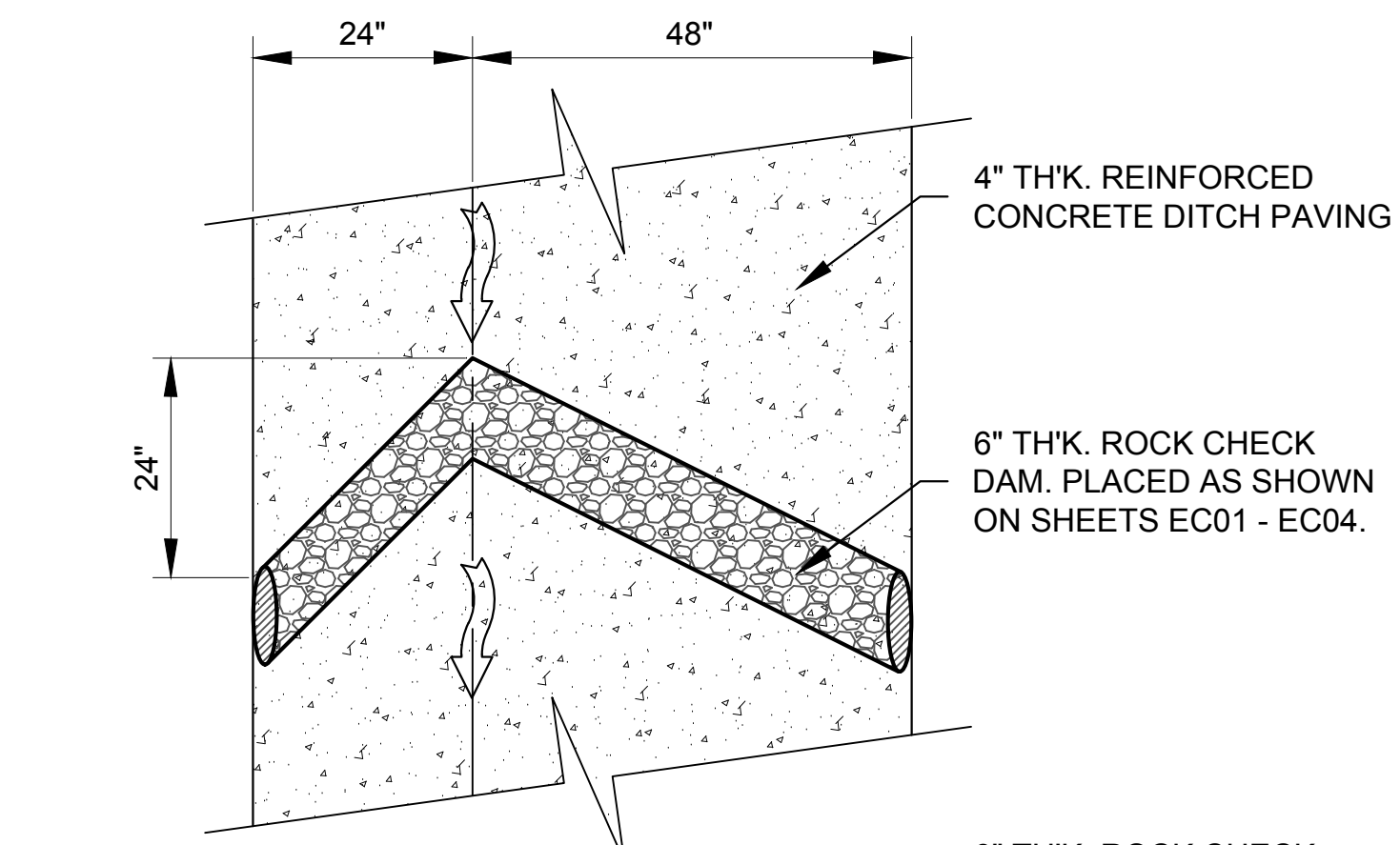
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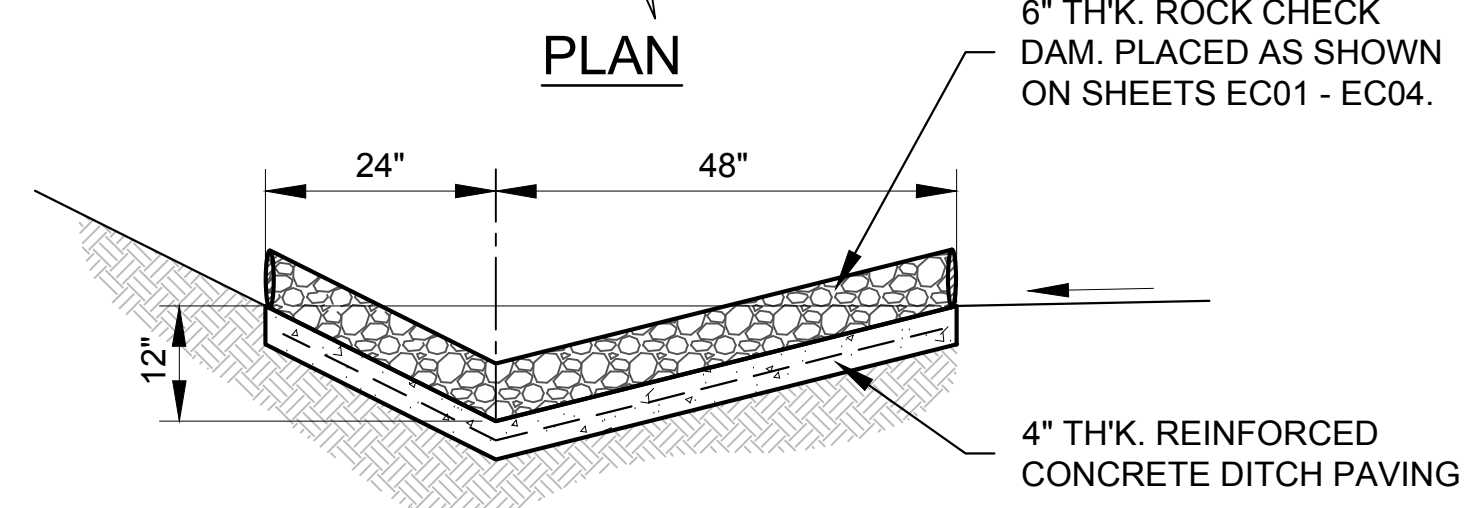
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AT (1) 24" Ø RCP**
NTS



**CONCRETE HEADWALL
AT (3) 24" Ø RCP**
NTS

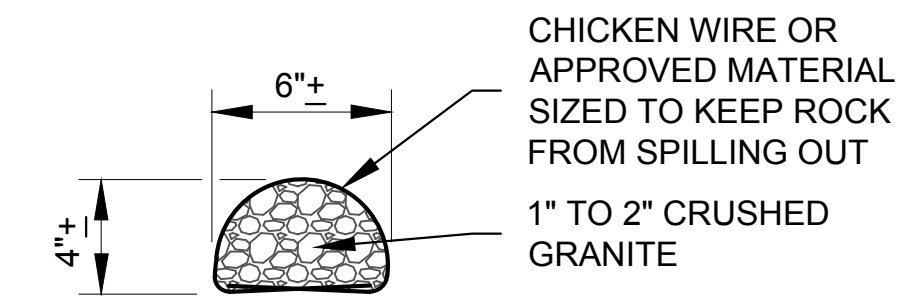


PLAN



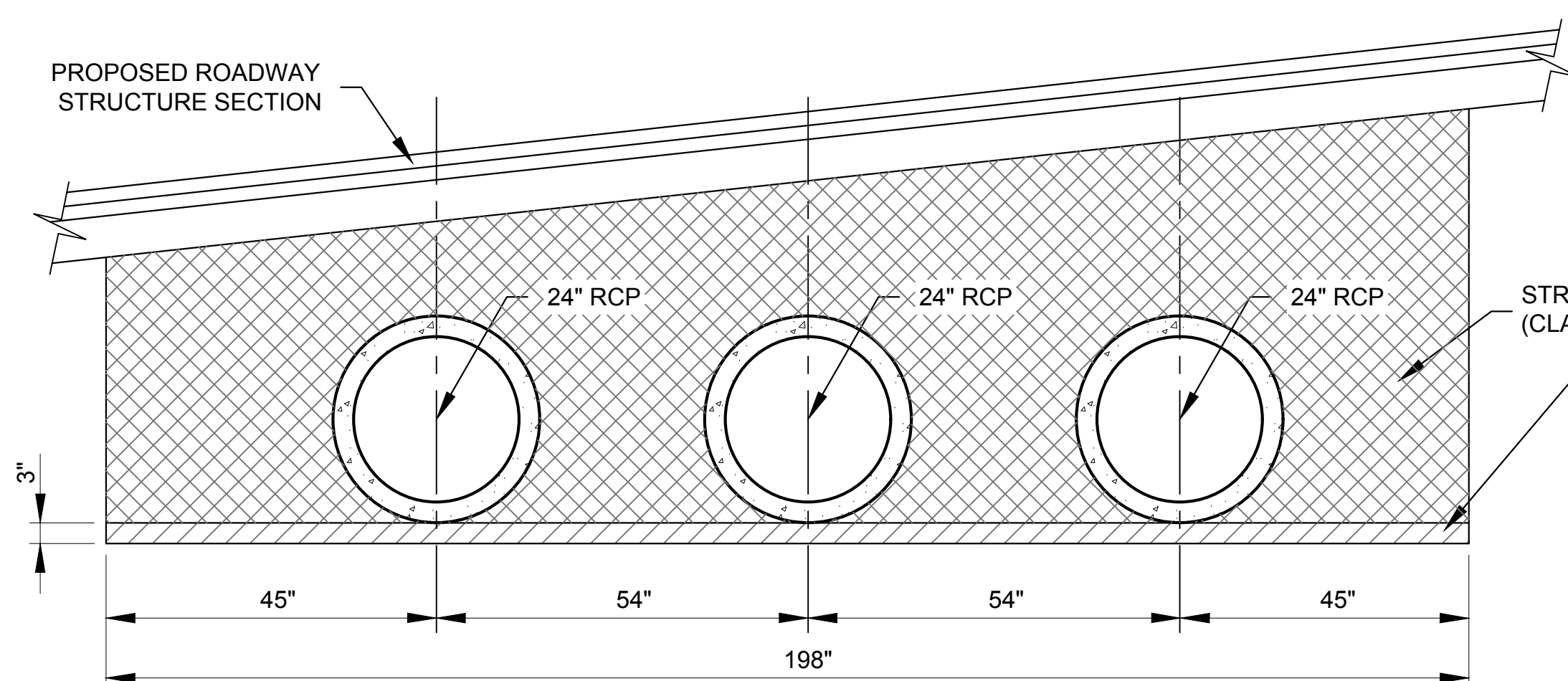
SECTION

ROCK CHECK DAM
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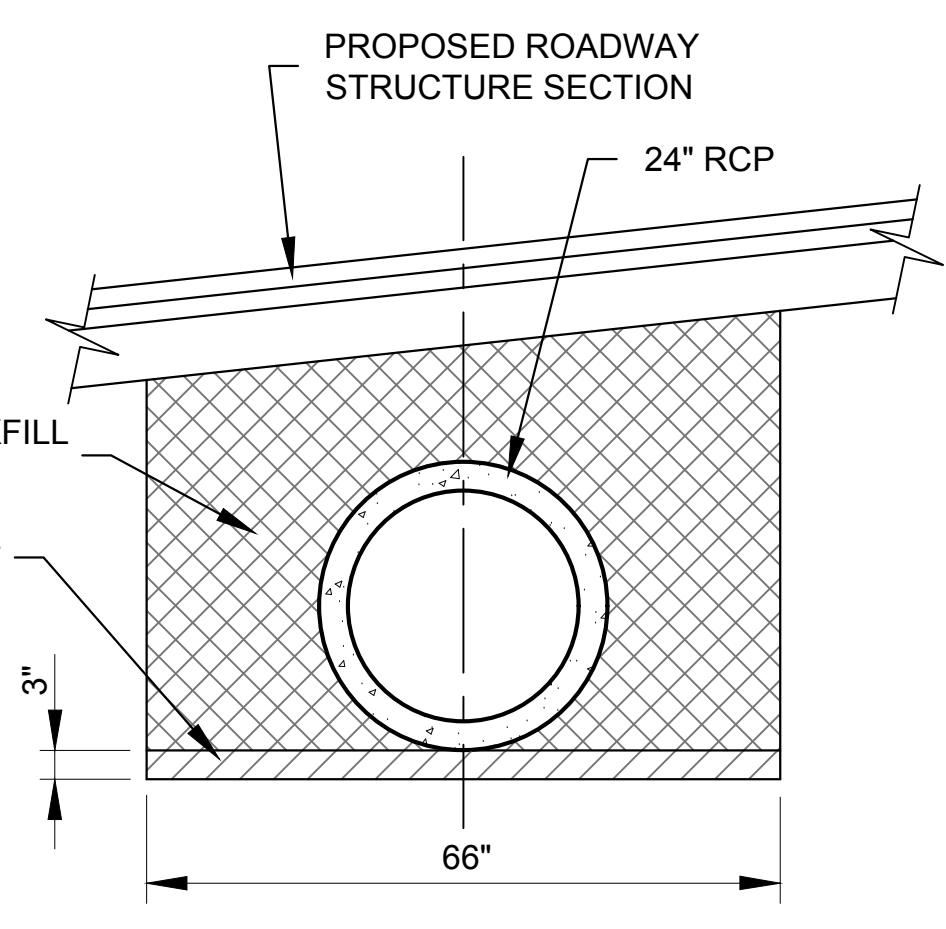


**CHECK DAM
CROSS SECTION**
NTS

NOTE: WIRE TIE ENDS OR SECURE IN ANOTHER SUITABLE FASHION



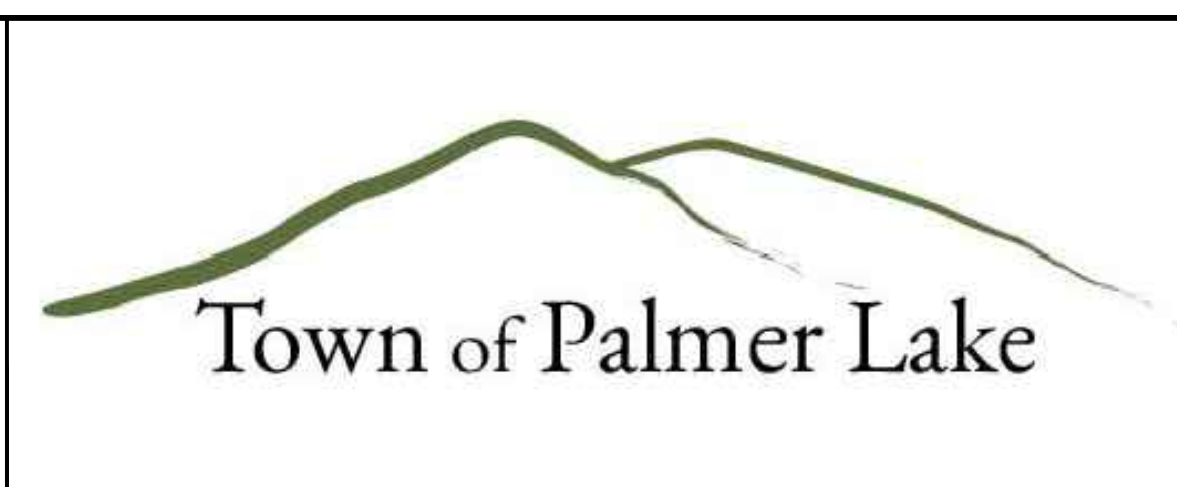
**STRUCTURE BACKFILL
AT (3) 24" Ø RCP**
NTS



**STRUCTURE BACKFILL
AT (1) 24" Ø RCP**
NTS

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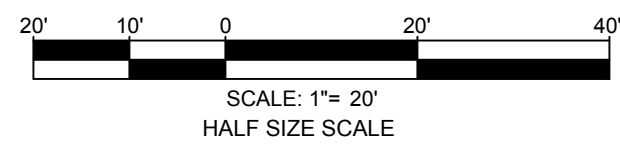
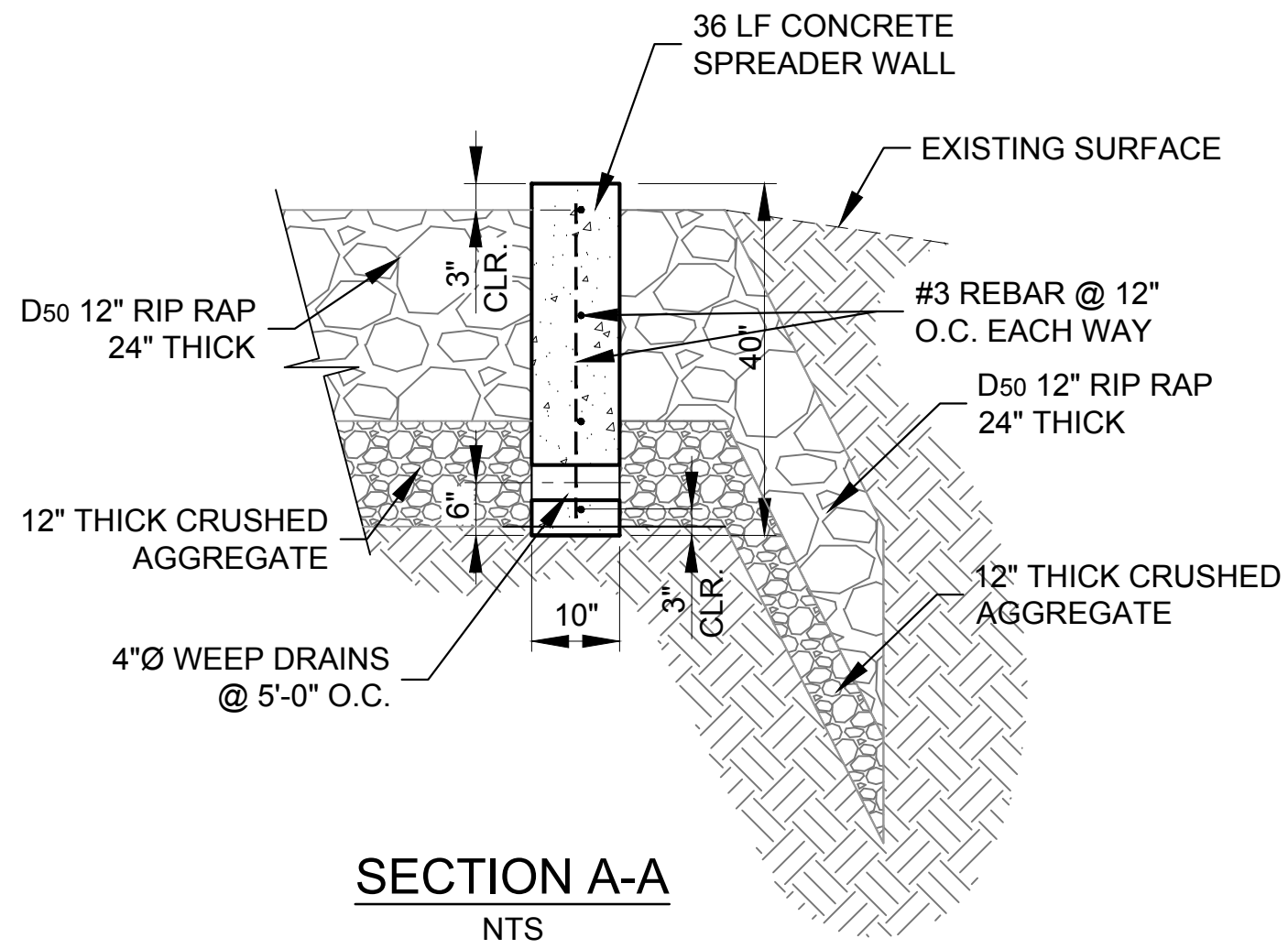
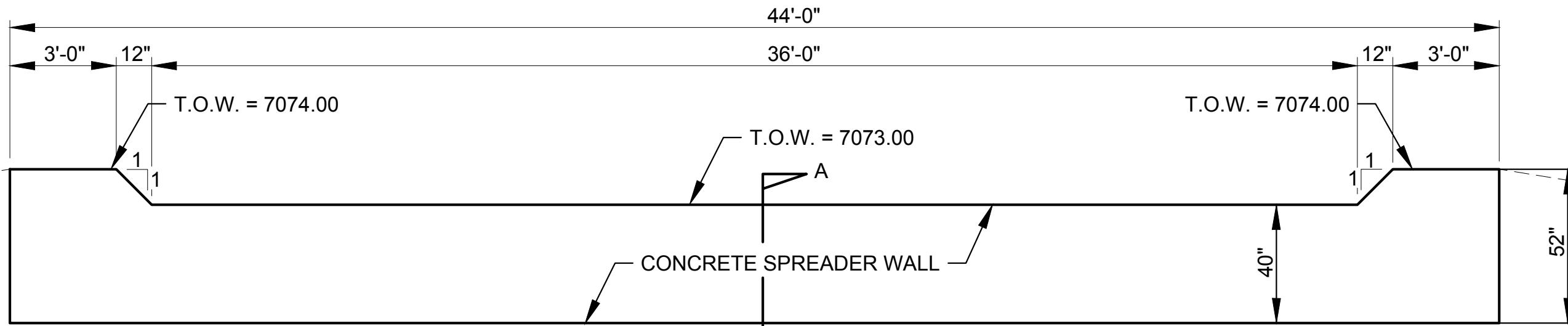
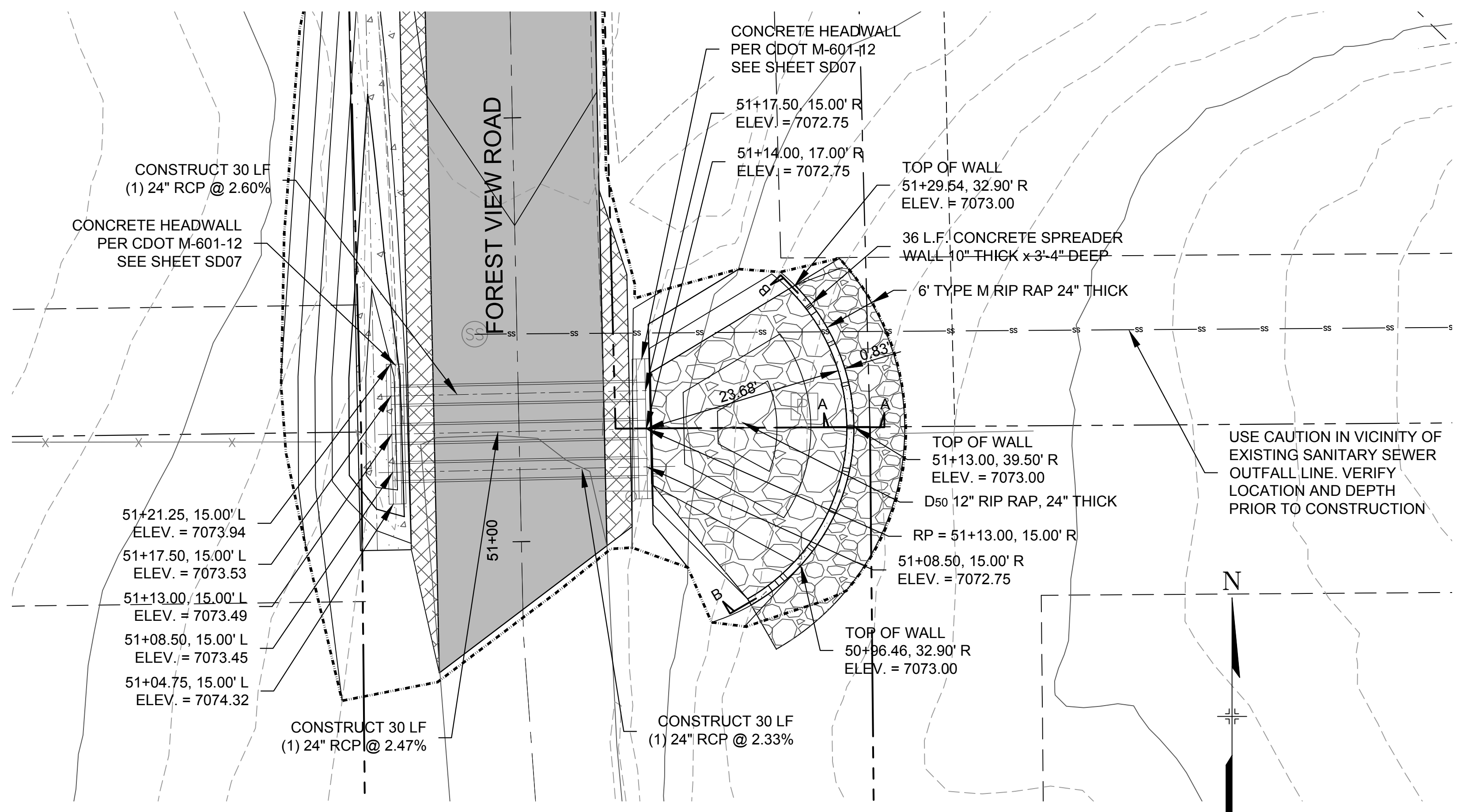
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10/19/2018
PROFESSIONAL ENGINEER

DOUGLAS AVE ROADWAY AND DRAINAGE IMPROVEMENTS				
TOWN OF PALMER LAKE ROADWAY & DRAINAGE IMPROVEMENT PLAN				
STORM WATER DETAILS				
DESIGNED BY: MHH	SCALE: NA	DATE ISSUED: OCTOBER 19, 2018	DRAWING No. SD07	
DRAWN BY: MHH	HORIZ. AS NOTED	SHEET 23 OF 30		
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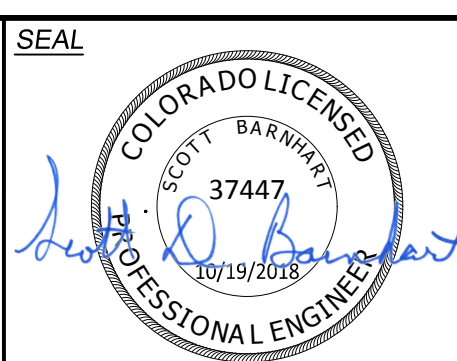
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DOUGLAS AVE ROADWAY AND DRAINAGE IMPROVEMENTS			
TOWN OF PALMER LAKE ROADWAY & DRAINAGE IMPROVEMENT PLAN			
STORM WATER DETAILS			
DESIGNED BY:	MHH	SCALE	DATE ISSUED: OCTOBER 19, 2018
DRAWN BY:	MHH	HORIZ. AS NOTED	DRAWING No.
CHECKED BY:	SDB	VERT. NA	24 OF 30
			SD08

1. SITE DESCRIPTION

The Contractor shall comply with all CDOT contractual requirements and all requirements associated with the CDPS-SCP on this project. The SWMP Administrator shall update to reflect current project site conditions.

A. **PROJECT SITE LOCATION:** The project location of this resurfacing/drainage project is primarily along Douglas Avenue and Forest View Road in the Town of Palmer Lake. The project begins on Sun Crest Road just west of Platte Lane. The project then proceeds east where it turns into Douglas Avenue, passing Trinidad Lane and Hilltop Lane arriving at a tee intersection at Forest View Road. Construction continues to the north approximately 100' and to the south on Forest View Road approximately 350'.

B. **PROJECT SITE DESCRIPTION:** This project involves the regrading, stabilization, paving, shoulder and paved drainage ditch construction along the stated route above. The project will ultimately conclude on Forest View Road to the south where the pavement joins existing pavement and the concrete ditch on the west side of the proposed roadway, conveys water under the existing resurfaced roadway, through (3) proposed 24" RCPs and a proposed stilling basin and allowed to follow the original drainage path to Monument Creek. Along this route, the existing driveways are reconstructed with new HDPE drainage pipes to convey storm water.

C. **PROPOSED SEQUENCING FOR MAJOR CONSTRUCTION ACTIVITIES:** All construction activities will take place within the defined limits of the disturbance area. The contractor will determine the workflow and construction sequence and will be provided prior to the commencement of any construction activity.

D. **ACRES OF DISTURBANCE:**

- Total area of construction site (LOC (PERMITTED AREA)): 2.30 acres
- Total area of proposed disturbance (LDA): 2.30 acres
- Total area of seeding: 0.30 acres
- Total area of impervious surface: 1.40 acres
- Total area of NEW impervious surface: 0.60 acre

E. **EXISTING SOIL DATA:** The USDA Web Soil Survey was consulted to gather soil information for this project. The site follows an existing impervious compacted gravel roadbed along Sun Crest Road, Douglas Avenue and Forest View Road with some areas of existing paved driveway access and concrete ditch paving.

The majority of the project area falls within (41) Kettle gravelly loamy sand, 8 to 40 percent slopes and (93) Tomah-Crawfoot complex, 8 to 15 percent slopes, with lesser significant areas in (38) Jerre-Tecolote complex, 8 to 65 percent slopes, and (65) Perry park gravelly sandy loam, 3 to 9 percent slopes per the NRCS soil maps.

F. **EXISTING VEGETATION, INCLUDING PERCENT COVER:**

A survey including general description of existing vegetation shall be conducted by the SWMP Administrator for Design prior to any ground disturbance on the project. The SWMP Administrator for Design shall photo-document existing vegetation where all work will be occurring. The SWMP Administrator for Design 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.

Pre-Construction Date of survey: _____ %Density: _____

Description of existing vegetation:

Map or table showing transect locations in SWMP notebook tab 17:

Post-Construction Date of survey: _____ %Density: _____

Description of existing vegetation:

Date of CDPS-SCP Closure: _____

Map or table showing transect locations in SWMP notebook tab 17:

G. **POTENTIAL POLLUTANTS SOURCES:** See First Construction Activities under Potential Pollutant Sources. The SWMP Administrator shall prepare a list of all potential pollutants and their locations in accordance with subsection 107.25. BMPs shall be placed as required to contain any potential pollutants.

H. **RECEIVING WATER:**

- Outfall locations: The outfall location for this project is an existing drainage easement and natural swale, located between two properties at the southerly project limits. The existing swale conveys water east to Monument Creek.
- Names of receiving water(s) on site: Monument Creek
- Ultimate receiving water: Fountain Creek
- Distance nearest water of the state is from project: Monument Creek is approximately 1,230 feet from the project outfall.

I. **NON-STORMWATER DISCHARGES:** None anticipated

ALLOWABLE:

- Groundwater and stormwater dewatering: Discharges to the ground of water from construction dewatering activities may be authorized provided that:
 - the source is groundwater and/or groundwater combined with stormwater that does not contain pollutants
 - the source and BMPs/Control Measures are identified in the SWMP
 - discharges do not leave the site as surface runoff or to surface waters
 - 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

CONTAMINATED:

- 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.

2. SITE MAP COMPONENTS:

Pre-construction

- PROJECT CONSTRUCTION POTENTIAL SITE BOUNDARIES:** See plan and detail sheets for identified work areas.
- ALL AREAS OF GROUND SURFACE DISTURBANCE:** See plan and detail sheets for identified work areas.
- AREAS OF CUT AND FILL:** See grading & erosion control plan for BMP placement.
- LOCATION OF ALL STRUCTURAL BMPs/CONTROL MEASURES IDENTIFIED IN THE SWMP:** See grading & erosion control plan
- LOCATION OF NON-STRUCTURAL BMPs/CONTROL MEASURES AS APPLICABLE IN THE SWMP:** See grading & erosion control plan.
- SPRINGS, STREAMS, WETLANDS AND OTHER SURFACE WATER:** See roadway plans.
- PROTECTION OF TREES, SHRUBS, CULTURAL RESOURCES AND MATURE VEGETATION:** See roadway and demolition and removal plans.
- AREAS USED FOR STORING AND STOCKPILING OF MATERIALS, STAGING AREAS (field trailer, fueling, etc.) and BATCH PLANTS:** To be determined by the construction contractor.

3. SWMP ADMINISTRATOR:

A. **SWMP ADMINISTRATOR FOR DESIGN:**

Name/Title	Contact Information
Scott Bamhart, PE, PTOE Project Manager	(719) 575-0100 scott_bamhart@matriuxdesigngroup.com

B. **SWMP ADMINISTRATOR FOR CONSTRUCTION:** (As defined in Subsection 208) The Contractor shall designate a SWMP Administrator for Construction upon ownership of the SWMP. The SWMP Administrator shall become the owner/operator and assume responsibility for all design changes to the SWMP implementation and maintenance in accordance to 208.03. The SWMP Administrator shall be responsible for implementing, maintaining and revising SWMP, including the title and contact information. The activities and responsibilities of the SWMP administrator shall address all aspects of the projects SWMP. (Update the information below for each new SWMP Administrator) (Copy of TECS Certification must also be included in the SWMP Notebook)

To be determined by the construction contractor.

Name/Title	Contact Information	Certification #	Start Date

C. **EROSION CONTROL INSPECTOR:** (As defined in Subsection 208) The Contractor may designate an Erosion Control Inspector. The Erosion Control Inspector shall complete duties in accordance with subsection 208.03 (c) (Copy of TECS Certification must also be included in the SWMP Notebook)

To be determined ruction contractor.

Name/Title	Contact Information	Certification #	Start Date

4. STORMWATER MANAGEMENT CONTROLS FIRST CONSTRUCTION ACTIVITIES

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

A. **POTENTIAL POLLUTANT SOURCES**

Evaluate, identify, locate and describe all potential sources of pollutants at the site in accordance with subsection 107.25, CDPS-SCP and place in the SWMP notebook. All BMPs/Control Measures related to potential pollutants shall be shown on the SWMP site map by the Contractor's SWMP Administrator.

B. **OFFSITE DRAINAGE (RUN ON WATER)**

1. Describe and record BMPs/Control Measures on the SWMP site map that have been implemented to address off site run-on water in accordance with subsection 208.03.

C. **VEHICLE TRACKING PAD/VEHICLE TRACKING CONTROL**

1. BMPs/Control Measures shall be implemented in accordance with subsection 208.04.

D. **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/Control Measures as approved.

3. Perimeter control shall be in accordance with subsection 208.04.

5. DURING CONSTRUCTION

RESPONSIBILITIES OF THE SWMP ADMINISTRATOR 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 in accordance with subsection 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 SWEEPING:** Shall be done in accordance with subsection 208.04

6. INSPECTIONS

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

7. BMP/CONTROL MEASURE 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 (d).

9. INTERIM AND PERMANENT STABILIZATION

A. **SEEDING PLAN**

Soil preparation, soil conditioning or topsoil, seeding (native), mulching (weed free) and mulch tackifier will be required for an estimated 0.27 acres of disturbed area within the right-of-way limits which are not surfaced. The following types and rates shall be used:

COMMON NAME	BOTANICAL NAME	LBS. PLS PER ACRE
Arizona fescue	<i>Festuca arizonica</i>	4
Mountain mulch	<i>Muhlenbergia montana</i>	2
Western wheatgrass #	<i>Pascopyrum smithii v. Ariba</i>	4
Mountain brome #	<i>Bromus marginatus</i>	4
Side-oats grama #	<i>Boutelous curtipendula</i>	2
Sandberg bluegrass #	<i>Poa secunda v. sandbergii</i>	1
Letterman's needlegrass #	<i>Achnatherum lettermanii</i>	2
Little bluestem	<i>Schizachyrium scoparium</i>	3
Prairie junegrass	<i>Koeleria macrantha</i>	0.5
Mountain lupine	<i>Lupinus argenteus spp rubricaulis</i>	1
Bluebells	<i>Phacelia campanularia</i>	1
Rocky Mountain Penstemon	<i>Penstemon strictus</i>	1
Fringed sagewort #	<i>Artemisa frigida</i>	0.5
Shrubby cinquefoil	<i>Potentilla fruticosa</i>	1
* Cover/Nurse Crop Oats or	<i>Avena sativa (Spring)</i>	2
* Cover/Nurse Crop Regreen	<i>Triticum aestivum (Spring or Fall)</i>	2
TOTAL		28-29

* Use either one depending on seeding period. #mgcl and salt tolerant from road surface.

NOTE:

1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING, AND MAINTAINING, THE COLORADO DISCHARGE PERMIT SYSTEM (CDPS) STORMWATER CONSTRUCTION PERMIT FOR THIS PROJECT.

2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY NECESSARY DEWATERING PERMITS FOR THIS PROJECT.

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 or hydroseed at double the rate and rake 0.25 inch to 0.5 inch into the soil per subsection 212.

C. **MULCHING APPLICATION:** Apply a minimum of 1 1/2 tons of certified weed free hay per acre and in accordance with Section 212, and mechanically crimp it into the soil in combination with an organic mulch tackifier.

1. Prior to winter shutdown or the summer seeding window closure: 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 subsections 208 and 213.

D. **SPECIAL REQUIREMENTS:**

1. Due to steep slopes (>2:1), hydroseeding will be allowed on this project for permanent stabilization. Hydroseeding rate shall be at double the seeding rate. Hydroseed shall be applied in two applications. The first application is a slurry which contains seed, organic amendment and fertilizer. The second application is a slurry of mulch and tackifier. Both slurry applications shall be applied from top of slope downward, in 50' vertical lifts, unless otherwise approved by the Engineer.

E. **SOIL CONDITIONING AND FERTILIZER REQUIREMENTS:** Minimum requirements for all disturbances to receive seeding (native).

Soil conditioner paid for as Item 212- Soil Conditioning (Acre)			
Biological nutrient organic based fertilizer (lbs/acre)*	Humate (lbs/acre)	Compost (cys/acre) All areas <2:1	Spray on Amendment (lbs/acre) >2:1 slopes only
600	200	65	3500

*Biological nutrient shall not exceed 8-8-8 (N-P-K).

Humate based material shall be in accordance to Standard Special Provision 212 and compost shall be in accordance to Standard Special Provision 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 and placed after seeding (native). See SWMP site map for blanket/trm locations.

G. **RESEEDING OPERATIONS/CORRECTIVE STABILIZATION**

Prior to partial acceptance:

- All seeded areas shall be reviewed during the 14-day inspections by the SWMP Administrator and or Erosion Control Inspector 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.
- The Contractor shall maintain seeding/mulch/tackifier/blanket/TRM, mow to control weeds or apply herbicide to control weeds in the seeded areas until Partial Acceptance of the stormwater construction work.

10. PRIOR TO PROJECT FINAL ACCEPTANCE

A. Partial Acceptance shall be in accordance with subsection 107.25 (d), 208.10 and 214.04 at the Partial Acceptance of the project, it shall be determined by the SWMP Administrator and the Engineer which temporary BMPs/Control Measures shall remain until 70% revegetation is established or which shall be removed.

B. At the end of the project, all ditch checks shall either consist of temporary erosion logs (or equivalent), permanent rip-rap or devices called out in the construction documents to remain as permanent check dams.

C. All storm drains shall be cleaned prior to the Final Acceptance of the project. Work shall be included in 203 Clean Culvert.

D. Additionally, all the items listed below must be completed in order to be considered to have final stabilization.

- The site has vegetative cover with a density of at least 70 % compared to the original undisturbed site.
- Proper installation of all approved, permanent, post-construction stormwater quality BMPs.
- Removal of all stockpiles of soil, construction material/debris, construction equipment, etc. from the construction site.
- Streets and other paved surfaces are clean and free from any sediment or debris.

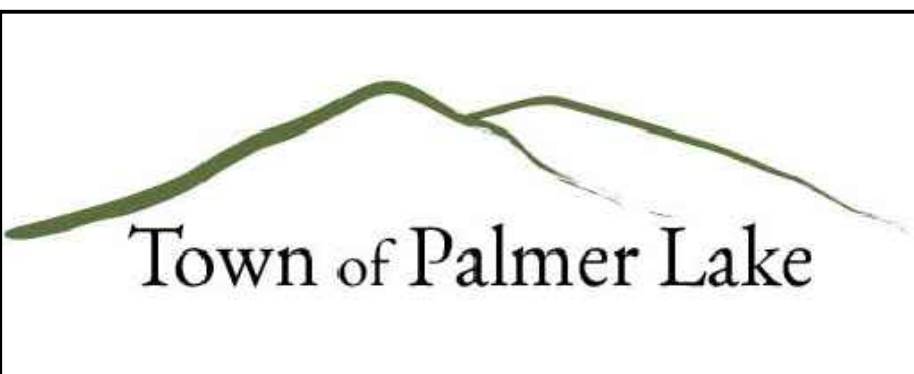


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11. NARRATIVES:

A. ADDITIONAL BMPs/CONTROL MEASURES AND NARRATIVES:
 BMP/Control Measure details and narratives not covered by the SWMP or Standard Plan M-208, M-216 shall be added to the SWMP notebook by the SWMP Administrator.

STRUCTURAL BMPs/Control Measures 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	M-208	M-208	M-208	M-208	M-208	M-208	BMP/CONTROL MEASURE PHASING		
								INITIAL CONSTRUCTION	CONSTRUCTION	FINAL STABILIZATION
PROTECTION OF EXISTING WETLANDS Fence (plastic) and erosion logs	Fence (plastic) shall be placed in combination with erosion logs to prevent encroachment of construction traffic and sediment into state waters prior to start of construction disturbances. Fence (plastic) shall be placed adjacent to the wetlands; erosion logs shall be placed between the plastic fence and disturbance area. Logs shall be placed to direct flows away from or filter water running into wetlands from disturbance areas.	N/A						X	X	
PROTECTION OF EXISTING TREES/LANDSCAPING Fence (plastic)	Fence (plastic) shall be used in areas indicated in the plans to prevent encroachment of construction traffic and sediment for the protection of mature trees and/or existing landscaping prior to start of construction disturbances.	N/A						X	X	
CHECK DAM/DITCH CHECK Erosion log, silt berm, silt dike, rock check dam	Placed in ditches immediately upon completion of ditch grading to reduce velocity of runoff in ditch. For existing ditches, place prior to start of construction disturbances.	M-208						X	X	X
CULVERT INLET/OUTLET PROTECTION Erosion logs, aggregate bags	Placed at mouth of culvert inlets and over top of culvert at inlet and outlet where disturbance may be occurring adjacent to pipe to prevent sediment laden water from entering pipe or drainage. Place prior to start of construction disturbances.	M-208						X	X	X
STOCKPILE PROTECTION Temporary berm, erosion logs, aggregate bags*	Placed within specified distance, in accordance with subsection 208.06, 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.	M-208							X	
TOE OF FILL PROTECTION Erosion logs, temporary berm, silt fence, 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.	M-208						X	X	
PERIMETER CONTROL Erosion logs, silt fence, temporary berm, topsoil windrow*	Placed prior to construction commencing to address potential run-on water from off site, and to divert around disturbed areas. *Can be used to stockpile topsoil for salvage.	M-208						X	X	
SEDIMENT CONTROL/ SLOPE CONTROL Silt fence, erosion logs	Placed on the contour of a slope to contain and slow down construction runoff. Place prior to start of construction disturbances.	M-208						X	X	
TEMPORARY SEDIMENT TRAP (SWMP Administrator shall add locations to SWMP site maps)	Used to capture sediment laden runoff from disturbed areas < 5 acres during construction. Place prior to start of construction disturbances.	M-208						X	X	
PERMANENT SEDIMENT BASIN Extended detention basin or other Permanent Water Quality features	Constructed early in project prior to storm sewer/ditches to capture storm flow as a temporary sediment trap. Outlet structure shall be modified for contaminants of construction runoff a non-standard detail is needed.	N/A						X	X	
OUTLET PROTECTION Riprap, or approved other	Material placed as energy dissipater to prevent erosion at outlet structure.	N/A						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.	M-208						X	X	
VEHICLE TRACKING PAD	Source control, placed to prevent tracking of sediment from disturbed area to offsite surface.	M-208						X	X	
SWEEPING	Source control, used to remove sediment tracked onto paved surfaces and to prevent sediment from entering drainage system. Sweep daily and at the end of the construction shift as needed. Kick brooms shall not be permitted.	N/A						X	X	
DEWATERING (Contractor is responsible for obtaining a permit from Colorado Department of Health and Environment.)	Shall be done in such a manner to prevent potential pollutants from entering state waters.	N/A						X	X	

12. TABULATION OF STORMWATER QUANTITIES

A. BMP/Control Measure sediment removal and disposal, establishment of seeded areas, mowing, weed control, reseeding/mulch/tackifier, sweeping and removal of trash shall be paid for as: 700-70380 Erosion Control. All other BMP/Control Measure maintenance shall be included in the cost of the BMP/Control Measure.

Spec.	Pay Item	Description	Pay Unit	Initial Const.	Interim Const.	Permanent Stabilization	*Total Quantity
SSP	208-00001	Silt Dike	LF	55			55
SSP	208-00008	Erosion Log Type 1 (9 inch)	LF	55			55
SSP	208-00011	Erosion Bales (Weed Free)	Each	10			10
PSP	208-00033	Sediment Trap	Each	2			2
SSP	208-00020	Silt Fence	LF	1610			1610
SSP	208-00041	Rock Check Dam	Each	50			50
SSP	208-00045	Concrete Washout Structure	Each	1			1
SSP	208-00051	Storm Drain Inlet Protection (Type I)	Each	1	20		20
SSP	208-00070	Vehicle Tracking Pad	Each	1			1
SSP	208-00207	Erosion Control Management (ECM)	Day	20			20
SSP	212-00006	Seeding (Native)	Acre	0.27			0.27
SSP	213-00002	Mulching (Weed Free Hay)	Acre	0.27			0.27
SSP	216-00201	Soil Retention Blanket (Straw/Coconut) (Biodegradable Class 1)	SY	232			232
PSP	700-70380	Erosion Control	FA	1			1

*It is anticipated that additional BMPs/Control Measures and BMP/Control Measure 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. Quantities for all BMPs/Control Measures shown above are estimated, and have been increased for unforeseen conditions and normal BMP/Control Measure life expectancy. 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.

13. BIOLOGICAL IMPACTS

A. ENVIRONMENTAL IMPACTS:

1. Wetland Impacts: YES NO
2. Stream Impacts: YES NO
3. Threatened and Endangered Species: No species are anticipated to be impacted by the project
4. If YES to any of the above items, are any permits required or additional actions needed (404, etc.)

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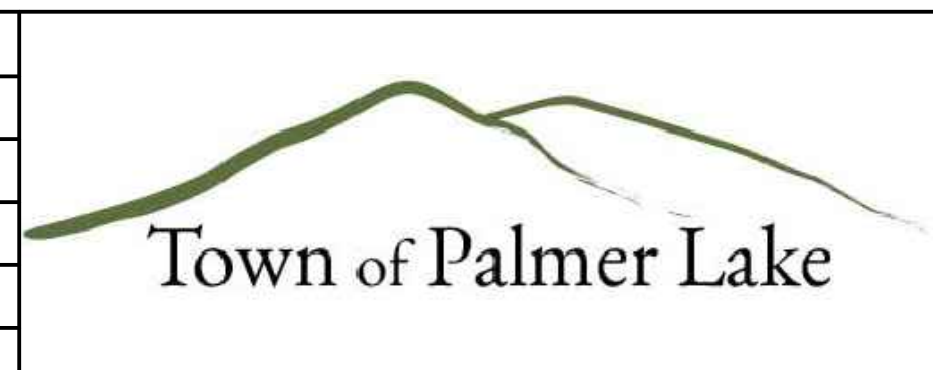


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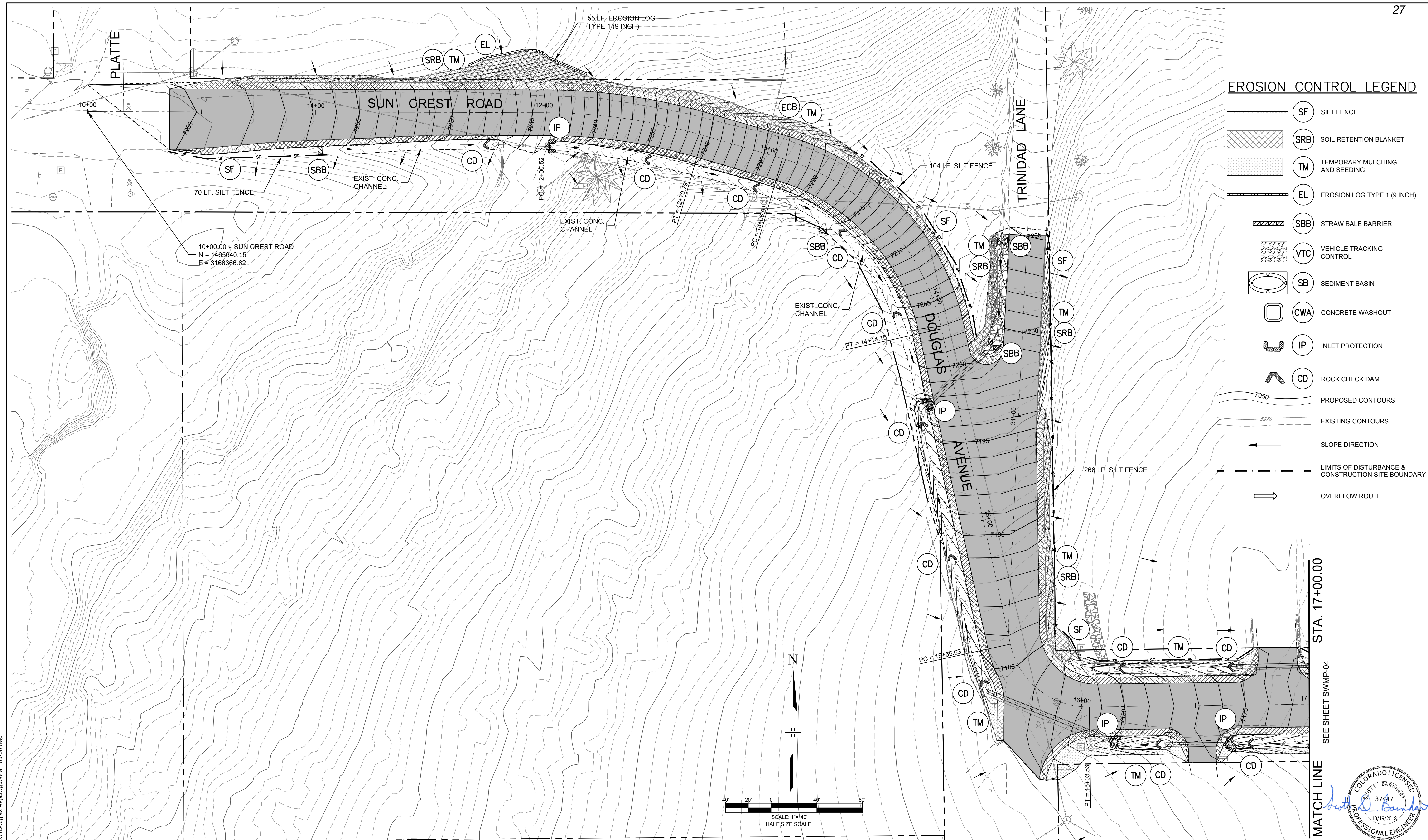


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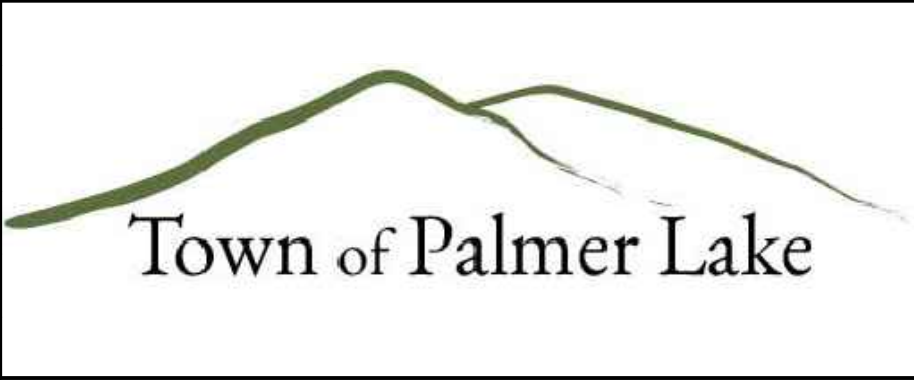


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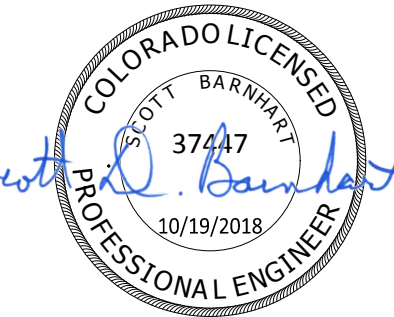
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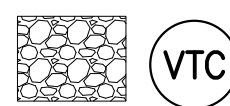
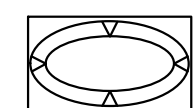



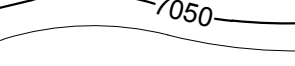
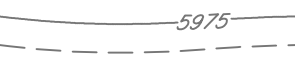
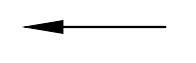

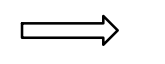
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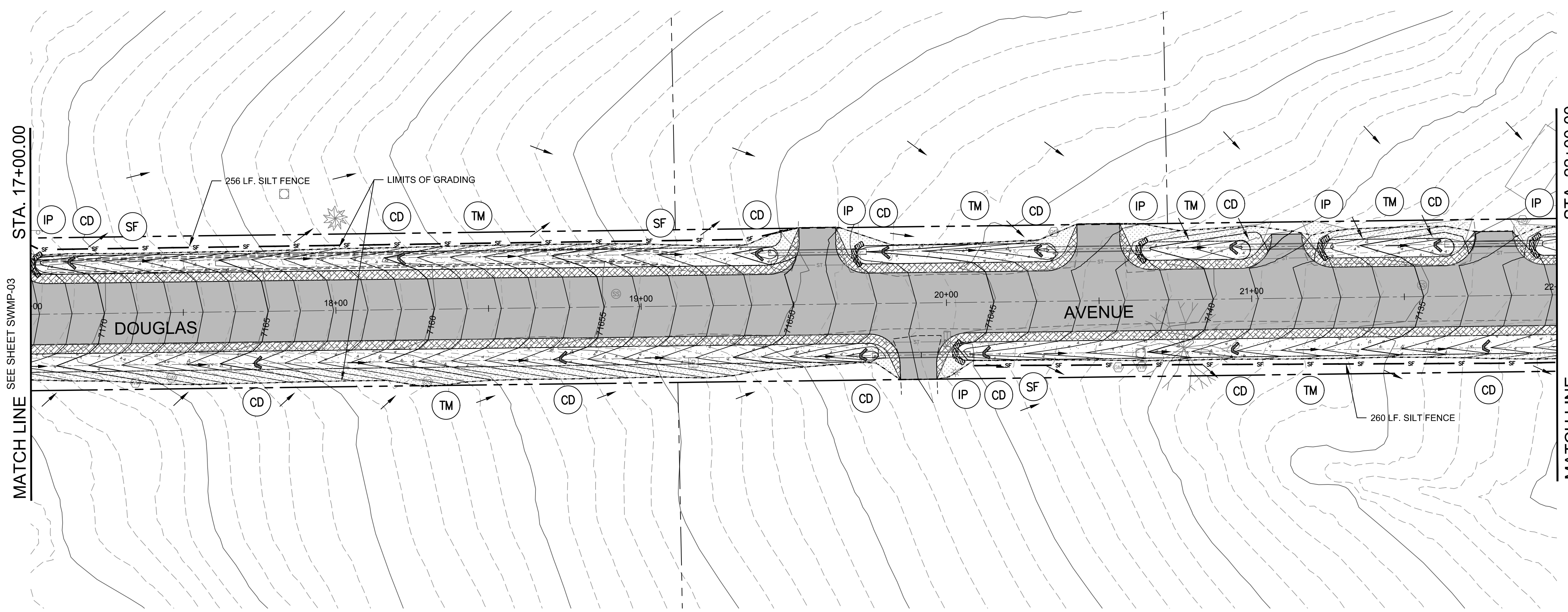
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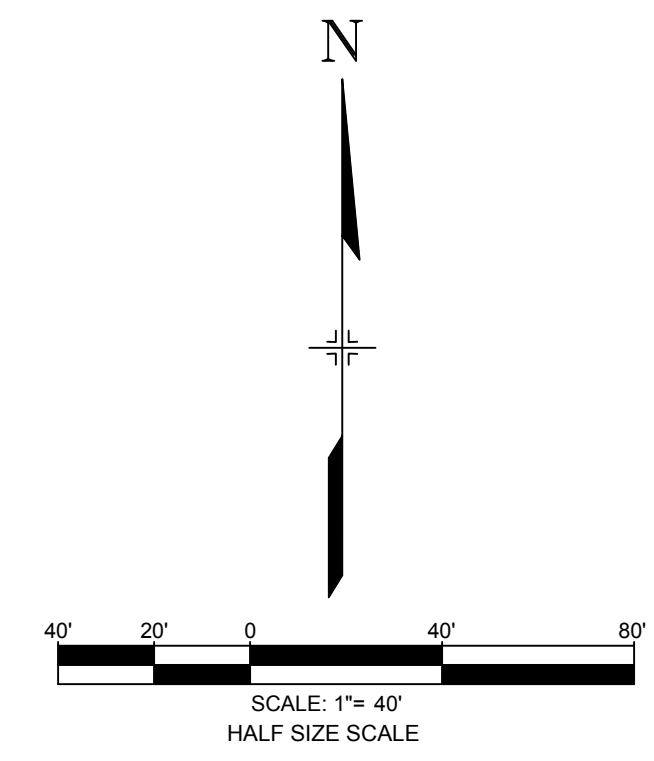
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-  SRB SOIL RETENTION BLANKET
-  TM TEMPORARY MULCHING AND SEEDING
-  EL EROSION LOG TYPE 1 (9 INCH)
-  SBB STRAW BALE BARRIER
-  VTC VEHICLE TRACKING CONTROL
-  SB SEDIMENT BASIN
-  CWA CONCRETE WASHOUT
-  IP INLET PROTECTION
-  CD ROCK CHECK DAM
-  7050 PROPOSED CONTOURS
-  5975 EXISTING CONTOURS
-  SLOPE DIRECTION
-  LIMITS OF DISTURBANCE & CONSTRUCTION SITE BOUNDARY
-  OVERFLOW ROUTE



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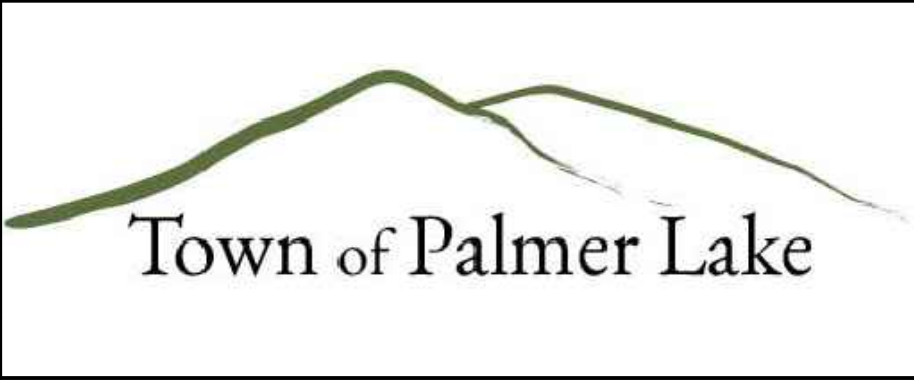


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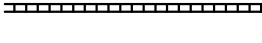
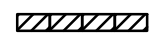
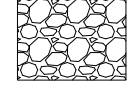
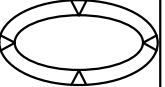





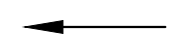




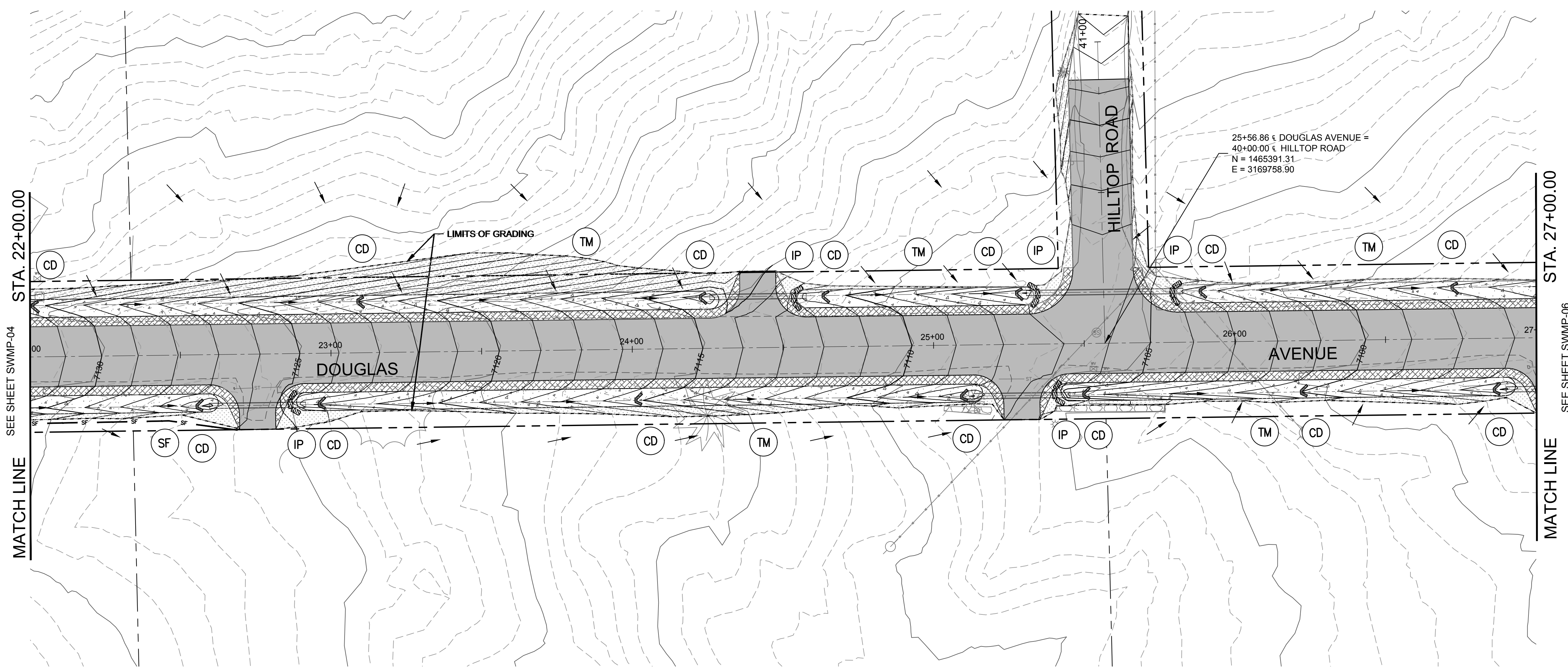
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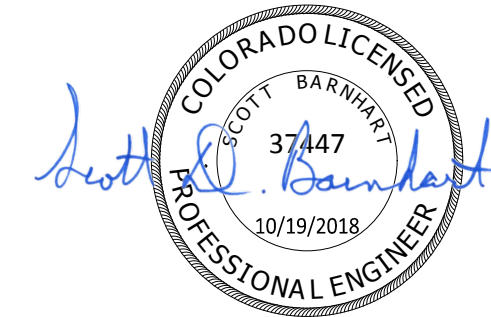
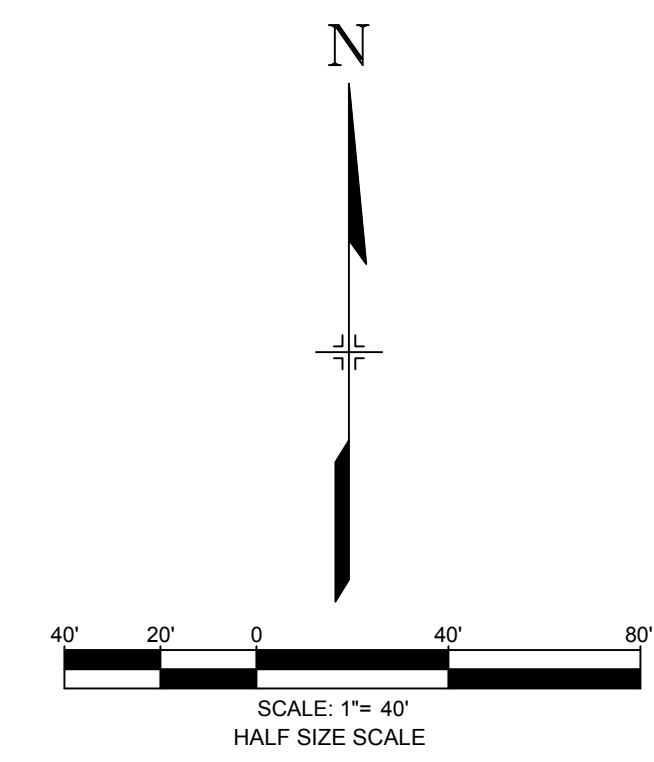
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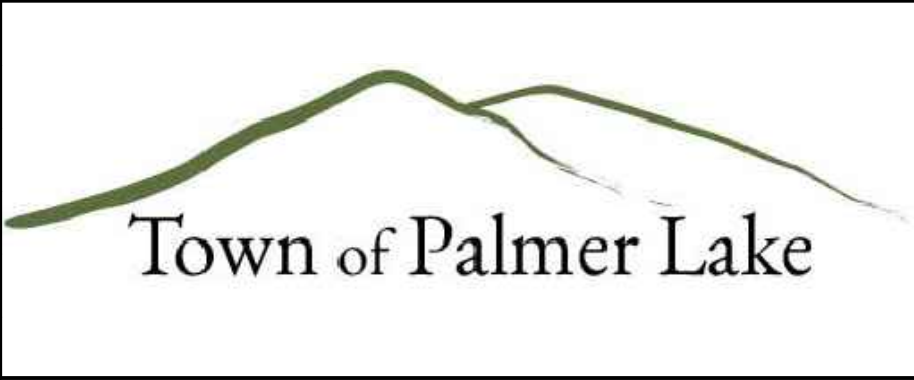


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